

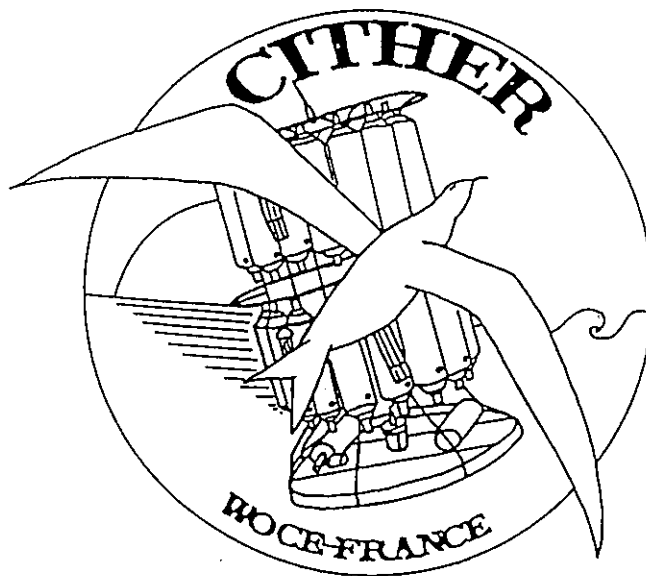
**Laboratoire de Physique des Océans**  
**Unité mixte de Recherche**  
**CNRS/IFREMER/Université de Bretagne Occidentale**

**Campagne CITHER-2**  
N/O MAURICE EWING (4 janvier-21 mars 1994)

**Recueil de données**  
**Volume 3 : Traceurs Géochimiques**

par

**Le Groupe CITHER-2**



**Organismes et laboratoires**  
**maîtres d'oeuvre:**

**LODYC (CNRS-ORSTOM-UPMC)**  
**LPO (CNRS-IFREMER-UBO)**  
**IIM/Vigo**  
**LMCE (CEA)**  
**BPNL/Sequim**

**Rapport Interne LPO (96-02)**



## Résumé

De janvier à mars 1994 s'est déroulée la campagne CITHER 2 du programme WOCE-France, dans le but d'étudier les écoulements le long du bord ouest de l'océan Atlantique Sud. Les paramètres hydrologiques et géochimiques requis par le Programme Hydrologique de WOCE (WHP) ont été mesurés de la surface au fond, à 235 stations situées le long d'une radiale quasi-méridienne allant de 52°S à 10°N à environ 600 km du talus continental et, transversalement à cette radiale, le long de trois segments reliant le talus continental à environ 35°S, 13°S et 10°N. Ce rapport, qui est le troisième volume de la série des recueils de données CITHER 2, présente les mesures des paramètres géochimiques mesurés sur prélèvements d'eau (salinité, oxygène dissous, sels nutritifs, chlorofluorométhanes, paramètres du système carbonique). Les mesures des autres paramètres (paramètres "en route" et paramètres de la bathysonde) seront trouvés dans les deux autres volumes. Le volume 1 décrit également les objectifs du programme CITHER et de ses trois campagnes.

## Summary

From January to March 1994 the cruise CITHER 2 from the WOCE-France programme took place with the purpose of estimating and analyzing the oceanic volume transports in and out of the western boundary layer of the South Atlantic Ocean. The hydrologic and geochemical parameters of the WOCE Hydrographic Programme (WHP) were measured at 235 top to bottom stations along a quasi-meridional line from 52°S to 10°N at about 600 km from the continental slope and, perpendicular to this line, along three segments joining the continental slope at about 35°S, 13°S and 10°N. This report, which constitutes volume 3 of the CITHER 2 data report, presents the geo-chemical parameters measured from the water samples (salinity, dissolved oxygen, nutrients, freons, parameters of the carbonic system). The other parameters (underway and CTD<sub>O2</sub> parameters) may be found in the two other volumes. Volume 1 also describes the general objectives of the CITHER programme and its three cruises.





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## I - LE GROUPE CITHER 2

Le programme CITHER est l'une des contributions Françaises du programme international WOCE (World Ocean Circulation Experiment). Son objectif est de réaliser cinq radiales d'hydrologie/géochimie légère du réseau WHP (Woce Hydrographic Programme) dans l'Atlantique Sud, et d'en analyser les résultats, indépendamment, puis en association avec les données recueillies par d'autres pays.

L'objet de la campagne CITHER 2 (Figure I-1) était de réaliser la radiale A17 du WHP, le long du continent Sud-Américain entre 52°S et 10°N, à une distance nominale du talus continental voisine de 600km. Des radiales transverses ont également été réalisées jusqu'au talus continental, aux latitudes nominales 35°S, 13°S et 10°N. Cette campagne, qui s'est déroulée sur le Navire Océanographique Maurice Ewing (en raison d'un échange de temps de navires entre la France et les États-Unis), a bénéficié d'une coopération étroite entre plusieurs laboratoires. La coordination en a été assurée par Laurent Mémery (CNRS/LODYC\*), également Chef de Mission des deux parties de la campagne. Aux plans technique et scientifique, les mesures des divers paramètres étaient sous la responsabilité des chercheurs dont les noms sont indiqués dans le tableau I-1 ci-dessous.

	1ère partie Montévidéo → Salvador de Bahia	2ème partie Salvador de Bahia → Cayenne
Mesures d'hydrologie (bathysonde et prélèvements)	Michel Arhan (LPO/IFREMER*)	Herlé Mercier (LPO/CNRS*)
Analyses des sels nutritifs	Xosé Alvarez Salgado (IIM*/Vigo)	Xosé Alvarez Salgado (IIM*/Vigo)
Analyses des chlorofluorométhanés	Laurent Mémery (CNRS/LODYC)	Laurent Mémery (CNRS/LODYC)
Prélèvements Hélium 3/Tritium	Jean-Claude Dutay (LMCE*/Saclay)	Olivier Marti (LMCE*/Saclay)
CO2 Total	Linda Bingler (BPNL*/Sequim)	Linda Bingler (BPNL*/Sequim)
pH Alcalinité	Aida Fernández Ríos (IIM*/Vigo)	Aida Fernández Ríos (IIM*/Vigo)

**Tableau I-1** : Chercheurs du groupe CITHER 2 responsables des divers types de mesures.

La campagne CITHER 2 a été financée par l'IFREMER\* et le CNRS\* à travers le Programme National d'Études de la Dynamique du Climat (PNEDC\*). L'IIM\* de Vigo (Espagne), le Centre d'Études Nucléaires de Saclay et le BPNL\*/Sequim (USA). Nous remercions aussi les Commandants et l'équipage du Navire Océanographique MAURICE EWING pour leur concours précieux au cours de cette campagne.

\* : La signification des acronymes utilisés dans le texte est indiquée dans la partie II du rapport.

CAMPAGNE CITHER 2 – Janvier / Mars 1994

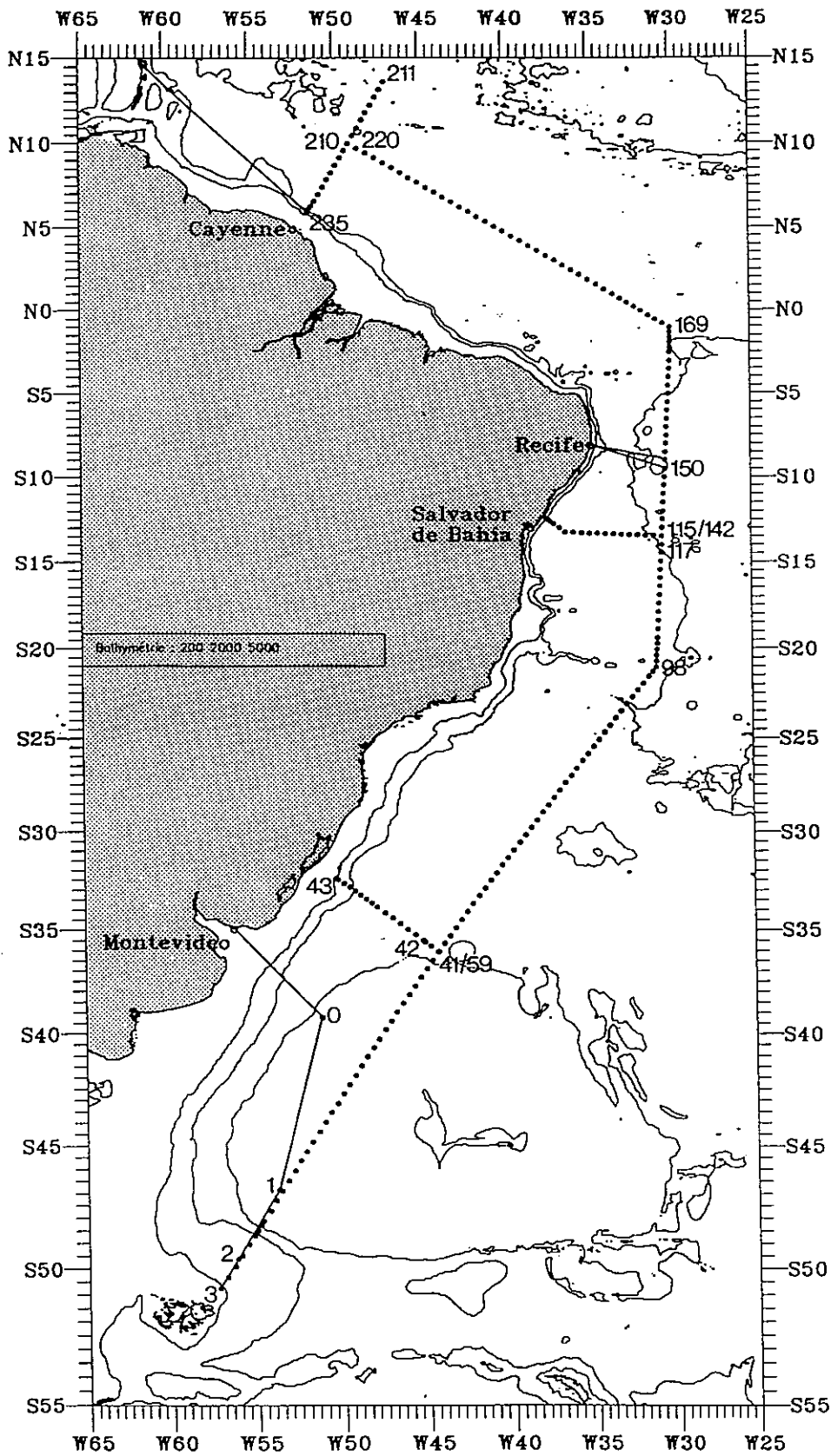


Figure I-1 : Carte des stations d'hydrologie et géochimie légère réalisées pendant la campagne CITHER 2.

## II - CONTRIBUTIONS À L'ACQUISITION DES DONNÉES GÉOCHIMIQUES ET À LA RÉDACTION DE CE RAPPORT

Ce troisième volume du recueil de données de CITHER 2 est consacré aux paramètres hydrologiques (salinité et oxygène) et aux traceurs géochimiques (sels nutritifs, chlorofluorométhanes, paramètres du système carbonique) mesurés sur les prélèvements à la rosette. Le premier volume contient une présentation d'ensemble de la campagne et les résultats des mesures "en route" des paramètres météorologiques, de la bathymétrie, et du courant par courantométrie Doppler de coque. Le deuxième volume présente les mesures de la sonde CTD-O2.

Les noms et affiliations des scientifiques embarqués ayant contribué à l'acquisition des données du volume 3 au cours de la campagne ou à leur traitement (calibration, validation) à terre à l'issue de la campagne, sont listés dans le tableau II-1 ci-dessous.

Prénom	Nom	Contribution	Laboratoire	Partie de la campagne
Xosé	Alvarez Salgado	Sels Nutritifs	IIM/Vigo	1 2
Linda	Arlen	TCO2	NOAA/JNMFS	1 2
Linda	Bingler	TCO2	BPNL	1 2
Sadri	Chihaoui	Fréons	LODYC	1 2
Aïda	Fernández Ríos	Alcalinité, pH	IIM/Vigo	1 2
Carmen	González Castro	Sels Nutritifs	IIM/Vigo	1 2
Jean-Pierre	Gouillou	Élect. Rosette	LPO	1 2
Laurent	Mémery	Fréons	LODYC	1 2
Marie-José	Messias	Fréons	LODYC	1 2
Gabriel	Rosón Porto	Alcalinité, pH	IIM/Vigo	1 2
Pierre	Branellec	S, O2	LPO	1
Emmanuelle	Chartier	O2	LPO	1
Jean-Claude	Dutay	Tritium, S	LPO	1
Philippe	Le Bot	S	LPO	1
André	Billant	S, O2	LPO	2
Elisabete	Braga	O2	USP	2
Marina	Levy	Fréons	LODYC	2
Olivier	Marty	Tritium, S	LMCE	2
Jesús	Pedreira	S	LPO	2

Tableau II-1

Les significations des acronymes utilisés dans le tableau sont indiqués ci-après.

CITHER : Circulation THERmohaline  
ORSTOM : Institut Français de Recherche Scientifique pour le Développement en Coopération  
IFREMER : Institut Français de Recherche pour l'Exploitation de la Mer  
CNRS : Centre National de la Recherche Scientifique  
PNEDC : Programme National d'Étude de la Dynamique du Climat  
SISMER : Service d'Information Scientifique pour la Mer  
LPO : Laboratoire de Physique des Océans  
LODYC : Laboratoire d'Océanographie Dynamique et de Climatologie  
UBO : Université de Bretagne Occidentale  
IIM/Vigo : Instituto de Investigaciones Marinas de Vigo (Espagne)  
LMCE : Laboratoire de Modélisation du Climat et de l'Environnement  
BPNL/Sequim : Battelle Pacific Northwest Laboratories/Sequim (USA)  
CEA : Commissariat à l'Énergie Atomique  
USP : Universidade de Sao Paulo (Brésil)

Des copies de ce rapport, ainsi que des volumes 1 et 2, peuvent être obtenues auprès de :

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### **III - MESURES DE SALINITE ET OXYGENE DISSOUS**

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Laboratoire de Physique des Océans (IFREMER-Brest)

De manière générale, à chaque station, les 32 bouteilles de la rosette de prélèvement sont fermées au cours de la remontée de la sonde après arrêt au niveau du prélèvement. Ces niveaux sont choisis de manière à être séparés au maximum de 300 mètres. Dans la mesure du possible, deux bouteilles étaient fermées au même niveau à chaque station. Les figures III-1 et III-2 présentent une vue synoptique des niveaux prélevés pendant la campagne CITHER 2.

#### **1 - SALINITE**

##### **1.1 - Précautions de prélèvement**

Les échantillons sont recueillis dans des flacons de 125 ml dont l'étanchéité est assurée par un joint de caoutchouc. Trois rinçages des flacons sont effectués. Dès que les 32 bouteilles de la station sont prélevées, le col des flacons est rincé à l'eau douce pour éviter la formation de cristaux de sel sur l'extérieur du joint après évaporation pendant la durée du stockage. Les échantillons sont entreposés dans le conteneur-laboratoire dont la température est contrôlée et fixée à  $20^{\circ} \pm 1^{\circ}\text{C}$  puis analysés dans un délai de 20 à 30 heures après leur prélèvement.

##### **1.2 - Analyse des échantillons**

La salinité des échantillons est déterminée d'après l'équation PSS 78 (UNESCO, 1981). Le salinomètre, de type Guildline, est standardisé comparativement à des ampoules d'eau normale du lot P123 ( $K_{15} = 0.99994$ ) fabriquées à Wormley le 10 juin 1993. Les 6778 échantillons de la campagne ont été analysés par un salinomètre PORTASAL. La température du bain thermostaté est fixée à une température supérieure à celle du laboratoire afin d'avoir les meilleures conditions pour l'analyse des échantillons. Cette température était de  $21^{\circ}\text{C}$  jusqu'à la station 134 puis, en raison de l'élévation de la température atmosphérique, de  $22^{\circ}\text{C}$  de la station 135 jusqu'à la fin de la campagne. Le salinomètre est équipé d'une pompe péristatique pour accélérer le passage de l'eau des échantillons dans la cellule de mesure.

###### *1.2.1 - Mode opératoire pour la standardisation du salinomètre*

Initialement le salinomètre est standardisé en utilisant au moins deux ampoules d'eau normale. Ensuite, tous les jours, avant de commencer la série d'analyses, la standardisation est vérifiée puis ajustée si la valeur de la salinité de l'ampoule d'eau standard affichée,

s'écarter de plus de 0.0010 de celle de la veille. Deux ampoules, au moins, sont utilisées dans le cas où il est nécessaire de refaire la standardisation.

Au cours de la journée, après l'analyse des échantillons de chaque station, la stabilité du salinomètre est contrôlée en vérifiant la standardisation avec une nouvelle ampoule d'eau normale. La nouvelle valeur lue est notée sur la fiche d'analyse de la station. En cas de dérive du salinomètre, les valeurs de salinité notées lors de l'analyse des échantillons sont corrigées en admettant une dérive linéaire.

### *1.2.2 - Mode opératoire pour l'analyse des échantillons*

L'opération de remplissage de la cellule de mesure du salinomètre avec l'eau de l'échantillon, puis vidage, est répétée trois fois avant de faire une première lecture. Après une nouvelle évacuation et remplissage de la cellule, une deuxième lecture est effectuée. Si l'écart de salinité entre ces deux lectures est supérieur à 0.0003, une troisième lecture est nécessaire.

La mesure retenue est la moyenne de ces deux ou trois lectures.

Après l'analyse de tous les échantillons de la station et contrôle de la stabilité du salinomètre, cette mesure est corrigée de la dérive si nécessaire pour donner la salinité de l'échantillon.

### *1.2.3 - Déroulement des séries d'analyse pendant la campagne*

Le même salinomètre PORTASAL a été utilisé pendant toute la campagne. La stabilité a été remarquable : il a suffi d'ajuster la standardisation à deux ou trois reprises au cours de chacune des deux parties. La dérive maximum observée après une journée d'analyses était de 0.0010 en salinité. Le plus souvent, le contrôle de standardisation du matin montrait que l'appareil avait retrouvé son niveau de la veille avant la série d'analyses journalières.

## **1.3 - Répétabilité des mesures**

La répétabilité des prélèvements et analyses a été vérifiée à 6 stations en cours de campagne en fermant un grand nombre de bouteilles au même niveau. Les mesures de salinité faites sur les échantillons prélevés dans chacune des bouteilles donnent les résultats suivants :

STATION	1	2	42	116	117	211
Niveau de fermeture des bouteilles	2990	505	2900	3000	2990	3000
Nombre de bouteilles	10	21	32	32	31	32
Valeur moyenne de la salinité	34.7605	34.1824	34.8793	34.9090	34.9132	34.9295
Ecart maximum à la moyenne	0.001	0.002	0.003	0.004	0.002	0.003
Ecart-type	0.0006	0.0010	0.0010	0.0013	0.0013	0.0016



On peut en déduire que la répétabilité des mesures de salinité est systématiquement inférieure à 0.002.

Des doublets ont été réalisés pendant toute la campagne en fermant deux bouteilles au même niveau. Les écarts obtenus à chacun de ces doublets sont présentés sur la figure III-3 qui montre qu'ils ont été réalisés à une grande majorité de stations et à tous les niveaux de prélèvement entre le fond et la surface : l'écart maximum observé est de 0.0090. La figure III-4 représente l'histogramme des écarts pour les 181 doublets considérés. Le pourcentage par classe est identique en considérant, d'une part, la totalité des doublets et, d'autre part, ceux réalisés à une pression supérieure à 980 dbars : 41 % des écarts sont inférieurs à 0.0010 et 83 % inférieurs à 0.0030. **L'écart-type obtenu pour ces 181 doublets est de 0.0022.**

## **2 - OXYGENE DISSOUS**

### **2.1 - Technique d'échantillonnage**

Les échantillons sont recueillis dans des flacons à bouchon plongeur de 120 ml. Après remplissage du flacon, une prise de température est effectuée avant de laisser déborder 3 fois l'équivalent de volume.

Après addition successive de 1 ml de chaque réactif de fixation, puis bouchage, l'agitation est pratiquée pendant 30 secondes. Lorsque les 32 bouteilles ont été prélevées, les flacons sont retournés un à un pour remise en suspension du précipité, puis entreposés dans le conteneur laboratoire à la température de  $20 \pm 1^\circ\text{C}$ . Les analyses sont effectuées dans un délai de 4 à 24 heures.

### **2.2 - Analyse des échantillons**

#### *2.2.1 - Mode opératoire*

Les conditions opératoires et la méthode d'analyse mise au point au L.P.O. (Laboratoire de Physique des Océans) sont conformes aux recommandations WOCE (Operations Manual, 1991).

Les 6756 échantillons prélevés pendant la campagne ont été analysés dans le conteneur-laboratoire dont la température est contrôlée et fixée à  $20 \pm 1^\circ\text{C}$ .

La totalité de l'échantillon est acidifiée dans le flacon de prélèvement et l'iode libéré est dosé par une solution de thiosulfate de sodium dont la normalité est de l'ordre de 0.02 N. Une burette à piston délivre le thiosulfate. Elle est pilotée par un titroprocesseur Methrom associé à une électrode de platine qui contrôle le potentiel de la réaction chimique. La vitesse d'injection du thiosulfate est maximale jusqu'à détection du début de saut de potentiel, puis ralentie et se fait par pas de  $0.002 \text{ cm}^3$  autour de l'équivalence. La stabilisation du potentiel, après dépassement de l'équivalence, provoque l'arrêt d'injection du thiosulfate et le titroprocesseur détermine automatiquement le point d'inflexion sur la courbe de potentiel et le volume de thiosulfate associé. La valeur d'oxygène est calculée, et automatiquement

imprimée, à partir des informations mémorisées dans le titroprocesseur et du volume du flacon introduit avant de démarrer le dosage.

La méthode de dosage présente une très bonne répétabilité des résultats car entièrement automatisée. La qualité des mesures en valeur absolue est néanmoins très dépendante des précautions dans le prélèvement des échantillons et des vérifications de volumétrie et de concentration des réactifs. Le paragraphe suivant précise les contrôles et vérifications qui ont entouré les mesures d'oxygène effectuées lors de la campagne.

### 2.2.2 - Précautions particulières

#### 2.2.2.1. Volumétrie

La verrerie utilisée (flacons de prélèvement, dispensettes pour les réactifs, pipette automatique, ...) est calibrée suivant le principe de la double pesée et les indications de la balance vérifiées puis corrigées par comparaison avec deux séries de poids étalons. Toutes les corrections recommandées par WOCE (température, poussée de l'air, ...) ont été appliquées aux pesées.

- Le volume des flacons de prélèvements est déterminé à  $\pm 0.003 \text{ cm}^3$  en répétant trois fois l'opération de double pesée. Le volume moyen des flacons utilisés est de  $120 \pm 2 \text{ cm}^3$ .

- Le volume des 2 dispensettes (introduction des réactifs de fixation dans les prélèvements) est déterminé à  $1.000 \pm 0.003 \text{ cm}^3$  et  $0.997 \pm 0.003 \text{ cm}^3$ .

- Le volume de la pipette automatique (prise d'essai d'iodate de potassium pour détermination de la normalité du thiosulfate de sodium) est :  $5.0087 \pm 0.0004 \text{ cm}^3$ .

- L'indication de volume de la burette à piston qui délivre le thiosulfate de sodium pour le dosage a été vérifiée en 3 points dans la gamme utile comprise entre 2 et 8  $\text{cm}^3$ . L'indication de la burette sous-estime le volume réel de  $0.004 \pm 0.0005 \text{ cm}^3$ . La résolution de l'affichage étant de  $0.001 \text{ cm}^3$ , la correction de volume de thiosulfate est prise en compte dans les calculs.

#### 2.2.2.2 - Concentration des réactifs

- La concentration des réactifs de fixation de l'oxygène est celle indiquée par Carpenter (1965). Ils sont préparés avec des produits de pureté garantie "pour analyse".

- La solution d'iodate de potassium qui sert de référence pour les mesures est préparée à partir d'une pesée de cristaux dont le degré de pureté (99.983 %) est garanti par un certificat d'analyse du fournisseur. La dissolution de 3.56675 g de  $\text{KIO}_3$  dans une fiole jaugée de 5000  $\text{cm}^3$  fournit une solution référence dont la normalité est de  $0.019993 \pm 0.000005 \text{ N}$ . L'incertitude admise dans la valeur de la normalité provient, d'une part, de la correction de pesée (décalage de 0.02 mg d'après les poids étalons) et, d'autre part, de l'incertitude sur le volume de la fiole jaugée indiquée par le fournisseur (1.2  $\text{cm}^3$ ). Cette solution référence,

divisée en 5 parties, est conservée en flacons étanches en attente d'utilisation pendant la campagne.

### 2.2.2.3. Contrôles des réactifs pendant la campagne

#### a) Détermination du blanc d'analyse

Quotidiennement, avant la série d'analyses des échantillons et à chaque changement de réactifs, trois dosages successifs permettent de déterminer le blanc des réactifs en mélangeant 1 cm<sup>3</sup> de chacun des trois réactifs à 100 cm<sup>3</sup> d'eau distillée. La valeur moyenne du blanc obtenu pendant la campagne est de 0.018 ml : il a été tenu compte de la "valeur journalière" dans le calcul du taux d'oxygène.

#### b) Détermination de la normalité du thiosulfate

Deux solutions de 25 litres de thiosulfate ont été préparées au début de chacune des deux parties de la campagne : la préparation donne une normalité de l'ordre de 0.02 N. Un litre de cette solution mère est extrait quotidiennement pour les analyses du jour. La normalité du thiosulfate est obtenue par dosage de cinq prises d'essai (5.0087 cm<sup>3</sup>) d'iodate de potassium référence. La moyenne de ces cinq dosages permet de déterminer la "valeur journalière" de la normalité si l'écart-type est jugé acceptable. Dans le cas contraire, une nouvelle série est effectuée. Le suivi quotidien de l'évolution de la normalité du thiosulfate permet de détecter toute anomalie et de procéder à toutes les vérifications avant d'admettre cette valeur applicable aux analyses du jour.

Le contrôle journalier a permis de constater que la normalité a varié entre 0.019944 N et 0.019896 N pour la première préparation puis entre 0.020058 et 0.019936 N pour la seconde. Ceci indique que la normalité du thiosulfate a évolué en 40 jours de 0.3 % de sa valeur au cours de la première partie de la campagne et de 0.6 % au cours de la seconde partie.

### 2.2.3 - Détermination du taux d'oxygène dans les échantillons

Les dosages sont effectués à la température de 20°C ce qui permet de s'affranchir de la correction de température sur la volumétrie des réactifs iodate et thiosulfate. La totalité du volume prélevé étant dosée directement dans le flacon, la concentration d'oxygène est obtenue en utilisant la formule recommandée dans le document WOCE Operations Manual (1991).

$$O_2 \text{ (ml / l)} = \frac{(V_x - V_{\text{blk,dw}}) \cdot V_{I_0_3} \cdot N_{I_0_3} \cdot 5598}{(V_{\text{std}} - V_{\text{blk,dw}})} - 1000 \cdot DO_{\text{reg}}$$

$$(V_{\text{bot}} - V_{\text{reg}})$$

avec :

- $V_x$  = volume de thiosulfate pour dosage de l'échantillon (cm<sup>3</sup>)
- $V_{\text{blk,dw}}$  = volume de thiosulfate pour le blanc avec eau distillée (cm<sup>3</sup>)
- $V_{\text{std}}$  = volume de thiosulfate pour détermination de la normalité (cm<sup>3</sup>)

$V_{bot}$  = volume du flacon de prélèvement (cm<sup>3</sup>)  
 $V_{reg}$  = volume des réactifs introduits dans l'échantillon (cm<sup>3</sup>)  
 $V_{I_{10_3}}$  = volume de la prise d'essai d'iodate référence (cm<sup>3</sup>)  
 $N_{I_{10_3}}$  = normalité de l'iodate  
 $DO_{reg} = 0.0017$

Dans le cas de CITHER 2, nous avons les valeurs suivantes :

$V_{blk,dw}$  = "valeur journalière".  
 $V_{std}$  = "valeur journalière"  
 $V_{reg} = 2.000$   
 $V_{I_{10_3}} = 5.0087$   
 $N_{I_{10_3}} = 0.019993$

### 2.3 - Unités d'expression de l'oxygène

Le résultat des analyses est exprimé en millilitres par litre (ml/l) : tous les contrôles sont effectués dans cette unité.

La température des échantillons étant prise au prélèvement, la densité au moment de la fixation de l'oxygène est connue. Un calcul a permis de transformer toutes les valeurs pour les passer dans l'unité micromoles par kilogramme (μmol/kg) en utilisant la formule :

$$O_2(\mu\text{mol} / \text{kg}) = \frac{44.660 \times O_2(\text{ml} / \text{l})}{\rho_{sw}}$$

dans laquelle  $\rho_{sw}$  = densité de l'échantillon à la température du prélèvement (Millero and Poisson, 1981).

### 2.4 - Répétabilité des mesures

La répétabilité des prélèvements et analyses a été vérifiée au cours de la campagne, aux stations "test" en fermant plusieurs bouteilles au même niveau. A cinq d'entre elles, les prélèvements d'oxygène ont été effectués. Les résultats suivants ont été obtenus :

STATION	1	42	116	117	211
Niveau de fermeture des bouteilles	2990	2900	3000	2990	3000
Nombre de bouteilles prélevées	10	24	31	15	30
Valeur moyenne d'oxygène	4.622	5.414	5.681	5.692	5.765
Ecart maximum à la moyenne	0.008	0.018	0.010	0.017	0.014
Ecart-type	0.004	0.008	0.005	0.007	0.008

On peut donc considérer que les mesures de la campagne sont reproductibles à 0.010 ml/l près.

La figure III-5 montre les écarts obtenus sur les deux bouteilles fermées au même niveau : ces niveaux étaient répartis entre le fond et la surface et échantillonnaient donc toute la gamme de mesure. La figure III-6 présente les histogrammes d'écarts obtenus pour les 196 doublets considérés.

Pour l'ensemble des 196 doublets, 43 % des écarts sont inférieurs à 0.005 ml/l et 78 % sont inférieurs à 0.015 ml/l : l'écart-type est de 0.018 ml/l.

En ne considérant que les doublets effectués à une pression supérieure à 980 dbars, le pourcentage dans chaque classe est amélioré : 45 % des écarts sont inférieurs à 0.005 ml/l et 82 % sont inférieurs à 0.015 ml/l. Pour ceux-ci, l'écart-type est de 0.015 ml/l.

### **3 - VERIFICATION DES RESULTATS**

La figure III-7 présente la carte avec la position géographique des stations effectuées pendant la campagne CITHER 2. Trois couples de stations (41 et 59, 115 et 142, 210 et 220) ont été effectuées à une même position géographique. Il est intéressant de comparer les mesures répétées en ces trois sites.

Sur la figure III-8 sont reportés les diagrammes  $\theta$ -S obtenus sur chacun des trois sites : la température potentielle est déduite de la température mesurée par la sonde CTD-O<sub>2</sub> Neil-Brown au niveau du prélèvement et la salinité est celle mesurée sur l'échantillon prélevé. Une bonne répétabilité des mesures est vérifiée à ces trois points.

La figure III-9 montre, pour ces mêmes stations, les valeurs d'oxygène dissous obtenues sur les prélèvements à pression supérieure à 1500 dbars. On observe dans l'ensemble une bonne répétabilité des mesures, notamment dans le cas des stations 115 et 142 effectuées au cours de l'une et de l'autre des deux parties de la campagne avec des opérateurs différents.

Les résultats de la campagne CITHER 2 ont été confrontés à ceux obtenus au cours de la précédente campagne du LPO (CITHER 1) et ceux d'autres laboratoires (SAVE et TTO) dans les mêmes zones géographiques. Les stations extraites de ces campagnes et utilisées pour comparaison sont indiquées sur la figure III-5.

Les mesures de salinité d'une station CITHER 2 sont comparées, en utilisant le diagramme  $\theta$ -S, à celui d'une station réalisée à la position géographique proche. Trois stations de comparaison ont été choisies dans chacune des campagnes citées précédemment : les résultats sont présentés sur les figures III-10, III-11 et III-12. Ces figures montrent que, dans la plupart des cas, les diagrammes  $\theta$ -S des stations CITHER 2 se superposent correctement à ceux des stations CITHER 1, SAVE et TTO.

Les mesures d'oxygène sont comparées à celles de ces mêmes campagnes, dans leur unité de publication, en les présentant, en fonction de la pression, au niveau du prélèvement, sur les figures III-13, III-14 et III-15. Dans l'ensemble, les valeurs d'oxygène de CITHER 2 sont proches de celles de CITHER 1, SAVE et TTO : les différences observées peuvent se justifier par une variabilité de la masse d'eau.

#### **4 - REFERENCES BIBLIOGRAPHIQUES**

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Millero, F.J., and A. Poisson, 1981. International one-atmosphere equation of state of Sea Water. *Deep Sea Res.*, 28, 625-629.

UNESCO, 1981. Background papers and supporting data on the Practical Salinity Scale, 1978. *UNESCO Technical Papers in Marine Science*, n° 37, 144.

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WOCE Hydrographic Program Part 3.1.3 : *WHP Operations and Methods*. WOCE Report n°68/91. July 1991.

## Campagne CITHER 2

Répartition des prélèvements

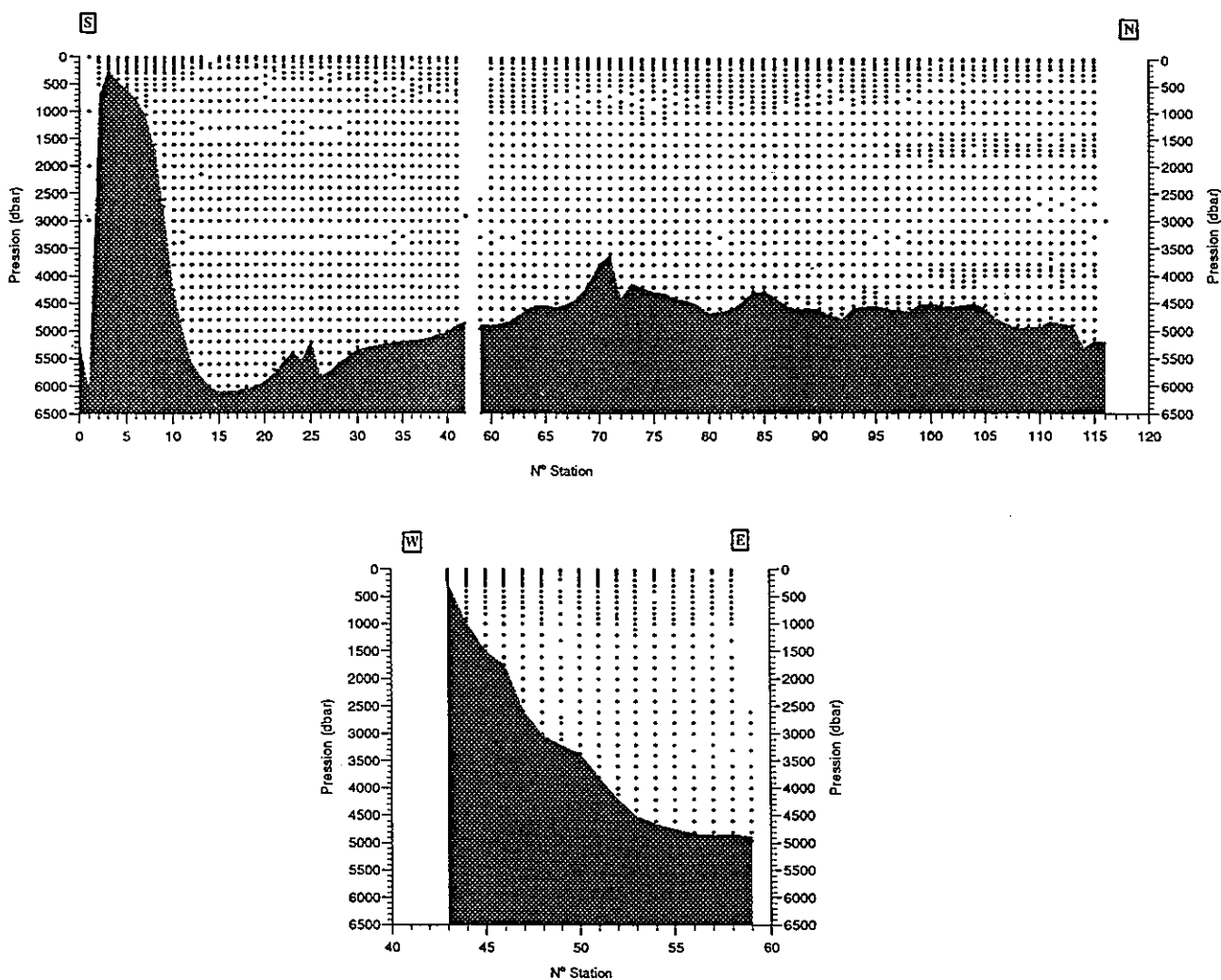


Figure III-1: Coupes synoptiques indiquant le niveau des prélèvements à chaque station de la première partie de Cither 2.

# Campagne CITHER 2

## Répartition des prélèvements

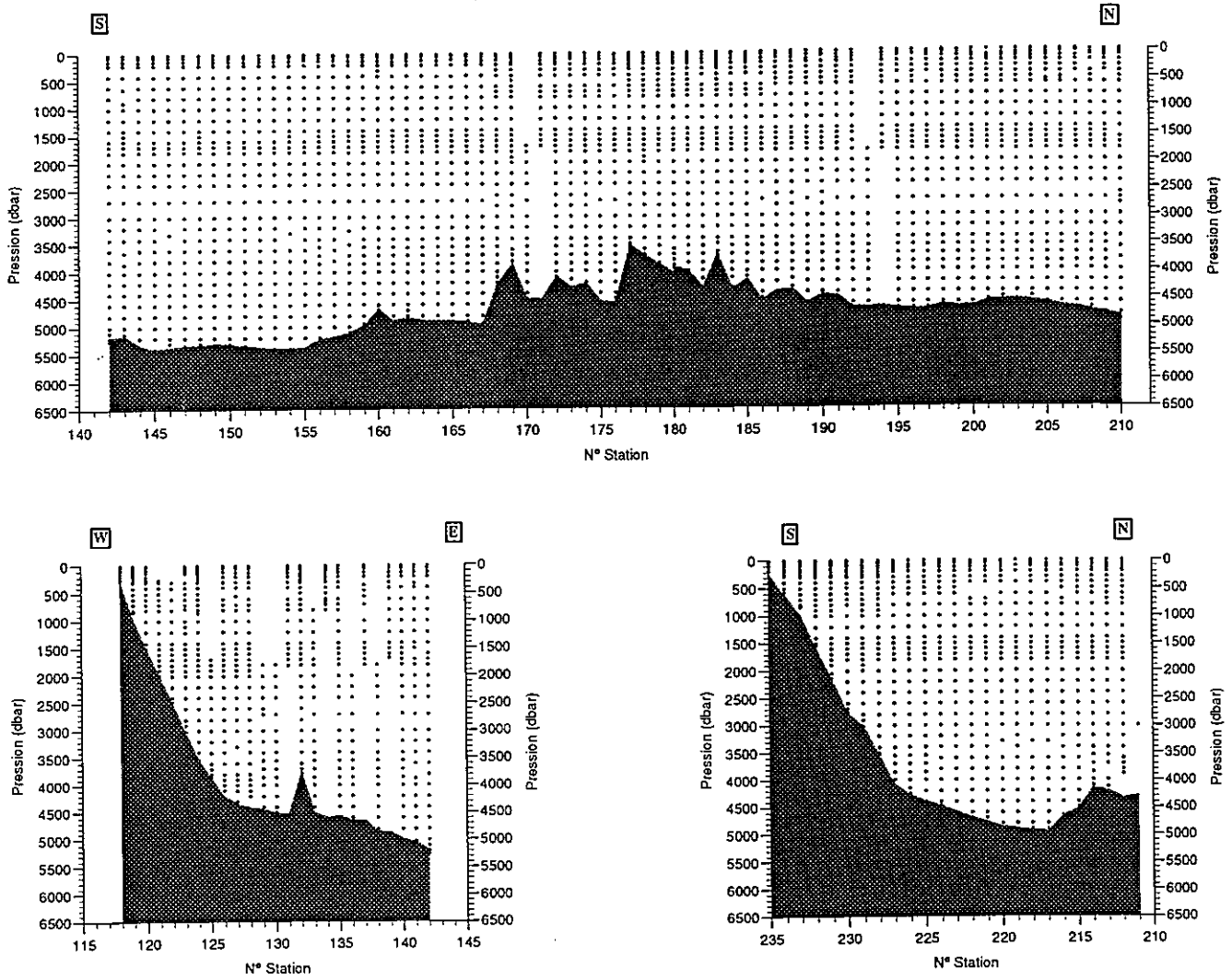
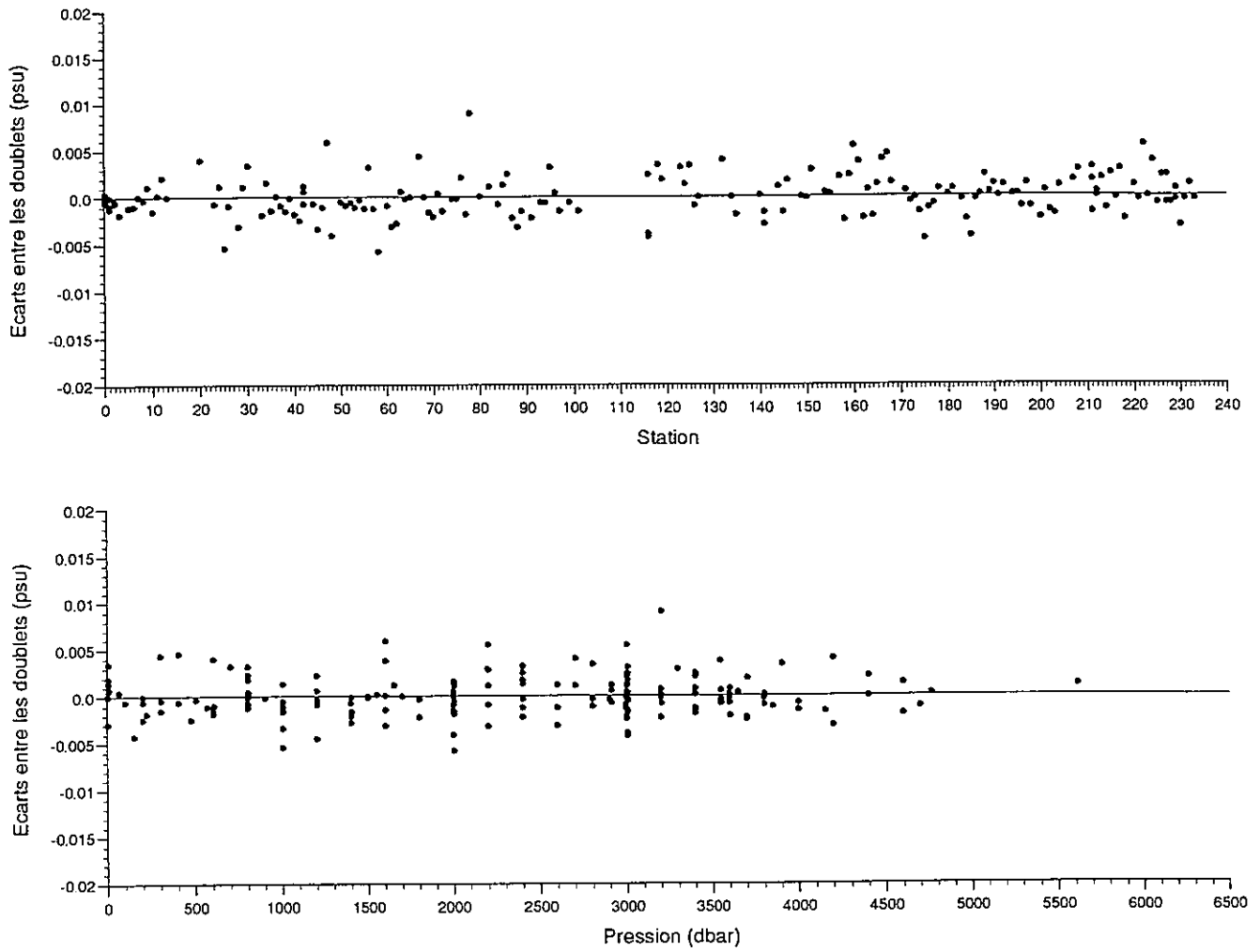


Figure III-2 : Coupes synoptiques indiquant le niveau des prélèvements à chaque station de la deuxième partie de CITHER 2.



## Campagne CITHER 2

Répartition des écarts entre les doublets pour la Salinité



**Figure III-3 :** Écarts de salinité entre deux bouteilles fermées au même niveau:  
a) en fonction du numéro de station à laquelle est réalisée le doublet,  
b) en fonction de la pression à laquelle est réalisé le doublet.

## Campagne CITHER 2

### Répartition des doublets en Salinité

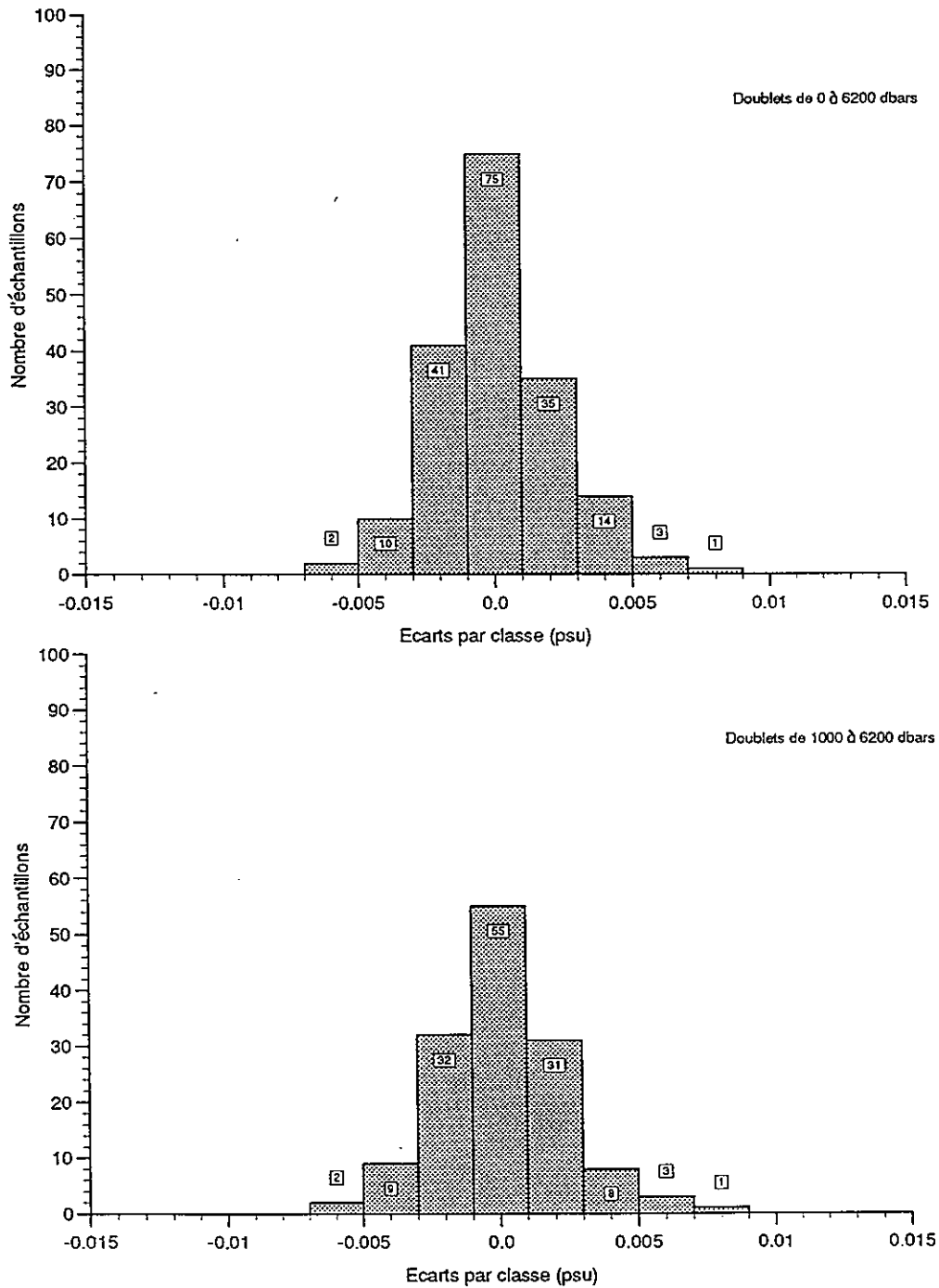


Figure III-4: Histogramme de différence de salinité entre deux bouteilles fermées au même niveau:  
a) pour l'ensemble des 181 doublets de la campagne,  
b) pour les 141 doublets réalisés à pression supérieure à 980 dbars.

## Campagne CITHER 2

Répartition des écarts entre les doublets pour l'oxygène

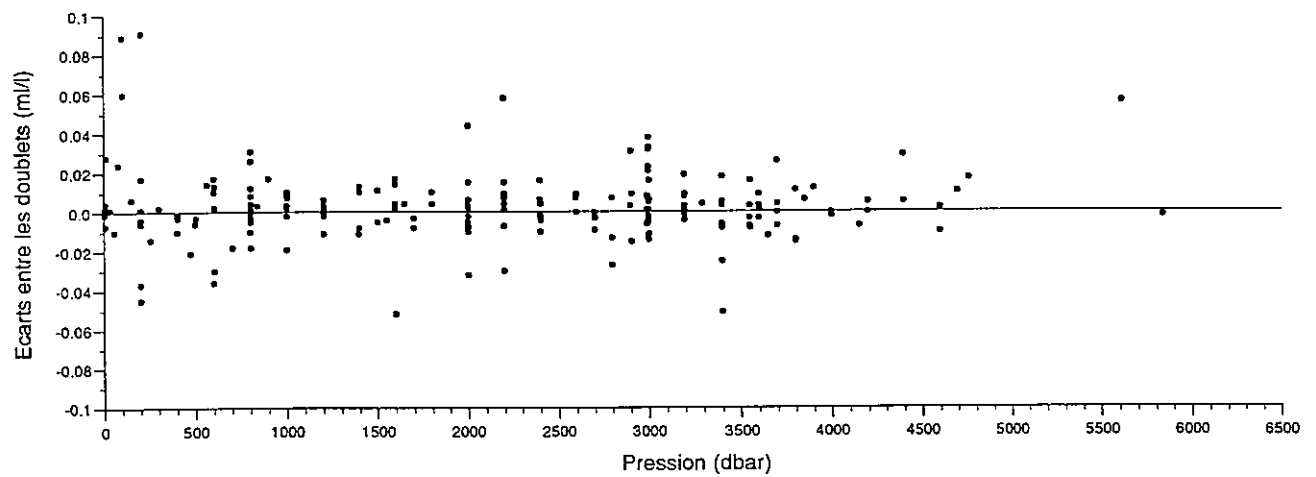
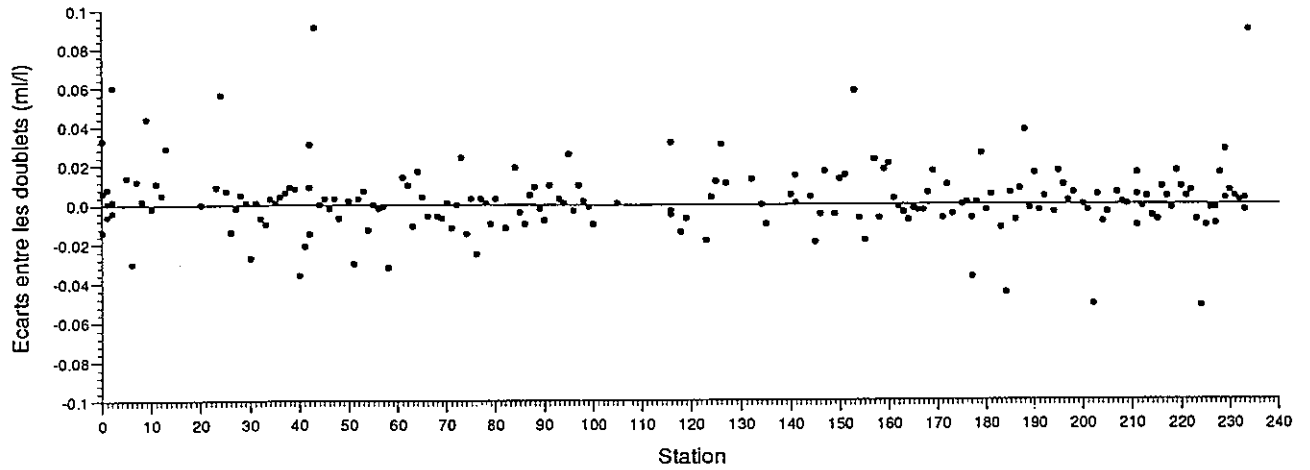


Figure III-5 : Écarts en oxygène entre deux bouteilles fermées au même niveau:  
a) en fonction du numéro de station à laquelle est réalisé le doublet,  
b) en fonction de la pression à laquelle est réalisé le doublet.

## Campagne CITHER 2

### Répartition des doublets en Oxygène

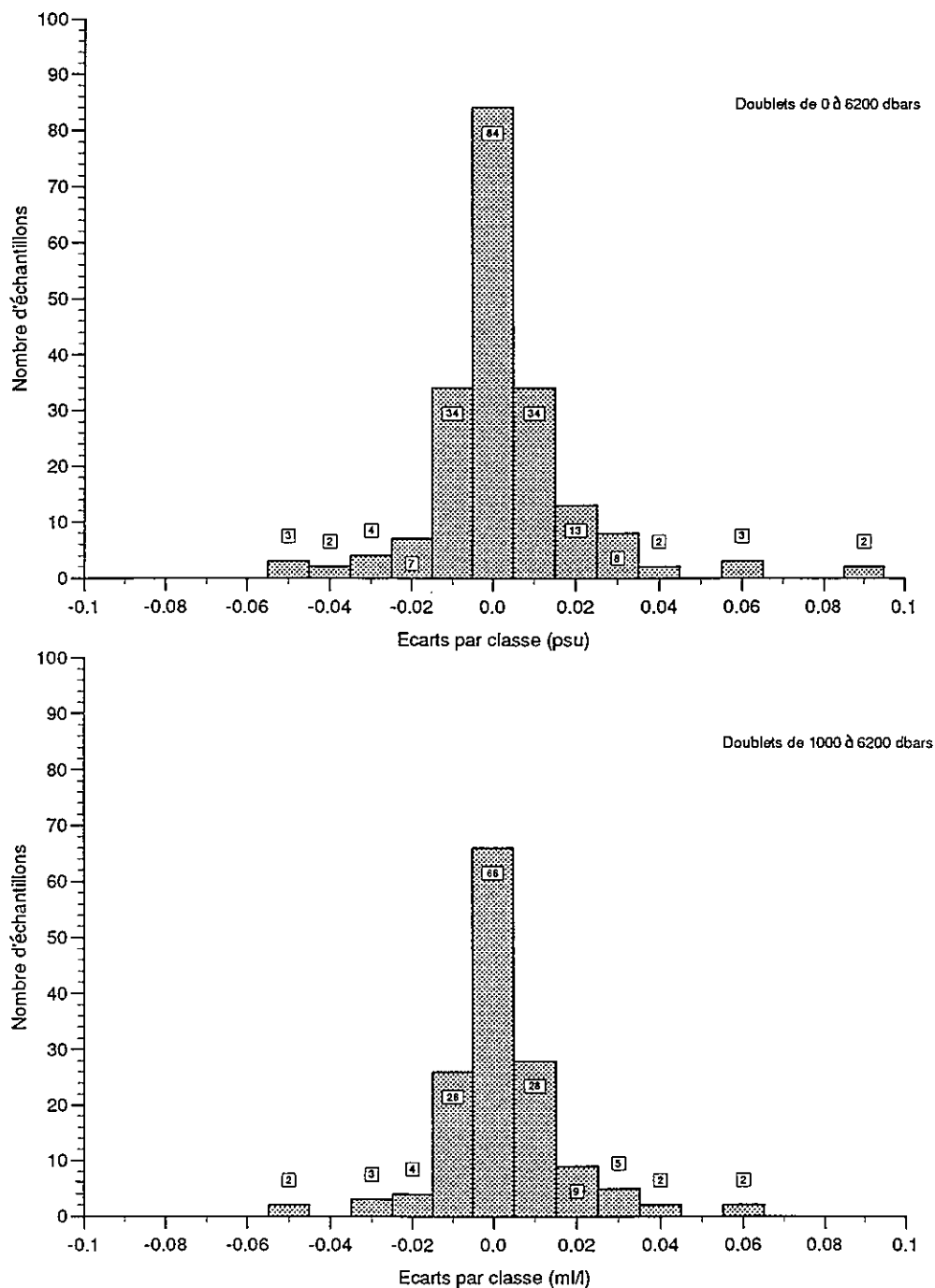


Figure III-6 : Histogramme des écarts en oxygène entre 2 bouteilles fermées au même niveau:  
a) pour les 196 doublets de la campagne,  
b) pour les 147 doublets réalisés à pression supérieure à 980 dbars.

CAMPAGNE CITHER 2 — Janvier / Mars 1994

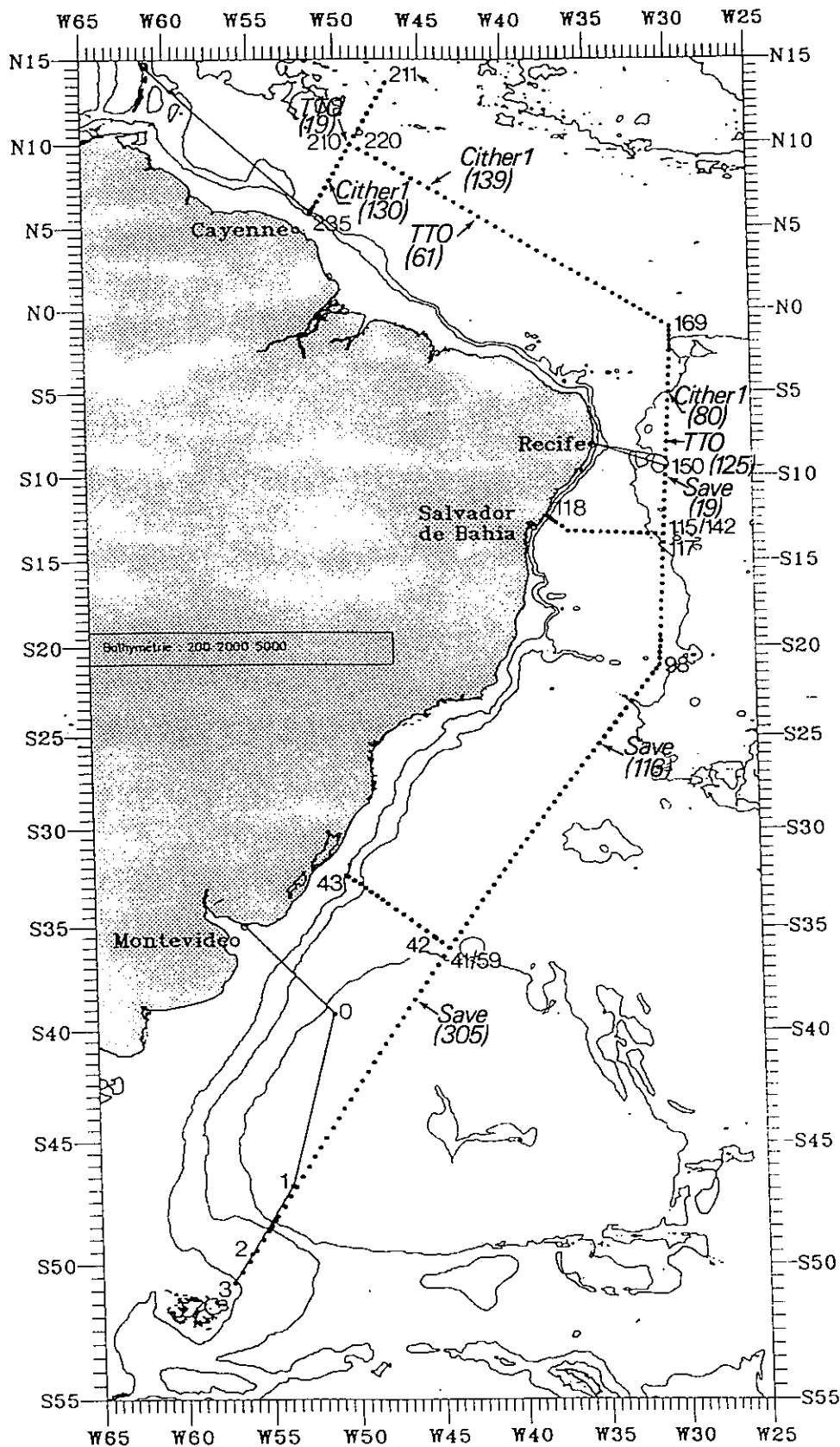


Figure III-7 : Position géographique des 235 stations de la campagne CITHER 2. Les stations 41 et 59, 115 et 142, 210 et 220 ont été réalisées à la même position géographique. La position des stations CITHER 1, SAVE ET TTO utilisées pour comparaison est indiquée.

## Diagrammes $\theta$ -S

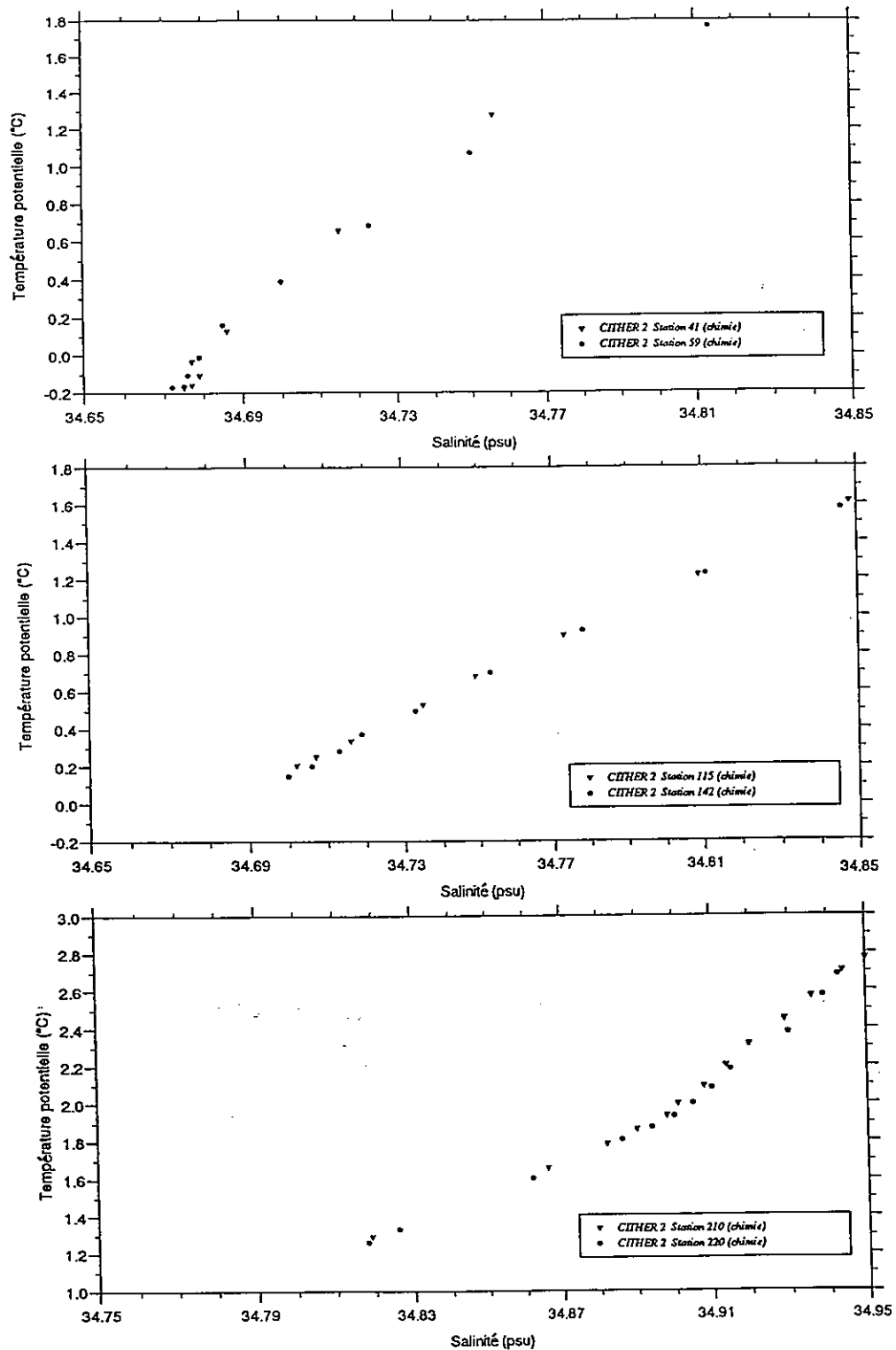


Figure III-8: Comparaison des diagrammes  $\theta$ -S à trois couples de stations de CITHER 2 réalisées à une même position géographique. La température potentielle est issue de la mesure de température de la sonde CTD au niveau du prélèvement.

## Profils d'Oxygene dissous

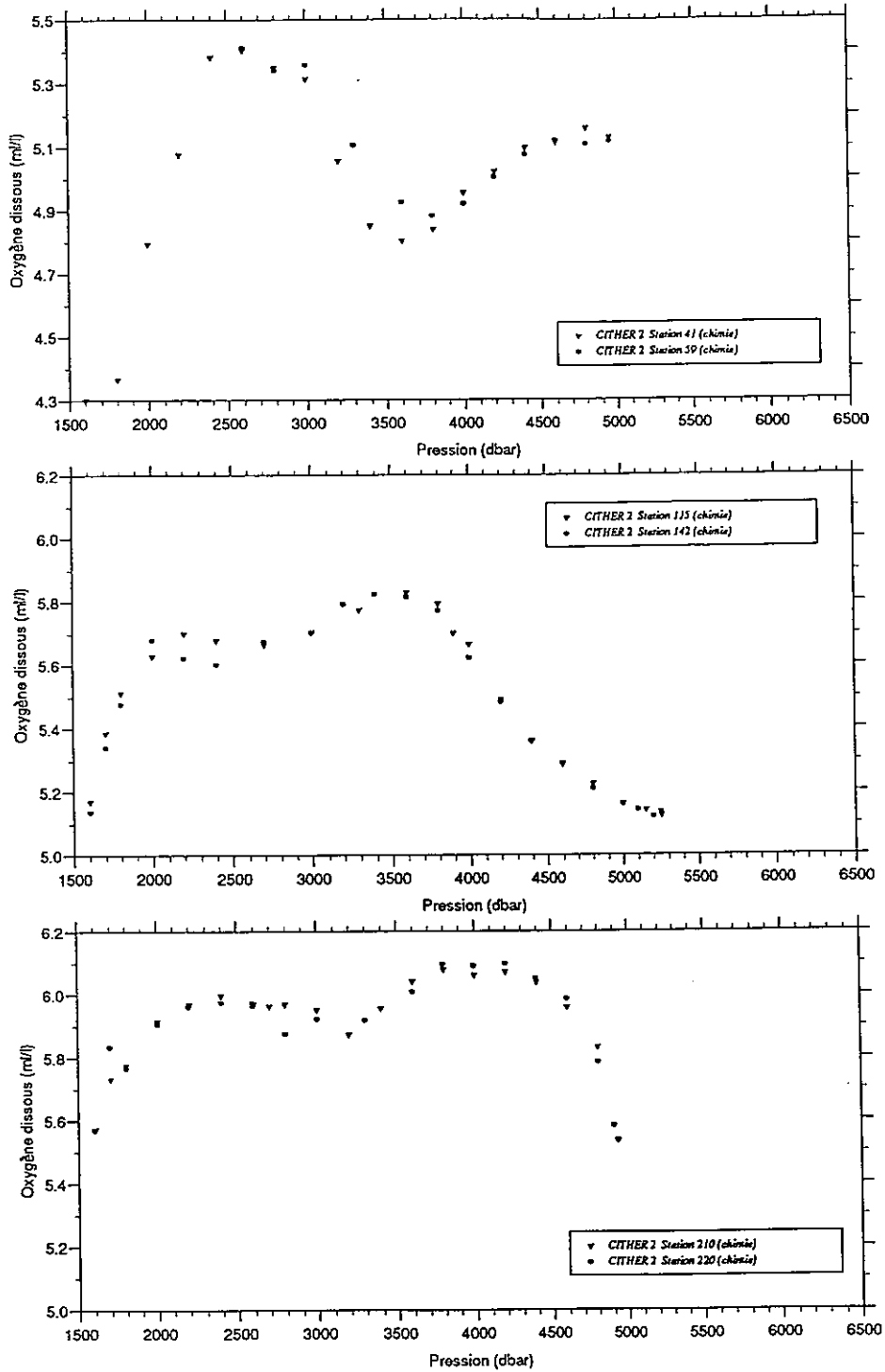


Figure III-9 : Comparaison des mesures d'oxygène obtenues à trois couples de stations de CITHER 2 réalisées à une même position géographique.

## Diagrammes $\theta$ -S

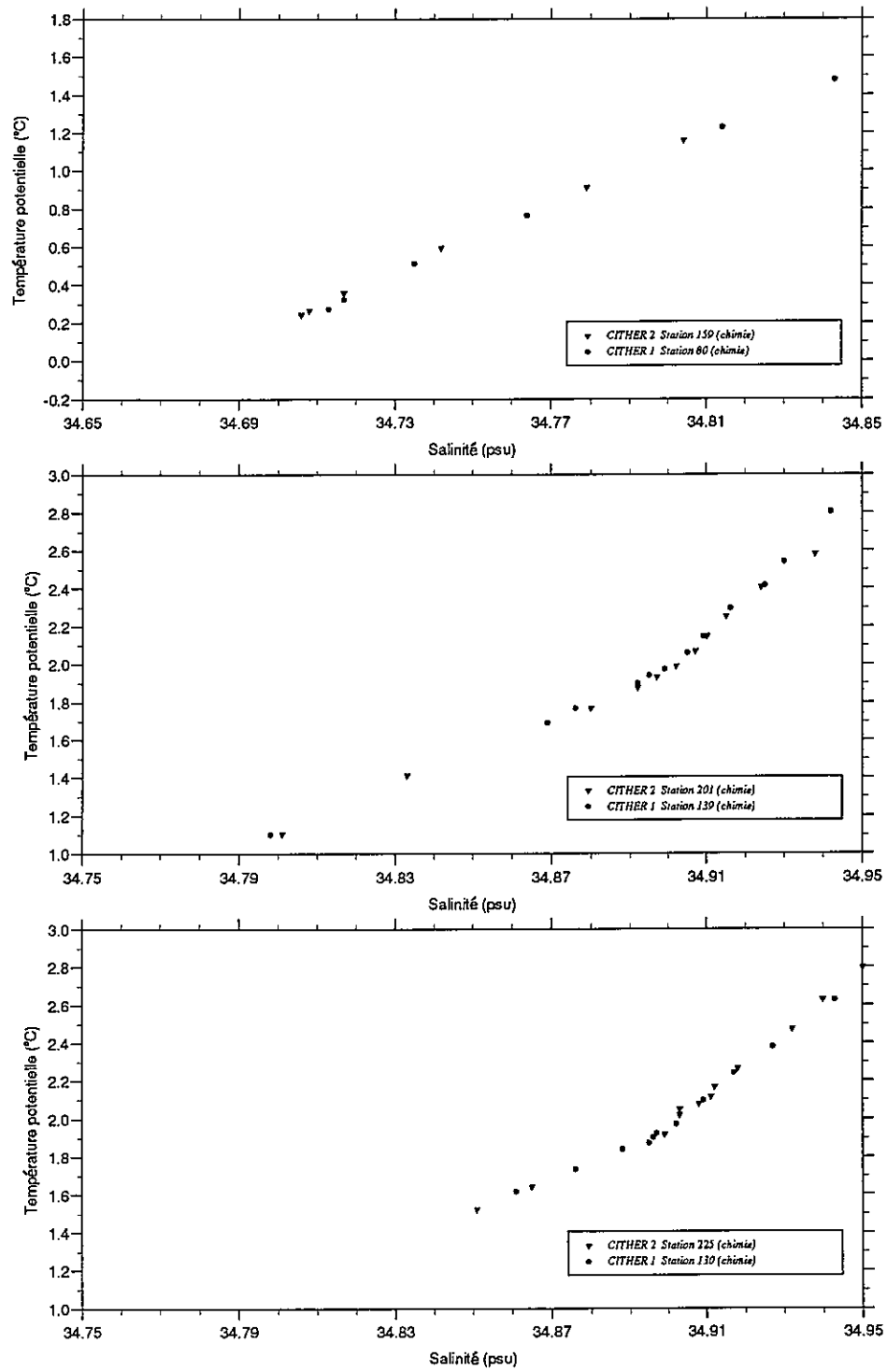


Figure III-10 : Comparaison des diagrammes  $\theta$ -S à trois stations de CITHER 2 avec ceux obtenus à CITHER 1 à la même position géographique.



## Diagrammes $\theta$ -S

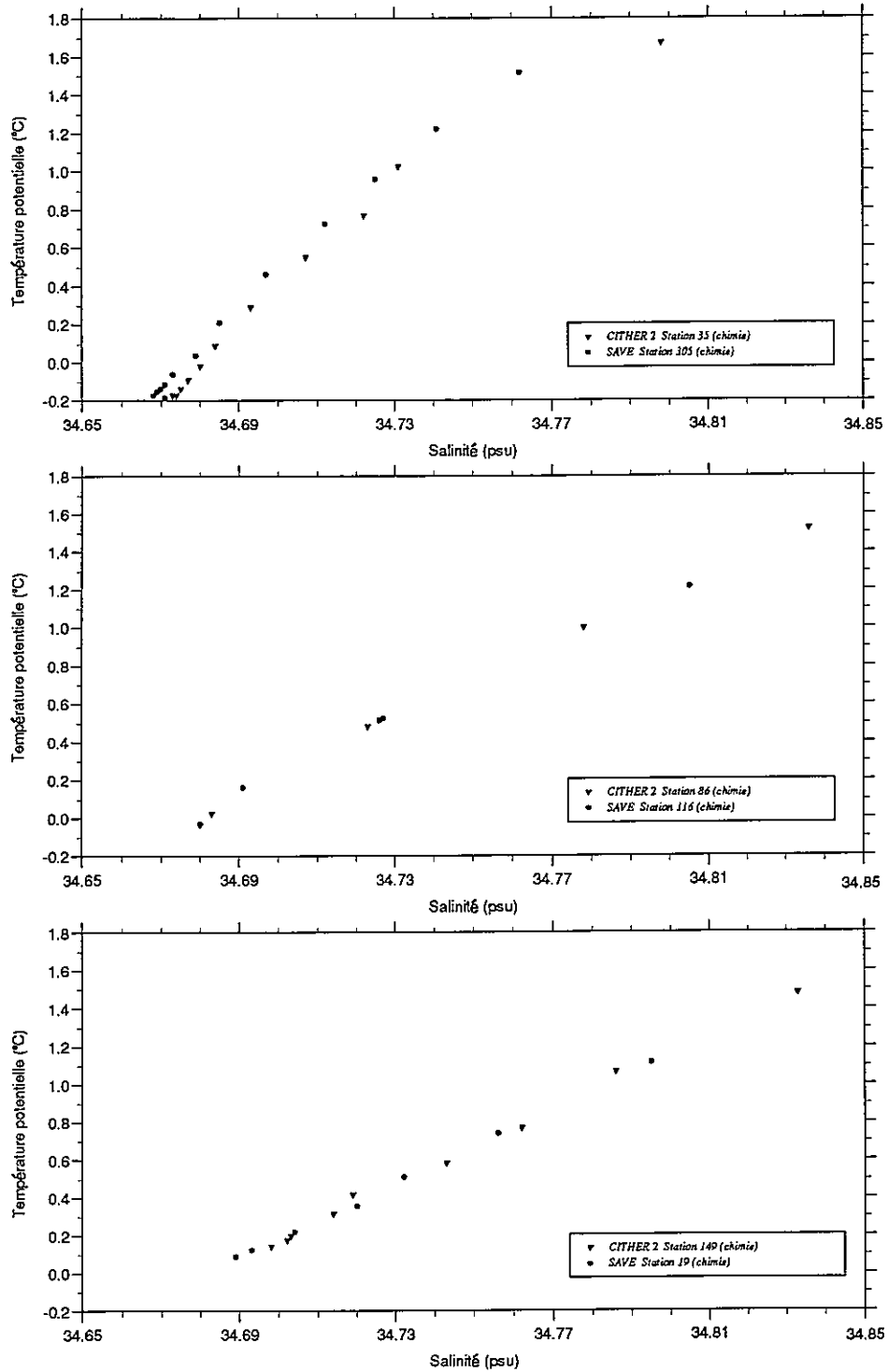


Figure III-11 : Comparaison des diagrammes  $\theta$ -S à trois stations de CITHER 2 avec ceux obtenus à SAVE à la même position géographique.

## Diagrammes $\theta$ -S

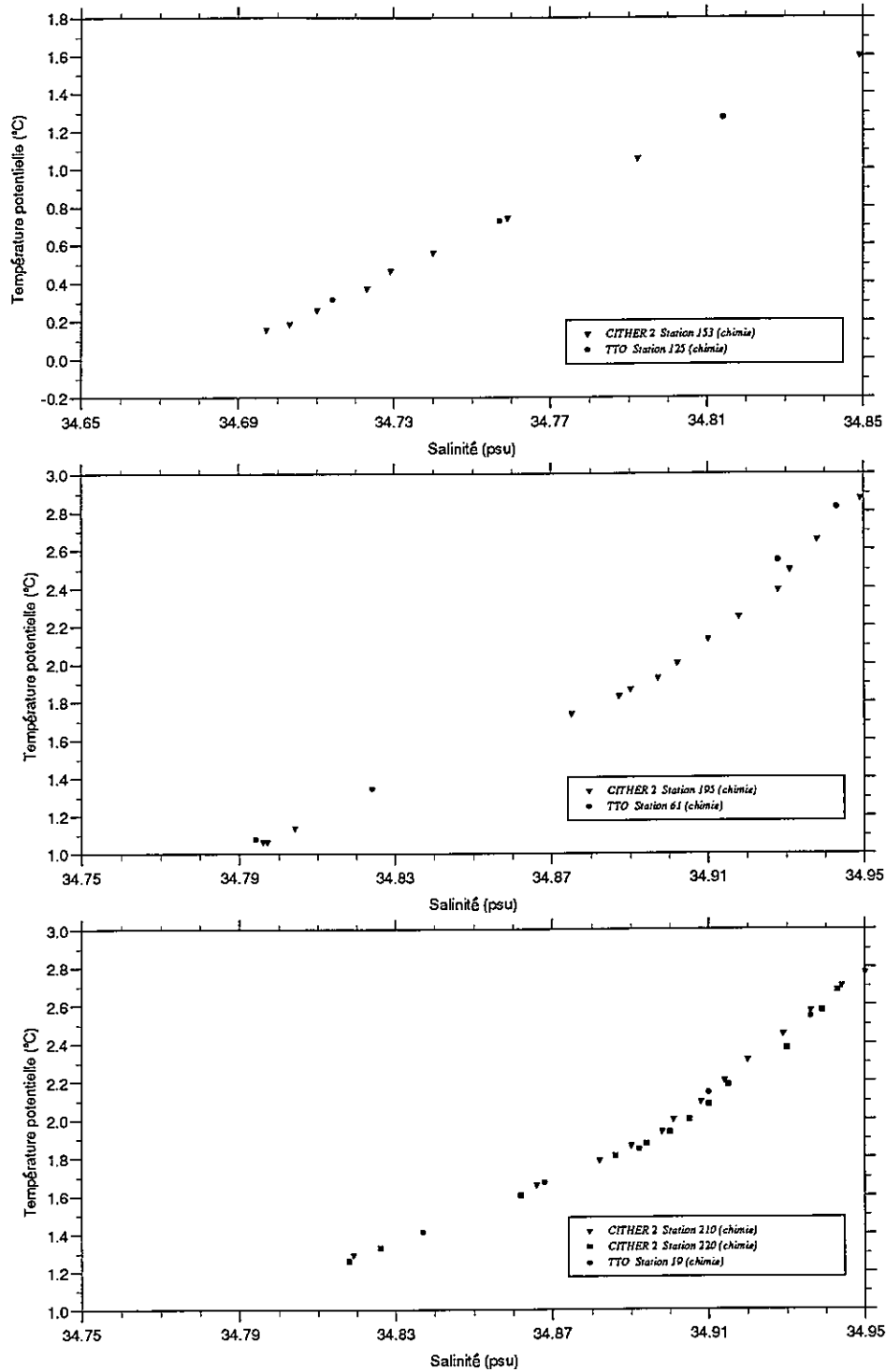


Figure III-12 : Comparaison des diagrammes  $\theta$ -S à trois stations de CITHER 2 avec ceux obtenus à TTO à la même position géographique.

## Profils d'Oxygene dissous

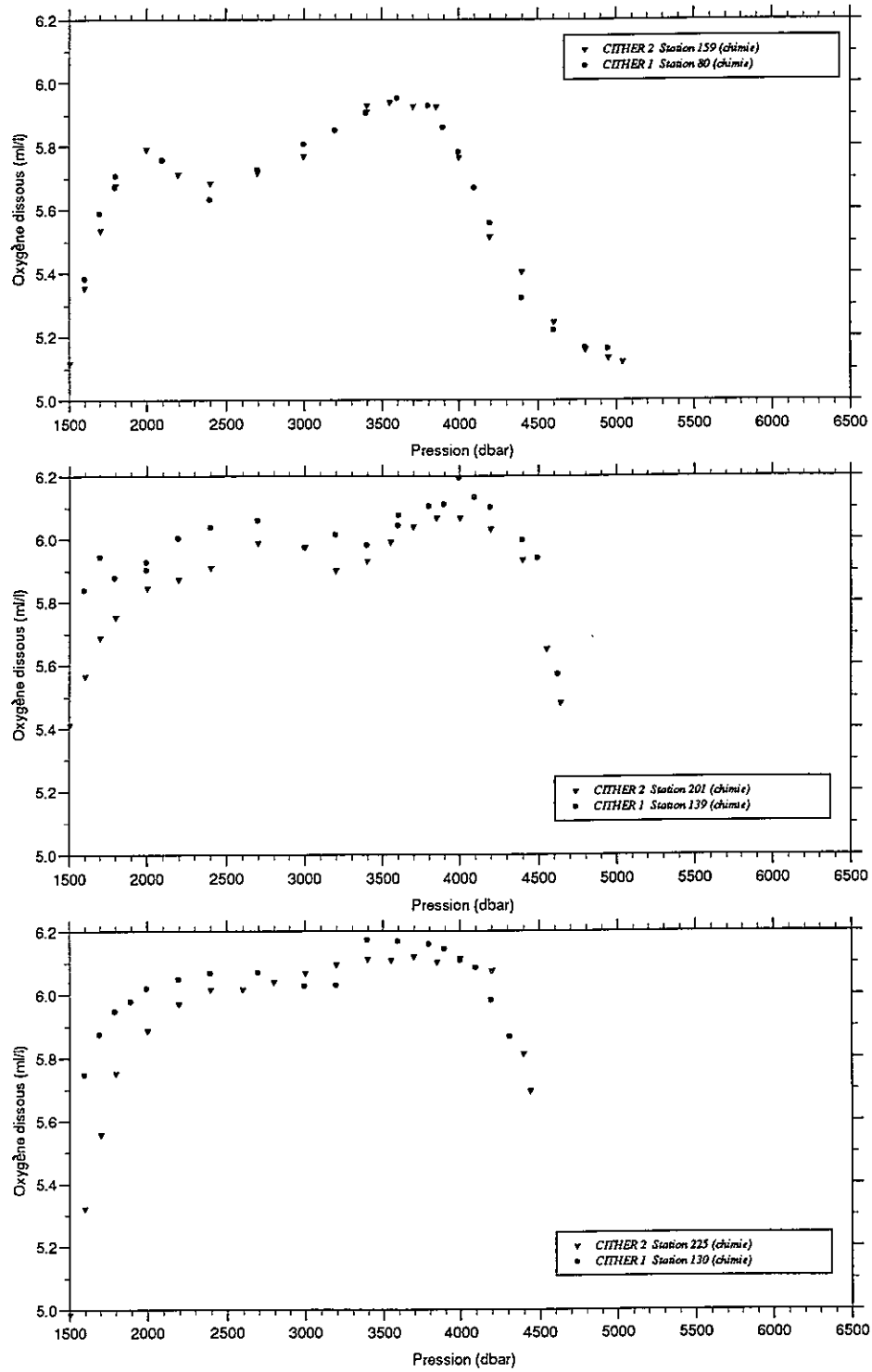


Figure III-13 : Comparaison des mesures d'oxygène dissous obtenues à trois stations de CITHER 2 avec celles de CITHER 1 à la même position géographique.

## Profils d'Oxygene dissous

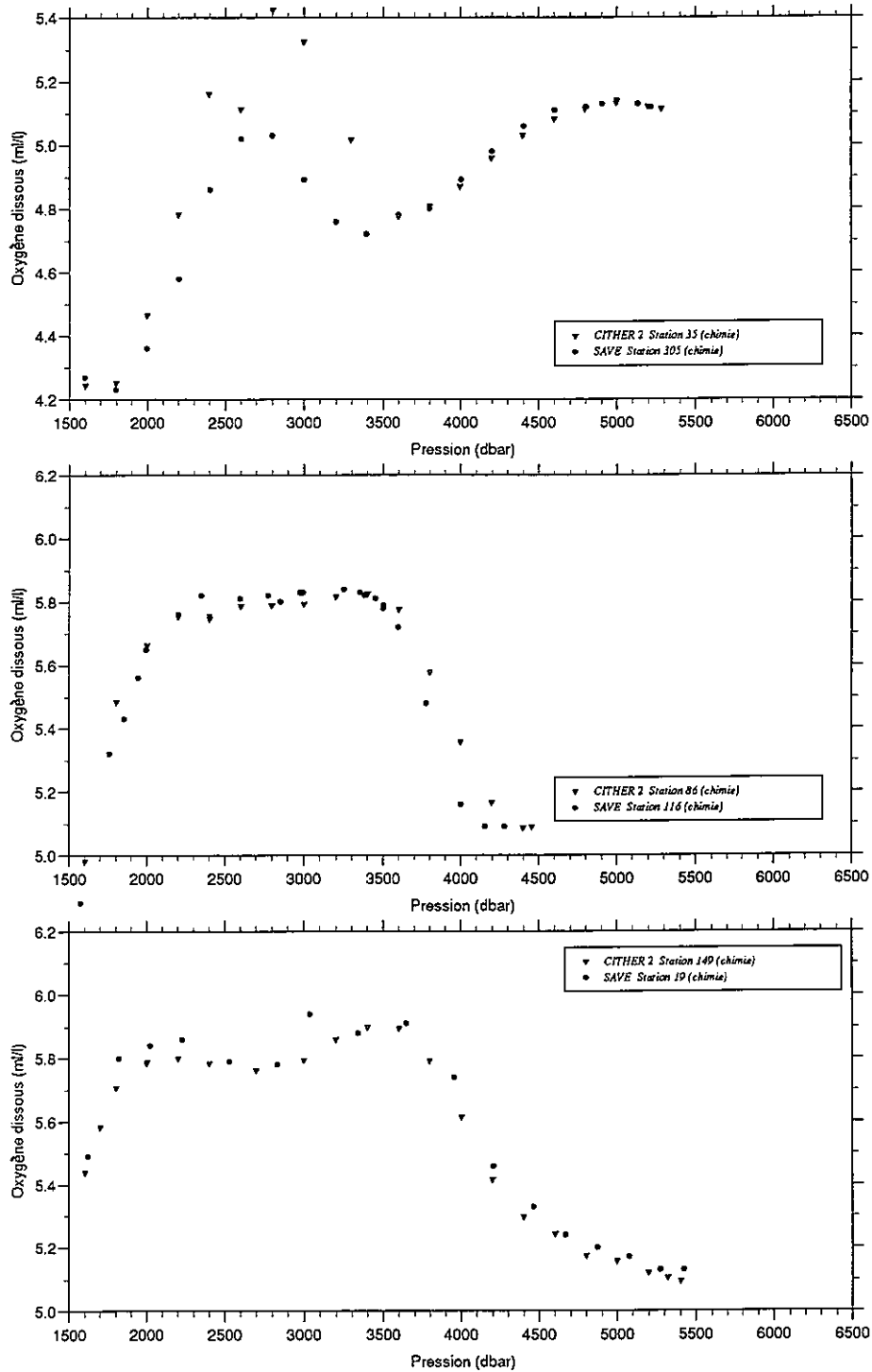


Figure III-14 : Comparaison des mesures d'oxygène dissous obtenues à trois stations de CITHER 2 avec celles de SAVE à la même position géographique.

## Profils d'Oxygene dissous

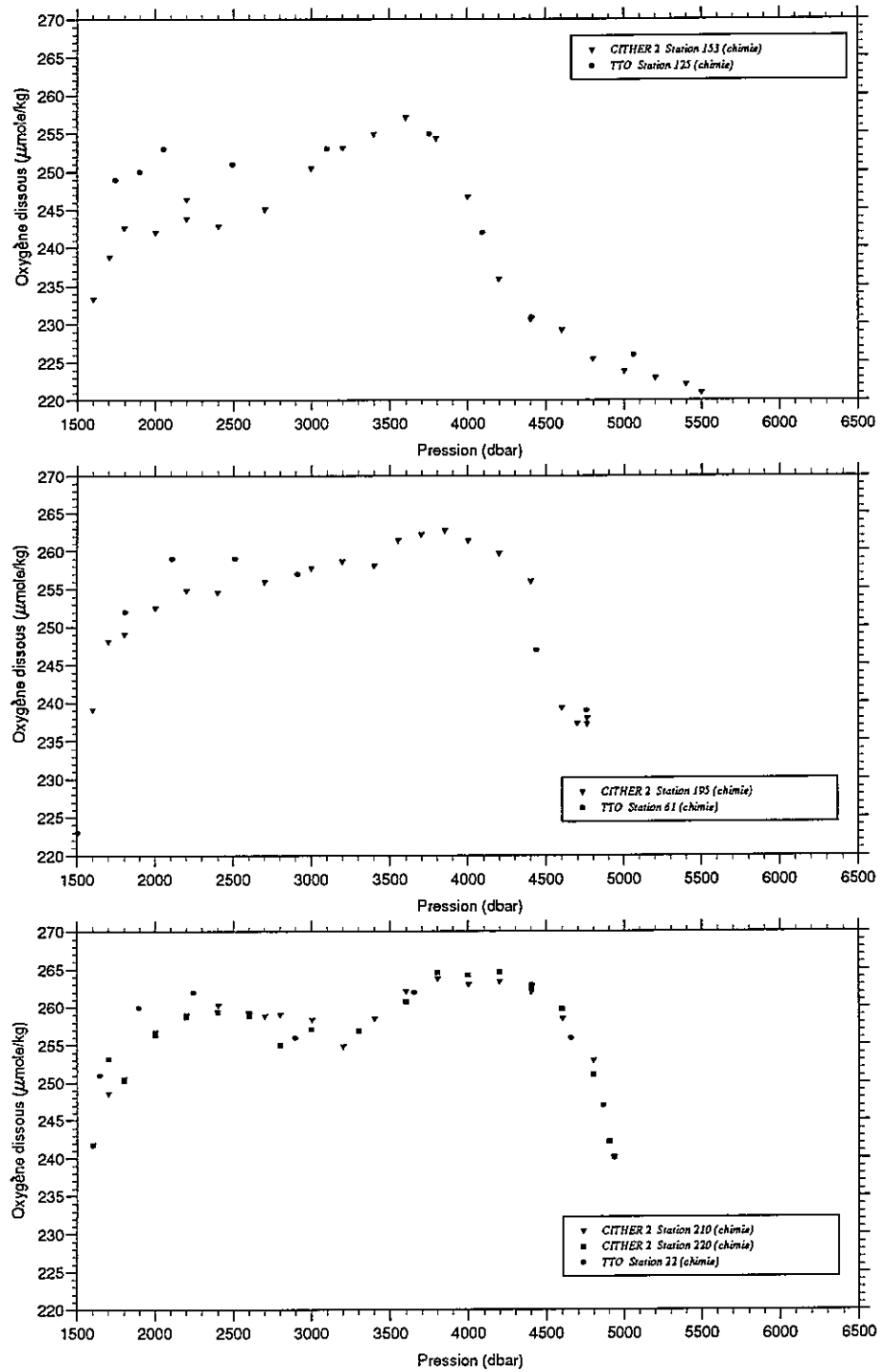


Figure III-15 : Comparaison des mesures d'oxygène dissous obtenues à trois stations de CITHER 2 avec celles de TTO à la même position géographique.



## IV- NUTRIENT MEASUREMENTS

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### 1 - SAMPLING PROCEDURE

Samples of nutrients followed those for trace gases, oxygen, total CO<sub>2</sub>, alkalinity and pH. Samples were drawn into 60 ml polyethylene containers. These were rinsed twice before filling. Samples were then analysed as rapidly as possible after collection. When samples were analysed after an hour of their collection they were preserved at 4°C. In any case no more than 12 h elapsed before analysing.

### 2 - EQUIPMENT AND METHODS

Nutrient analyses were performed by segmented flow analysis with an autoanalyzer TECHNICON AAII ®. Nitrate+nitrite, phosphate and silicate were determined simultaneously. Samples were transferred into 20 ml Pirex tubes thoroughly rinsed, and set into a Gilson ® automatic sampler, provided with a stainless steel needle. A pumping cycle of 3.4 minutes taking sample and 0.6 minutes in a milli Q ® water reservoir was used. A typical analysis spent a volume of 14.62 ml, which allow us to do replicate analysis when required.

#### 2.1 - Methods

The determinations were carried out according to the methods described by Hansen and Grasshoff (1983) with some modifications. Thus, to avoid possible contamination problems when ammonium is determined simultaneously (i.e. in lab routine analysis), reagents usually as ammonium salts were replaced by the corresponding sodium salts. The most significant change regards to the buffer solution used in the determination of nitrate+nitrite (see below).

Silicate: silicate in the orthosilicate form reacts with molybdate, in form of sodium molybdate, producing the  $\beta$ -1:12 silicomolybdic acid. Since the  $\beta$ -1:12 silicomolybdic acid is unstable and has also a low molar absorbance it is subsequently reduced to a blue heteropoly acid with a much higher molar absorbance at 660 nm. To carry out the reduction, ascorbic acid is employed. In order to avoid the possible interference due to the formation of similar 1:12 heteropoly acid with phosphate and arsenate, oxalic acid is introduced. Oxalic acid decomposes the phosphomolybdic and arsenomolybdic acids eventually formed. The reaction is performed at 37°C in order to reduce the temperature dependence problem caused by the very short time allowed for production of  $\beta$ -1:12 silicomolybdic acid. The colorimeter uses a 30 mm pathlength flowcell.

Phosphate: the determination of phosphate is based on the reaction of the ions with an acidified molybdate reagent. Under acid conditions a phosphomolybdate complex is formed which is

subsequently reduced to a phosphomolybdenum blue complex detectable at 880 nm. The reaction takes place at 37°C. As a reducing agent ascorbic acid is used. As surfactant agent a solution of dodecyl sulfate sodium salt is used instead of Levor IV, which is not recommended by Kirkwood et al. (1991). This is because of the precipitation problems that the latter gives rise to in samples of high salinity, which lead to an absorbance increase with respect to the manual methods (Loder and Gilbert, 1977; Hansen and Grasshoff, 1983; Alvarez-Salgado et al., 1992). The colorimeter was fitted with a 50 mm pathlength flowcell.

**Nitrate + nitrite:** Nitrate was determined after reduction of nitrate to nitrite and the total nitrate + nitrite in the sample is measured as an azodye at an absorbance of 543 nm. A column of 5.38 cm<sup>3</sup> filled with copperized cadmium granules is used for nitrate reduction. Peak shape is strongly affected by column packing, compromising the accuracy of the measurements. During the CITHER 2 we had very serious problems of packing due to the ship-engines vibrations and we had to repack it frequently. The column efficiency was checked by comparing the response of the nitrate channel to a nitrite standard with a concentration as high as the nitrate standard. When the column efficiency was less than 90% it was replaced. During the cruise three columns were used. As buffer solution a mixture of citric acid / sodium citrate (55:45 M) is used (Mouriño and Fraga, 1985) instead of a solution of ammonium chloride. Working with this buffer solution, the reduction takes place at pH 5.3 - 5.7.

## 2.2 - Calibration

Nutrient primary standards were prepared from nutrient salt material dried for 24 h over silica gel in a desiccator before weighing ( $\pm 0.1$  mg). For nitrate 0.2476 g of potassium nitrate was dissolved in 100 ml of milli-Q in a calibrated volumetric flask. For nitrite 1.076 g of sodium nitrite was weighed and made up to 250 ml. For phosphate 0.1351 g of potassium dihydrogen phosphate was dissolved in 250 ml of milli-Q in a calibrated volumetric flask.

A stock standard solution is prepared by dissolving 0.3774 g of sodium silica fluoride in milli-Q and adding 50 ml of nitrate primary standard and 25 ml of phosphate primary standard and made up to 500 ml.

A stock standard solution of nitrite is prepared by adding 20 ml of nitrite primary standard with 25 ml of phosphate primary standard and made up to 500 ml.

The working standard solutions were prepared from the stock standard solutions with low nutrient seawater (LNSW). The working standard solutions were prepared every two days and preserved at 4°C. In table IV-1 the concentrations of each nutrient in the working standard solution are shown.



Table IV-1. Working calibration standards

STD	Volume (cc)		Concentration ( $\mu\text{mol/kg}$ )			
	Stock STD	Final volume	$\text{NO}_3^-$	$\text{NO}_2^-$	$\text{HPO}_4^{2-}$	$\text{SiO}_2$
1	5	500	24.483		1.987	39.540
2	15	1000	36.724		2.981	59.310
3	15	500				118.62
4	5	500		24.987	1.987	

Another set of nutrient primary standards were also done in order to intercalibrate the two sets and check the stability of the standards. The coherence between the two sets of standards was always good.

**Linearity:** The analytical system for phosphate showed a linear response in the working range. However, deviation from linearity has been found for nitrate (from 25  $\mu\text{mol/kg}$ ) and silicate (from 40  $\mu\text{mol/kg}$ ). Calibration curves performed in the lab before the cruise proved that the analytical system for nitrate can be accurately calibrated (within WOCE requirements) by considering two segments (0-25 and 25-40  $\mu\text{mol/kg}$ ). If a linear response in the working range could be considered then errors as high as 4.3% would be done. For silicate three segments (0-40, 40-60 and 60-120  $\mu\text{mol/kg}$ ) have been considered. Maximum errors of 2.3% are obtained if the calibration line is established with only two points. This procedure has been preferred than sample dilution with low nutrient seawater.

**Blank :**the systematic greater absorbances obtained with segmented flow systems in contrast with manual methods are due to variations in the refractive index. When blown glass flowcells are used, the variations in the refractive index provoke light scattering with the concomitant increase of the optical signal (Froelich and Pilson, 1978). In order to solve this problem, the blank (zero nutrient seawater), which is compared with the LNSW, was a solution of 35 g of sodium chloride calcined at 600°C in 1 L of milli-Q water with the same refractive index of LNSW. During calcination, the nitrate and ammonium are totally eliminated and the silicate is converted into non-reactive forms. However, high contents of phosphate are still present in the calcined sodium chloride. Therefore, for phosphate we use the physical method described by Alvarez-Salgado et al. (1992) in order to correct the refractive index effect.

### 2.3 - Data acquisition

The acquisition of the analog signal from the colorimeters was done by means of registers connected to the colorimeters. On the graphic register we measure the height of the samples and compare them with the height of the standards.

### 3 - PRECISION

The WOCE requirements for precision (Joyce et al., 1991) are silicate 0.2% full scale (150  $\mu\text{mol/kg}$ ); nitrate 0.2% full scale (40  $\mu\text{mol/kg}$ ) and phosphate 0.4% full scale (2.5  $\mu\text{mol/kg}$ ).

#### 3.1 - Analytical error. Duplicate analyses

In each station, replicate analyses of the same nutrient sample bottle were done. The replicates were analyzed at the end of the station samples set. In table IV-2 the absolute difference between replicate analyses and the absolute difference relative to the full scale (C.V.fs %) for each nutrient averaged over the all replicates are shown. In all case the CV fs % satisfied the WOCE requirements.

Table IV-2. Summary of differences between replicate analysis

	Nitrate	Phosphate	Silicate
Absolute differences average	0.06	0.005	0.21
C.V.fs (%)	0.16	0.19	0.14
WOCE requirements	0.2	0.4	0.2

#### 3.2 - Sampling error. Duplicate samples

Table IV-3 shows the absolute differences average between samples from pairs of bottles fired at the same depth. Overall, the absolute differences average relative to the full scale is about half of those required for the WOCE.

The distribution of absolute differences versus station number and depth for each nutrient are shown in figures IV-1, IV-2 and IV-3. In all cases, no trend can be seen for nitrate and phosphate. For silicate a greater dispersion is found at the beginning of the cruise. This can probably be attributed to the changes in the room temperature, where the analyses were carried out. Silicate measurement is very dependent of temperature. Room temperature fluctuations of 1°C can cause changes in peak height of around 1% (Joyce and Corry, 1994). During the rest of the cruise a stricter control of the lab temperature diminished the dispersion. The frequency distributions of the absolute differences (figures IV-1c, IV-2c and IV-3c) show that about 82% is lower than 0.10  $\mu\text{mol/kg}$  for nitrate. For phosphate 92% of the cases, the difference is lower than 0.01  $\mu\text{mol/kg}$  and for silicate 82% of the differences is lower than 0.15  $\mu\text{mol/kg}$ .

Table IV-3. Summary of differences between samples fired at the same depth.

	Nitrate	Phosphate	Silicate
Absolute difference average	0.05	0.004	0.09
C.V.fs (%)	0.12	0.16	0.06
WOCE requirements	0.2	0.4	0.2

### 3.3 - Consistency of measurements. Quality control

At stations 42, 116 and 211, the thirty two oceanographic bottles were fired at the same depth; 2907, 3001 and 3003 meters respectively. The results are shown in tables IV-4. For nitrate the standard deviation was lower than 0.07  $\mu\text{mol/kg}$ , for phosphate lower than 0.004  $\mu\text{mol/kg}$  and for silicate lower than 0.30  $\mu\text{mol/kg}$ . In all cases the standard deviation referred to full scale is lower than the WOCE requirements.

Table IV-4.- Summary of differences between quality control measurements

NITRATE				
Station	Average ( $\mu\text{mol/kg}$ )	Std( $\mu\text{mol/kg}$ )	C.V. (%)	C.V. fs (%)
42	23.68	0.07	0.31	0.17
116	21.25	0.07	0.32	0.17
211	21.05	0.03	0.13	0.07
PHOSPHATE				
Station	Average ( $\mu\text{mol/kg}$ )	Std ( $\mu\text{mol/kg}$ )	C.V. (%)	C.V. fs (%)
42	1.591	0.004	0.24	0.16
116	1.433	0.006	0.41	0.24
211	1.391	0.005	0.35	0.2
SILICATE				
Station	Average ( $\mu\text{mol/kg}$ )	Std ( $\mu\text{mol/kg}$ )	C.V. (%)	C.V. fs (%)
42	48.65	0.30	0.62	0.20
116	37.58	0.17	0.46	0.13
211	34.67	0.23	0.66	0.15

### 4 - COMPARISON BETWEEN CITHER 2 STATIONS

The pairs of stations 41/60, 115/142 and 210/220 were surveyed at the same geographical position but in different dates (table IV-5). In figures IV-4, IV-5 and IV-6 the superimposed profiles of nitrate, phosphate and silicate of the pair of stations surveyed at the same geographical position respectively are shown. It can be seen that in all the cases there is a good coherence between the profiles.

Table IV-5.- Location and sampling date of stations surveyed at the same geographical position

Station	Latitude	Longitude	Date
41	36°0013'	44°15.01'	21/01/94
60	35°35.76'	43°53.39'	28/0194
115	13°26.36'	30°35.16'	10/02/94
142	13°26.32'	30°35.36'	23/02/94
210	10°02.51'	49°04.68'	13/03/94
220	10°0002'	49°0004'	17/03/94

The relationships between nitrate / phosphate and silicate / nitrate for the samples along the north-south section are depicted in figure IV-7. There is good consistency between nutrients. The nitrate/phosphate ratio for the samples of this main section is 15.3 ( $r^2 = 0.994$ ). Samples belonging to the western boundaries have been excluded as they present different ratios due to continental discharge.

#### 5 - COMPARISON WITH HISTORICAL DATA

In this section, we do a comparison with historical data. With this purpose, we have resorted to data from TTO (1982-83) and SAVE (1987-88) cruises. Some positions occupied in both cruises are very close to stations sampled during CITHER 2 cruise.

Nitrate plots of the current data overlay the historical data in all the cases (figures IV-8 and IV-9) . However, in figure IV-8c it can be seen a discrepancy between TTO and CITHER 2 cruise at depths corresponding to North Atlantic Deep Water. The difference between TTO and CITHER 2 can be as high as 3  $\mu\text{mol/kg}$ . On the other hand, the figure IV-9c shows that nitrate concentrations for station 183 of SAVE cruise present systematic lower levels (0.69  $\mu\text{mol/kg}$ ) than CITHER 2 at levels below 4000 db. In contrast figure IV-9a does not show any deviation.

In figures IV-10 and IV-11 the overlaying profiles for phosphate are depicted. In all the cases the agreement with the historical data is good except in figure IV-11c. As in the nitrate profiles (fig. IV-9c), below 4000 db the SAVE data are 0.05  $\mu\text{mol/kg}$  lower than our current data.

For silicate (figs. IV-12 and IV-13)·CITHER 2 data do not show any deviation from the historical data. In all cases the consistency between the two data sets is maintained in the whole water column.

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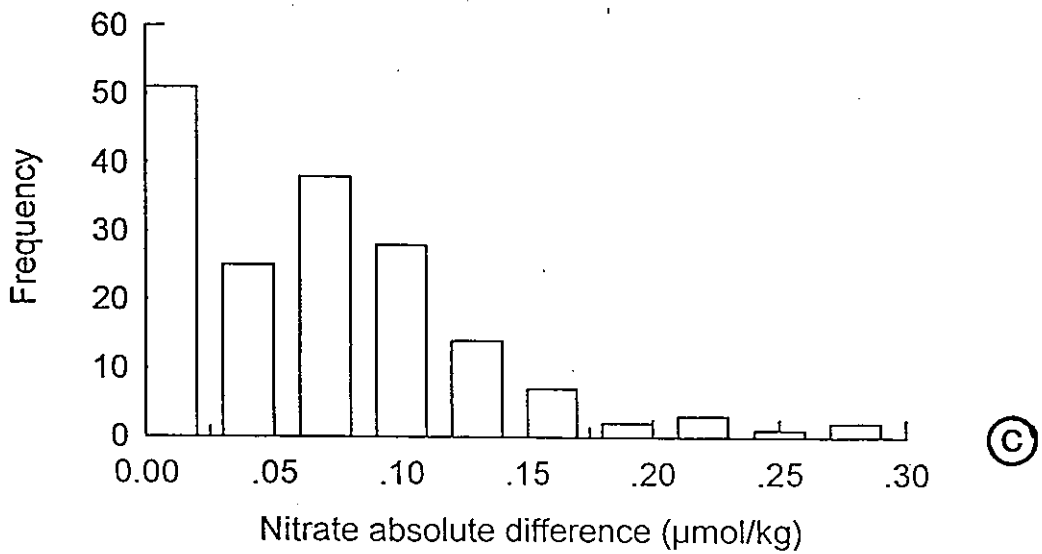
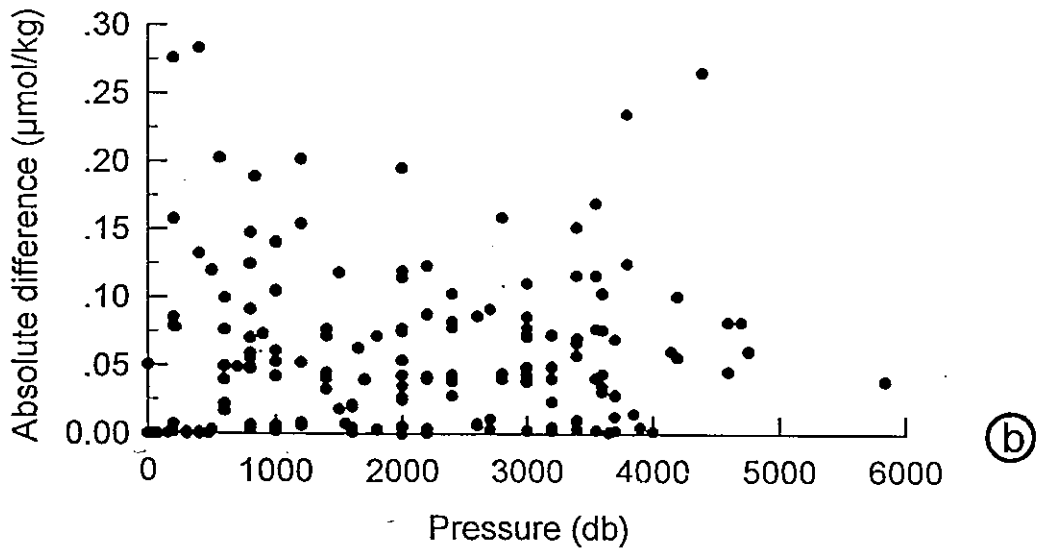
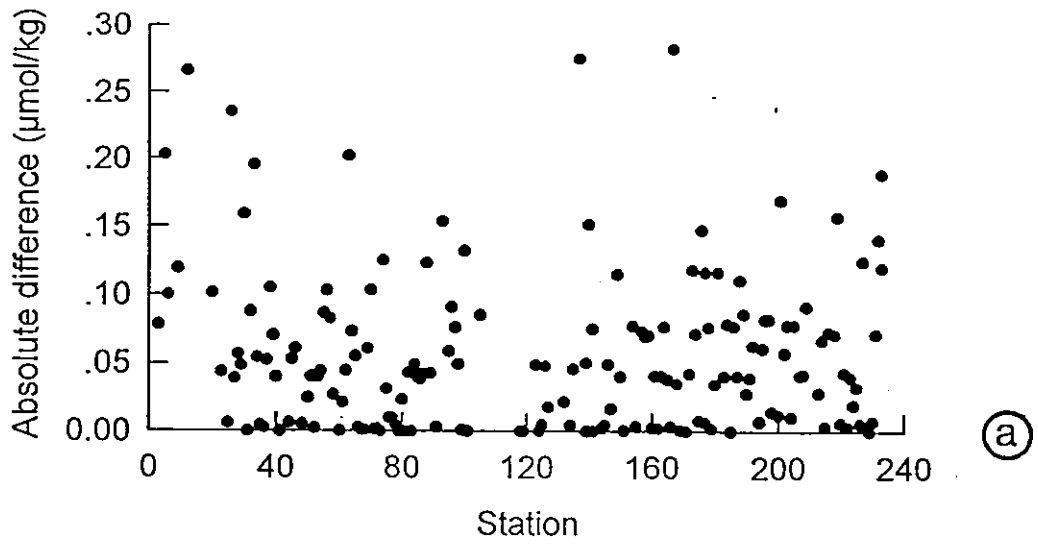
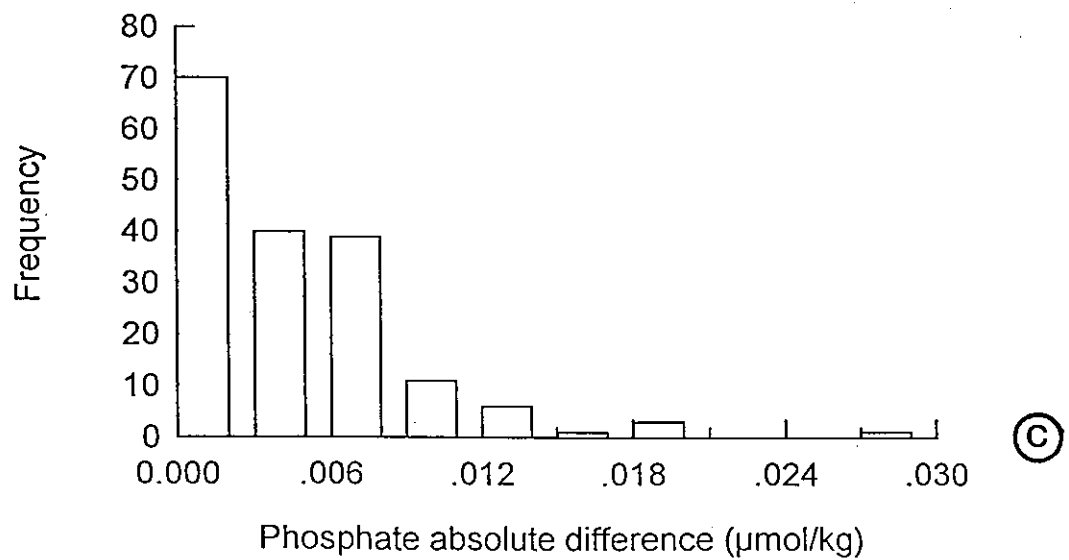
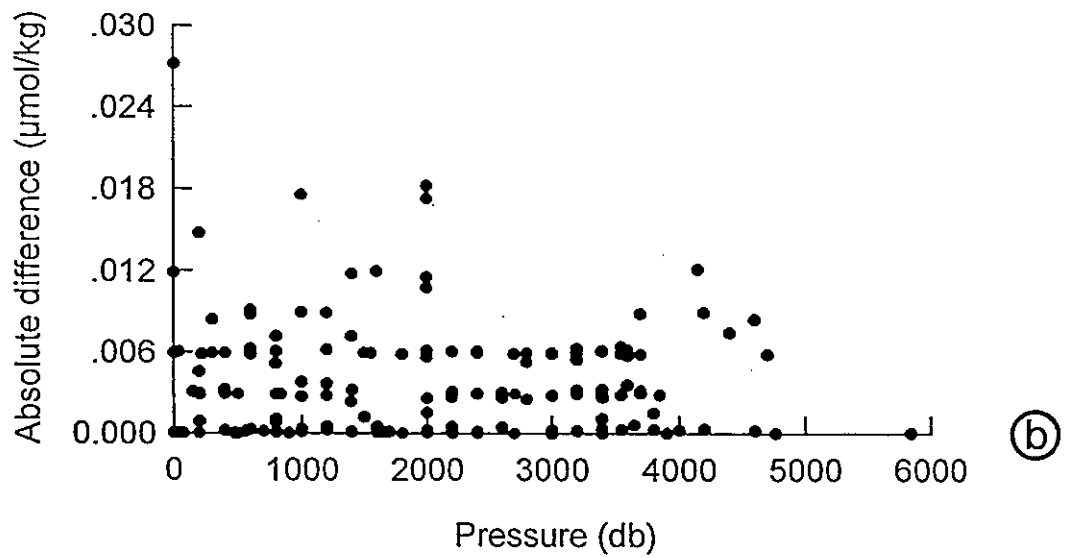
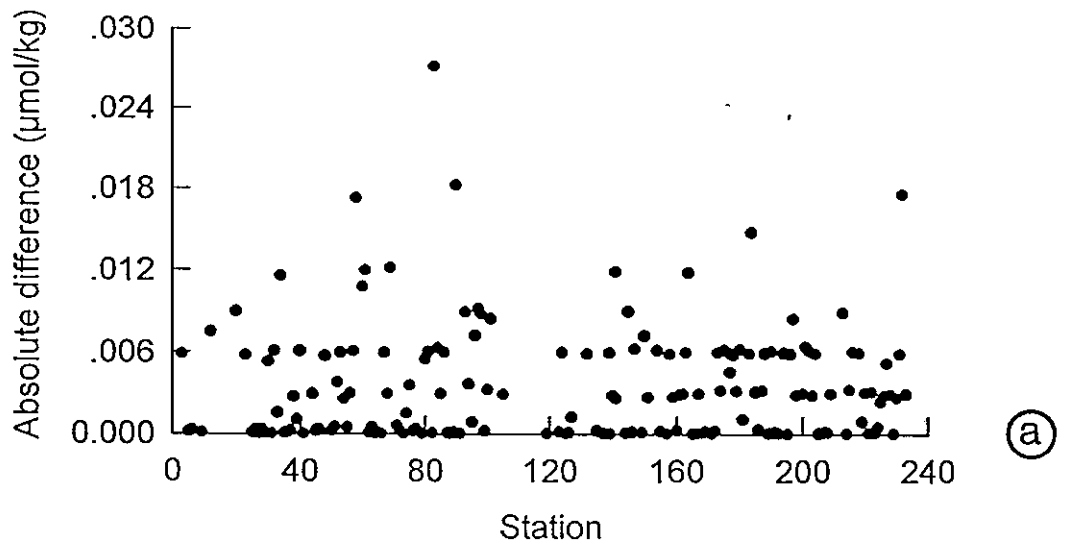
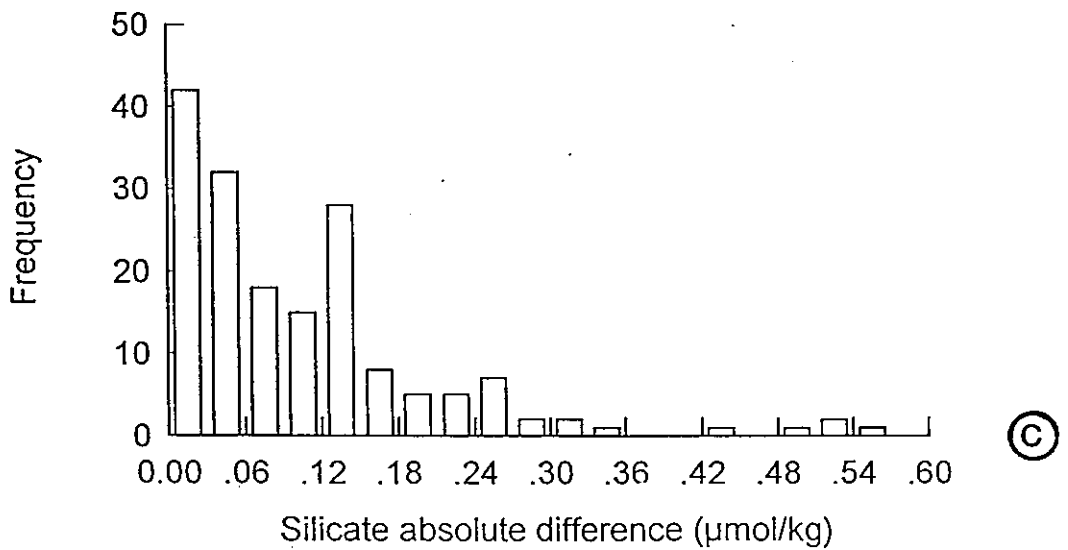
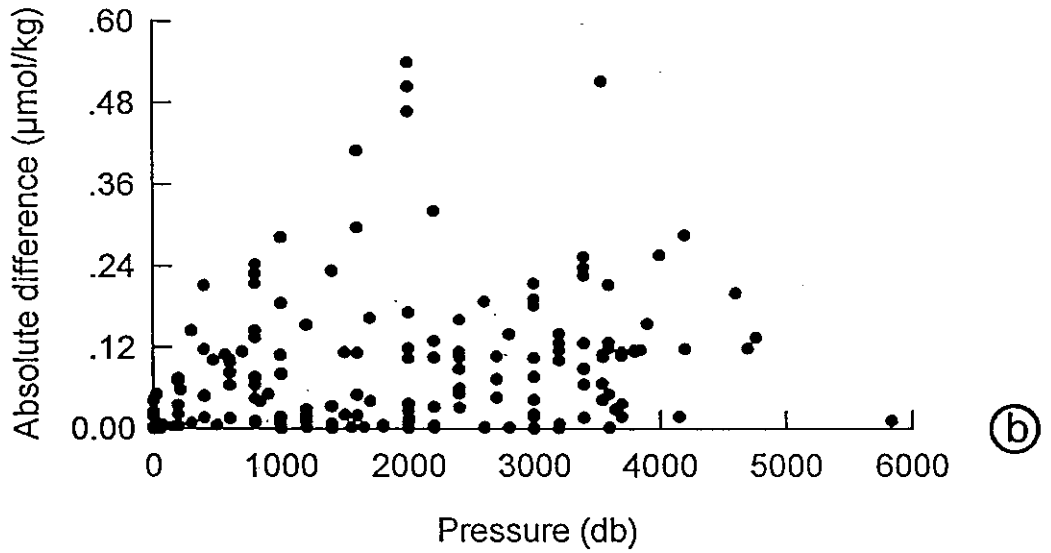
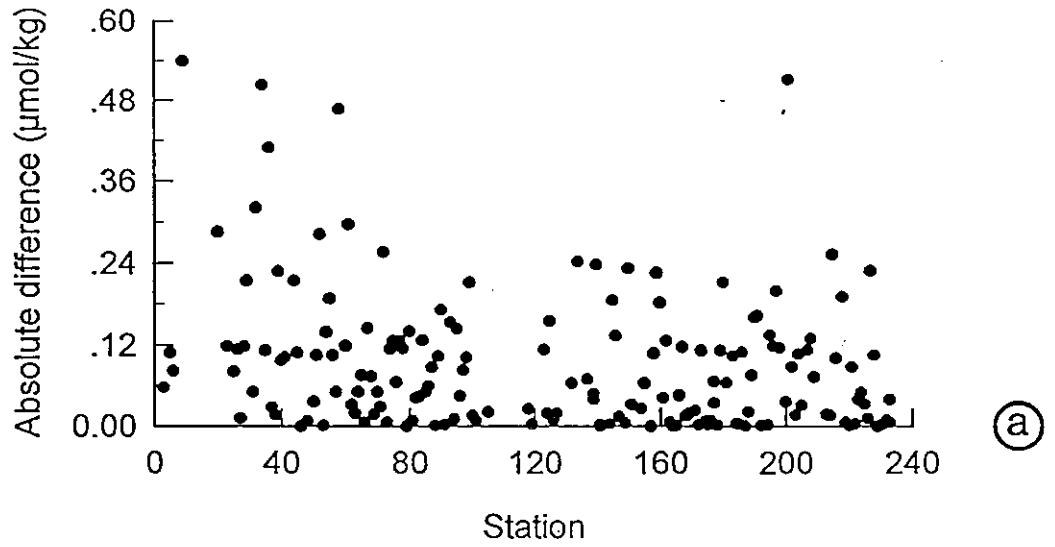


Figure IV-1: Absolute difference of nitrate concentrations for duplicate samples fired at the same level versus station number (a) and versus depth (b); and frequency distribution of the absolute difference (c).

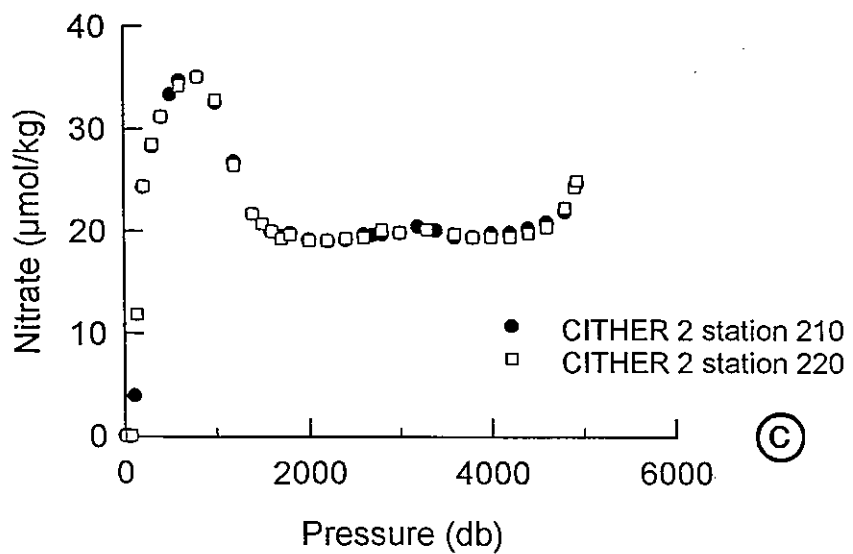
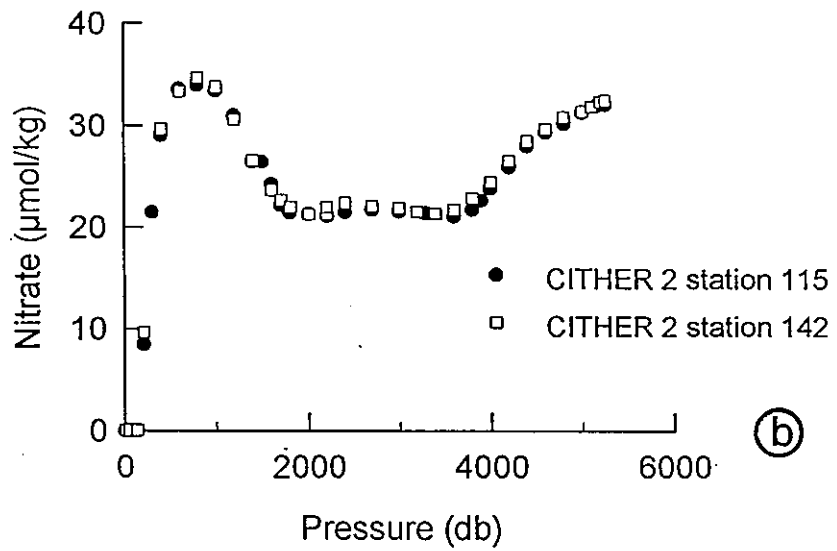
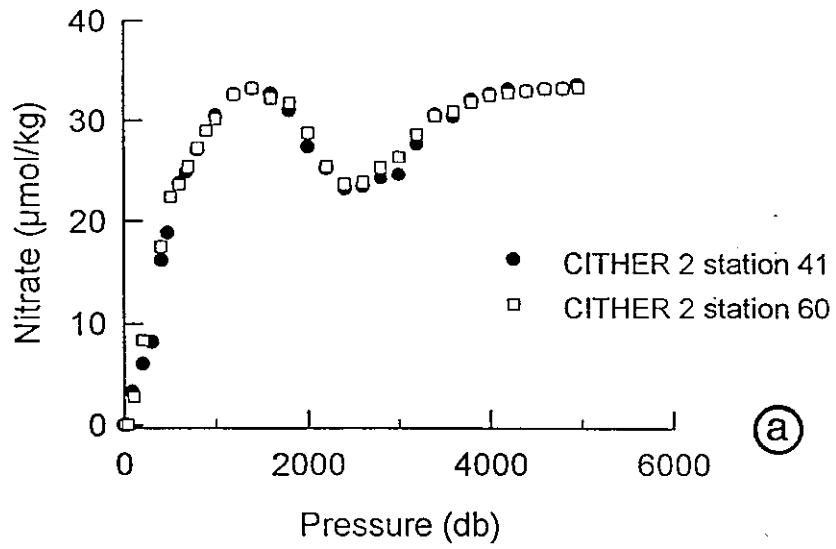


**Figure IV-2:** Absolute difference of phosphate concentrations for duplicate samples fired at the same level versus station number (a) and versus depth (b); and frequency distribution of the absolute difference (c).

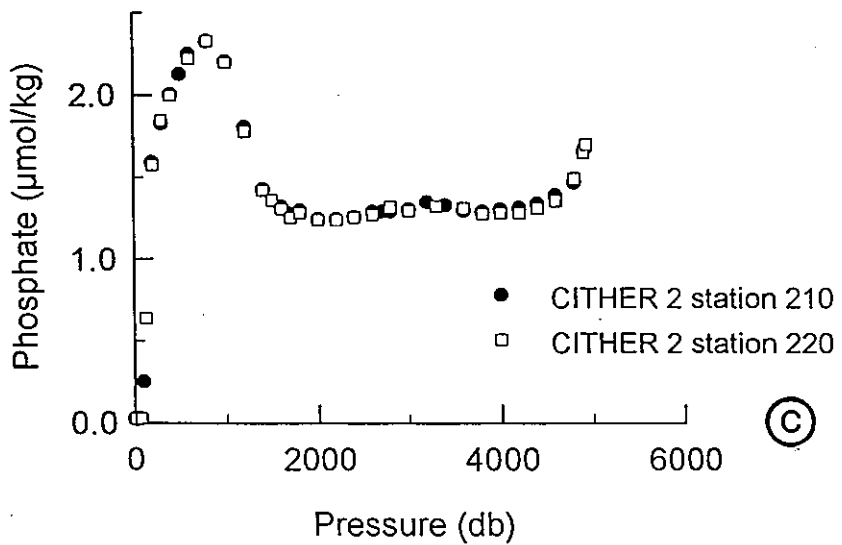
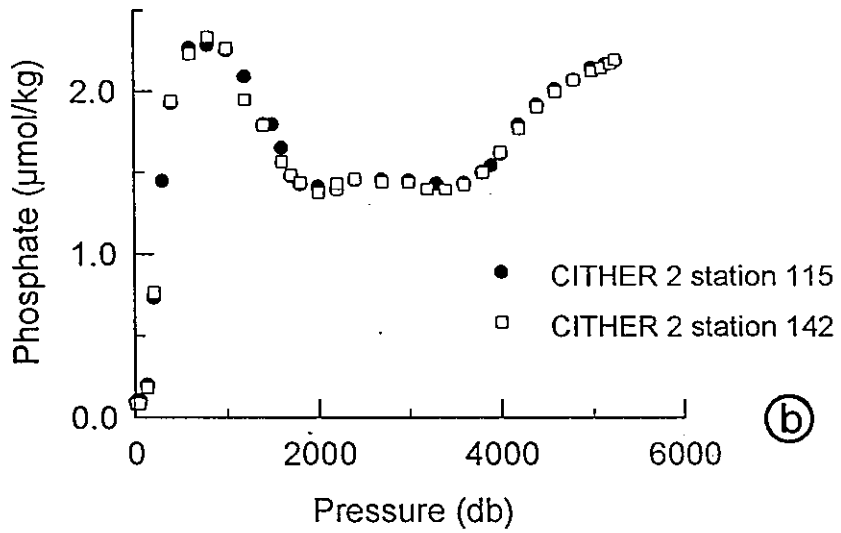
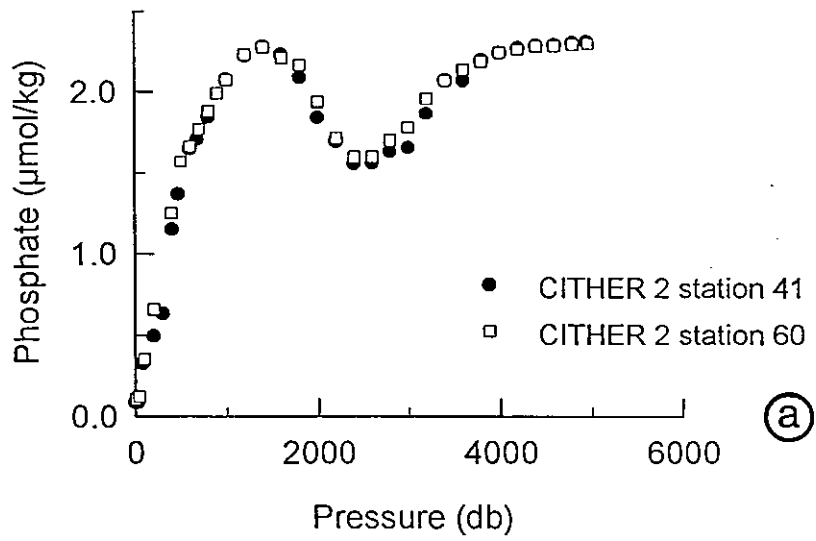


**Figure IV-3:** Absolute difference of silicate concentrations for duplicate samples fired at the same level versus station number (a) and versus depth (b); and frequency distribution of the absolute difference (c).

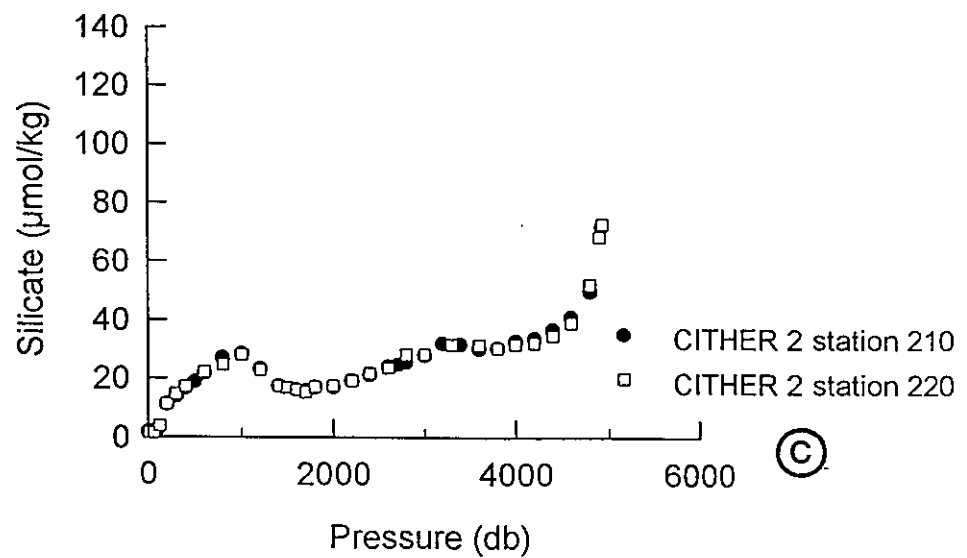
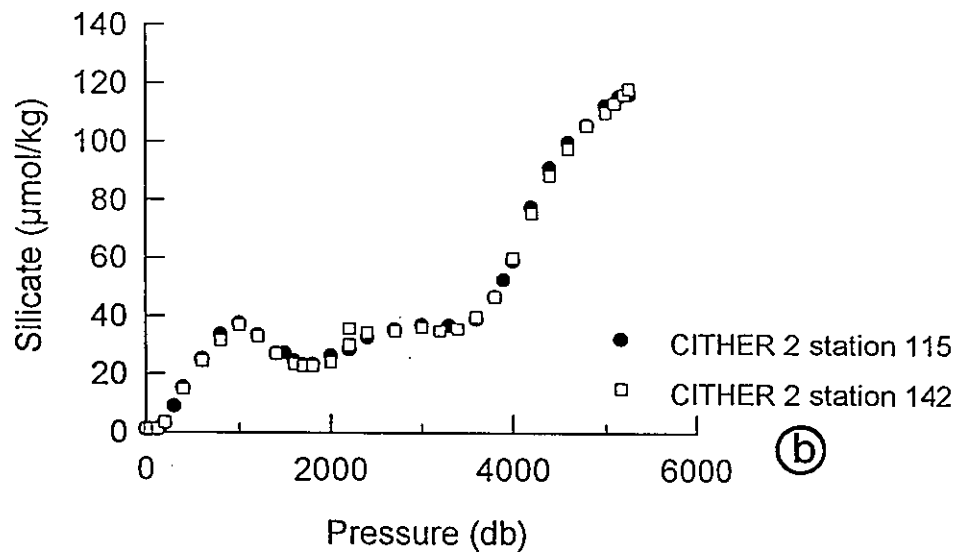
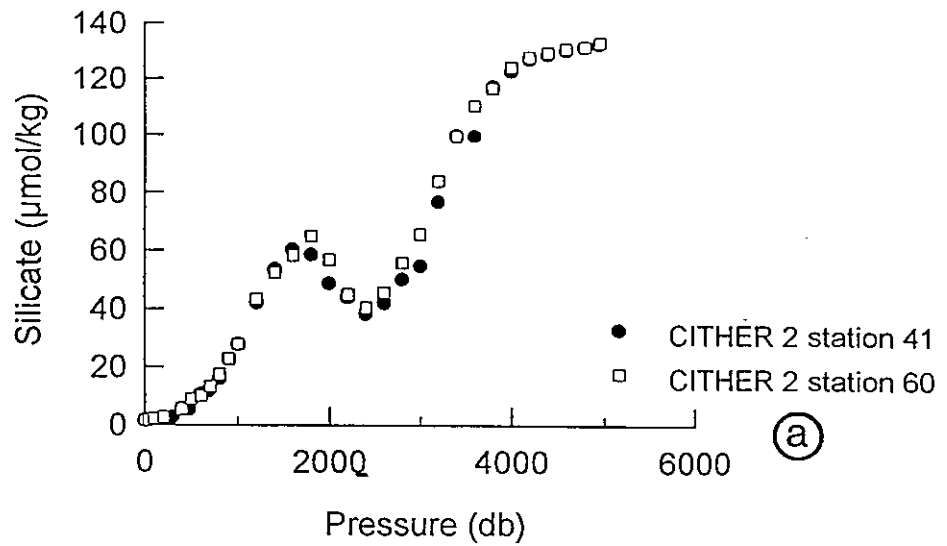




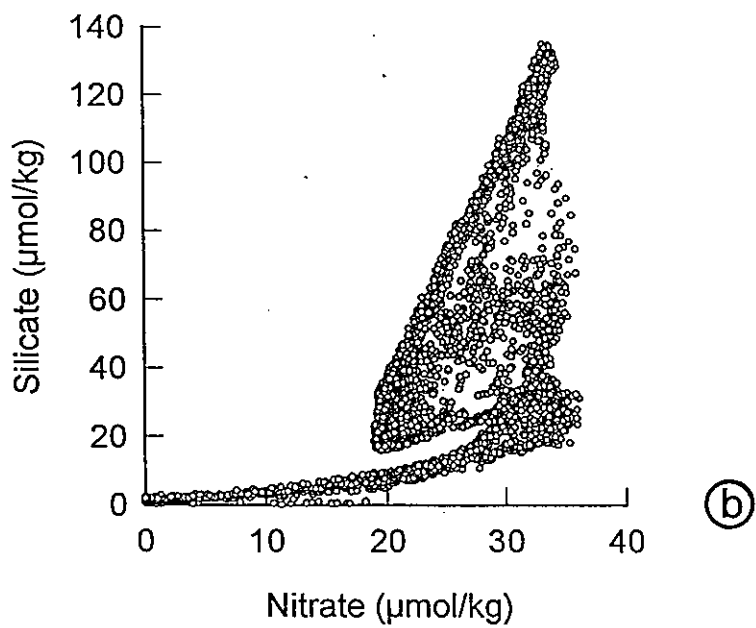
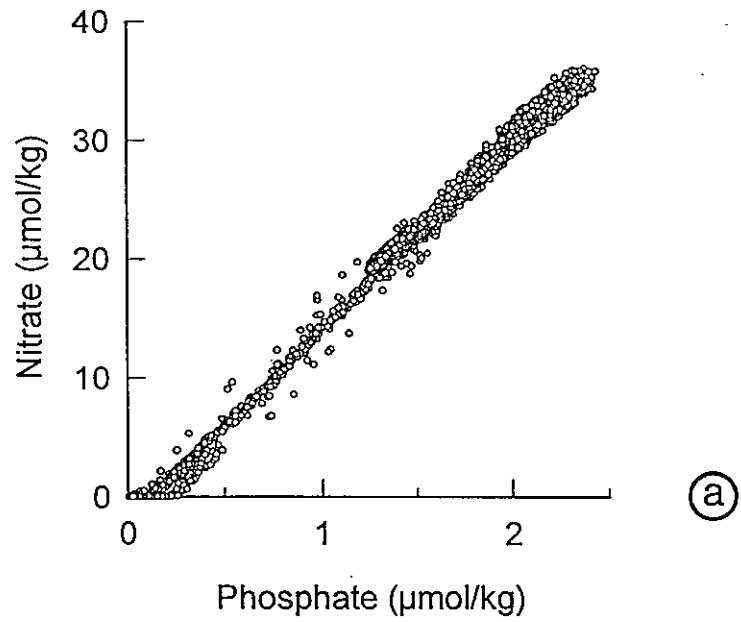
**Figure IV-4:** Comparison of nitrate profiles for the pairs of stations occupied at the same geographical position during the CITHER 2 cruise.



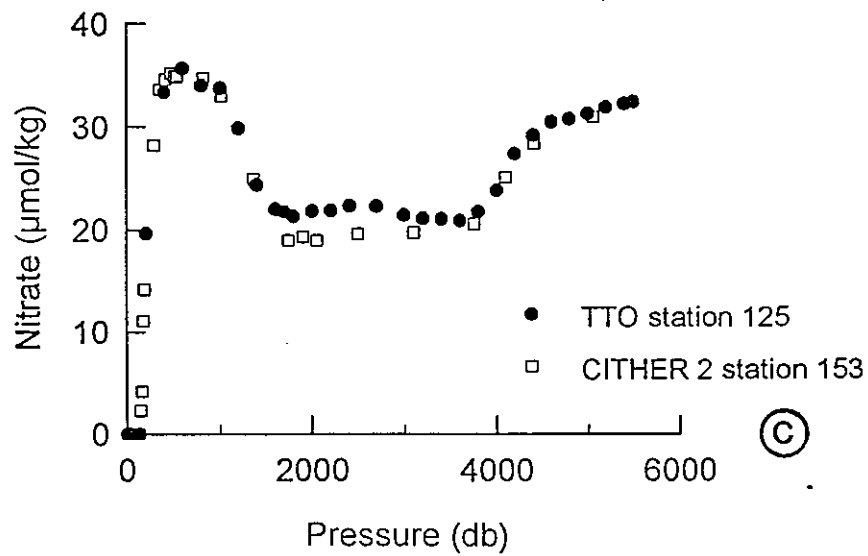
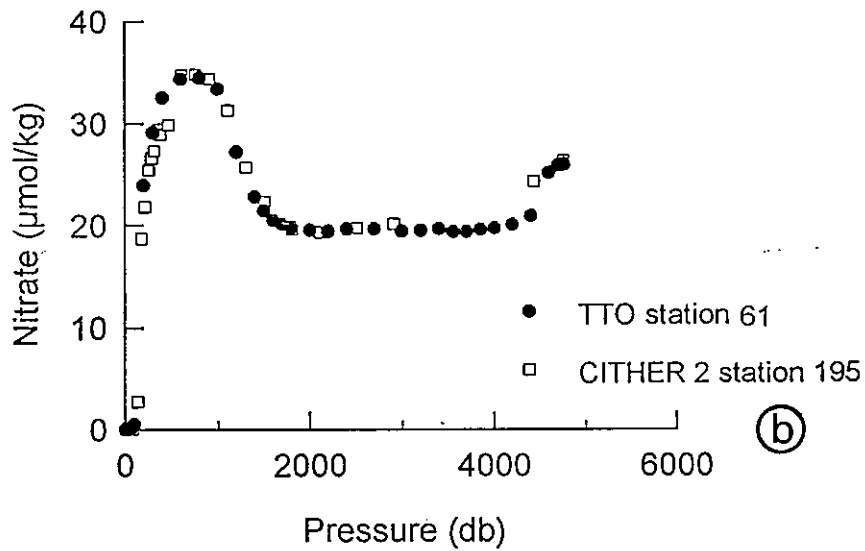
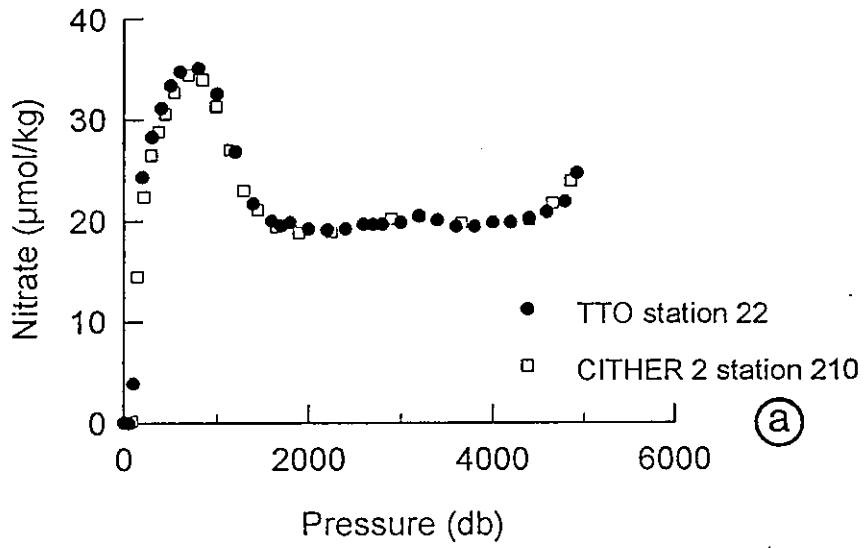
**Figure IV-5:** Comparison of phosphate profiles for the pairs of stations occupied at the same geographical position during the CITHER 2 cruise.



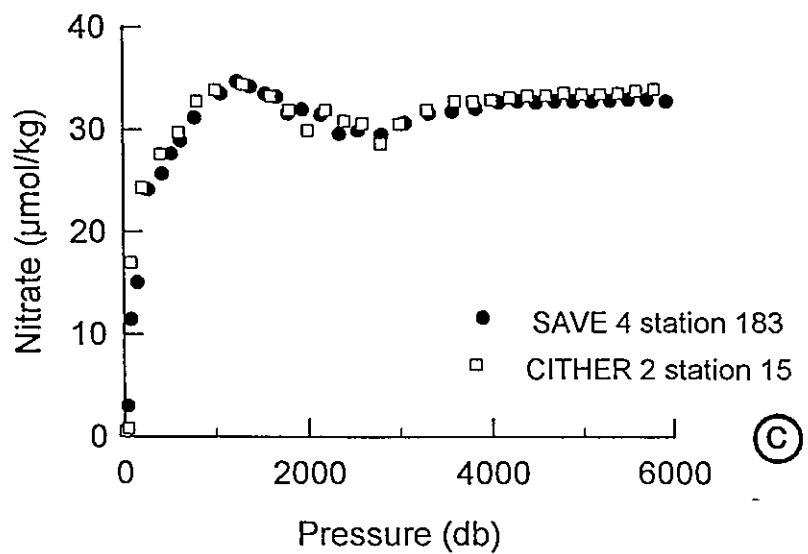
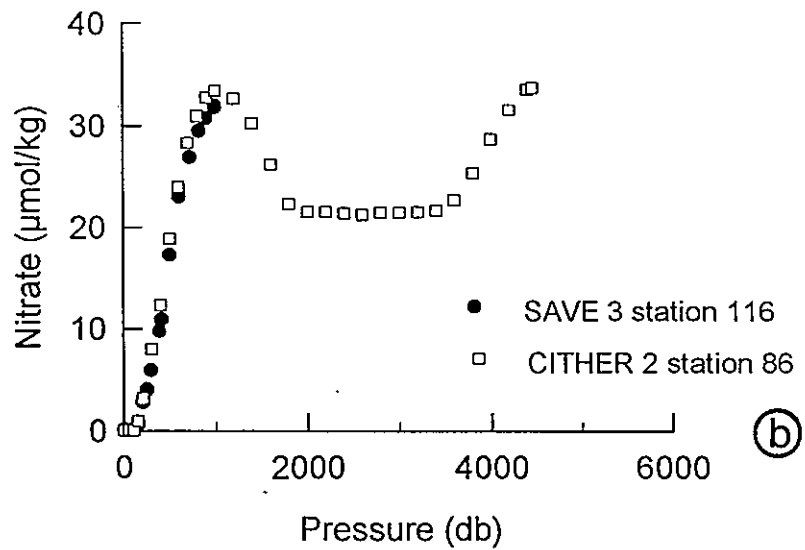
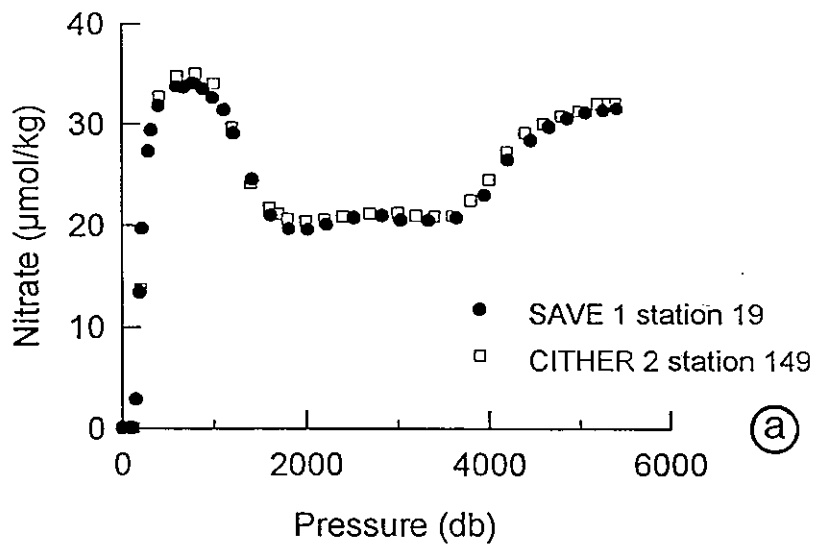
**Figure IV-6:** Comparison of silicate profiles for the pairs of stations occupied at the same geographical position during the CITHER 2 cruise.



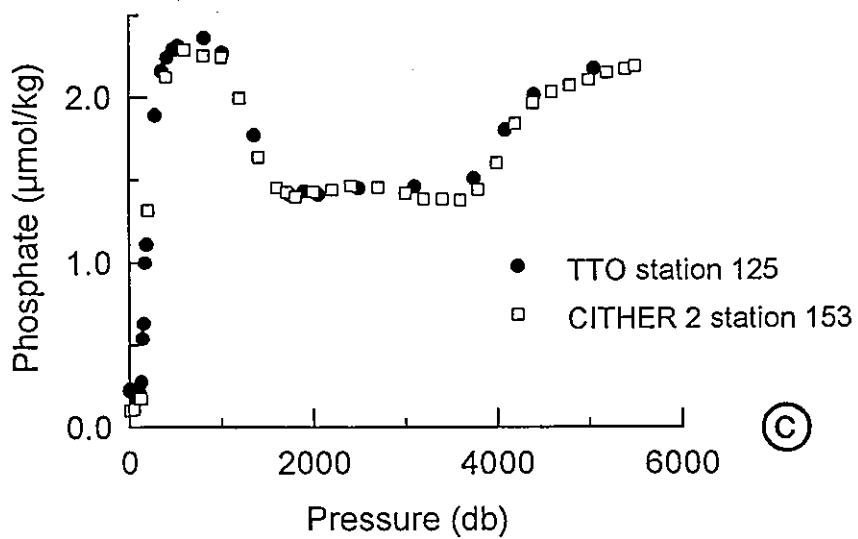
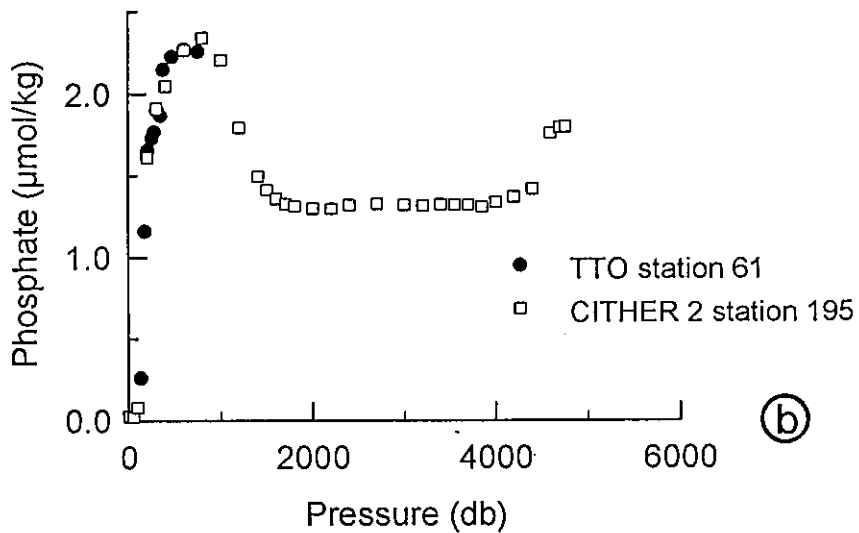
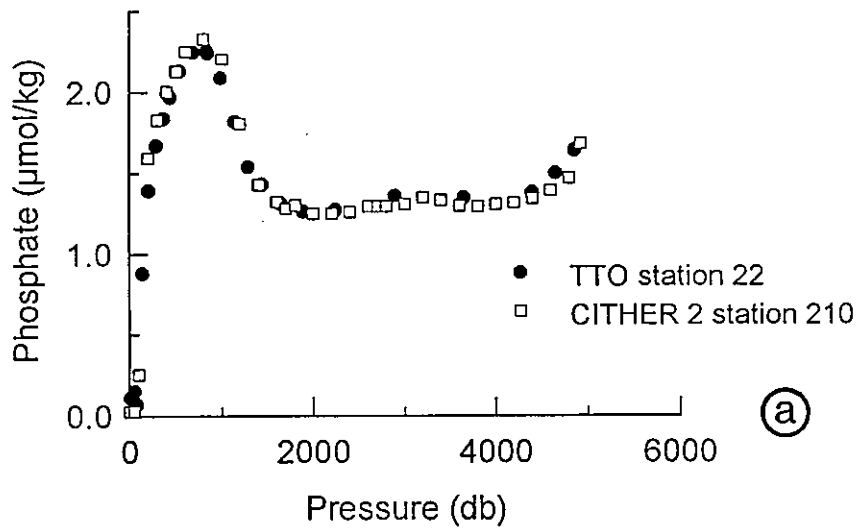
**Figure IV-7:** Relationship between salt nutrients for all samples of the main north-south section. Nitrate vs. phosphate (a); silicate vs. nitrate (b).



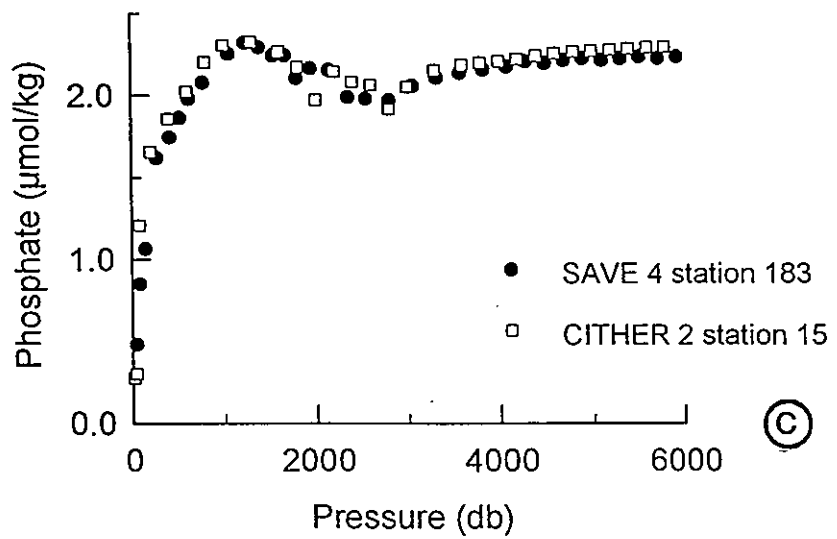
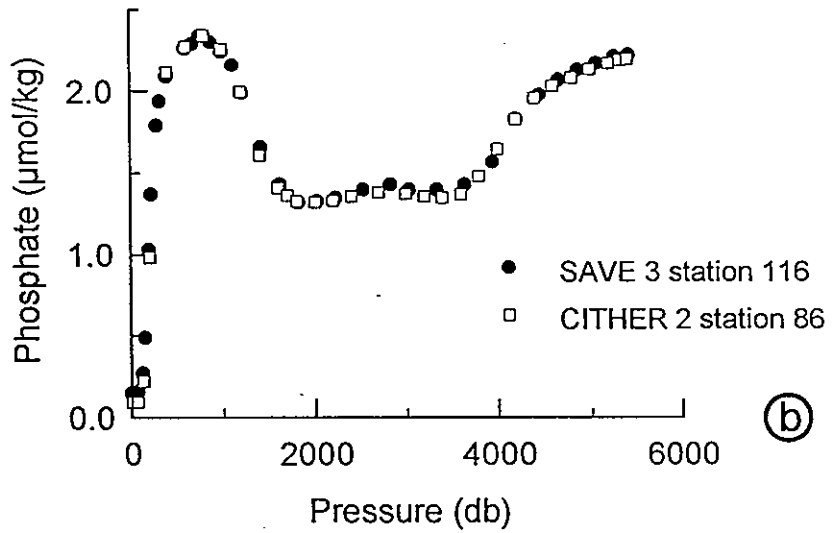
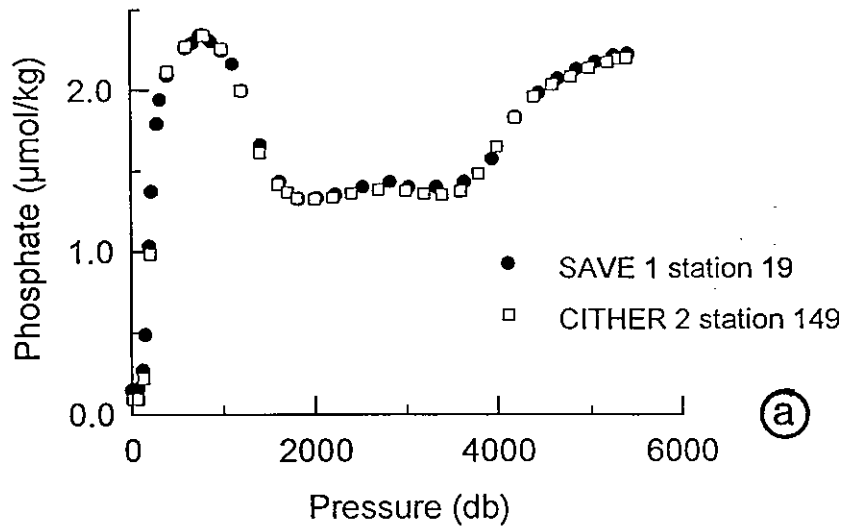
**Figure IV-8:** Comparison of nitrate profiles for the stations occupied at the same geographical position during CITHER 2 and TTO cruises.



**Figure IV-9:** Comparison of nitrate profiles for the stations occupied at the same geographical position during CITHER 2 and SAVE cruises.

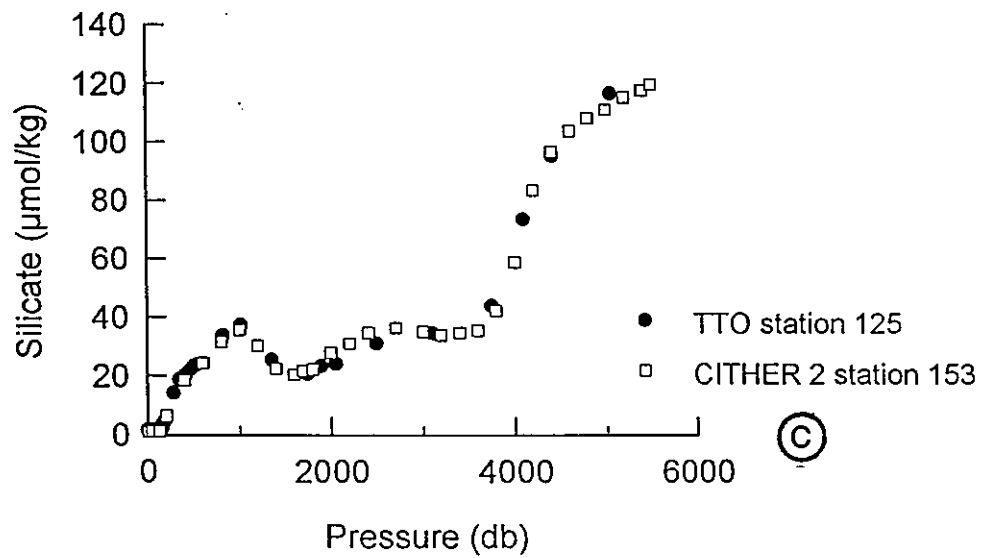
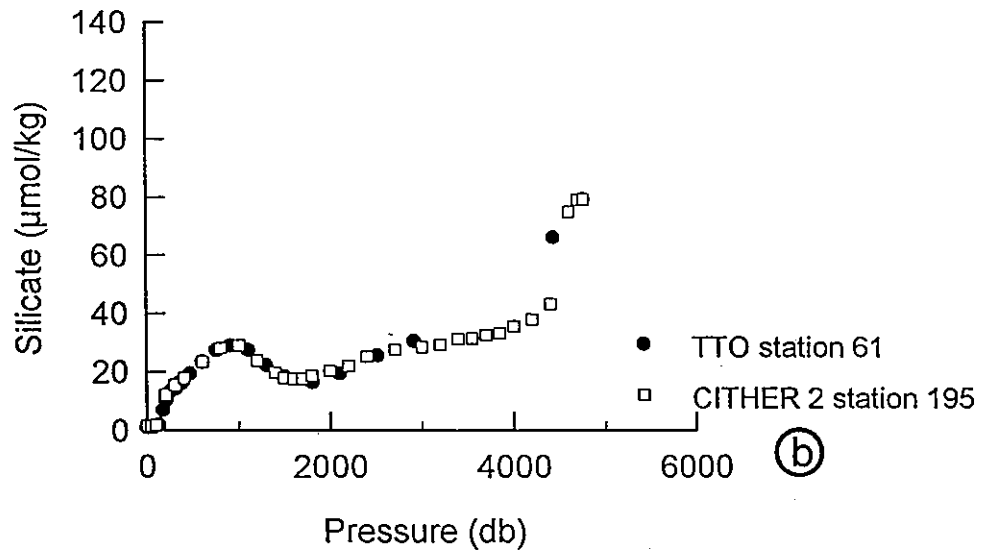
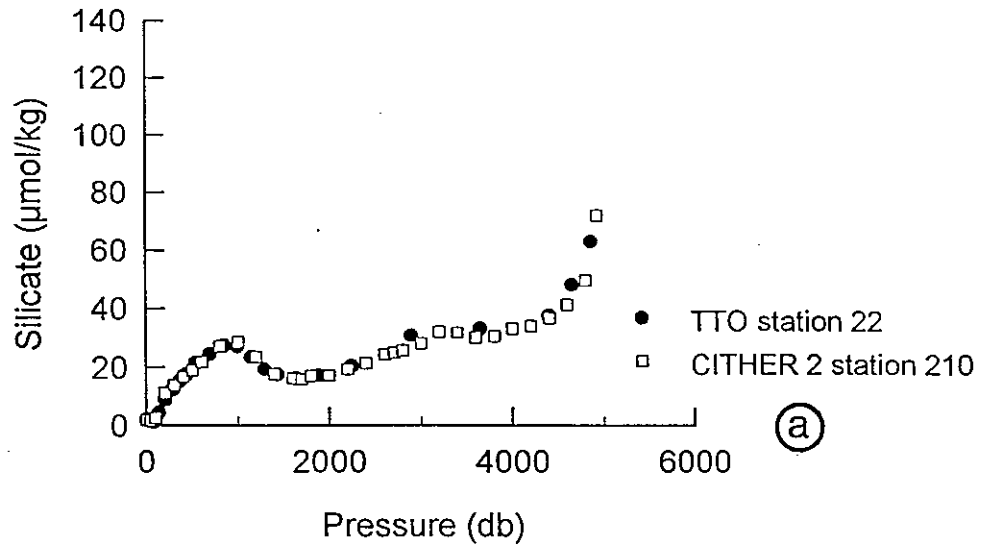


**Figure IV-10:** Comparison of phosphate profiles for the stations occupied at the same geographical position during CITHER 2 and TTO cruises.

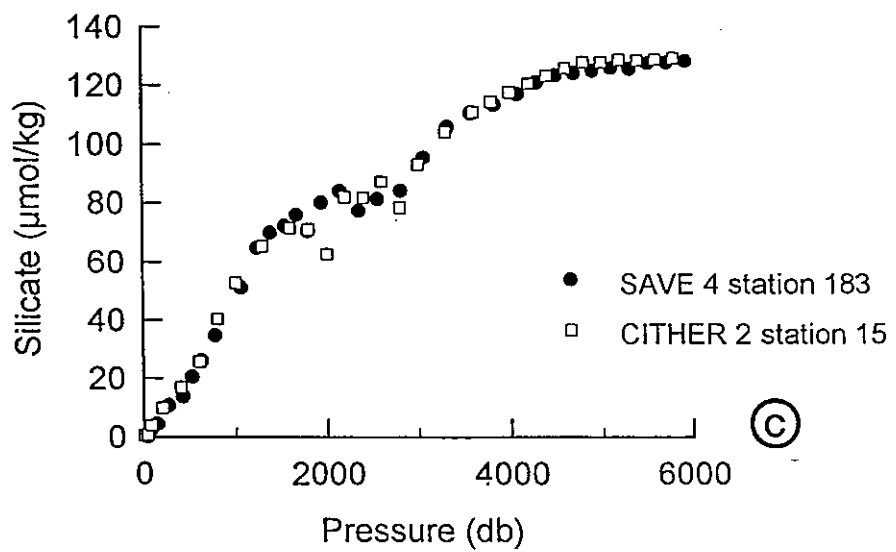
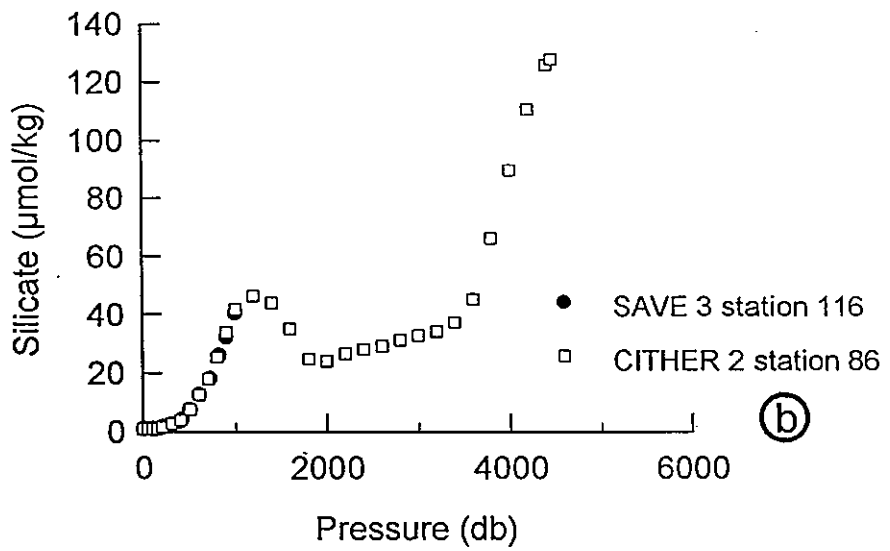
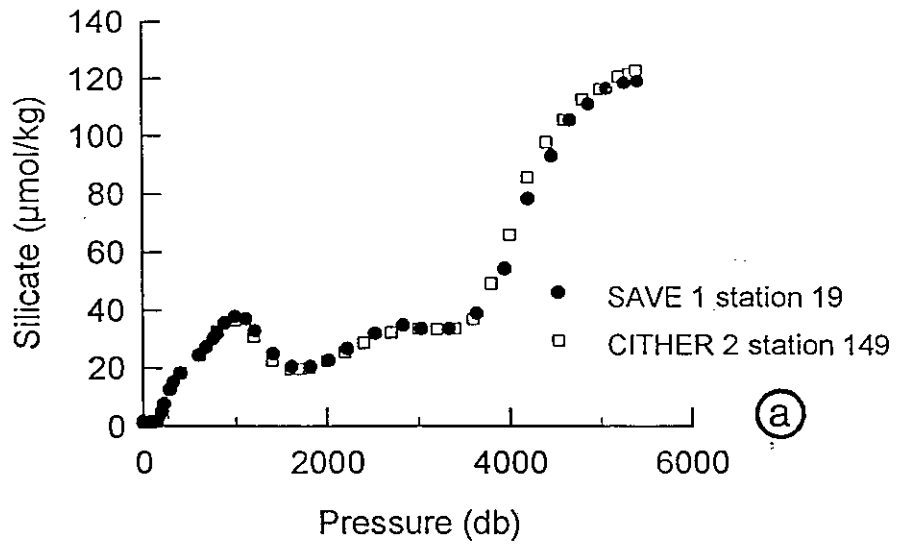


**Figure IV-11:** Comparison of phosphate profiles for the stations occupied at the same geographical position during CITHER 2 and SAVE cruises.





**Figure IV-12:** Comparison of silicate profiles for the stations occupied at the same geographical position during CITHER 2 and TTO cruises.



**Figure IV-13:** Comparison of silicate profiles for the stations occupied at the same geographical position during CITHER 2 and SAVE cruises.

## V - MESURES DES CHLOROFLUOROMETHANES ("fréons")

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### *Participants*

*Une équipe de 3 personnes permanentes (M.J. Messias, L. Memery, S. Chiaoui) plus 2 personnes (M. Levy et A. Fontainhia) ont assuré les prélèvements et les analyses sur la base d'un travail continu organisé par quarts.*

234 stations ont été échantillonnées en chlorofluorométhane (CFMs ou fréons). Normalement, tous les niveaux sur la colonne d'eau ont été échantillonnés, sauf pour une trentaine de stations rapprochées où les niveaux de surface d'une station sur deux n'ont pu être analysés faute de temps. Au total, 6759 échantillons d'eau de mer ont donc été analysés dont 172 doublons et 7 stations test. Les mesures des concentrations atmosphériques en fréons, effectuées tout le long de la campagne, comptabilisent par ailleurs 288 échantillons d'air atmosphérique.

### 1 - PRECAUTIONS D'INSTALLATION ET PREPARATION DU MATERIEL DE PRELEVEMENT

La détermination des faibles concentrations en fréons présentes dans l'eau de mer ( $8 \cdot 10^{-12}$  mole/kg dans les eaux froides de surface les plus riches, à  $10^{-15}$  mole/kg dans les eaux profondes pauvres en CFM) et dans l'atmosphère (centaine de partie par trillion ou ppt ou  $10^{-12}$ ) est particulièrement difficile du fait des problèmes de contamination liés à l'utilisation importante de ces composés à l'état pur dans les activités humaines (bombe aérosol, système réfrigérant, mousses...). Des précautions draconiennes sont à prendre à tous les niveaux (nettoyage et décontamination du matériel avant utilisation, choix de matériaux "non-polluants", choix du laboratoire, suivi des concentrations en fréons dans les locaux utilisés).

Les bouteilles hydrographiques de la rosette ont été lavées à haute pression avec du détergent DEACON. Les caoutchoucs centraux normalement utilisés, ont été remplacés par des ressorts en acier inoxydable au molybdène et reliés aux capuchons des bouteilles par du fil de nylon serti. Les ressorts et le fil de nylon ont été préalablement lavés à l'alcool. Les joints toriques en caoutchouc des bouteilles, le fil de nylon, les joints des robinets ont été étuvés sous vide à 60°C pendant au moins 12 heures afin d'en

désorber les fréons. La graisse silicone des robinets des bouteilles a été éliminée à l'alcool au début de la mission. Notons que vers la fin du premier leg, pour assurer le bon fonctionnement de ces robinets, il a fallu parfois rajouter un minimum de graisse minérale.

Les seringues de prélèvements sont en verre et leur fermeture est assurée par des robinets en métal au verrouillage luer lock. Les robinets sont fournis avec de la graisse au niveau du rodage. Les robinets ont été démontés et nettoyés successivement dans des bains d'acétone puis d'alcool.

Le suivi de la qualité de l'air et la ventilation par de l'air propre marin, ont permis de maintenir des gammes de concentration dans le laboratoire correctes pour des analyses dans de bonnes conditions, comprises entre 620 à 850 ppt en F12 et 410 à 740 ppt en F11 .

## 2 - ÉQUIPEMENT ET TECHNIQUE

Les prélèvements d'eau de mer pour les analyses des fréons ont été collectés les premiers sur les bouteilles hydrographiques par des seringues en verre de 100ml. Les échantillons ont ensuite été stockés, en attendant l'analyse (maximum 8 heures) dans des bacs à circulation d'eau de mer placés près de la rosette. Les prélèvements d'air atmosphérique, également réalisés via les seringues en verre, ont été effectués face au vent et analysés immédiatement après.

Les mesures des chlorofluorométhanés F11 (trichlorofluorométhane) et F12 (dichlorofluorométhane) ont été réalisées à bord suivant la méthode décrite par Bullister (1988). La chaîne d'analyse est celle qui a déjà été utilisée lors de la campagne *Romanche 1*. Les échantillons d'eau de mer (quantité calibrée d'environ 30 ml) sont dégazés par bullage du gaz vecteur (95% Argon/5% Méthane). Les fréons extraits des échantillons d'eau de mer ou contenus dans les échantillons atmosphériques sont ensuite piégés sélectivement à -40°C pendant 4 minutes sur une colonne *Porasil C-Porapak T*. Après un dépiégeage à + 100°C, ils sont séparés et mesurés par chromatographie en phase gazeuse à détecteur à capture d'électron (*GC-8A Shimadzu*).

L'acquisition et le traitement des signaux du chromatographe sont informatisés grâce au logiciel *Winner on Windows* sur un micro-ordinateur couplé à la chaîne d'analyse.

## 3 - CALIBRATIONS ET STANDARDS

La concentration des fréons F11 et F12 est déterminée à partir de l'aire des pics par étalonnage externe par rapport à un standard secondaire "atmosphérique". Les courbes de calibration (polynomiales et passant par l'origine) sont ajustées à partir de l'injection de 5 volumes différents de gaz

standard choisis pour couvrir l'étendue des concentrations rencontrées sur les échantillons océaniques (figure V-1). En moyenne au moins 2 courbes de calibration par jour ont été réalisées.

Les volumes calibrés sont les suivants :

- volumes des boucles externes d'injection de gaz = 1.010 cm<sup>3</sup> et 2.962 cm<sup>3</sup>
- volumes calibrés pour les injections d'eau de mer = 26.995 cm<sup>3</sup> , 29.787 cm<sup>3</sup> et 34.319cm<sup>3</sup>

Les concentrations obtenues en pmol/l sont converties en pmol/kg en utilisant la salinité de l'échantillon et la température des bacs de stockage des échantillons (déterminant normalement la température de l'échantillon).

#### *Suivi de la stabilité du standard secondaire*

Le standard "atmosphérique" secondaire AL92 utilisé pendant la campagne correspond à de l'air comprimé du commerce fourni dans une bouteille en acier par AIR LIQUIDE en 1992. Des tests de répétabilité des mesures d'échantillons standard pendant la campagne ont montré des écarts inférieurs à 0,3% pour F11 et F12, ce qui est tout à fait satisfaisant. Selon les recommandations *WOCE*, au moins deux calibrations de ce standard secondaire par rapport à un standard primaire fourni par la Scripps Institution of Oceanography (échelle SIO 1986) ont été réalisées, l'une avant (décembre 1993) et l'autre après la campagne (novembre 1994). Les résultats de la calibration du standard secondaire AL92 par rapport au standard primaire SIO (F12= 592,4 ± 1,2 ppt et F11= 315,2 ±0,5 ppt) sont reportés sur le tableau ci-après. Les écarts pré-post campagne en F11 et F12 ne sont pas significatifs et montrent une bonne stabilité du standard secondaire. Nous avons retenu comme teneur du standard 599,1 ppt en F12 et 327 ppt en F11 correspondant à la valeur obtenue lors de la calibration effectuée en décembre 1993 et plus proche dans le temps de la mission CITHER 2.

**Tableau V-1** : Suivi de l'évolution des concentrations en fréons du standard atmosphérique AL92.

Date	Mesures	F12(ppt)	±	F11(ppt)	±
sept. 1993	10	598,8	0,5%	326,7	0,2%
déc. 1993	10	599,1	0,4%	327,0	0,2%
nov. 1994	10	600,2	0,4%	327,0	0,3%

#### 4 - SUIVI DES TENEURS ATMOSPHERIQUES

Des prélèvements d'air ont été réalisés quotidiennement pour assurer un suivi des teneurs atmosphériques (figure V-2) et une estimation ultérieure des écarts à la solubilité théorique des concentrations en fréons mesurées en surface. Un gradient méridien est observé tout le long de la campagne lié à une différence de l'activité industrielle dans l'hémisphère nord et l'hémisphère sud et ceci malgré un rapide mélange à l'échelle globale de la basse atmosphère. Estimé autour de 10% entre 10°N et 10°S (WARNER, 1988) lors des campagnes *TTO/TAS* en 1983 (*Transient Tracer Ocean/Tropical Atlantic Study*), nous avons observé une diminution de ce gradient de l'ordre de 5% entre 50°S et 5°N durant la campagne CITHER 2. Les mesures de fréons (figure V-2) à 4°30'S et 7°30'N comparées à celles obtenues lors de la campagne CITHER 1 (F12 = 508,3 ppt et F11 = 272,4 à 4°30'S et F12 = 513,8 et F11 = 276,0 à 7°30'N ; Le Groupe Cither 1, 1994) à la même latitude, montrent une faible augmentation de la teneur en F12 et une stabilisation de la teneur en F11. Ceci traduit la diminution des émissions industrielles en fréons notamment dans l'hémisphère nord ces dernières années, suite au Protocole de Montréal (accords de 1975 et 1988), et ayant aboutit en 1993/1994 à une augmentation annuelle moyenne de +0,5% en F12 et une stabilité en F11 des concentrations atmosphériques (communication R.F. Weiss, 1995).

#### 5 - ÉVALUATION DE LA PART DE CONTAMINATION DES BOUTEILLES ET LIMITE DE DETECTION

Un point critique dans l'analyse des fréons réside dans le contrôle et l'estimation de la part de contamination (= blanc, essentiellement dû aux bouteilles de prélèvement) qui doit être retranchée aux valeurs brutes mesurées. Cette estimation se fait à partir de stations "test" où les bouteilles sont toutes fermées à une même profondeur, supposée correspondre à une masse d'eau "sans fréon" (masse d'eau ayant été équilibrée avec l'atmosphère avant l'introduction anthropogène des fréons). Se situant sur le bord Ouest de l'Atlantique Sud, "chemin" privilégié des masses d'eau profondes récemment ventilées et donc marquées en fréons, la campagne CITHER 2 a présenté peu d'opportunité de faire ce type de test dans de l'eau de mer sans fréon. La station test 116 (Tableau V-2) prélevée dans des eaux apparemment dépourvue de fréons est celle retenue pour l'évaluation de la contamination pour l'ensemble de la campagne avec  $0,003 \pm 0,002$  pmol/l en F12 et de  $0,007$  et  $\pm 0,003$  pmol/l en F11 soit, une limite de détection de la méthode de  $0,003$  pmol/l pour F12 et F11.

Tableau V-2 : Niveaux de concentrations moyens et écarts types associés obtenus pour les stations test.

Stations test	Date	F12 (pmol/l)	±	F11(pmol/l)	±	Mesures
0 (3000m)	6/01	0,05	0,008	0,06	0,01	25
1 (3000m)	8/01	0,045	0,006	0,06	0,004	13
2 (500m)	9/01	2,190	0,8	4,140	0,6	21
42 (2900m)	21/01	contamination de la chaîne d'analyse				
116 (3000m)	10/02	0,003	0,002	0,007	0,003	32
211 (3000m)	15/03	0,008	0,002	0,011	0,002	32

## 6 - PRÉCISION DES MESURES

La précision des mesures est appréciée comme la répétabilité des résultats :

- des stations test où plusieurs bouteilles sont fermées au même niveau (tableau V-2)
- des doublets effectués en moyenne à chacune des stations en fermant deux bouteilles au même niveau.

Les stations test effectuées ont permis de vérifier la bonne répétabilité des mesures sur toutes les bouteilles à une même station. Les forts écarts à la moyenne des concentrations observées en début de campagne à la station 0 et 1 (de  $\pm 0,008$  à  $\pm 0,006$  en F12 et  $\pm 0,01$  à  $\pm 0,004$  pmol/l en F11) sont dus au fait que les bouteilles de prélèvement nécessitent plusieurs rinçages successifs avant d'être "propres". La diminution des écarts à la moyenne des concentrations entre les stations 0, 1 puis 116 et 211 montre l'effet de ces rinçages qui nettoient les bouteilles lors de leur utilisation. Les mesures des stations tests 116 et 211, prélevées dans des eaux profondes sont reproductibles à  $\pm 0,002$  pmol/l en F12 et  $\pm 0,003$  pmol/l en F11. La station test 2 a été effectuée dans des eaux de surface. Les écarts des concentrations mesurées à la moyenne sont inférieurs à 1 % pour les fréons F11 (0.8%) et F12 (0.6%). Ces résultats sont tout à fait satisfaisants notamment en début de campagne.

Les niveaux de prélèvement des doublets étaient répartis entre le fond et la surface et échantillonnaient donc toute la gamme de mesure. La figure V-3 présente les écarts obtenus entre les doublets. La répétabilité moyenne pendant toute la campagne obtenue à partir des doublons est de  $\pm 0.005$  pmol/l pour F12 et F11 (figure V-3-a). En considérant les doublets effectués à une pression supérieure à 1000 dbars (figure V-3-b), les écarts sont plus importants, en relation aux fortes concentrations mesurées, et l'incertitude sur les mesures en F11 et F12 pour les eaux de surface reste meilleure que 1%, en accord avec les recommandations WOCE ( $< \pm 0.02$  pmol/l en F11 et  $< \pm 0.01$  pmol/l en F12 pour les concentrations les plus élevées, mesurées dans les eaux froides de surface).

Par ailleurs, la comparaison des stations 142/115 et 210/220 répétées à la même position géographique à des dates différentes atteste de la qualité des mesures et de leur reproductibilité (figure V-4).

## 7 - VALIDATION

Les valeurs hors gamme (comparativement à la moyenne des valeurs rencontrées pour une masse d'eau définie et pour des stations proches) sont rejetées. Les données ont été individuellement vérifiées par comparaisons des profils F11 et F12. Certaines données pour lesquelles les valeurs semblent problématiques sont affichées d'un code de qualité "d".

D'éventuelles corrections sont à attendre après confrontations avec toutes les données d'hydrologie et exploitation des résultats.

*Remarque : Les profils dans ce rapport utilisent une échelle logarithmique en abscisse afin de pouvoir illustrer sur le même graphe les teneurs de surface et les teneurs des eaux profondes (jusqu'à 100 fois plus faible).*

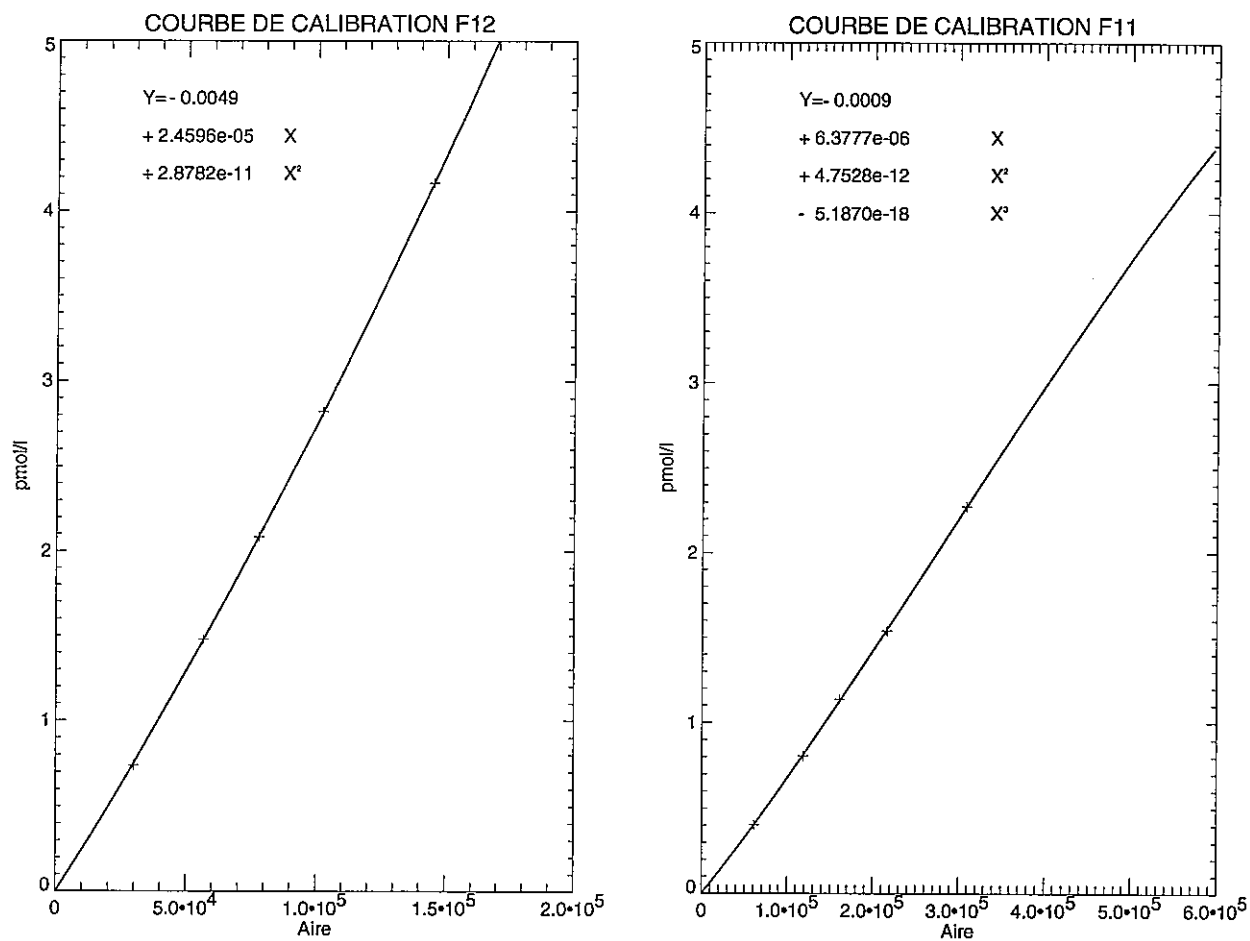
## 8 - RÉFÉRENCES BIBLIOGRAPHIQUES

**Bullister, J. L. and R.F. Weiss, 1988.** Determination of  $\text{CCl}_3\text{F}$  and  $\text{CCl}_2\text{F}_2$  in seawater and air, *Deep Sea Research*, 35 (5), 839-853.

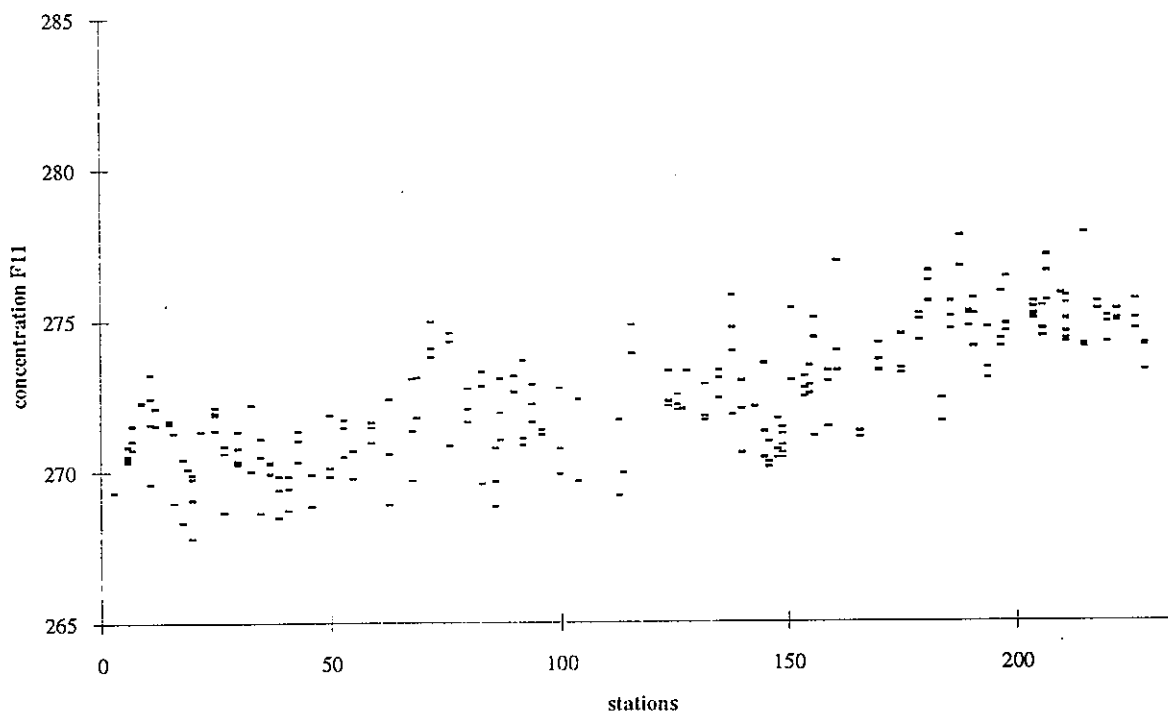
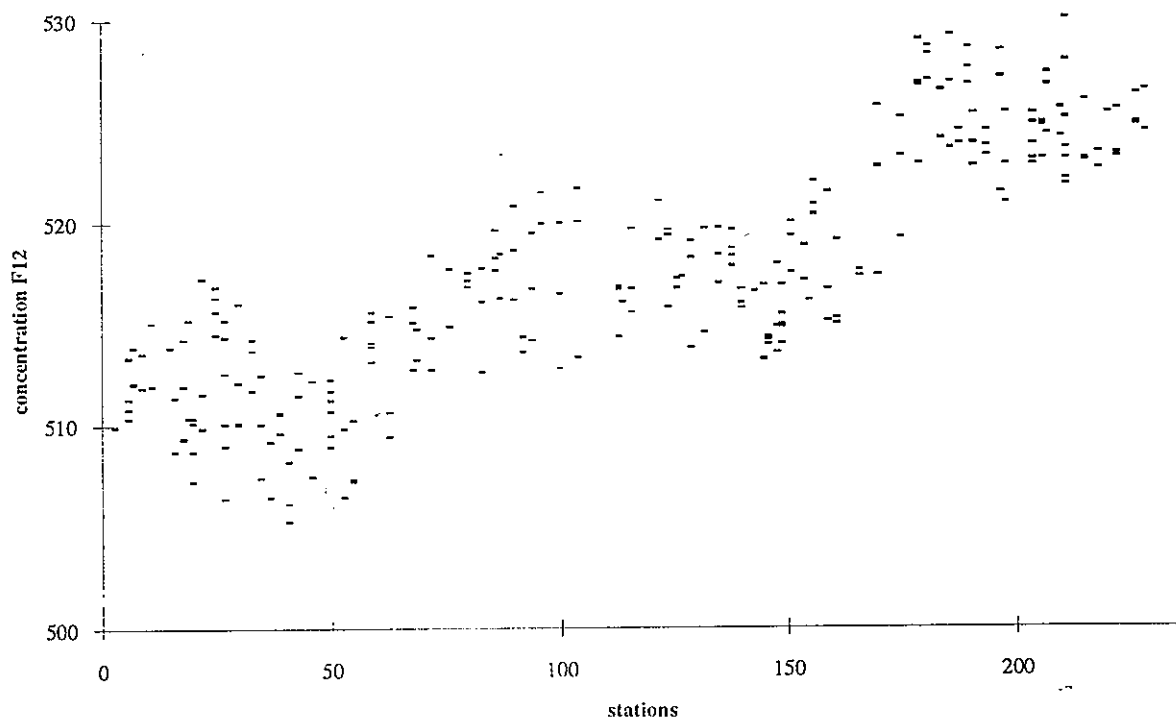
**Le Groupe Cither 1, 1994.** Campagne Cither 1 (2 janvier- 19 mars 1993) - Recueil de données, volume 3/4, *Documents Scientifiques du Centre de ORSTOM de Cayenne, O.P. 15*, 67-77.



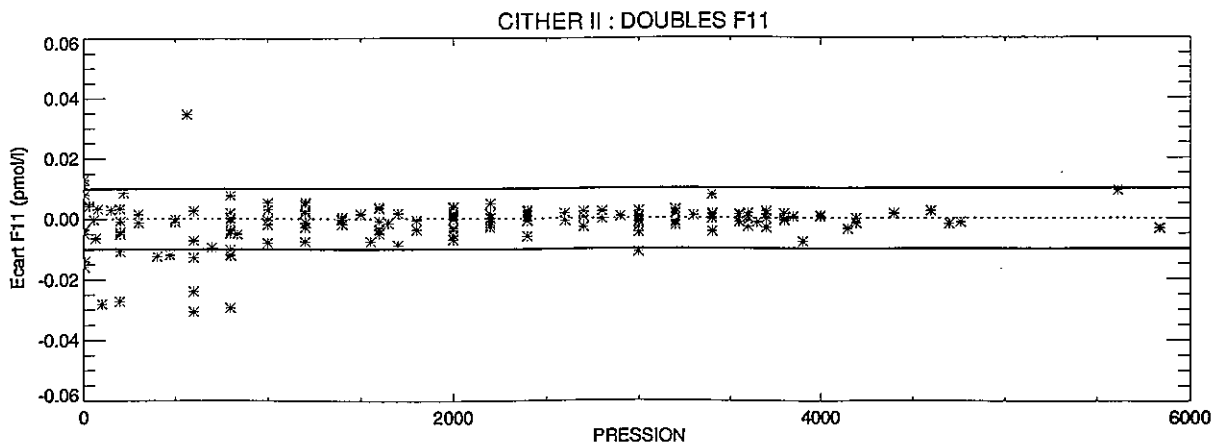
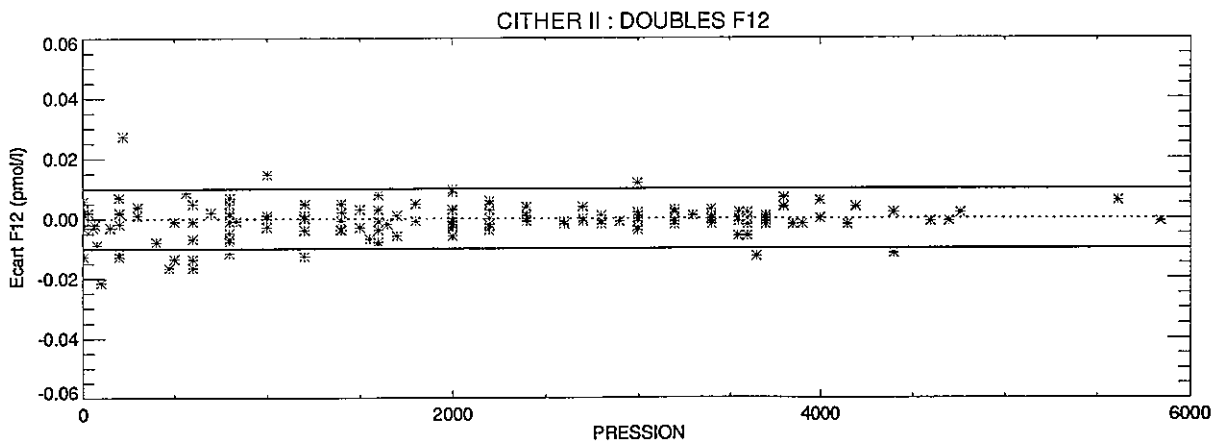
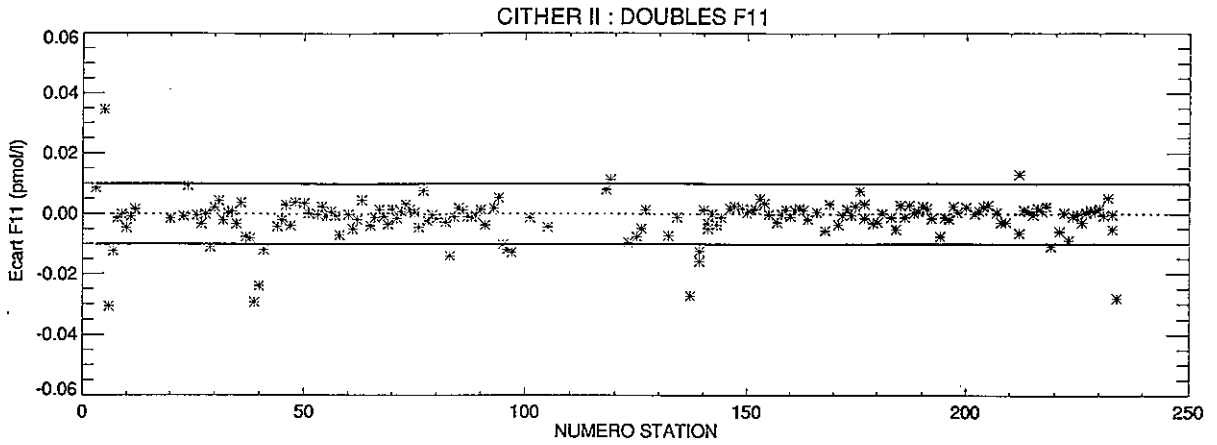
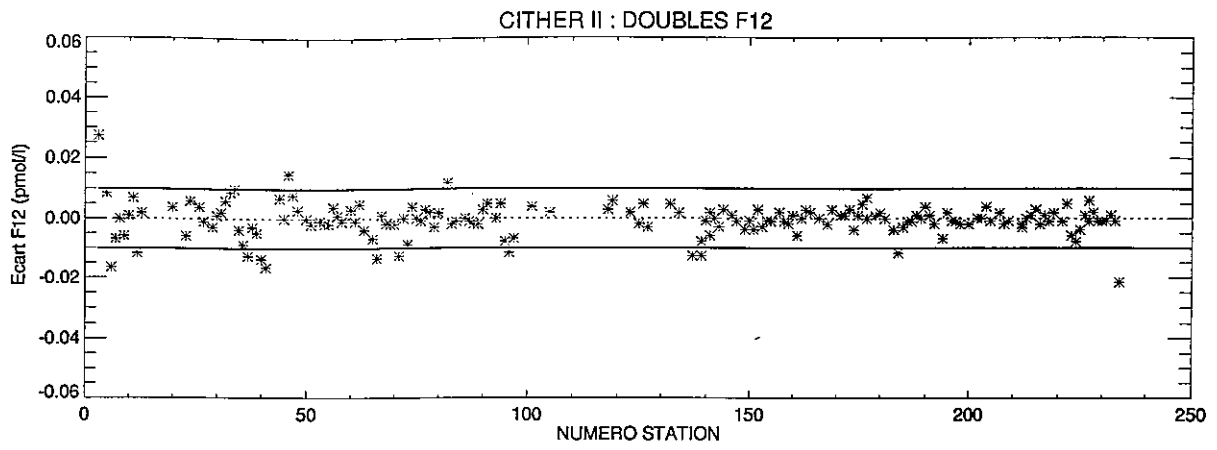
STATION 235



**Figure V-1 :**  
Exemples de courbes de calibration obtenues pour les fréons F12 et F11 (station 235).



**Figure V-2 :**  
 Distributions des teneurs atmosphériques brutes (blancs non retranchés) des fréons F12 et F11 en ppt pendant la campagne CITHER2.



**Figure V-3 :**  
 Écarts en F12 et F11 mesurés sur deux bouteilles fermées au même niveau:  
 a) en fonction du numéro de station à laquelle est réalisé le doublet.  
 b) en fonction de la pression à laquelle est réalisé le doublet.

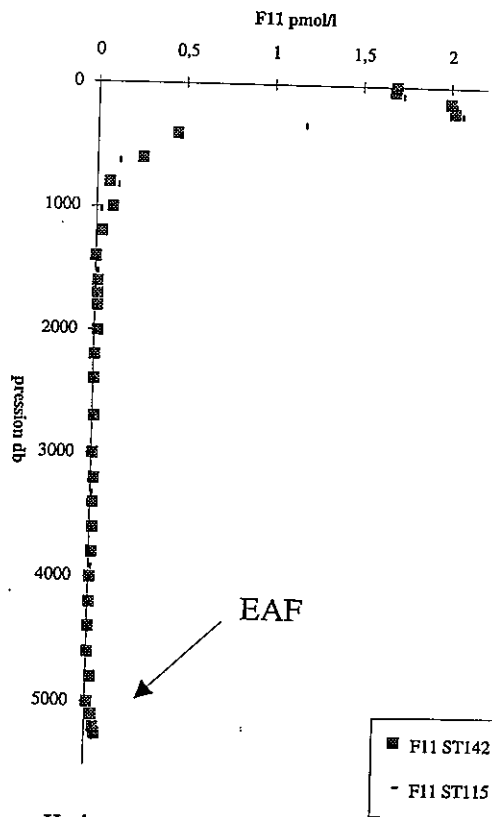
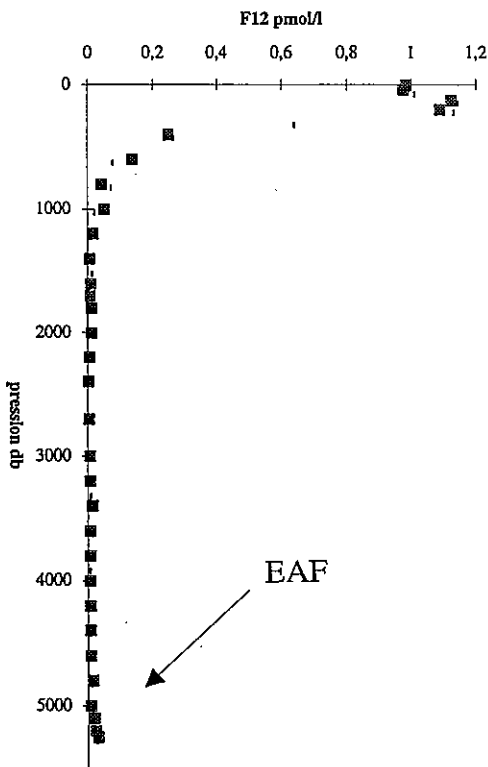
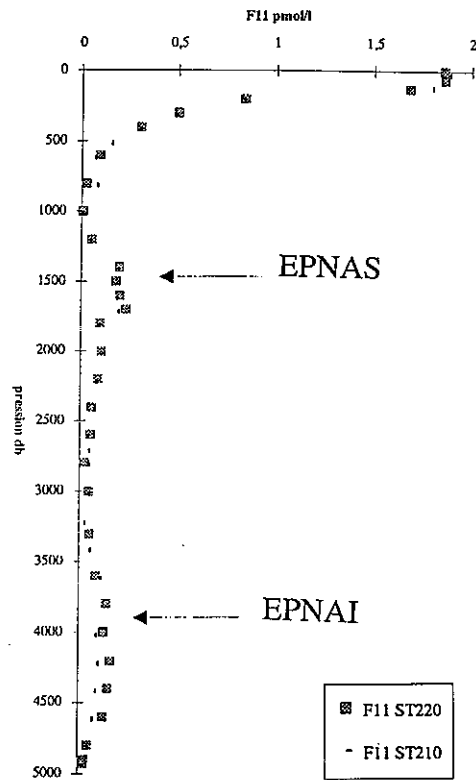
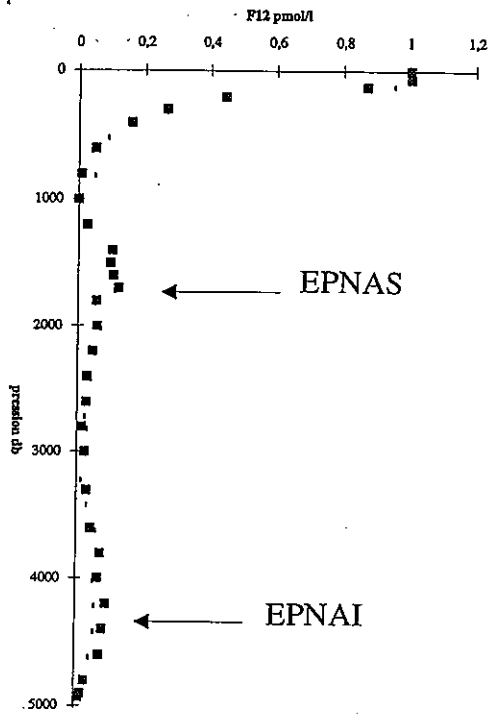


Figure V-4 :

Profils comparés en données brutes de F11 et F12 des stations 142/115 et 210/220 répétées à la même position géographique. On observe :

- stations 142/115, les signaux de l'Eau Profonde Nord Atlantique Supérieure (EPNAS) vers 1600 dbars et Inférieure (EPNAI) vers 4000 dbars progressant vers le sud
- stations 210/220, les signaux de L'Eau Antarctique de Fond (EAF) progressant vers le nord vers 5000 dbars de profondeur.

## VI - CARBON SYSTEM

Four variables define the carbon system : pH, alkalinity, partial pressure of carbon dioxide ( $p\text{CO}_2$ ) and total inorganic carbon (TIC). Knowing two of these variables it is possible to calculate the other two by means of some equations deduced of the thermodynamic equilibria. During the Cither 2 cruise TIC was analyzed directly by coulometric method (Section 1) and pH and alkalinity were measured by potentiometric methods (Section 2). Using the equations of Mehrbach et al. (1973) and Weiss (1974) TIC and  $p\text{CO}_2$  were calculated. A comparison between TIC calculated by these equations and TIC analyzed directly is shown in Section 3. Surface  $p\text{CO}_2$  (Section 4) was calculated also using the former equations. Total organic carbon was also analyzed at eight stations (Section 5).

### 1 - TOTAL INORGANIC CARBON MEASUREMENTS

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#### 1.1 - Equipment and Techniques

Seawater samples were collected at 87 of 145 stations to provide full profiles of total inorganic carbon ( $C_T$ ) data. Samples were collected from a depth of 200 meters to the surface at eight stations and from a depth of 1000 meters to the surface at 50 stations to provide upper water column  $C_T$  data. Station sampling information appears in Table VI-1.

Seawater samples for  $C_T$  were collected following the procedure described in the *DOE CO<sub>2</sub> Analysis Handbook* in 500 ml ground-glass stoppered bottles. Samples were preserved immediately after collection by adding 100  $\mu\text{l}$  of a saturated mercuric chloride solution to prevent biological production or consumption of  $\text{CO}_2$ . Samples were filled to overflowing, preservative was added well below the surface and the bottles were immediately stoppered, providing zero headspace. High-vacuum grease was not used to seal the samples. The samples were then stored in covered plastic boxes in a cool, dark place prior to analysis. Most samples were analyzed within 14 hours of collection. The  $C_T$  concentration was measured using a Single Operator Multi-Parameter Metabolic Analyzer (SOMMA) (Johnson et al., 1987, 1993) coupled with coulometric detection (*DOE CO<sub>2</sub> Analysis Handbook*). The seawater sample was drawn into a calibrated pipette and dispensed into a stripping chamber, where it was acidified with 8.5% phosphoric acid. The resultant  $\text{CO}_2$  was carried into a coulometric cell with  $\text{N}_2$  gas(99.95%) where it was absorbed by and reacted with ethanolamine in dimethylsulfoxide (DMSO). This reaction produced hydroxyethylcarbamic acid, causing a pH

change and resultant color change (from dark blue to colorless) in the thymolphthalein indicator in the solution. Light transmission of the solution was monitored continuously by a photodetector, electronically connected to the coulometer. The color change caused the coulometer to initiate a current that passed through the cell, reacting with water to produce hydroxyl (OH<sup>-</sup>) ions. The OH<sup>-</sup> produced titrated the hydroxyethylcarbamic acid, returning the solution to a dark blue color (i.e. the original pH). The computer program calculated the amount of current passed through the cell and with titration time, as related by the Faraday constant, calculated the number of moles of OH<sup>-</sup> required to titrate the acid. This number was then used to calculate the number of moles of CO<sub>2</sub> absorbed to form the acid. Results are expressed as μmoles/kg.

**Table VI-1. Station sampling information**

Total Inorganic Carbon

	Number of stations
Full Profiles	87
0-1000 m	50
0-200 m	8

## 1.2 - Calibration and Corrections

Following the analysis of one full profile and one partial profile, the coulometer cell was removed from the coulometer, the contents were discarded and the cell was cleaned by drawing 20 ml of acetone through the frit from the cathode side to the anode side, followed by an equal amount of deionized water. This procedure was repeated once more in the opposite direction. The cell was dried thoroughly in a drying oven. The anode was scrubbed with steel wool and both the cathode and anode were rinsed with deionized water and dried in a drying oven. Ethanolamine in DMSO (100 ml) was added to the cathode chamber and 20 ml of potassium iodide in DMSO was added to the anode chamber of a clean, dry cell. A few crystals of potassium iodide were added to the anode chamber to maintain saturation. A cathode and anode were placed in the cell and the cell positioned on the coulometer to achieve maximum transmittance. The current was turned on and the cell was allowed to equilibrate (*DOE CO<sub>2</sub> Analysis Handbook*). Certified reference materials (CRMs) obtained from Dr. Andrew Dickson, were analyzed as calibration check standards at a rate of one CRM every thirty samples (Figure VI-1). The CRM results show an overall average of  $2116.55 \pm 2.01$  μmoles/kg with increased variability toward the end of the cruise. Stations 198 through 235 were examined for higher than expected results and flagged accordingly. The coulometer was calibrated at sea a minimum of every ten samples by dispensing a known mass of CO<sub>2</sub> gas (99.995%) (Wilke et al., 1993) from a pair of calibrated gas sample loops (small loop = 1.3069 ml; large loop = 1.8245 ml) according to the procedures described in the *DOE CO<sub>2</sub> Analysis Handbook*. The CO<sub>2</sub> gas was released into an acidified stripper where it was carried to the coulometric cell with N<sub>2</sub> gas (99.95%). The CO<sub>2</sub> was then titrated

as described above. The gas loop calibration data (calfactor in counts/mole ; equation 1) were averaged by cell, providing one calfactor for calculation of data generated with each cell (Figure VI-2). The average calfactor for the entire cruise was  $4.7719 \times 10^{19}$  per mole with a standard deviation of  $\pm 0.0025 \times 10^{19}$  per mole.

(1) Calculation of gas sample loop calibration (*DOE CO<sub>2</sub> Analysis Handbook*) :

$$\text{Calfactor (counts/mole)} = \frac{c - (b * t)}{n(\text{CO}_2)}$$

where:  $c$  = coulometer reading for the gas sample (counts)  
 $b$  = background level (counts/min)  
 $t$  = titration time (min)  
 $n(\text{CO}_2)$  = the amount of CO<sub>2</sub> dispensed from the loop (mol)

Usually, the SOMMA is operated as a closed system, using valve 11 to determine the barometric pressure. Because the SOMMA's pinch valve 11 (going to the barometer) was not functioning properly, we bypassed valve 11, operating the SOMMA as an open system. As a closed system, the gas sample loop recovery difference averaged 0.09%; as an open system, the gas sample loop recovery difference averaged 0.17%.

The SOMMA pipette was calibrated in the laboratory prior to the beginning of the cruise and again weekly while at sea. Calibration of the pipette was accomplished by rinsing the pipette three times, then filling the pipette completely with deionized water. The pipette contents were dispensed into a 10 ml serum bottle, capped with a rubber stopper and sealed with aluminum using a crimper. Calibrations performed in the laboratory were weighed and recorded immediately. Calibrations performed at sea were stored in boxes until they could be weighed and recorded in the laboratory. The mass of each pipette calibration was calculated from the calibration weight using equation 2. The mass obtained from each calibration was converted to volume at a given temperature using equation 3. The volume delivered was calculated using equation 4. The pipette calibration volumes are shown in Figure VI-3. An average volume of  $28.9315 \pm 0.0117$  ml was obtained and used to calculate the C<sub>T</sub> concentration in each sample using equation 5.

$$(2) \quad m(\text{DI}) = w(\text{DI}) * \frac{(1 - p(\text{air}) / p(\text{weights}))}{(1 - p(\text{air}) / p(\text{sample}))}$$

where:  $m$  = mass in grams  
 $w$  = weight in grams  
 $p(\text{air}) = 0.0012 \text{ g/cm}^3$   
 $p(\text{weights}) = 8 \text{ g/cm}^3$   
 $p(\text{sample}) = \text{density of the sample in g/cm}^3$

(3)  $V(t) = m(\text{DI}) / \rho(\text{DI}, t)$

where:  $V(t)$  = volume at a given temperature

(4)  $V(t_2) = V(t_1) \{1 + a_v (t_2 - t_1)\}$

where:  $V(t_2)$  = volume delivered at one temperature

$V(t_1)$  = volume delivered at an alternate temperature

$a_v$  = coefficient of volumetric expansion ( $\text{Å}^{-3} \text{Å}^3$ )

(5)  $C_T = \text{Calfactor} * \mu\text{mol } C(\text{meas}) * (1000/\rho(\text{sample}) * V)$

where:  $\rho(\text{sample})$  = density of the sample ( $\text{g}/\text{cm}^3$ )

$V$  = pipette volume (ml)

### 1.3 - Precision

Replicate samples were collected at-sea and analyzed by Dr. Peter Guenther at Scripps Institution of Oceanography. The average relative difference for all replicates analyzed was 0.21%. Results appear in Table VI-2.



Table VI-2. C<sub>r</sub> Replicate Results

Station	Cast	Niskin	Depth	At-Sea analysis	SIO Analysis	RPD (%)
12	1	14	3036	2259.39	2260.48	0.17
30	1	13	3048	2210.31	2217.38	0.41
30	1	32	2	2024.69	2027.72	0.23
63	1	10	3060	2207.34	2209.67	1.24
63	1	32	4	2030.89	2034.28	0.29
93	1	12	2674	2171.02	2173.42	0.22
93	1	32	0	2059.74	2062.25	0.23
114	1	13	3044	2179.56	2184.92	0.33
114	1	32	0	2061.08	2059.25	0.00
145	1	14	3051	2176.39	2181.92	0.34
163	1	12	3248	2179.63	2180.82	0.07
163	1	32	0	2002.12	2001.88	0.00
179	1	32	0	2017.07	2018.74	0.08
191	1	11	3049	2172.09	2174.80	0.18
204	1	32	0	2019.58	2021.04	0.10
210	1	32	0	2020.95	2019.84	0.01
215	1	11	3051	2179.51	2180.43	0.14
215	1	32	0	2026.14	2025.71	0.07
223	1	32	5	2022.29	2021.35	0.07
228	1	6	3061	2175.59	2179.40	0.17
228	1	32	0	2019.37	2019.70	0.01

N/A = Not available

Duplicates consisted of two samples collected sequentially from one Niskin bottle. A duplicate was collected at the surface and the bottom of each full profile station and at the surface at each partial profile station. Each duplicate was analyzed at-sea. Figure VI-4 shows the relative percent difference (RPD) calculated for each pair of duplicates vs time in Julian date. The average relative difference for the cruise was 0.080%.

#### 1.4 - References

“Handbook of Methods for the Analysis of the Various Parameters of the Carbon Dioxide System in Sea Water”, Dickson, A.G., and Goyet, C., editors, USDOE SRGP-89-7A, Version 2.0, 1994.

Johnson, K.M., P.J. leB. Williams, L. Brändström, and J. McN. Sie3burth (1987). Coulometric TCO<sub>2</sub> analysis for marine studies : Automation and calibration. *Marine Chemistry*, 21:117-133.

Wilke, R.J., D.W.R. Wallace, and K.M. Johnson (1993). Water-Based, Gravimetric Method for the Determination of Gas Sample Loop Volume. *Analytical Chemistry*, 65:2403-2406.

## 2 - pH AND ALKALINITY MEASUREMENTS

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### 2.1 - Equipment and Techniques

#### 2.1.1 - pH

At each station, seawater samples were collected for pH in 50 ml plastic bottles after alkalinity sampling, following the WOCE sequence. Samples were filled to overflowing and immediately stoppered.

A Metrohm 654 pH meter with a Metrohm 6.0233.100 combination glass electrode was used to determine pH. The standardization procedure of pH measurements was : 1) calibrate the combined electrode with the pH 7.413 NBS buffer solution, 2) check the electrode response with a pH 4.008 NBS buffer as described by Pérez and Fraga (1987a), 3) adapt the electrode to the strong ionic strength of sea water by means of a pH 4.4 sea water buffer containing 4.0846 g of  $C_8H_5KO_4$  and 1.52568 g of  $B_4O_7Na_2 \cdot 10H_2O$  (borax) in 1 kg of sea water purged of  $CO_2$ .

Temperature was measured with a Pt-100 probe and pH values were normalized to 15 °C ( $pH_{15}$ ).

#### 2.1.2 - Alkalinity

Following the sequence of sampling proposed by WOCE, seawater samples for alkalinity were collected after TIC sampling, in 300 ml plastic bottles. Full profiles were analyzed at 89 stations and the surface water at each station.

Alkalinity was measured using an automatic potentiometric titrator "Titrino Metrohm", with a separate glass electrode and a reference electrode. Potentiometric titrations were carried out with hydrochloric acid (HCl) to a final pH of 4.44 (Pérez and Fraga, 1987b). The electrodes were standardized using NBS buffer of pH 7.413 and checked using an NBS buffer of 4.008. As for pH measurements, a pH 4.4 buffer, made in sea water, was used to adapt the electrodes to the strong ionic strength of sea water. Concentrations are given in micromol/kg-sw.

### 2.2 - Calibrations and Corrections

#### 2.2.1 - $pH_{15}$

In order to determine the systematic errors produced by variations of residual liquid-junction potential by estimating the apparent activity coefficient of hydrogen ions, two titration curves for sea water with hydrochloric acid, at salinity 34.655 and temperature 25.7°C, were made at the end of the cruise, according to Culberson (1981). The curves were linearized and a mean value of  $0.026 \pm 0.001$  was obtained from the inverse slope. The  $pH_{15}$  results have been corrected by adding this experimental value.

The pH is (pH isoelectric) is the pH recorded at zero potential. This pH is can vary because of the real variations of the electrode, changes in the buffer and/or an error during the calibration. The electrode variation is continuous showing an evolution that is shown in figure VI-5. The anomalies from each calibration and the regressions shown in figure VI-5 have been used to correct the  $pH_{15}$  results obtained.

### **2.2.2 - Alkalinity**

Each week, during the cruise, nineteen titration curves were obtained for sea water with hydrochloric acid, according to Culberson (1981), in order to determine the systematic errors produced by variations of residual liquid-junction potential. The curves were linearized and the values obtained from the inverse slope ( $f_{ij}$ ) are shown in table VI-3, representing the pH difference between the activity coefficients of our electrode and those given by Mehrbach et al. (1973) at the same salinity and temperature with their electrode. The final pH of titrations was corrected adding these differences (Table VI-3) to allow comparison with results calculated using the Mehrbach equations.

Alkalinity analysis of 146 Dickson reference materials (batch 18) were made during the cruise to verify the alkalinity analyses. Table VI-4 shows the alkalinities of Dickson reference materials analyzed and once corrected with Culberson curves. Alkalinity results have been averaged for each station. Surface seawater, stored in 25 liters plastic containers, was used as a standard. These standards were analyzed at the beginning and end of each station in order to verify the calibrations.

**Table VI-3 : Results for pH values corresponding to the inverse slope calculated from linearized Culberson curves linearized used to correct the total alkalinity system.**

Number	Date	Salinity	T (°C)	Slope	$f_H$	$f_M$	$-\text{Log}(f_H/f_M)$
1	13-Jan	34.344	23.3	1.358	0.736	0.689	0.029
2	13-Jan	34.344	23.1	1.356	0.738	0.690	0.029
3	21-Jan	34.308	23.8	1.357	0.737	0.686	0.031
4	21-Jan	34.308	23.4	1.344	0.744	0.688	0.034
5	31-Jan	34.414	23.9	1.368	0.731	0.686	0.028
6	31-Jan	34.414	24.1	1.373	0.728	0.684	0.027
7	31-Jan	34.414	24.1	1.373	0.728	0.684	0.027
8	06-Feb	34.573	28.4	1.495	0.669	0.660	0.006
9	06-Feb	34.573	28.1	1.488	0.672	0.661	0.007
10	10-Feb	34.573	28.2	1.387	0.721	0.661	0.038
11	10-Feb	34.573	28.2	1.387	0.721	0.661	0.038
12	25-Feb	34.513	27.8	1.369	0.730	0.663	0.042
13	25-Feb	34.513	28.0	1.372	0.729	0.662	0.042
14	4-Mar	34.560	25.5	1.345	0.744	0.677	0.041
15	4-Mar	34.560	26.0	1.344	0.744	0.674	0.043
16	11-Mar	34.624	26.5	1.356	0.737	0.671	0.041
17	11-Mar	34.624	26.5	1.366	0.732	0.671	0.038
18	20-Mar	34.655	25.6	1.306	0.766	0.676	0.054
19	20-Mar	34.655	25.4	1.295	0.772	0.677	0.057

$f_H = 1/\text{slope} = \text{activity coefficient of our electrode}$

$f_M = \text{activity coefficient according to Mehrbach et al. (1973)}$

$-\text{Log}(f_H/f_M)$  is the difference between both activity coefficients, used to correct the final pH titrations

**Table VI-4 : Alkalinities of Dickson reference material analyzed and after correction using the Culberson curves. Stations indicate when Dickson alkalinities were analyzed.**

Station	Number of analysis	Average Alk μmol/kg	Average Alk corrected μmol/kg
12	6	2295.1	2301.0
15	3	2294.4	2300.3
21	5	2295.2	2301.4
36	8	2294.0	2300.7
49	7	2293.0	2299.6
60	9	2291.8	2297.9
69	5	2293.2	2299.0
81	6	2300.0	2301.3
93	7	2295.5	2296.8
96	3	2297.3	2297.9
108	5	2299.0	2299.6
115	7	2291.2	2298.7
128	8	2293.0	2302.0
140	6	2289.4	2299.0
148	5	2291.8	2301.6
160	6	2291.4	2301.0
176	7	2289.6	2299.3
185	5	2288.9	2298.3
195	11	2292.4	2301.5
210	8	2288.3	2297.9
212	3	2287.8	2297.6
218	7	2288.9	2299.5
226	5	2290.6	2302.6
235	4	2290.7	2303.1
Average		2292.6	2299.9
STD		3.2	1.7

## **2.3 - Precision**

### **2.3.1 - $\text{pH}_{15}$**

The precision of the pH method was estimated using the analyses of 184 couples of samples corresponding to two different oceanographic bottles closed at the same depth at each station. Figure VI-6 shows the absolute difference versus station number and pressure, and the frequency distribution in function of the difference intervals. The analysis of the histograms shows that 90% of the differences are lower than 0.005 units of  $\text{pH}_{15}$ . The mean absolute difference is 0.002 that in terms of percentage of difference represents 0.023%.

### **2.3.2 - Alkalinity**

The precision of the alkalinity method was estimated using the analyses made to 59 couples of samples corresponding to two different oceanographic bottles closed at the same depth at each station. Figure VI-7 shows the absolute difference versus station number and pressure, and the frequency distribution in function of the difference intervals. The analysis of the histograms shows that 90% of the differences are lower than 2.7  $\mu\text{mol/kg}$ . The mean absolute difference is 1.2  $\mu\text{mol/kg}$  that in terms of percentage of difference represents 0.02%.

### **2.3.3 - Error transmission to $\text{pCO}_2$ and TIC**

We have calculated the error transmission to  $\text{pCO}_2$  and TIC due to the variations of  $\text{pH}_{15}$  and alkalinity. To calculate these transmissions we have used the average values of  $\text{pH}_{15}$ , alkalinity, salinity and temperature of all data obtained during the cruise. In table VI-5 appears the error transmission of  $\text{pH}_{15}$  and alkalinity to  $\text{pCO}_2$  and TIC. A variation of 0.002 -average value of duplicates- in  $\text{pH}_{15}$  transmits 2.2  $\mu\text{atm}$  to  $\text{pCO}_2$  (0.55%) and 0.8  $\mu\text{mol/kg}$  to TIC (0.04%). While a variation of 1.2  $\mu\text{mol/kg}$  -average value of duplicates- transmits 0.22  $\mu\text{atm}$  to  $\text{pCO}_2$  (0.06%) and 1.2  $\mu\text{mol/kg}$  to TIC (0.05%).

Silicate and phosphate contribute to increase the total alkalinity (Millero, 1995), especially in deep waters when their concentrations are higher. Given that TIC is calculated using  $\text{pH}_{15}$  and alkalinity, the effect of silicate and phosphate must be subtracted. This effect has not been taken into account in the calculation of the TIC that appears in the present data base. At any rate, the range expected to be corrected is 0 in surface and about 5  $\mu\text{mol/kg}$  in deep waters.

**Table VI-5 :** Error transmission of  $pH_{15}$  and alkalinity to  $pCO_2$  and TIC using the equations of Mehrbach et al. (1973) and Weiss (1974) and the average values of  $pH_{15}$ , Alkalinity, salinity and temperature.

**ERROR TRANSMISSION OF  $pH_{15}$**

**& $pH_{15} = 0.002$  (duplicate bottles)**

$pH_{15}$	$pCO_2$	TIC
8.005	421.8	2189.5
8.003	424.0	2190.4
8.007	419.6	2188.7
Transmission	2.2	0.8

(S = 34.957; T = 5.93; Alk = 2345)

**ERROR TRANSMISSION OF ALKALINITY**

**&Alk = 1.2 (duplicate bottles)**

Alk	$pCO_2$	TIC
2345	421.8	2189.5
2343.8	421.6	2188.4
2346.2	422.0	2190.7
Transmission	0.22	1.2

(S = 34.957 ; T = 5.93 ;  $pH_{15} = 8.005$ )

**2.4 - Validation of results  $pH_{15}$  and alkalinity**

In order to verify the results of  $pH_{15}$  and alkalinity between the first and the second leg of Cither 2 cruise, a comparison between stations 115 and 142 surveyed at the same geographical position is shown in figure VI-8. It can be seen a good coherence between the profiles. The average difference is  $0.9 \pm 2.3 \mu\text{mol/kg}$  in alkalinity and  $0.005 \pm 0.006$  in pH.

With regard to the alkalinity, the comparison between station 148 of Cither 2 and station 18 of SAVE (fig. VI-9) shows that our results are slightly higher than those obtained 6 years ago. The average difference of all vertical profile is  $1.3 \pm 7.4 \mu\text{mol/kg}$  (0.06%). The higher differences were found in the first 100 db where our data are lower than SAVE data ( $18.5 \pm 3.2 \mu\text{mol/kg}$ , 0.77%). Beneath this pressure, the difference became lower  $3.6 \pm 2.9 \mu\text{mol/kg}$  (0.30%).

## 2.5 - References

- Culberson, C.H. (1981). Direct potentiometry in marine electrochemistry. In : *Marine Electrochemistry*. Ed. Whitfield and Jagner. J.Wiley and sons Ltd., 522 pp.
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- Millero, F.J. (1995). Thermodynamics of the carbon dioxide system in the oceans. *Geochimica et Cosmochimica Acta*, 59, 661-677.
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- Pérez, F.F. and F. Fraga (1987b). A precise and rapid analytical procedure for alkalinity determination. *Mar. Chem.*, 21, 169-182.
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### 3 - INTERNAL CONSISTENCY CARBONATE SYSTEM MEASUREMENTS

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A cooperative effort between the alkalinity/pH team and the total inorganic carbon team was initiated to compare reference material between CO<sub>2</sub> parameter instrumentation. The alkalinity/pH team analyzed Dickson reference materials while the TIC team analyzed standards made by the alkalinity/pH team. Results appear in Table VI-4.

Figure VI-10 shows the difference between TIC measured and TIC calculated using the Mehrbach equations. The mean difference obtained is  $4.6 \pm 5.5 \mu\text{mol.kg}^{-1}$ . Using the new constants of Roy et al. (1993) the mean difference is  $6.5 \pm 5.5 \mu\text{mol.kg}^{-1}$ . This difference seems to be due, as Bradshaw and Brewer (1988) have suggested, to the unknown organic acids or "dirty acids". Probably these unknown organic acids could be humic acids. Dissolved organic carbon have been also analyzed at seven levels of depth in eight stations during WOCE section A17 cruise. The mean values obtained was  $78 \pm 13 \text{ mM}$  (Section 5). The difference found between measured and calculated TIC could be explained by the presence of the humic acids (Esteves and Duarte, submitted).

A comparative study of TIC between station 210 of Cither 2 and station 22 of TTO (fig. VI-11) shows that our results are higher than those analyzed 11 years ago. The average difference of all profile between TIC (TTO) and TIC measured (Cither 2) is  $4.0 \pm 11.9 \mu\text{mol/kg}$  (0.18%), while the difference between TIC (TTO) and TIC calculated (Cither 2) is  $9.6 \pm 11.7 \mu\text{mol/kg}$  (0.44%). The average difference of this profile between TIC measured and TIC calculated in Cither 2 maintains the same value reported before ( $4.9 \pm 2.8 \mu\text{mol/kg}$ ). Considering only the pressures higher than 4000 db, the difference became lower for TIC calculated :  $1.1 \pm 8.3 \mu\text{mol/kg}$  (0.05%) and slightly higher and with opposite sign for TIC measured :  $-5.3 \pm 9.4 \mu\text{mol/kg}$  (0.24%). On the basis of the results the TIC data are rather coherent with those obtained 11 years before.

#### 3.1 - References

Bradshaw, A.L. and P.G. Brewer (1988). High precision measurements of alkalinity and total carbon dioxide in seawater by potentiometric titration. 2. Measurements on standard solutions. *Marine Chemistry*, 24, 155-162.

Esteves, V.I. and A.C. Duarte. Speciation of dissolved organic carbon in the North Atlantic Ocean: Preliminary results.

Roy, R.N., L.N. Roy, K.M. Vogel, C. Porter-Moore, T. Pearson, C.E. Good, F.J. Millero, D.M. Campbell (1993). The dissociation constants of carbonic acid in seawater at salinities 5 to 45 and temperatures 0 to 45°C. *Mar. Chem.*, 44, 249-267.

## 4. -SURFACE pCO<sub>2</sub>

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### 4.1 - Calculation and distribution of surface pCO<sub>2</sub>

The pCO<sub>2</sub> in surface was calculated from alkalinity and pH using published equations for the oceanic carbon system (Mehrbach et al., 1973 ; Weiss, 1974). All the results are given in  $\mu\text{atm}$ . The figure VI-12 shows the distribution the pCO<sub>2</sub> in surface along the track of the Cither 2 cruise. The mean partial pressure of CO<sub>2</sub> in the atmosphere given by Keeling et al. (1995) for the year 1994 is 357.7 ( $\mu\text{atm}$ ) being also represented in the figure VI-12. The pCO<sub>2</sub> in surface increases until station 94. The values are rather constants between stations 94 and 190 and, after this station the values decrease. The stations further to the south (stations 3 to 75) show pCO<sub>2</sub> values lower than pCO<sub>2</sub> in the atmosphere which means that this zone is a potential sink for atmospheric CO<sub>2</sub>.

### 4.2 - Validation of results

In order to validate our surface pCO<sub>2</sub> results we have compared our data in function of the temperature with those collected in Focal 2, 4, 6 and 8 cruises (Andrié et al., 1986). Stations located along 35°W between 5°N and 5°S were compared. The figure VI-13 shows surface pCO<sub>2</sub> versus temperature of 220 stations (Cither 2) and 76 stations (Focal 2, 4, 6 and 8). The values obtained during Cither 2 at higher temperatures, close to the equatorial zone, are in general higher than the atmospheric pCO<sub>2</sub> (357.7  $\mu\text{atm}$ ) and in agreement with the data of the four Focal cruises that even shown lower values. It is interesting to note that during the Focal cruises carried out between 1982 and 1984, the atmospheric pCO<sub>2</sub> values was between 330.6 and 334.6 (Andrié et al., 1986). Therefore also in these cruises the equatorial surface pCO<sub>2</sub> showed higher values than atmospheric pCO<sub>2</sub>.

### 4.3 - References

- Andrié, C., C. Oudot, C. Genthon and L. Merlivat (1986). CO<sub>2</sub> fluxes in the Tropical Atlantic during FOCAL cruises. *Journal of Geophysical Research*, 91, 11741-11755.
- Keeling, C.D., T.P. Whorf, M. Wahlen and J. Van der Plicht (1995). Interannual extremes in the rate of rise of atmospheric carbon dioxide since 1980. *Nature*, 375, 666-670.
- Mehrbach, C., C.H. Culberson, J.E. Hawley and R.M. Pytkowicz (1973). Measurements of the apparent dissociation constant of carbonic acid in seawater at atmospheric pressure. *Limnol. Ocean.*, 18, 897-907.
- Weiss, R.F. (1974). Carbon dioxide in water and seawater: the solubility of a non-ideal gas. *Mar. Chem.*, 2, 203-215.

## 5 - TOTAL ORGANIC CARBON MEASUREMENTS

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### 5.1 - Equipment and Technique

Selected samples for the determination of Total Organic Carbon (TOC) were taken at 7 depths in 8 stations along the north-south section. Pyrex<sup>®</sup> glass bottles (100 ml) were used. The bottles were sequentially washed thoroughly with diluted sodium hypochloride, 0.1N hydrochloric acid and, finally, with Milli-Q<sup>®</sup> water. Unfiltered samples were collected directly, after rinsing the bottles three times. Immediately after sampling, samples were acidified to pH~2 by adding 0.5 ml of a 2.5N hydrochloric acid solution, covered up with parafilm<sup>®</sup> below the top, and stored in the darkness.

Samples were analysed in the laboratory after ~6 months. The new High Temperature catalytic Oxidation (HTCO) technique was used, which involves direct injection of the decarbonated sample onto a 0.5% platinum over alumina catalyst at 680°C, under an atmosphere of high purity air, flowing at 150 ml/min, 5 bars pressure. Quantitatively produced CO<sub>2</sub> gas is measured using an Non-Dispersive Infra-Red (NDIR) detector and the resulting area estimated with a peak integrator. Analyses were performed in a commercially available Shimadzu TOC-5000.

Intense bubbling of high purity air throughout the sample for half an hour allows complete decarbonation. At least 3 to 5 injections are needed for precise measurements. As a typical injection cycle takes ~4 minutes, each sample requires between 12 and 20 minutes for completion.

### 5.2 - Calibration

Potassium Hydrogen Phthalate (KHP) was used for calibrating the system. A concentrated standard of KHP (200 mM of carbon) was prepared in UV irradiated Milli-Q plus<sup>®</sup> water and preserved in the darkness at 4°C. A 2-points calibration (0 µM-C and 200 µM-C) was performed every 20 sample with freshly prepared running standards.

TOC in Milli-Q plus<sup>®</sup> water has been assumed to be zero. Consequently the area of UV Milli-Q water is the system blank and subtracted to all samples. This area never represents more than 10-15 µM. Measurements made with the high sensibility catalyst produced values lower than 1 µM.

### 5.3 - Precision

The coefficient of variation (C.V.) of the peak areas for the 3 to 5 replicates of each sample was ~2-4 %, i.e., the precision can be estimated as about 1 and 4 µM. The C.V. for the whole set of measurements of the 200 µM KHP standard (n = 20) was 1.8%. The precision usually reported for both wet chemical oxidation and high temperature catalytic oxidation methods ranges between 1.5 and 5 µM (Williams, 1992).

#### 5.4 - Distribution of TOC and validation of results

Figure VI-14 shows the profiles of TOC for the eight stations occupied. Surface water has an averaged TOC concentration of  $78 \pm 13 \mu\text{M}$ , ranging between 56 and 98  $\mu\text{M}$  and showing a gradual increase from South to North. TOC concentration decreases with depth up to 400 db. From there to the bottom TOC remains almost constant, ranging between 50 and 57  $\mu\text{M}$ .

Our values are similar to those recently obtained by Thomas et al. (1995) in the Equatorial Atlantic, using the same technique. These values are close to those previously obtained using the traditional wet oxidation methods and very far away from the higher values reported by Sugimura and Suzuki (1988), Suzuki et al. (1992) and Martin and Fitzwater (1992).

#### 5.5 - References

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- Sugimura, Y. and Y. Suzuki, (1988). A high temperature catalytic oxidation method for the determination of non-volatile dissolved organic carbon in seawater by direct injection of liquid sample. *Mar. Chem.*, 24, 105-131.
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- Thomas, C., G. Cauwet and J.-F. Minster (1995). Dissolved organic carbon in the equatorial Atlantic Ocean. *Mar. Chem.*, 49 : 155-169.
- Williams, P.M. (1992). Measurement of dissolved organic carbon and nitrogen in natural waters. *Oceanography*, 5, 107-116.
- Williams, P.J. leB. (1995). Evidence for the seasonal accumulation of carbon-rich dissolved organic material, its scale in comparison with changes in particulate material and the consequential effect on net C/ assimilation ratios. *Marine Chemistry*, 5, 107-116.

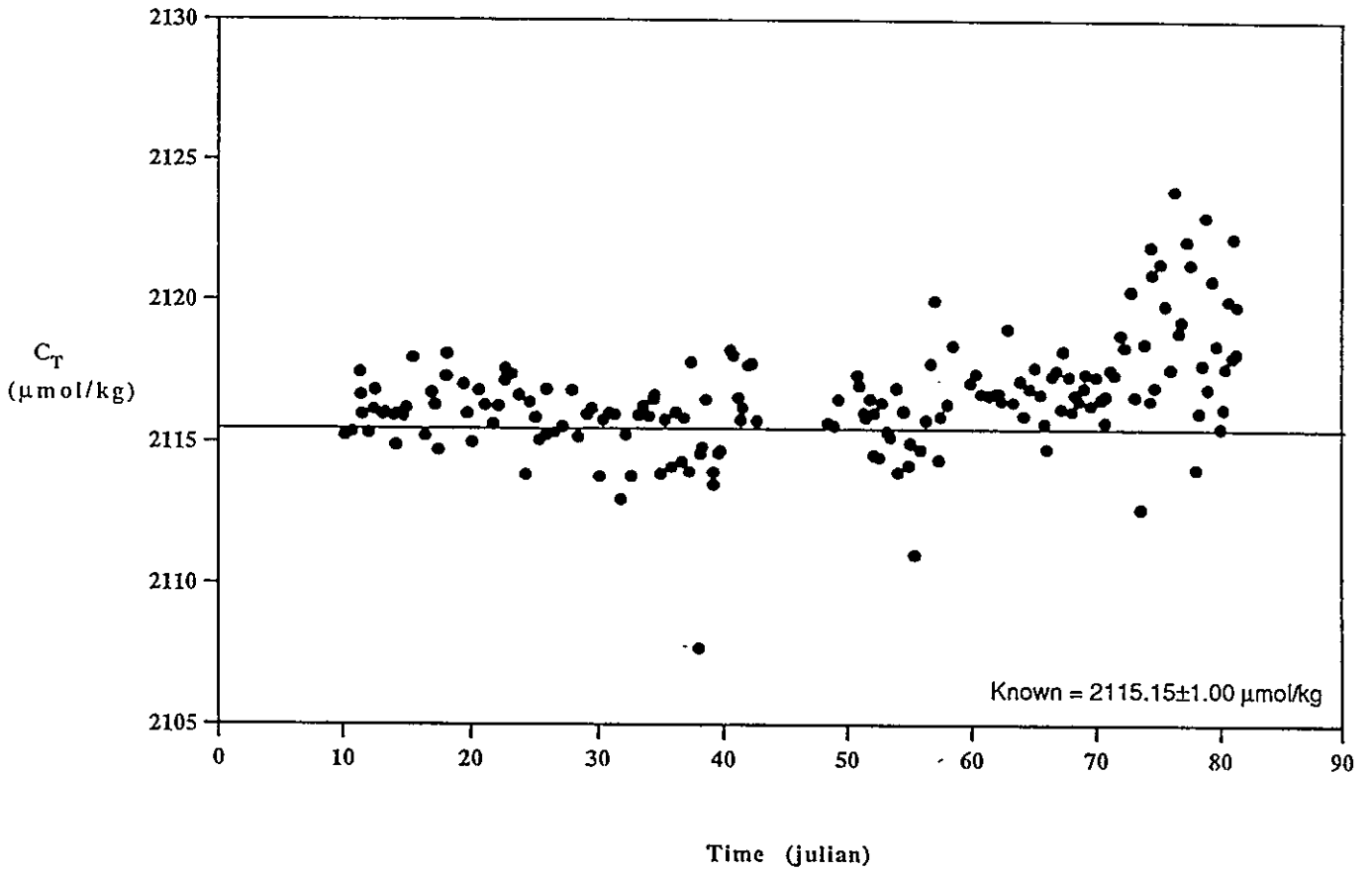
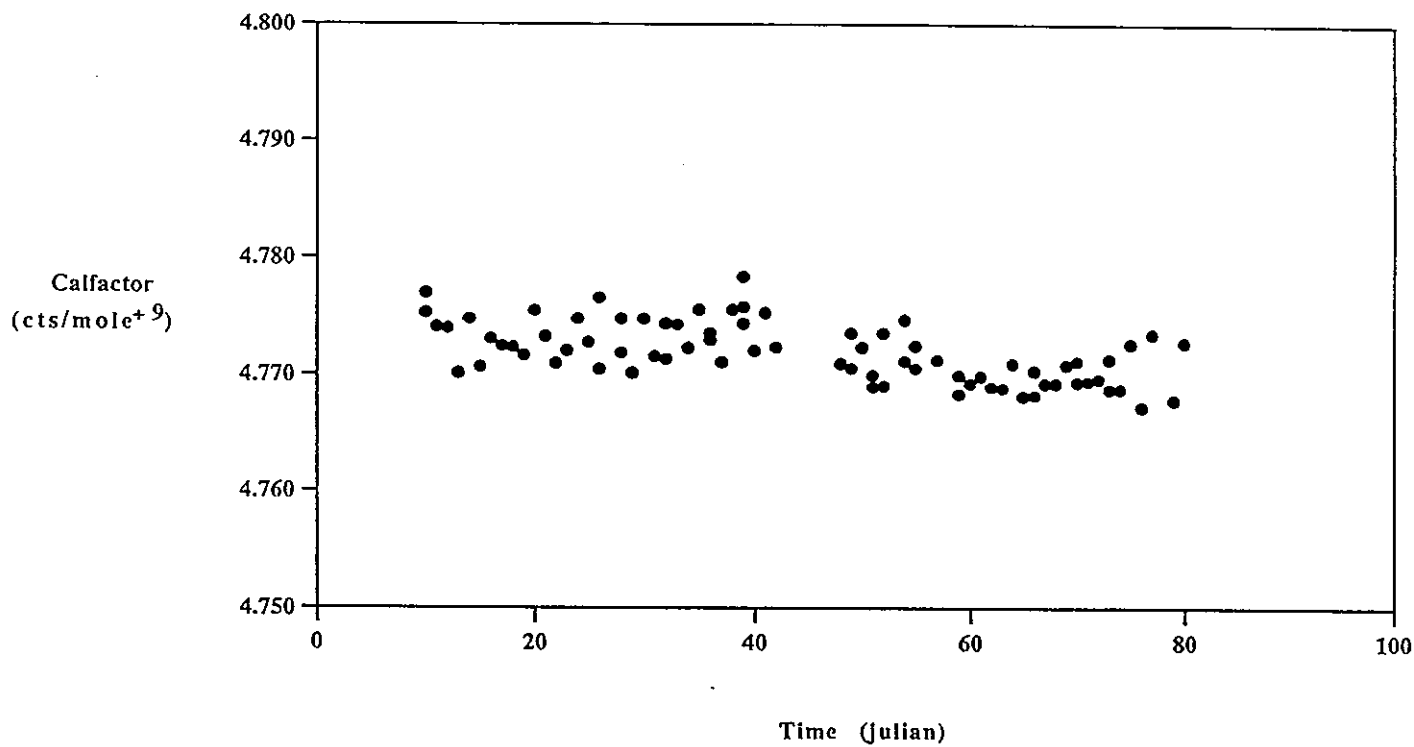
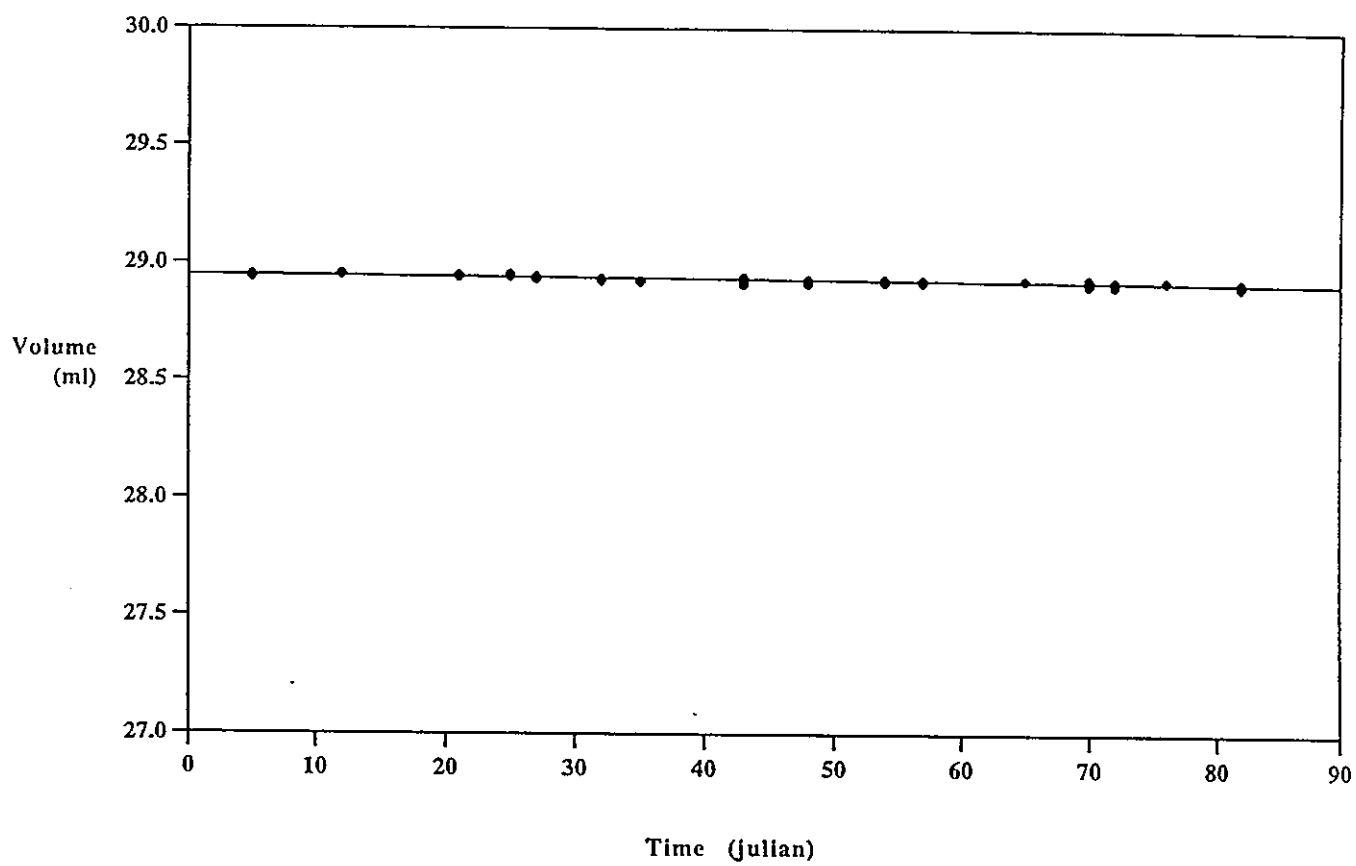


Figure VI-1: Certified Reference Material results for  $C_T$  vs time.



**Figure VI-2:** Gas sample loop calibration results (averaged per cell; used to calculate  $C_T$ ) vs time



**Figure VI-3:**  $C_T$  pipette calibrations vs time.

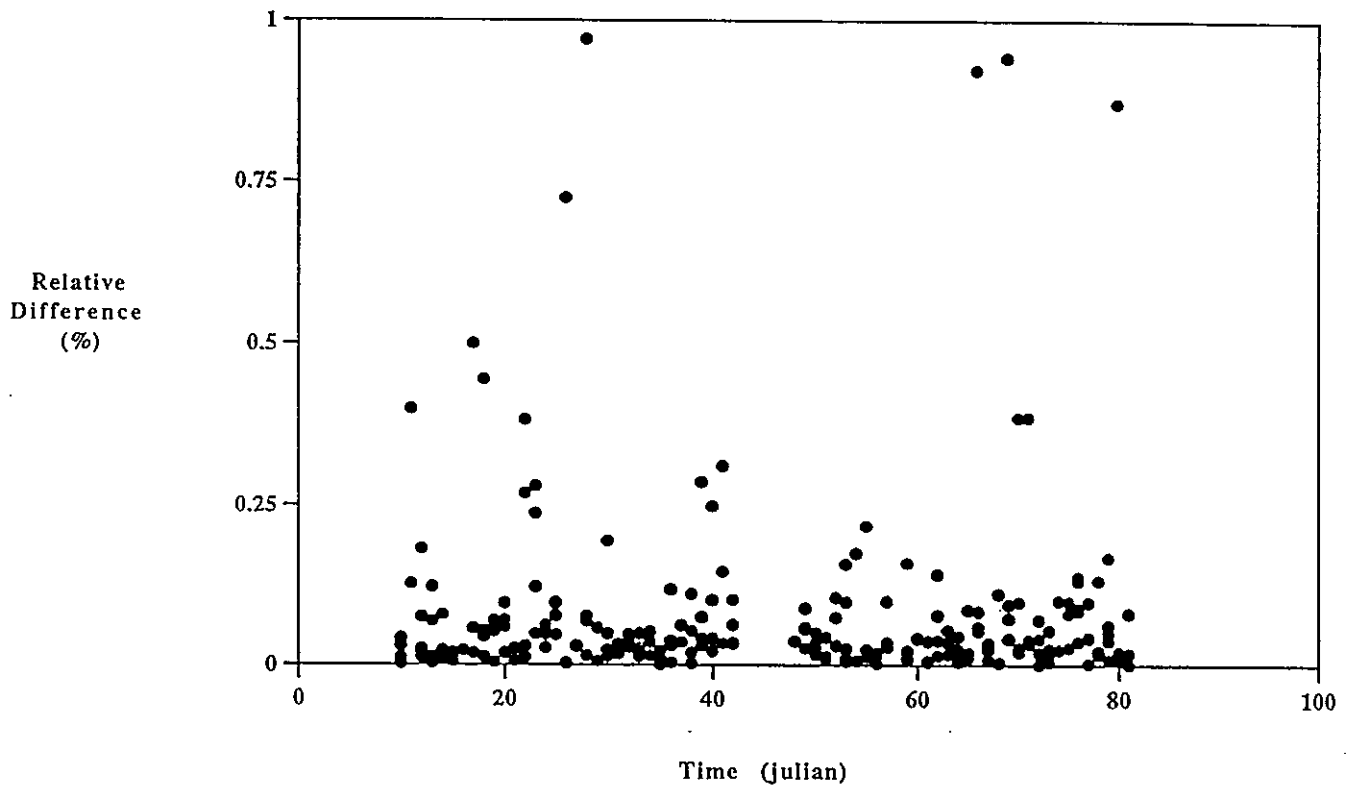


Figure VI-4: Percent difference of  $C_T$  duplicate results vs time.



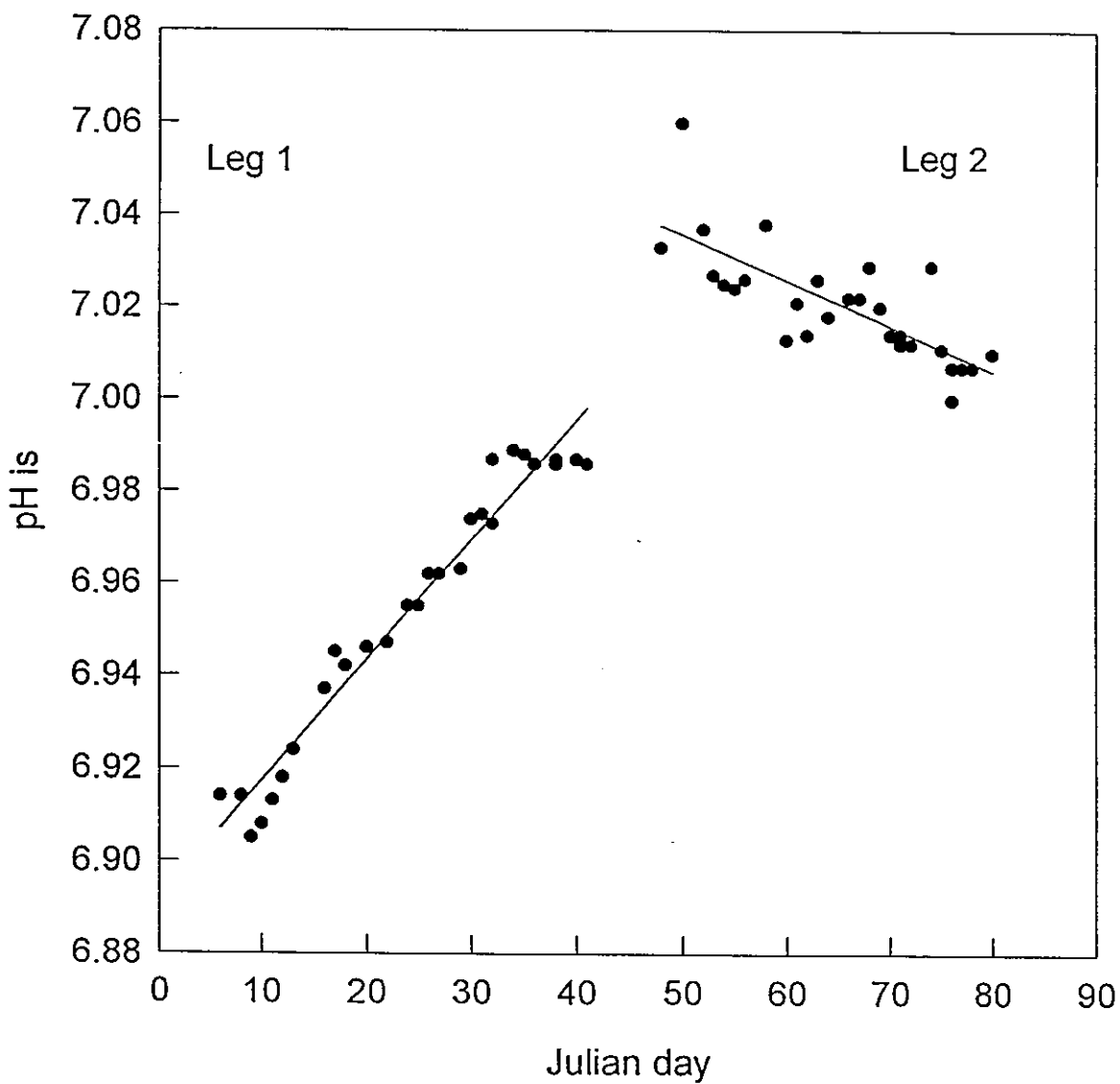
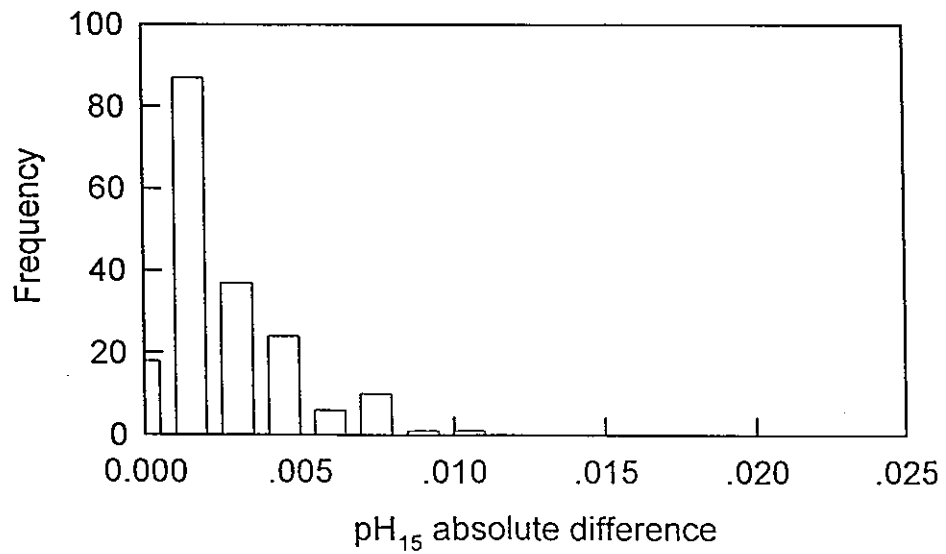
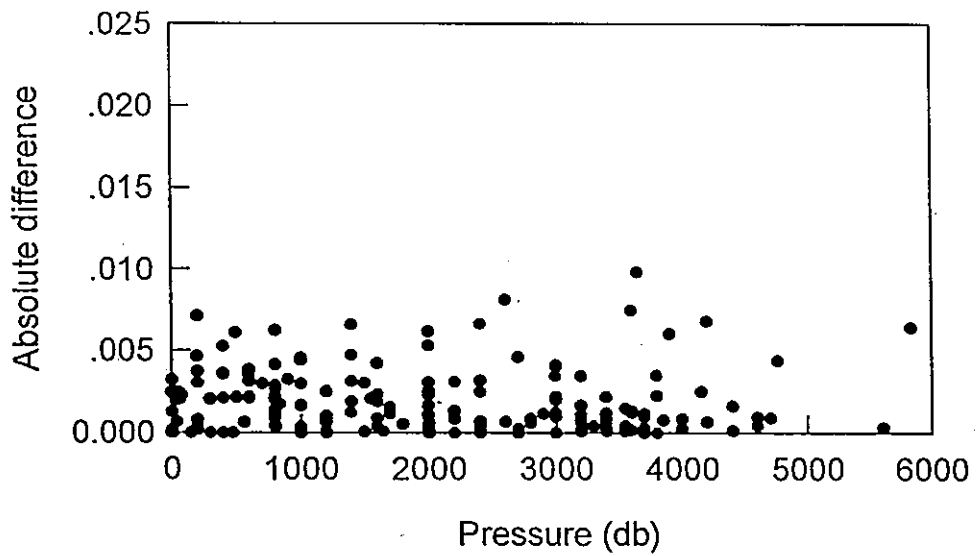
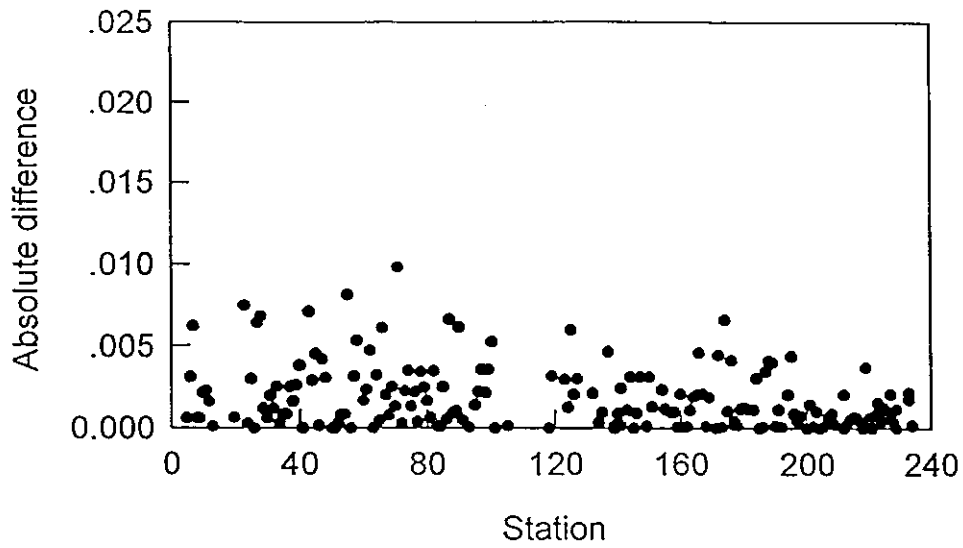
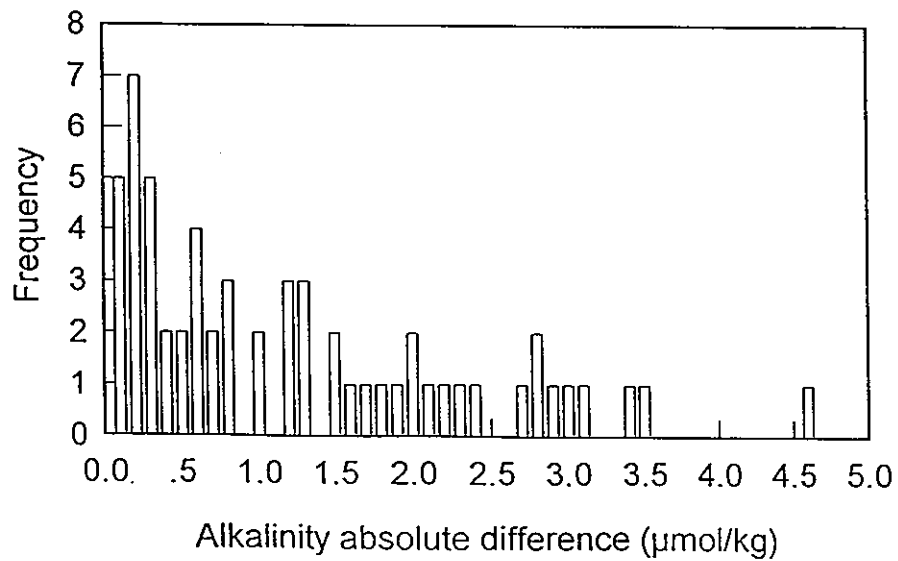
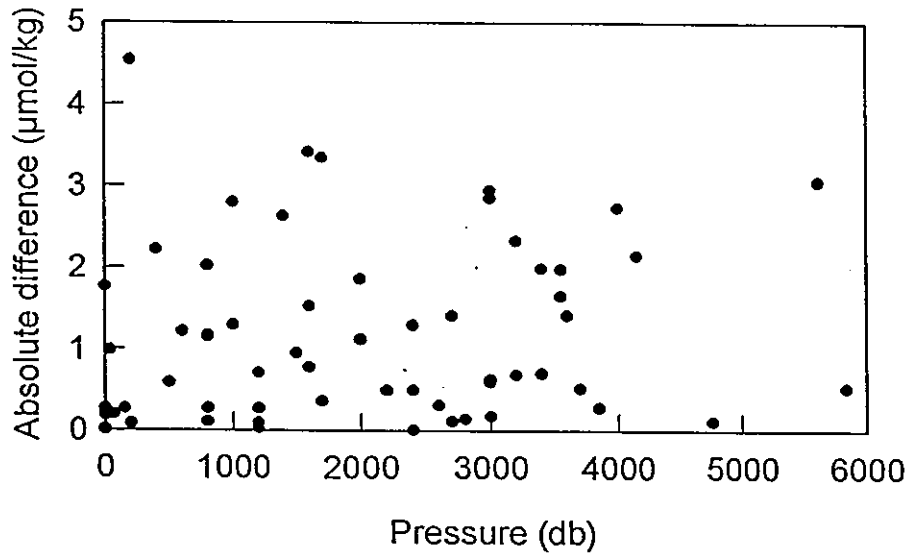
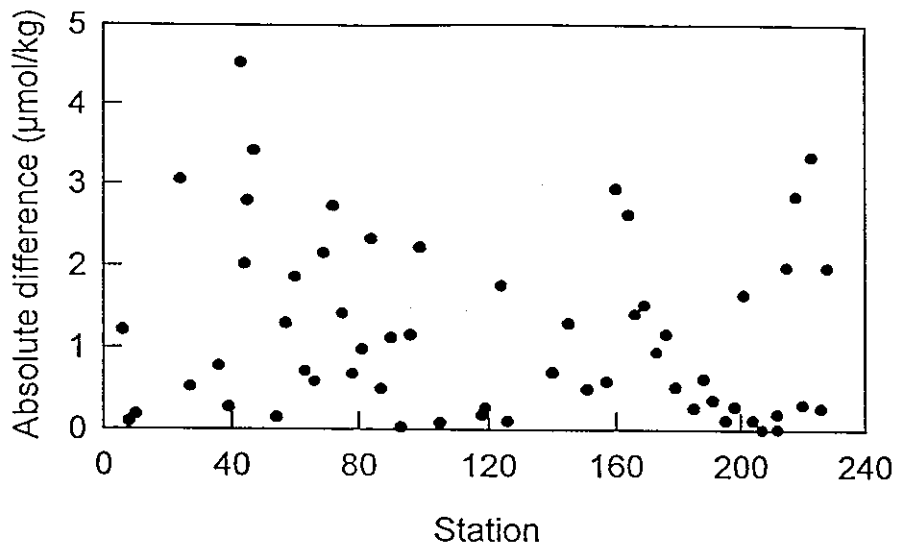


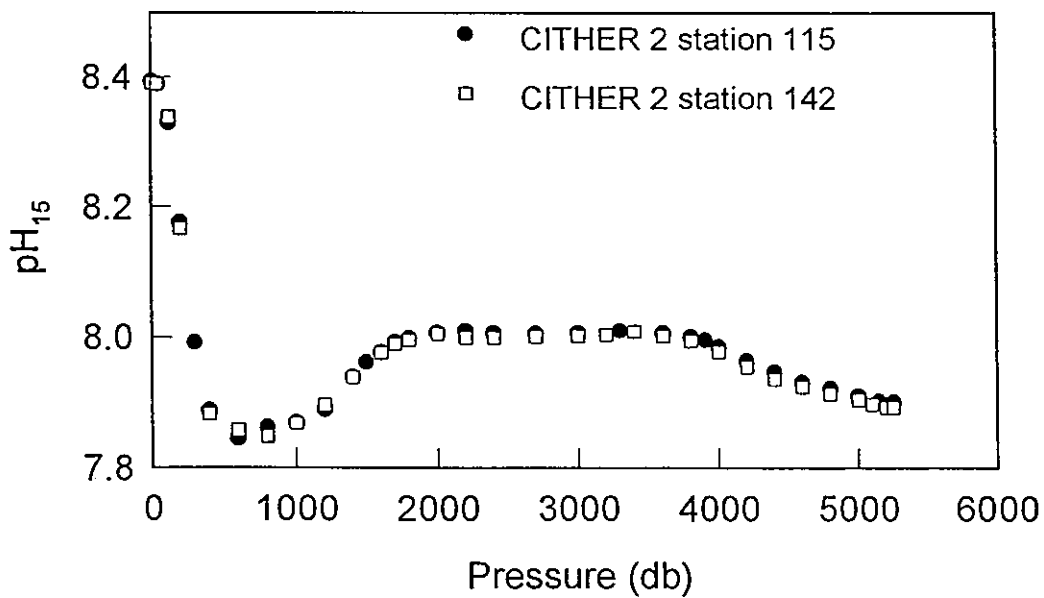
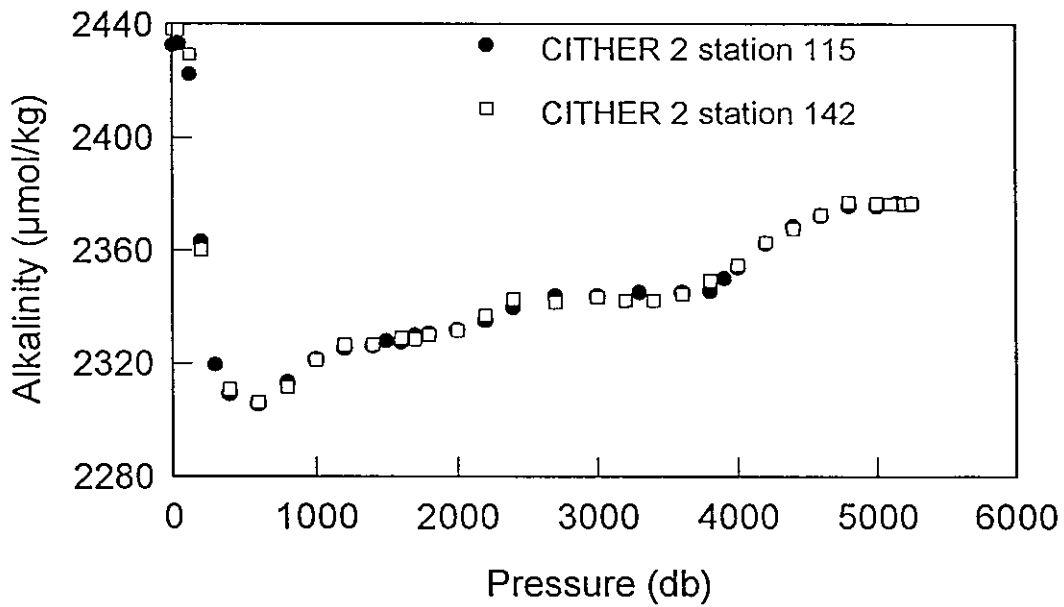
Figure VI-5: Results for pH<sub>is</sub> at zero potential at each calibration vs time.



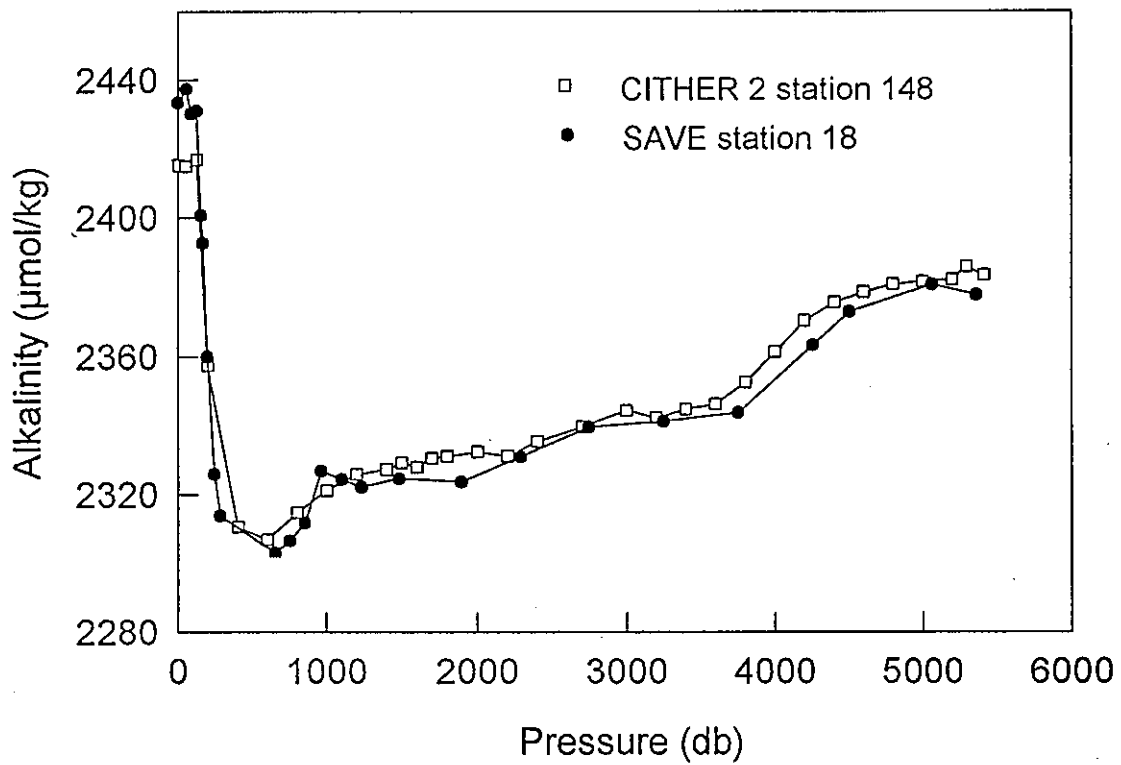
**Figure VI-6:** Absolute difference of pH duplicate results versus:(a) station number, (b) pressure; (c) frequency distribution in function of difference intervals.



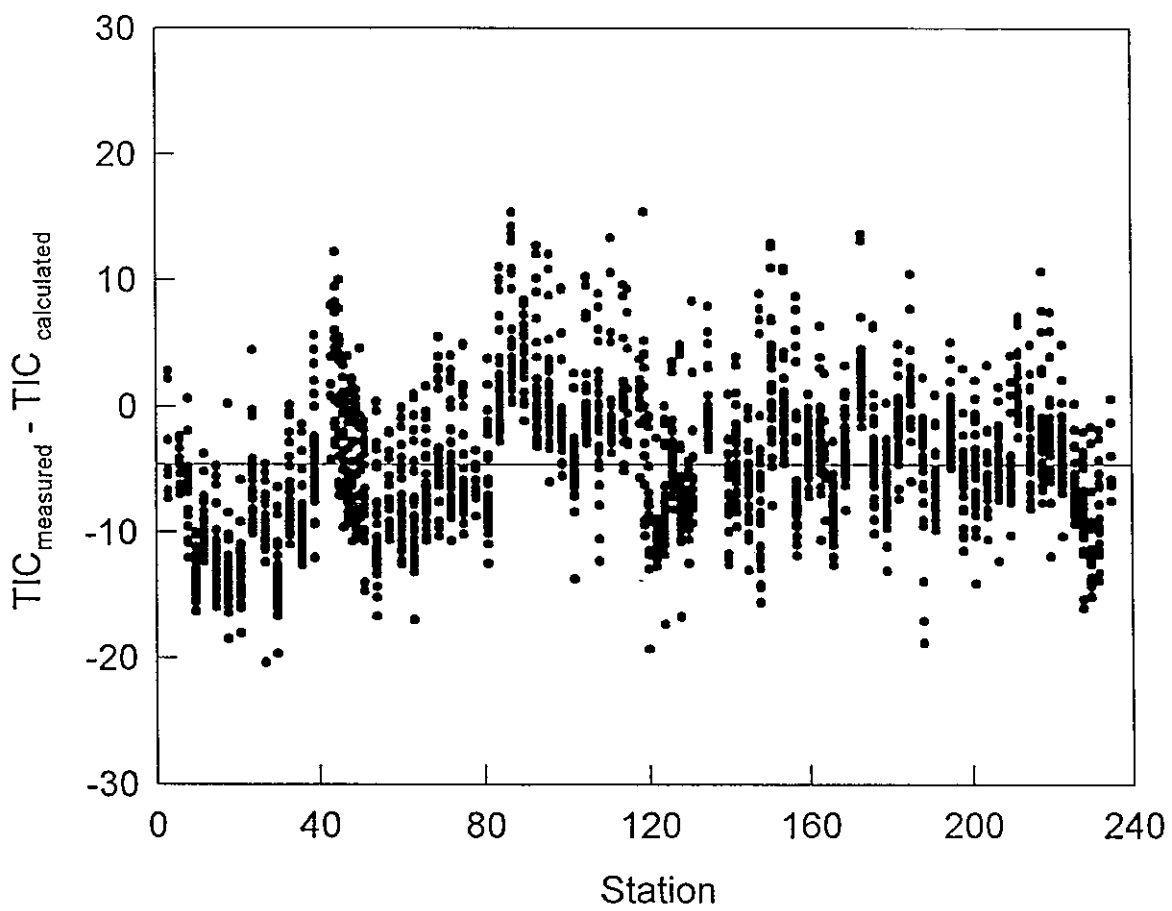
**Figure VI-7:** Absolute difference of Alkalinity results versus: (a) station number, (b) pressure; (c) frequency distribution in function of difference intervals.



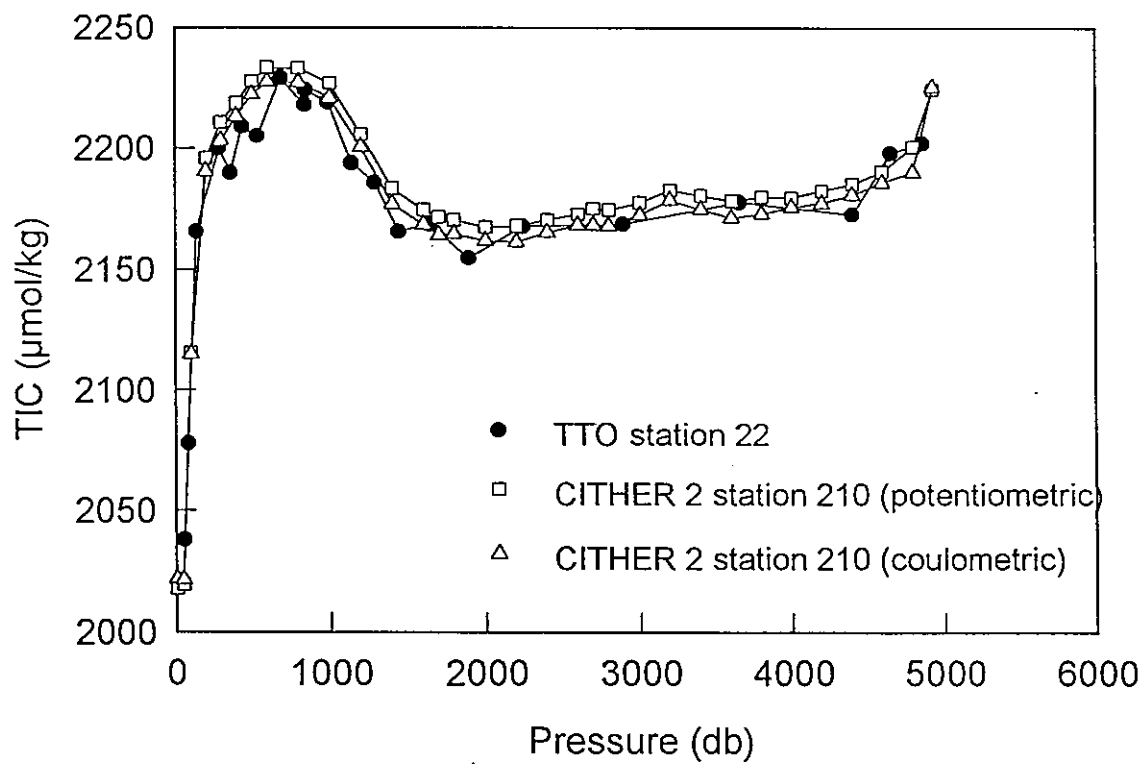
**Figure VI-8:** Comparison of vertical distributions of pH<sub>15</sub> and alkalinity between stations 115 and 142 surveyed at the same geographical position.



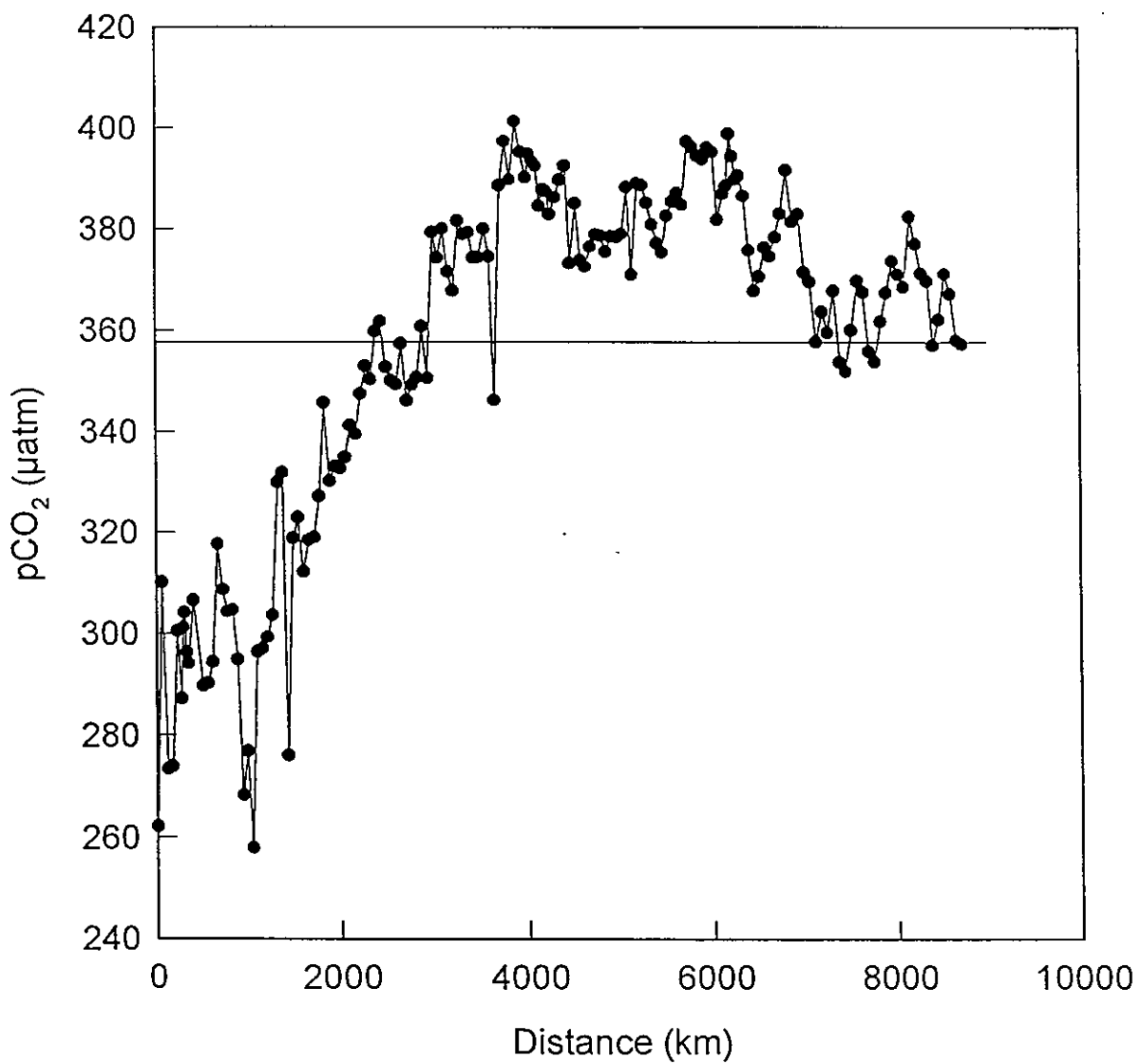
**Figure VI-9:** Comparison of vertical distributions of alkalinity between Cither 2 (station 148) and SAVE (station 18) surveyed at the same geographical position.



**Figure VI-10:** Internal consistency of CO<sub>2</sub> parameter measurements plotted as difference between TIC measured and TIC calculated.

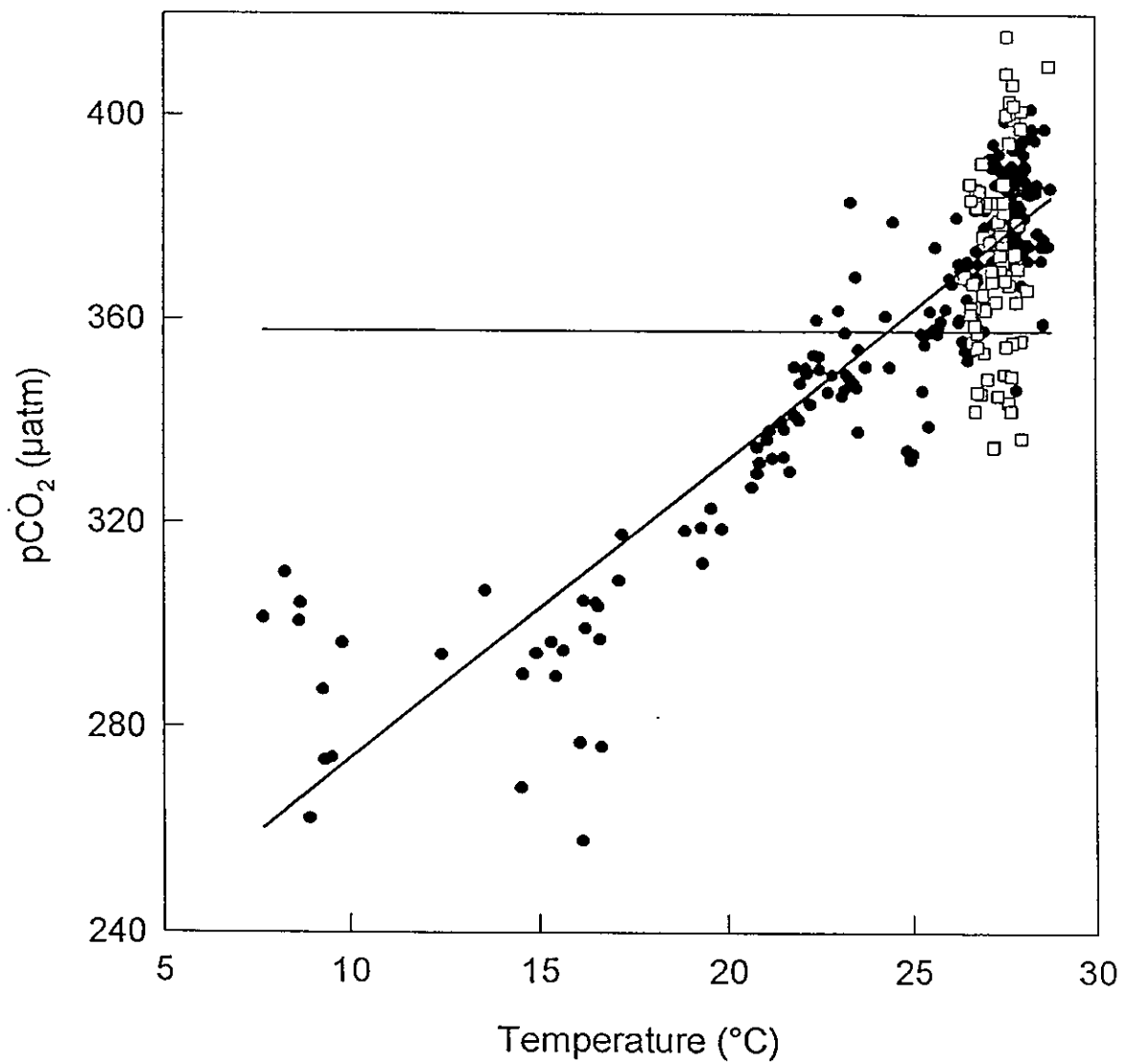


**Figure VI-11:** Comparison of vertical distributions of TIC between Cither 2 (station 220) and TTO (station 22) surveyed at the same geographical position.

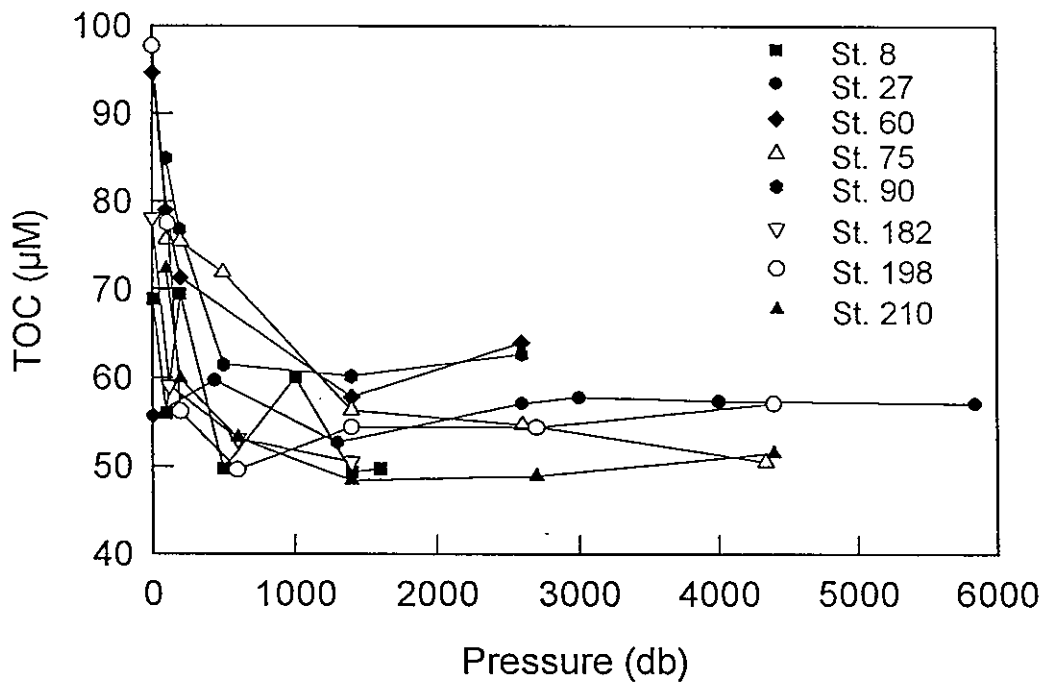


**Figure VI-12:** Distribution of surface  $p\text{CO}_2$  along the main section. The straight line at 357.7 is the atmospheric  $p\text{CO}_2$  for 1994 according to Keeling et al.(1995).





**Figure VI-13:** Surface pCO<sub>2</sub> versus temperature. Dots represent CITHER 2 stations, White squares are FOCAL stations.



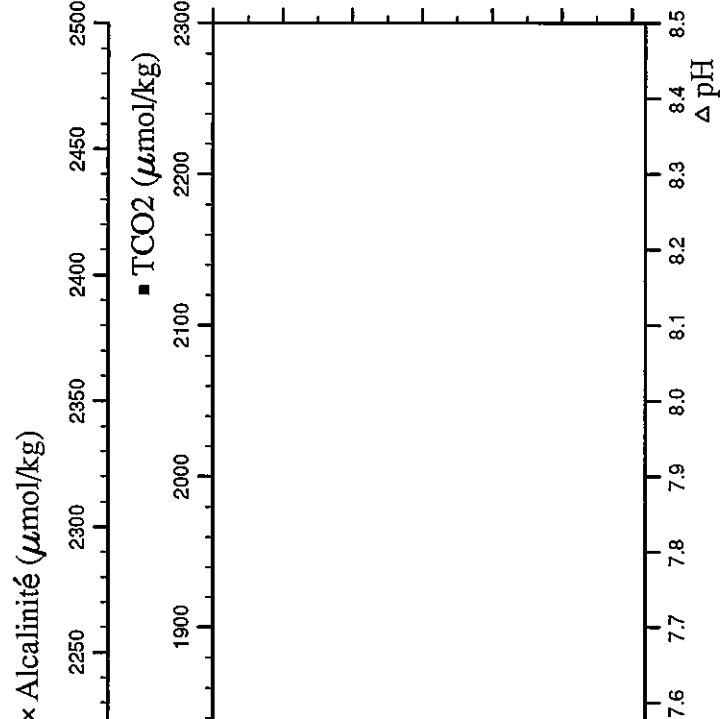
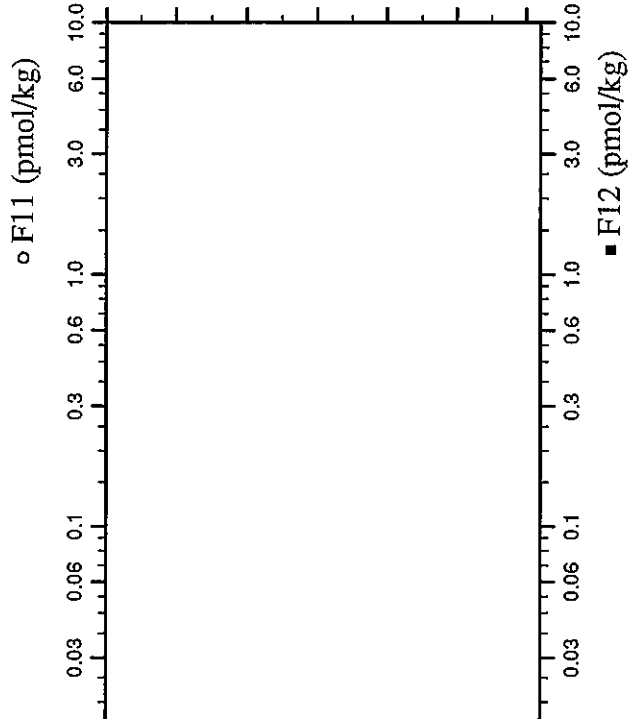
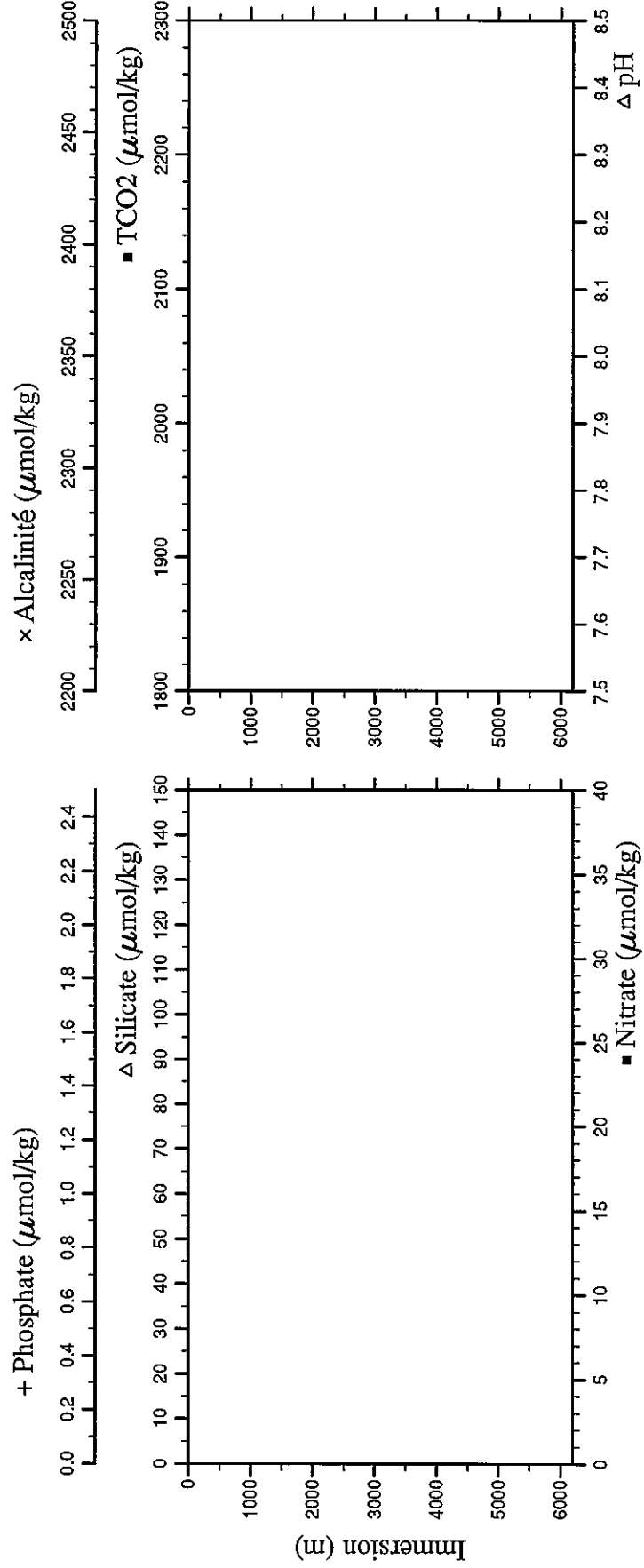
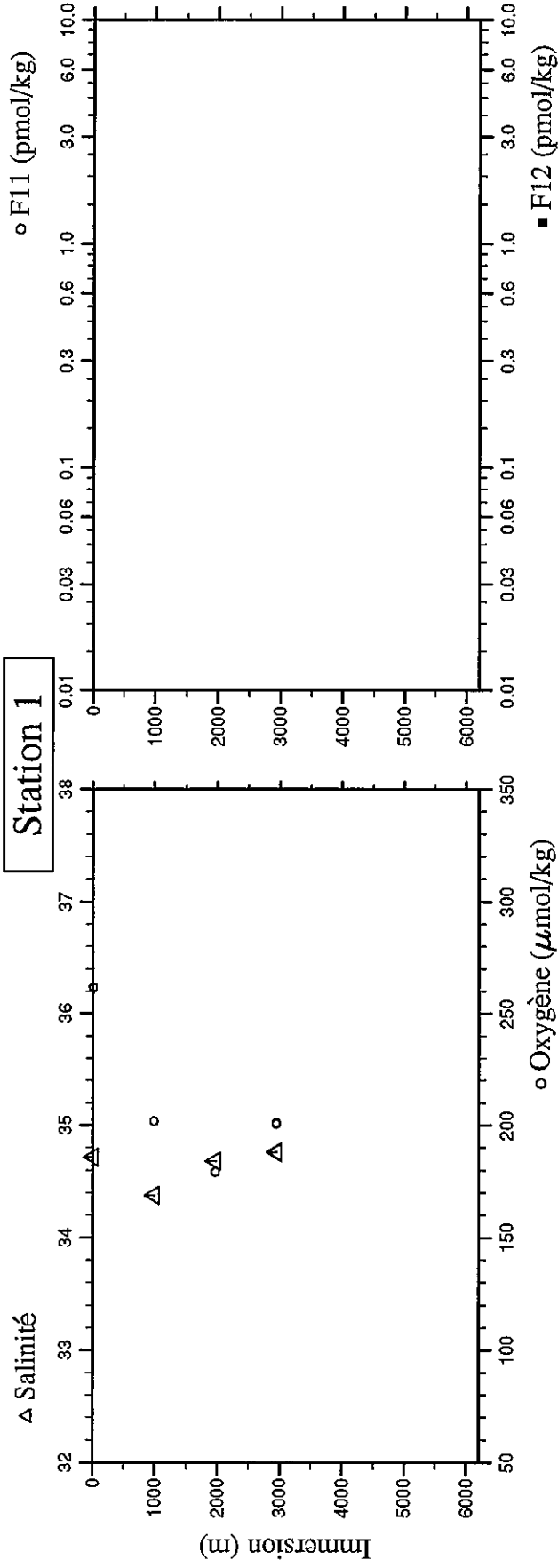
**Figure VI-14:** Vertical distributions of Total Organic Carbon in the eight stations analyzed.

-VII -

LISTINGS ET TRACÉS PAR STATION  
DES PARAMÈTRES CHIMIQUES ET  
GÉOCHIMIQUES



# Station 1

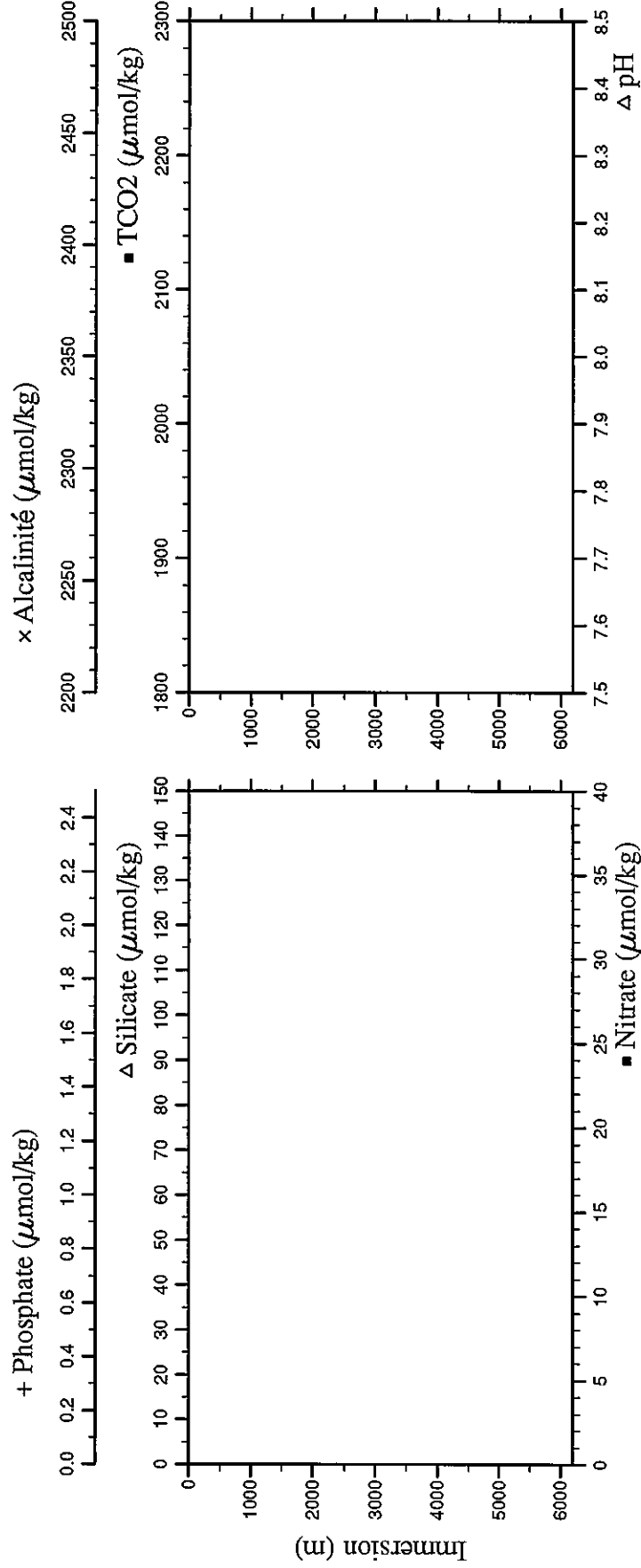
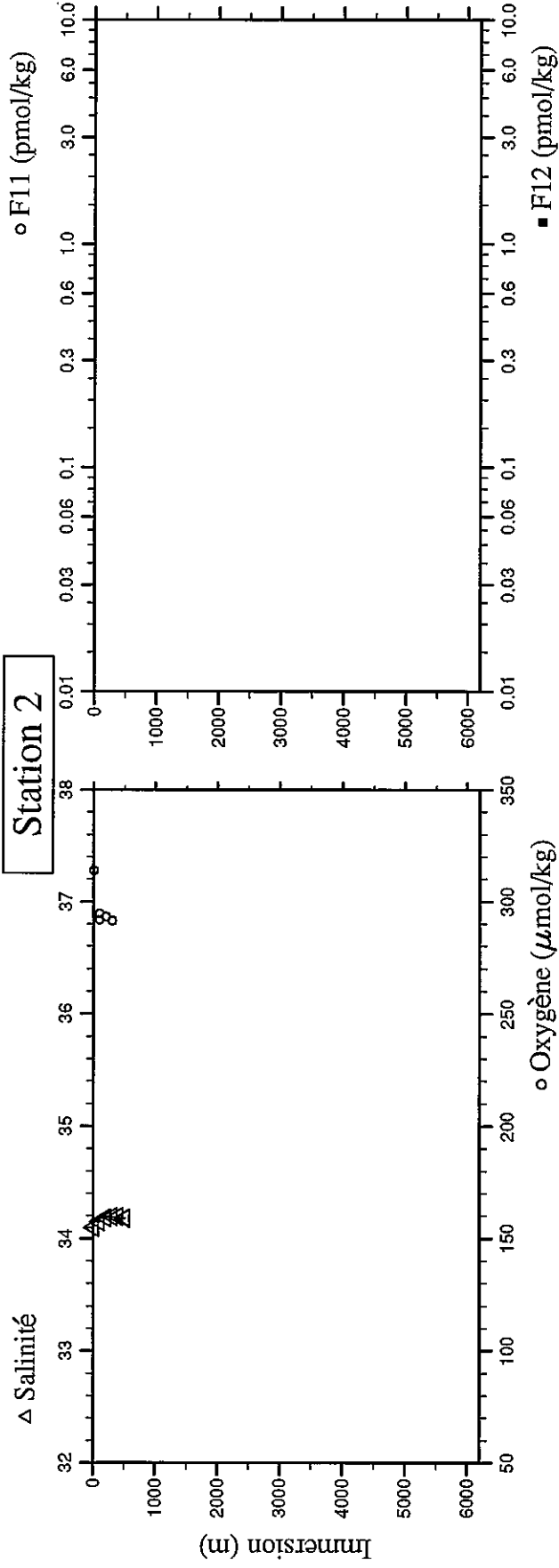


■ Nitrate (μmol/kg)

Δ pH



Station 2

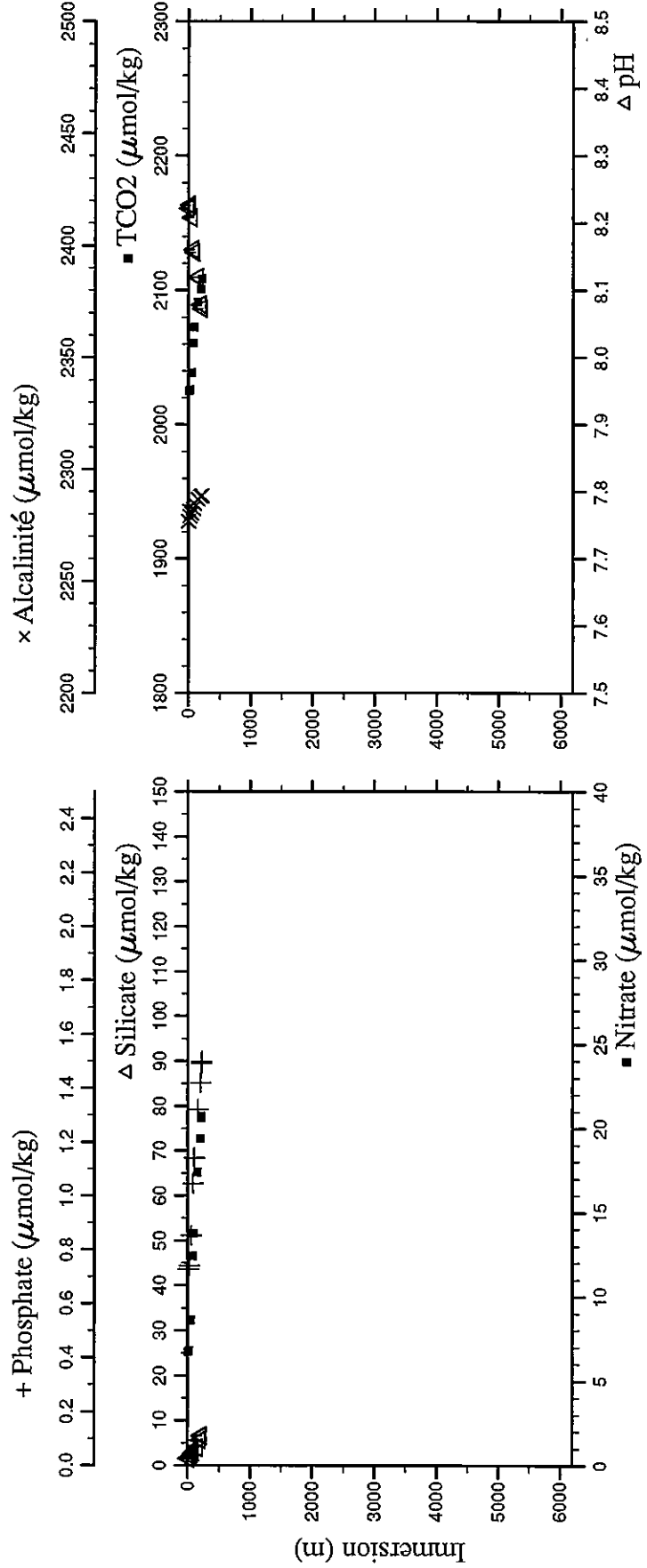
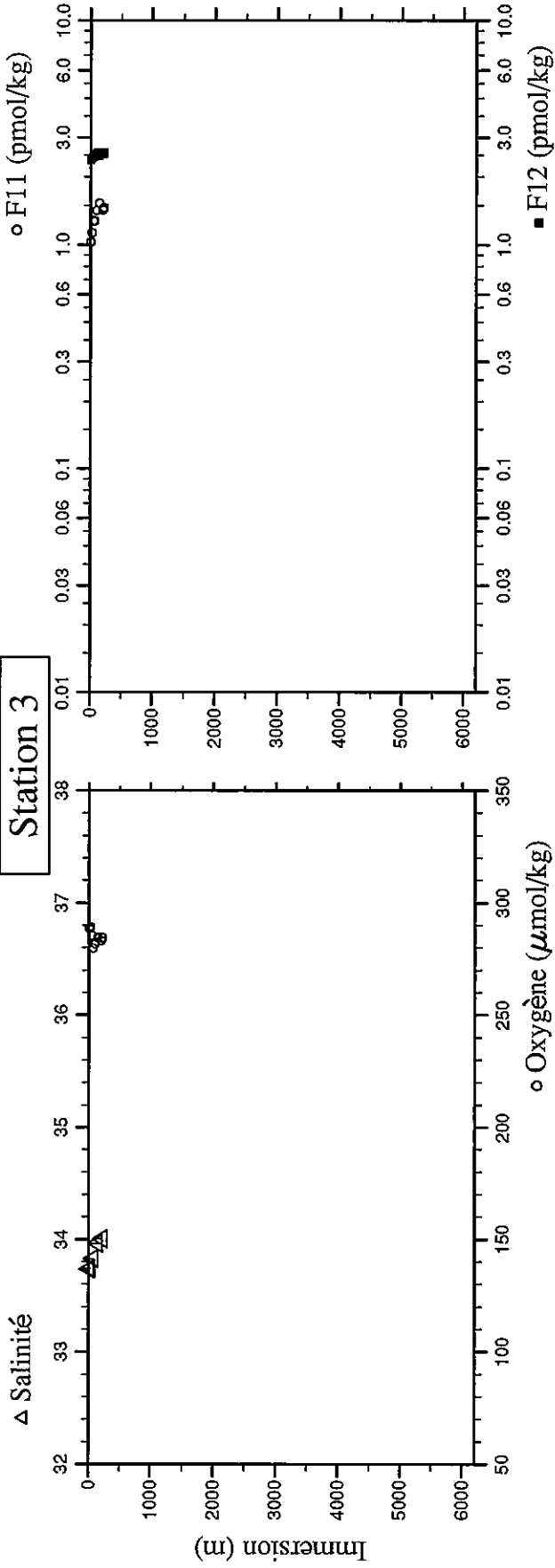


Station : 3 Campagne : CITHER 2  
 Date : 10-01-94 Heure : 0 h 43 mn  
 Position : S 50 42.31 W 57 13.62  
 Dernier niveau à : 218  
 Nb prélèvements : 9

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.9	7.8	8.926	26.1770	33.738	288.6	6.73	0.728	1.6	4.6920	2.3856	2024.94	2276.8	8.222
25.6	25.4	8.914	26.2594	33.741	289.2	6.80	0.740	1.6	4.7908	2.4358	2026.04	2279.1	8.227
50.3	49.9	8.312	26.5026	33.771 r	285.5	8.61	0.853	2.1	4.9098	2.4621	2038.83	2280.2	8.208
75.9	75.2	7.641	26.7553	33.828	279.8	12.39	1.045	2.6	4.9163	2.4968	2060.79	2282.2	8.161
100.8	99.9	7.262	26.9733	33.879 r	281.6	13.77	1.141	3.0	5.0200	2.5575	2072.56	2284.5	8.157
150.7	149.3	6.626	27.3457	33.967	284.3	17.39	1.320	4.0	5.0952	2.4809	2091.17	2286.6	8.119
201.6	199.8	6.148	27.6309	33.959 r	283.2	19.39	1.421	5.6	5.0283	2.5323	2101.00	2287.8	8.079
219.6	217.6	5.690	27.8176	34.005	284.4	20.65	1.498	6.5	5.0504	2.5675			
219.6	217.6	5.690	27.8176	34.003	284.4	20.73	1.492	6.6	5.0418	2.5402	2108.45	2288.1	8.073



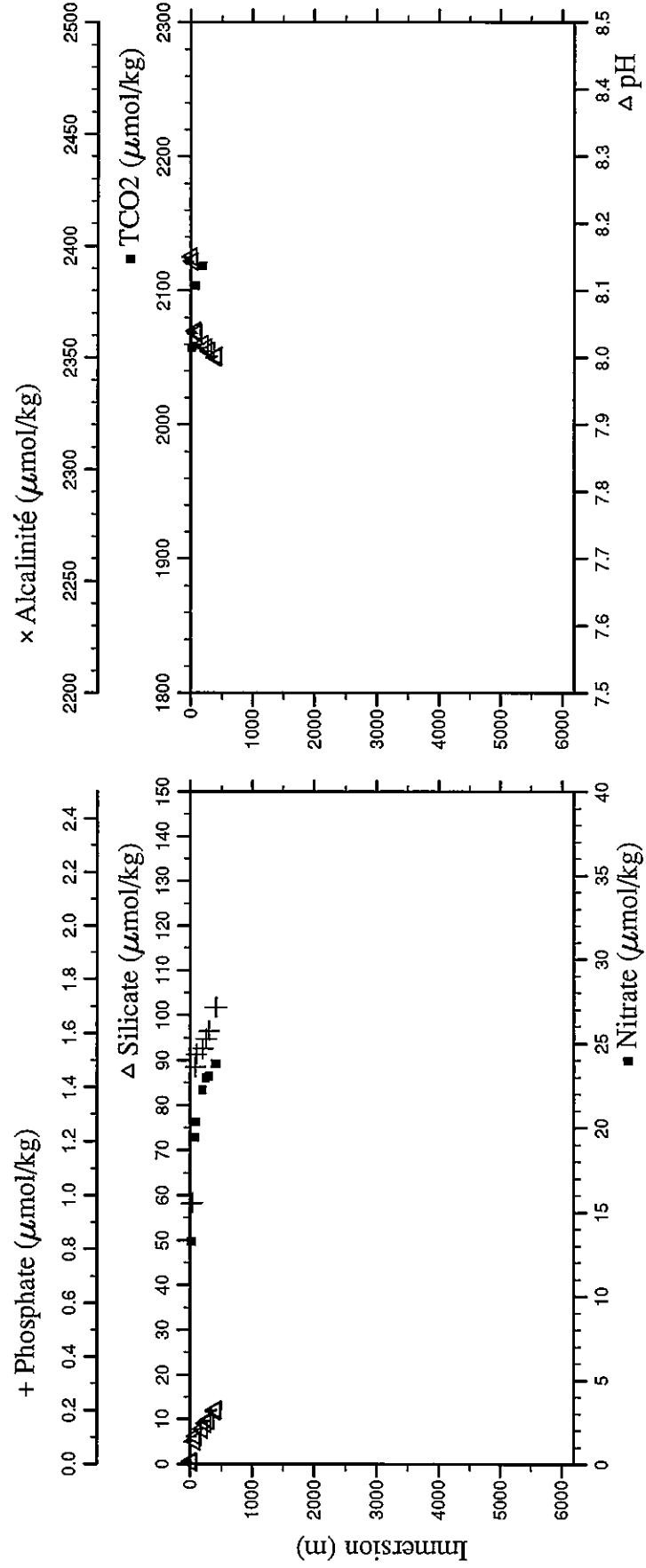
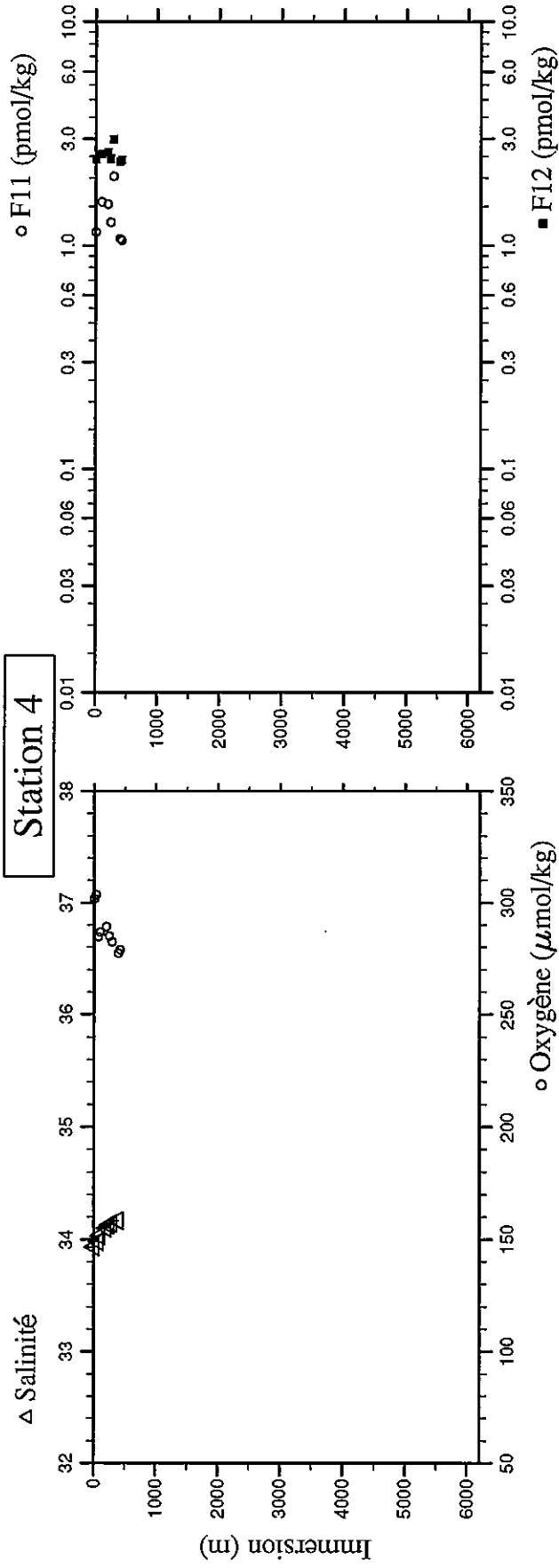
### Station 3



Station : 4 Campagne : CITHER 2  
 Date : 10-01-94 Heure : 4 h 38 mn  
 Position : S 50 17.73 W 56 47.28  
 Dernier niveau à : 430  
 Nb prélèvements : 10

PRESSION CHIMIE	IMMERSION metres	TEMP. POT. SONDE	deg.cels.	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	um/kg	PHOSPHATE	um/kg	SILICATE	F11	pmol/kg	F12	pmol/kg	CARBONE INORG.TOT. NITE	um/kg	ALCALI-	um/kg	PH
11.1	11.0	8.274	8.274	26.4454	33.934	301.7	13.26	0.968	0.968	0.6	4.8046	2.4330	2057.47	8.151						
30.9	30.6	8.286	8.286	26.5366	33.946 r	303.6	13.26	0.974	0.974	0.4	4.8046	2.4330	2058.56	8.144						
75.2	74.5	6.192	6.192	27.0682	33.979	284.6	19.43	1.475	1.475	5.1	5.1220	2.5659	2103.65	8.040						
100.6	99.7	5.803	5.803	27.2774	34.031	286.8	20.34	1.522	1.522	6.2	5.1220	2.5659	2118.17	8.036						
200.7	198.9	5.172	5.172	27.8696	34.102	289.3	22.23	1.544	1.544	7.8	5.0959	2.6026		8.020						
250.6	248.3	5.088	5.088	28.1274	34.125	285.0	22.94	1.579	1.579	9.1	4.9062	2.4507		8.015						
299.7	296.9	5.026	5.026	28.3751	34.144	282.4	23.06	1.608	1.608	9.7	5.3905	2.9828		8.010						
401.4	397.6	4.914	4.914	28.8763	34.167	277.4	23.81	1.696	1.696	11.9	4.7352	2.3793		8.001						
425.6	421.5	4.874	4.874	29.0196	34.171 r	278.7	23.81	1.696	1.696	12.1	4.7202	2.4233		8.002						

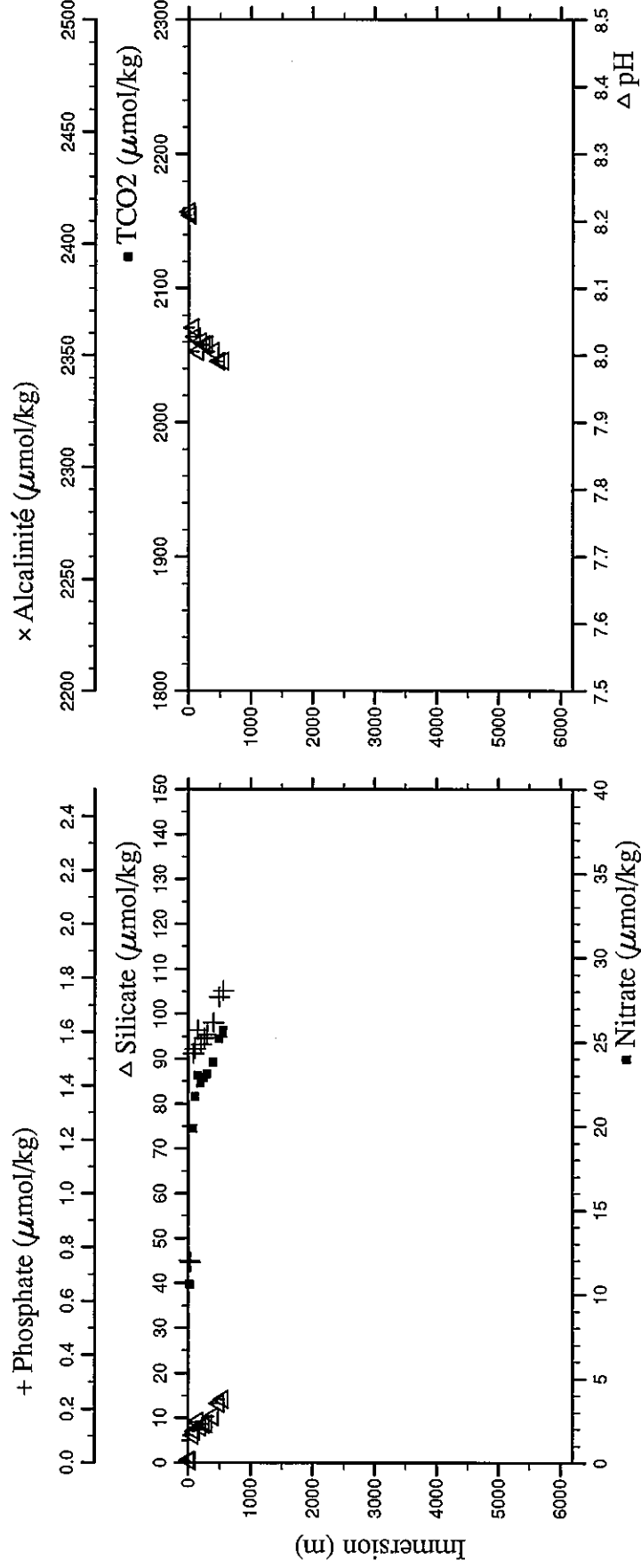
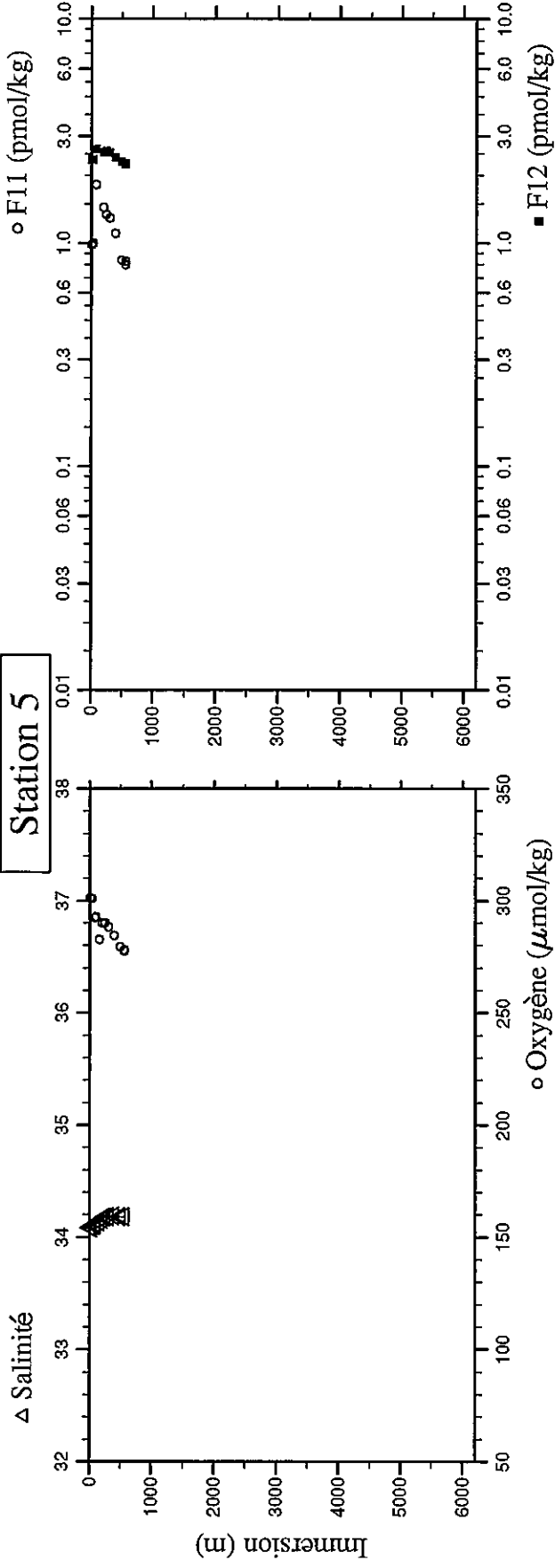
### Station 4



Station : 5 Campagne : CIPHER 2  
 Date : 10-01-94 Heure : 8 h 58 mn  
 Position : S 49 51.79 W 56 21.65  
 Dernier niveau à : 567  
 Nb prélèvements : 12

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI-	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
11.4	11.3	9.328	26.4011	34.085	301.1	10.62	0.751	0.5	4.6478	2.3579			8.214
30.7	30.4	9.311	26.4906	34.083	301.0	10.59	0.745	0.4	4.6634	2.3604			8.209
77.3	76.6	5.787	27.2263	34.102	292.3	19.87	1.520	6.2	5.2787	2.6250			8.041
101.9	101.0	5.240	27.4142	34.112	292.7	21.76	1.537	7.0					8.028
151.5	150.1	5.053	27.6865	34.139	282.7	23.02	1.606	9.2					8.006
199.9	198.1	4.976	27.9344	34.158	290.1	22.55	1.554	7.9	5.0407	2.5463			8.020
251.1	248.8	4.950	28.1886	34.176	290.0	22.87	1.577	8.6	4.9594	2.5800			8.016
301.0	298.2	4.894	28.4304	34.184	288.3	23.10	1.589	8.7	4.9281	2.5253			8.016
400.2	396.4	4.704	28.9125	34.188	284.3	23.81	1.635	10.4	4.7631	2.4113			8.006
501.0	496.1	4.388	29.4118	34.184	279.4	25.20	1.729	13.3	4.4859	2.3027			7.991
563.5	557.9	4.370	29.7000	34.183	278.1	25.50	1.752	14.2	4.4424	2.2522			7.991
563.6	558.0	4.371	29.6995	34.184	277.5	25.71	1.752	14.1	4.4770	2.2608			7.991

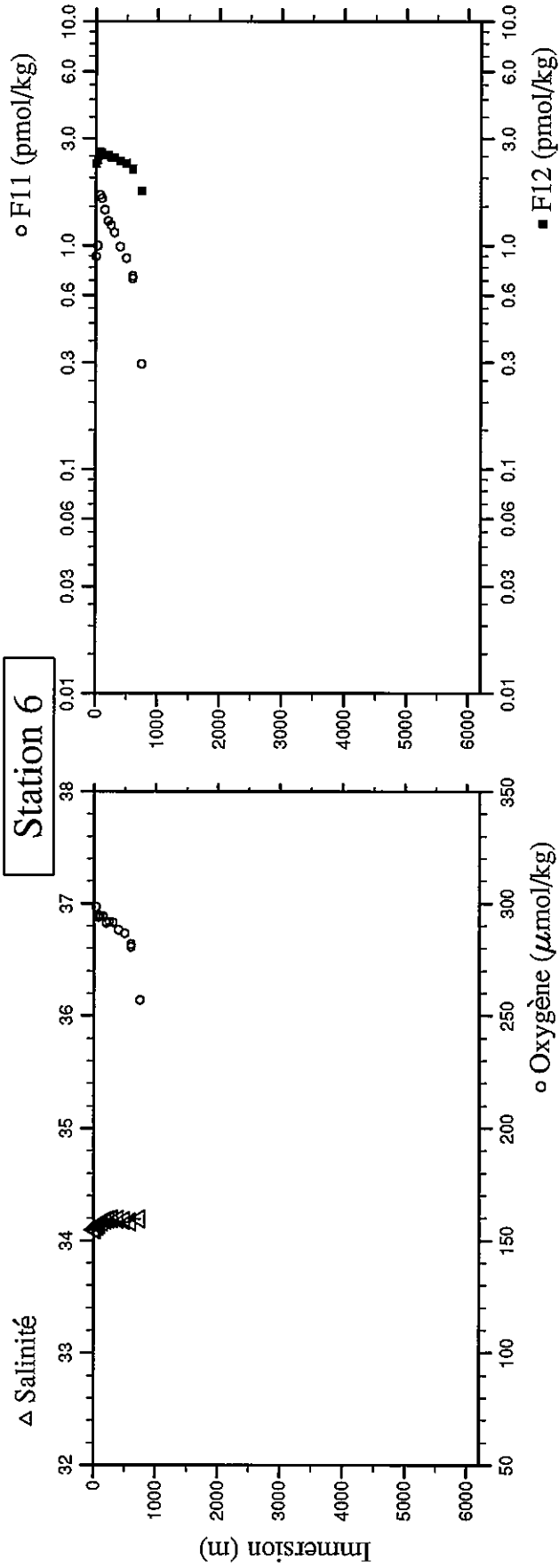
# Station 5



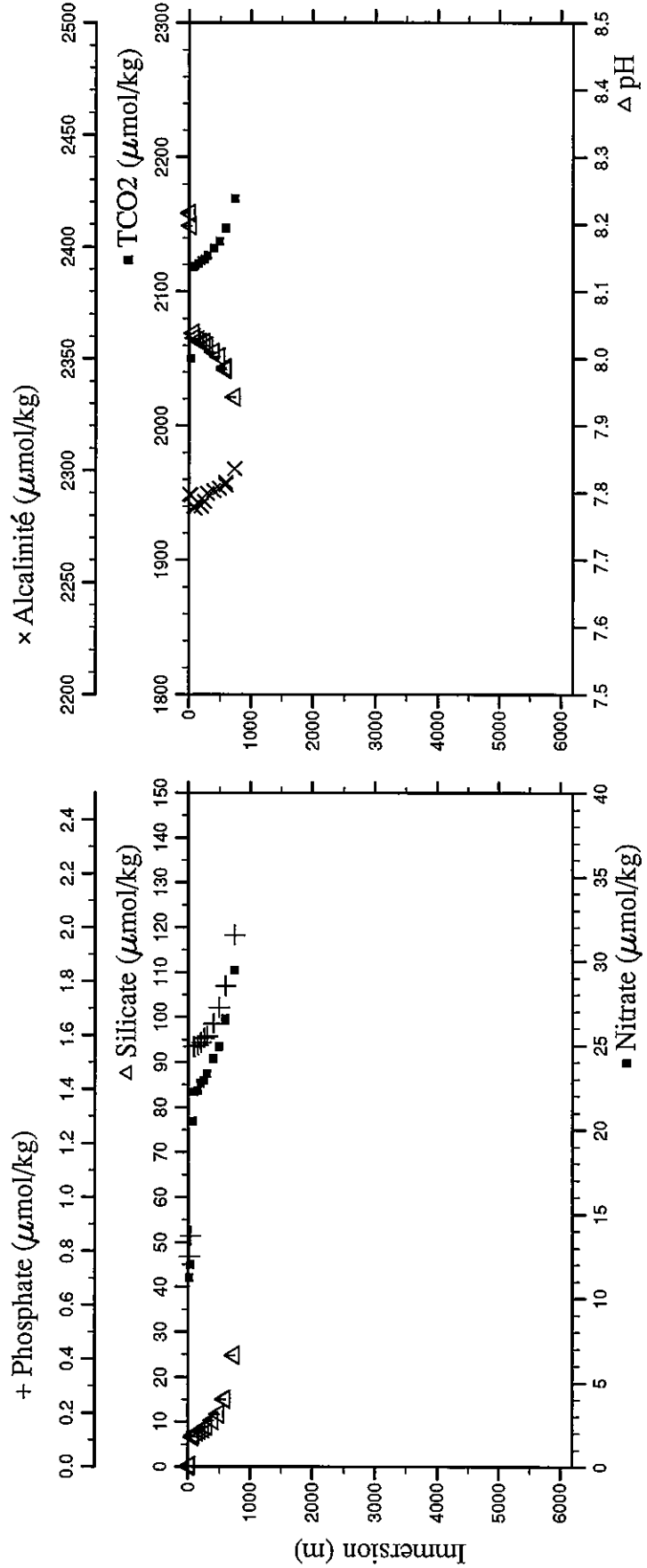
Station : 6 Campagne : CITHER 2  
 Date : 10-01-94 Heure : 13 h 6 mn  
 Position : S 49 26.72 W 55 56.47  
 Dernier niveau à : 750  
 Nb prélèvements : 13

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHEMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
9.7	9.6	9.519	26.3700	34.097	300.1	11.22	0.780	0.0	4.5494	2.3230	2040.77	2289.3	8.217
30.7	30.4	9.158	26.5233	34.095	298.4	12.01	0.857	0.3	4.6670	2.4068	2050.06	2288.9	8.198
76.1	75.4	5.409	27.2849	34.126	293.7	20.51	1.559	6.7	5.1958	2.6172	2118.29	2283.8	8.038
101.0	100.1	5.102	27.4492	34.141	294.5	22.24	1.559	7.0	5.1594	2.5929	2119.09	2283.2	8.031
150.4	149.1	4.973	27.7087	34.162	294.4	22.29	1.563	7.7	5.0361	2.5246	2120.78	2286.0	8.028
201.2	199.4	4.952	27.9604	34.179	291.3	22.76	1.572	8.1	4.9184	2.5324	2123.19	2284.1	8.024
252.5	250.2	4.893	28.2119	34.190	291.8	22.92	1.589	8.5	4.8813	2.4680	2124.41	2286.2	8.024
300.6	297.8	4.813	28.4447	34.192	291.4	23.33	1.597	9.0	4.8023	2.4554	2126.94	2289.6	8.019
401.9	398.1	4.594	28.9342	34.187	288.3	24.20	1.643	10.3	4.6525	2.3774	2132.20	2291.0	8.010
501.7	496.8	4.294	29.4241	34.180	286.6	24.91	1.702	11.8	4.5333	2.3190	2137.50	2292.1	8.003
601.8	595.8	3.886	29.9192	34.168	281.8	26.48	1.783	15.2	4.3203	2.1884	2147.23	2294.6	7.987
602.5	596.5	3.884	29.9240	34.167	280.5	26.58	1.783	15.1	4.3509	2.2050	2293.4	2293.4	7.984
747.7	740.0	3.434	30.6634	34.193	257.0	29.46	1.972	24.9	3.4302	1.7509	2169.12	2300.7	7.943

Station 6



○ Oxygène ( $\mu\text{mol/kg}$ )

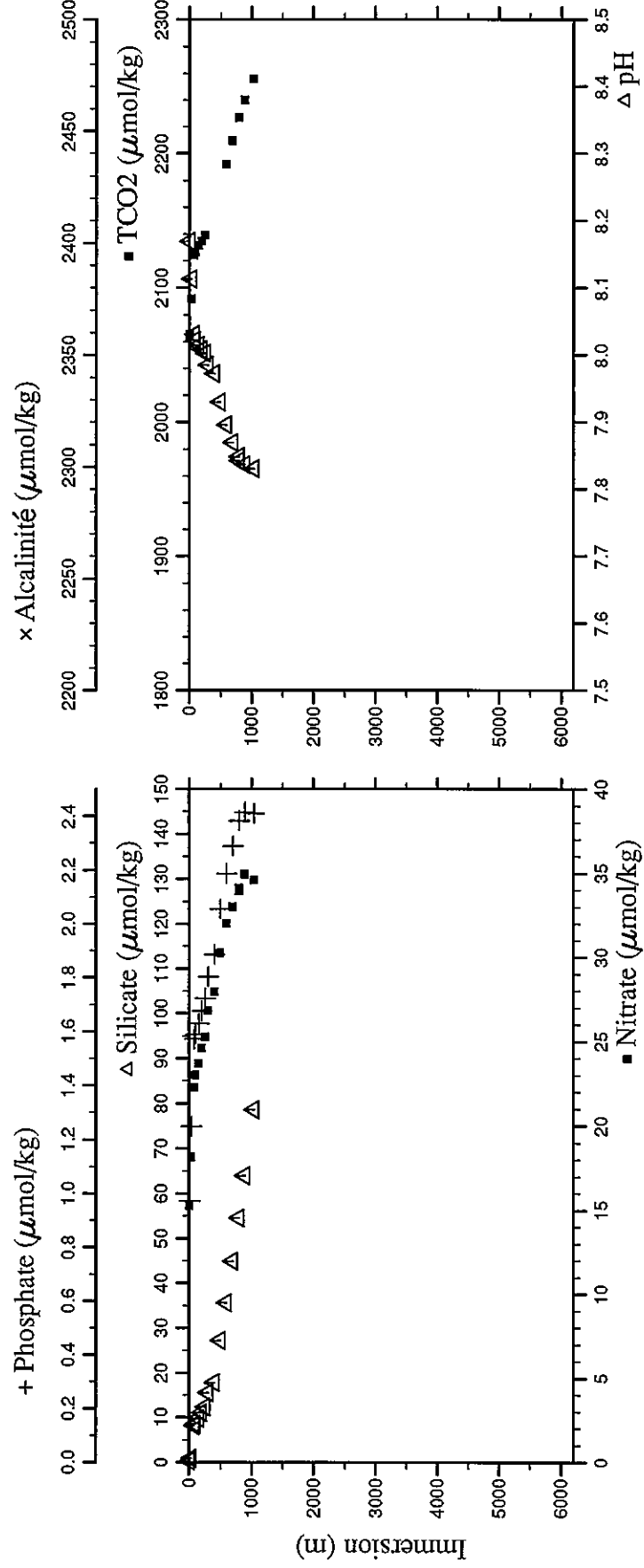
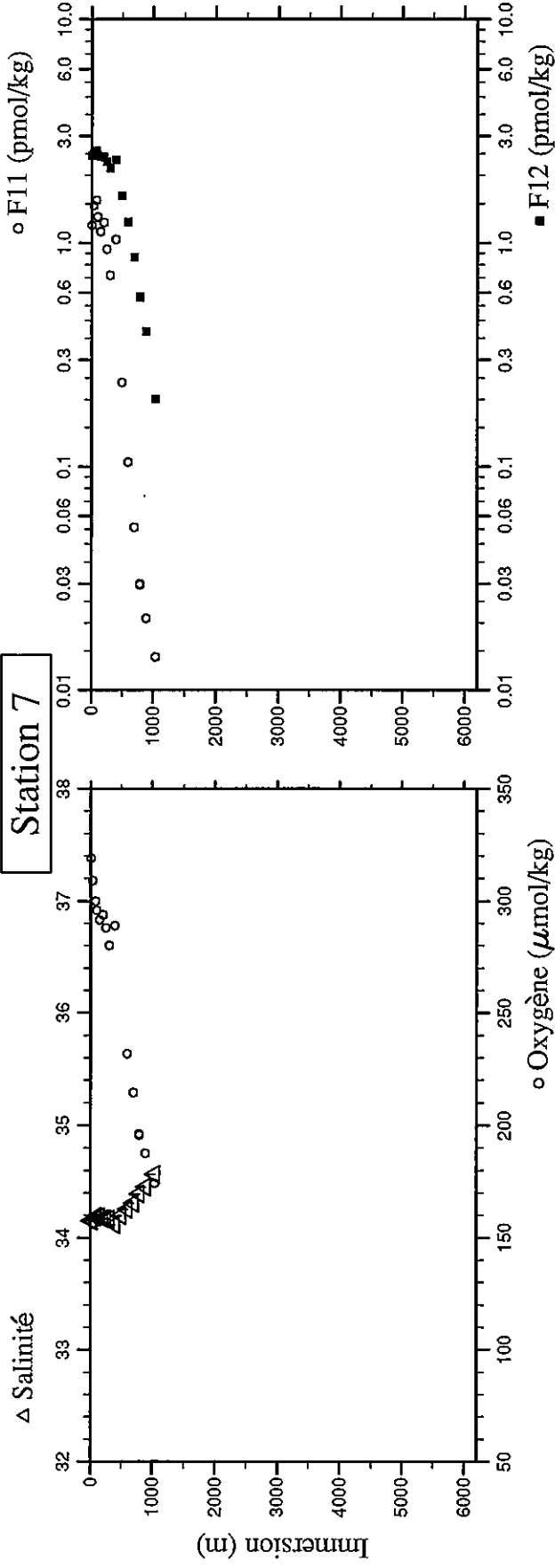


Station : 7 Campagne : CITHER 2  
 Date : 10-01-94 Heure : 17 h 19 mn  
 Position : S 49 1.51 W 55 31.65  
 Dernier niveau à : 1052  
 Nb prélèvements : 16

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.8	7.7	8.658	26.5465	34.153	318.9	15.29	0.974	0.3	4.8485	2.4613	2065.20		8.169
31.4	31.1	7.066	26.8842	34.151	309.0	18.16	1.249	0.9	5.0559	2.5305	2091.50		8.113
76.9	76.2	4.938	27.3893	34.181	299.8	22.26	1.572	8.2	5.1089	2.5743	2124.35		8.031
101.0	100.1	4.798	27.5257	34.192	295.8	23.01	1.589	8.6	4.9369	2.4758	2126.58		8.023
150.5	149.2	4.567	27.7779	34.190	291.6	23.68	1.630	9.8	4.7856	2.4242	2131.62		8.015
201.1	199.3	4.249	28.0341	34.171	293.9	24.62	1.677	11.1	4.8786	2.4223	2134.72		8.008
251.5	249.2	4.066	28.2866	34.171	287.9	25.28	1.723	12.4	4.5973	2.3063	2139.22		8.003
302.1	299.3	3.838	28.5430	34.170	280.2	26.85	1.804	15.6	4.3270	2.1602			7.985
400.6	396.8	3.016	29.0457	34.118	288.9	27.96	1.886	17.9	4.7029	2.3493			7.973
499.8	495.0	3.125	29.5557	34.197	252.2	30.28	2.057	27.3	3.2127	1.6184			7.930
601.0	595.0	3.049	30.0782	34.252	231.9	32.05	2.188	35.7	2.3807	1.2374	2192.07		7.896
701.3	694.2	2.868	30.6075	34.313	214.6	33.01	2.288	44.9	1.6968	0.8622	2209.54		7.870
801.2	792.9	2.667	31.1520	34.390	195.6	33.97	2.384		1.0969	0.5699	2227.05		7.843
801.7	793.4	2.672	31.1532	34.390	196.1	34.13	2.382	54.6	1.1091	0.5767			7.849
900.5	890.9	2.506	31.6791	34.455	187.6	34.94	2.413	64.0	0.7480	0.4033	2239.90		7.837
1050.2	1038.7	2.289	32.4755	34.564	174.4	34.61	2.409	78.6	0.3455	0.2007	2255.85		7.831



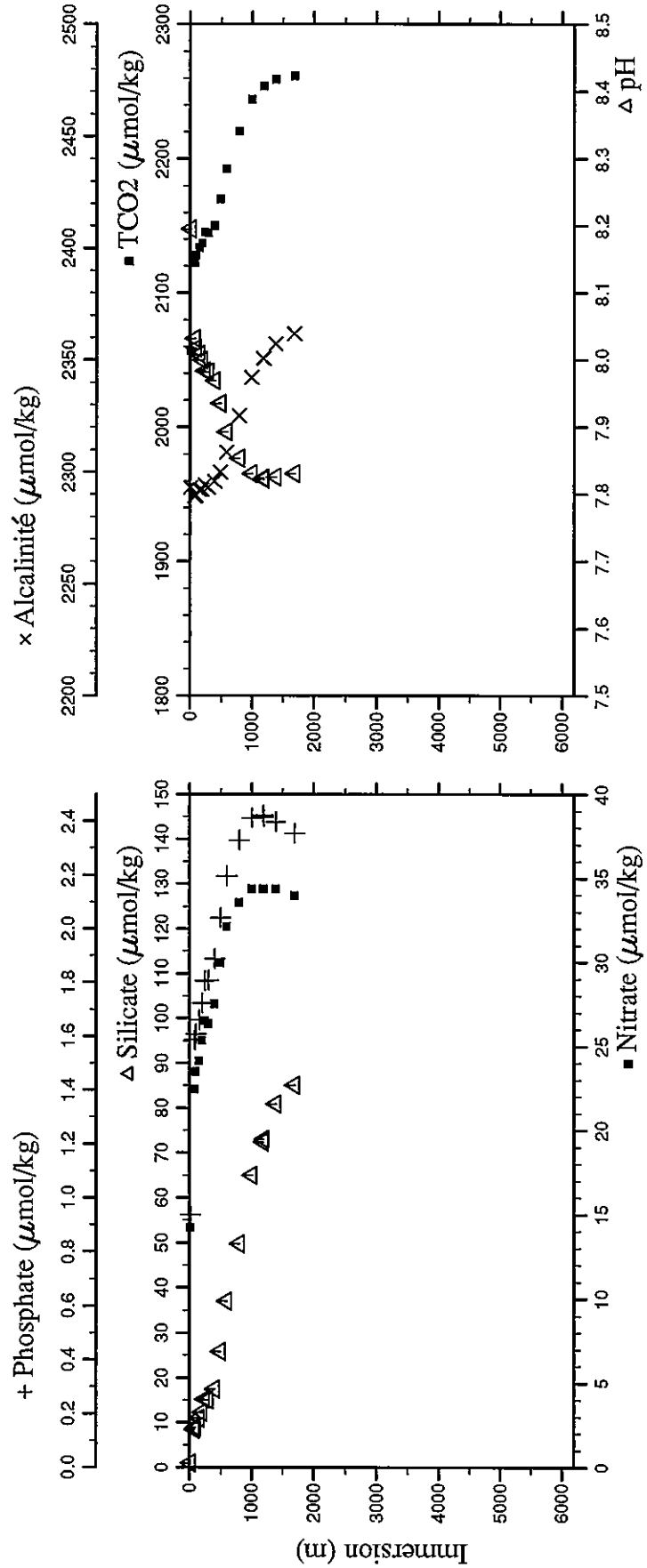
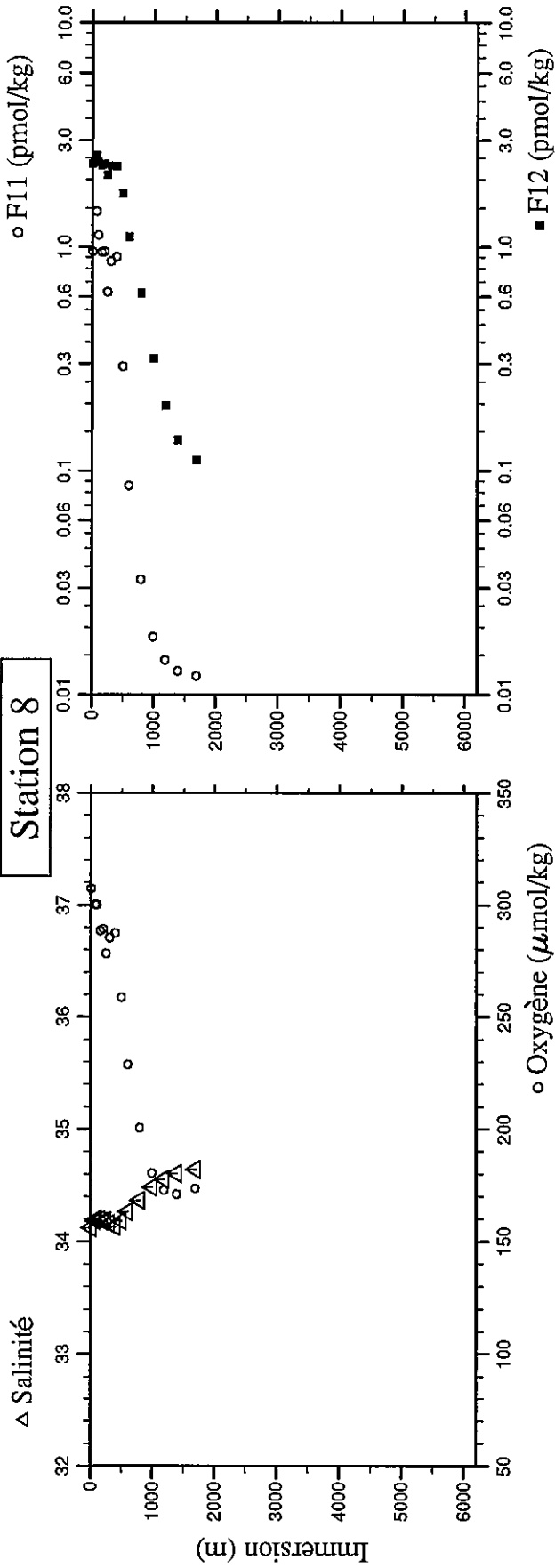
# Station 7



Station : 8 Campagne : CIPHER 2  
 Date : 10-01-94 Heure : 21 h 0 mn  
 Position : S 48 40.47 W 55 11.71  
 Dernier niveau à : 1714  
 Nb prélèvements : 18

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
8.9	8.8	9.287	26.4239	34.120	307.4	14.25	0.938	0.9	4.6186	2.3639	2056.87	2292.9	8.136
74.6	74.0	4.974	27.3755	34.184	300.2	22.44	1.587	8.4	5.0375	2.5626	2122.80	2289.3	8.032
100.2	99.3	4.757	27.5301	34.198	300.2	23.49	1.609	9.0	4.7902	2.3862	2128.05	2289.5	8.018
151.3	150.0	4.545	27.7888	34.196	288.5	24.13	1.661	11.0	4.6131	2.3238	2133.75	2292.0	8.008
200.2	198.4	4.198	28.0387	34.176	289.3	25.35	1.724	12.3	4.6153	2.3424	2137.23	2292.0	8.000
249.6	247.3	4.033	28.2879	34.183	278.3	26.50	1.807	15.2	4.1947	2.1056	2145.42	2294.3	7.984
301.2	298.4	3.766	28.5406	34.160	285.5	26.35	1.808	15.0	4.5167	2.3064	2144.44	2293.1	7.982
400.5	396.7	3.184	29.0366	34.132	287.5	27.51	1.889	17.5	4.5664	2.2947	2150.04	2295.7	7.969
500.0	495.2	3.057	29.5524	34.183	258.8	29.98	2.041	25.9	3.4175	1.7275	2170.22	2299.8	7.935
600.0	594.1	3.128	30.0742	34.266	228.7	32.14	2.196	37.0	2.1816	1.1088	2192.40	2308.7	7.893
800.8	792.5	2.754	31.1217	34.368	200.5	33.57	2.329	49.7	1.1979	0.6216	2220.59	2325.1	7.854
1006.2	995.3	2.445	32.1935	34.485	180.5	34.37	2.411	65.0	0.5994	0.3176	2244.25	2342.0	7.831
1199.6	1186.0	2.310	33.1500	34.556	172.9	34.37	2.422	72.4	0.3594	0.1948	2350.6	2350.6	7.824
1201.5	1187.9	2.310	33.1580	34.557	172.8	34.37	2.416	73.0	0.3581	0.1948	2254.02	2350.5	7.823
1401.3	1384.8	2.199	34.1211	34.605	170.9	34.37	2.397	80.9	0.2459	0.1373	2258.99	2357.1	7.826
1713.6	1692.2	2.101	35.5772	34.640	173.6	33.95	2.355	85.1	0.1893	0.1120	2261.78	2361.6	7.831

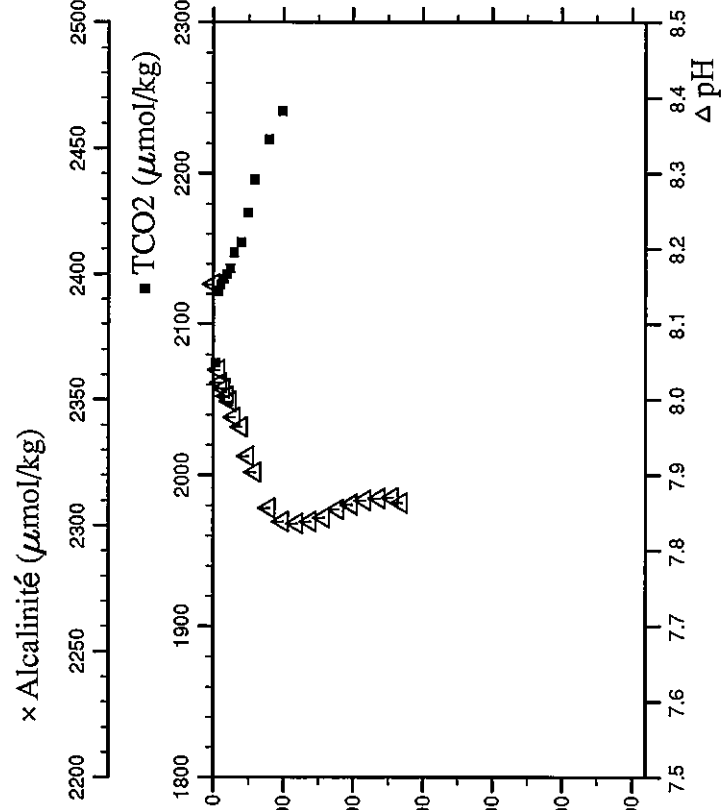
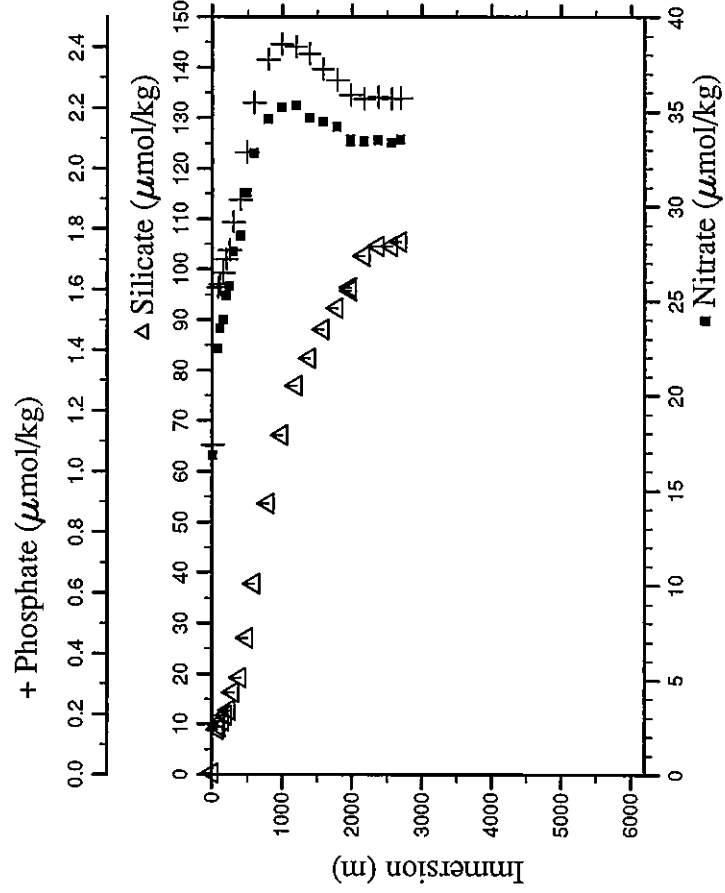
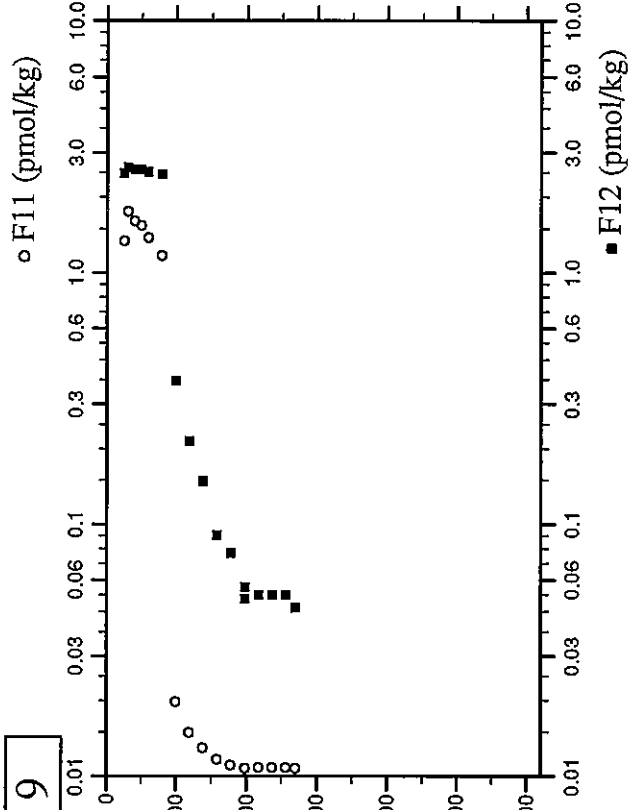
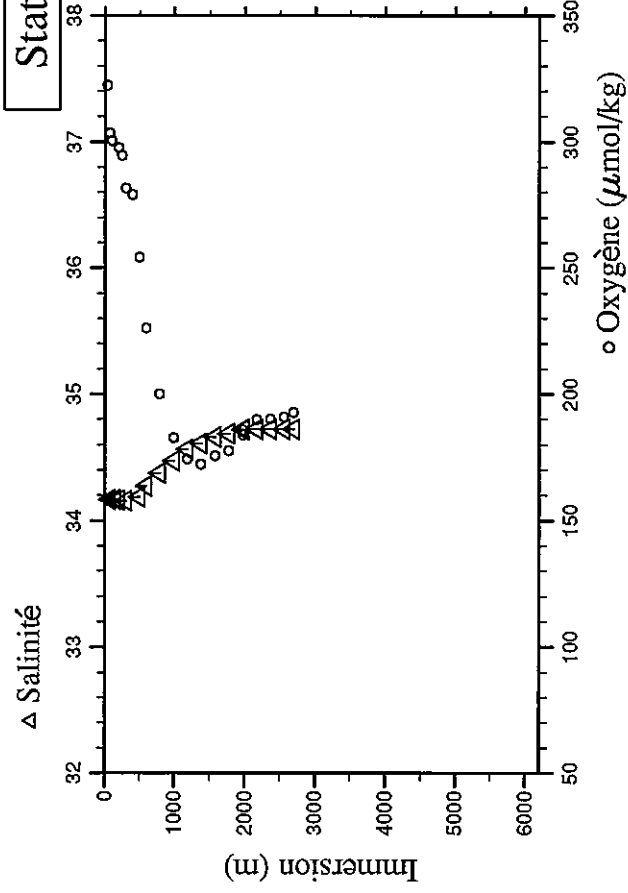
**Station 8**



Station : 9 Campagne : CITHER 2  
 Date : 11-01-94 Heure : 0 h 19 mn  
 Position : S 48 30.97 W 55 2.31  
 Dernier niveau à : 2742  
 Nb prélèvements : 23

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
6.0	5.9	8.140	27.3236			16.84	1.087	0.3			2074.23		8.153
30.8	30.5	7.691	26.7742	34.150 r	322.2						2121.94		8.040
75.9	75.2	5.194	27.3419	34.166	303.5	22.47	1.606	8.9			2126.62		8.023
102.9	102.0	4.662	27.5321	34.177 r	300.3	23.56	1.617	9.5			2130.21		8.015
150.9	149.6	4.382	27.7812	34.166	300.9 r	24.01	1.655	10.6			2133.34		8.005
201.1	199.3	4.090	28.0432	34.162	297.5	25.30	1.699	11.7			2137.17		7.998
249.4	247.1	3.842	28.2793	34.154 r	294.6	25.76	1.729	12.7	4.9608	2.4883	2147.61		7.977
301.6	298.8	3.621	28.5568	34.159	281.5	27.59	1.822	16.3	5.2355	2.6159	2154.58		7.964
400.9	397.1	3.234	29.0479	34.154 r	279.0	28.43	1.897	19.2	5.1443	2.5701	2173.77		7.925
500.6	495.8	3.044	29.5672	34.190	254.1	30.72	2.053	27.1	5.1017	2.5211	2195.75		7.904
601.0	595.1	3.082	30.0940	34.276	226.2	32.81	2.218	37.8	4.9941	2.4644	2222.41		7.857
799.9	791.6	2.657	31.1339	34.375	199.9	34.62	2.358	53.7	4.8225	0.3722	2241.29		7.839
999.5	988.7	2.406	32.1610	34.475	182.8	35.21	2.410	67.2	0.6913	0.2144			7.836
1201.4	1187.8	2.245	33.1725	34.563	174.3	35.31	2.402	76.9	0.4055	0.1481			7.839
1400.4	1383.9	2.154	34.1307	34.613	172.4	34.68	2.379	82.4	0.2609	0.1568			7.855
1600.5	1580.9	2.022	35.0980	34.663	175.6	34.47	2.328	88.1	0.1031	0.0770			7.862
1801.0	1778.1	1.920	36.0388	34.689	177.7	34.22	2.291	92.3	0.0709	0.0507			7.861
2000.8	1974.5	1.793	36.9777	34.718	183.8	33.54	2.243	96.4	0.0710	0.0565			7.867
2002.0	1975.7	1.792	36.9836	34.720	185.7	33.42	2.243	95.8	0.0813	0.0526			7.869
2200.2	2170.2	1.543	37.9110	34.722	189.9	33.41	2.230	102.7	0.0782	0.0526			7.870
2400.5	2366.7	1.482	38.8179	34.722	190.2	33.50	2.236	104.6	0.0764	0.0526			7.863
2600.4	2562.6	1.457	39.7125	34.722	190.8	33.37	2.230	104.6	0.0738				
2738.5	2697.8	1.451	40.3270	34.723	192.6	33.51	2.232	105.4					

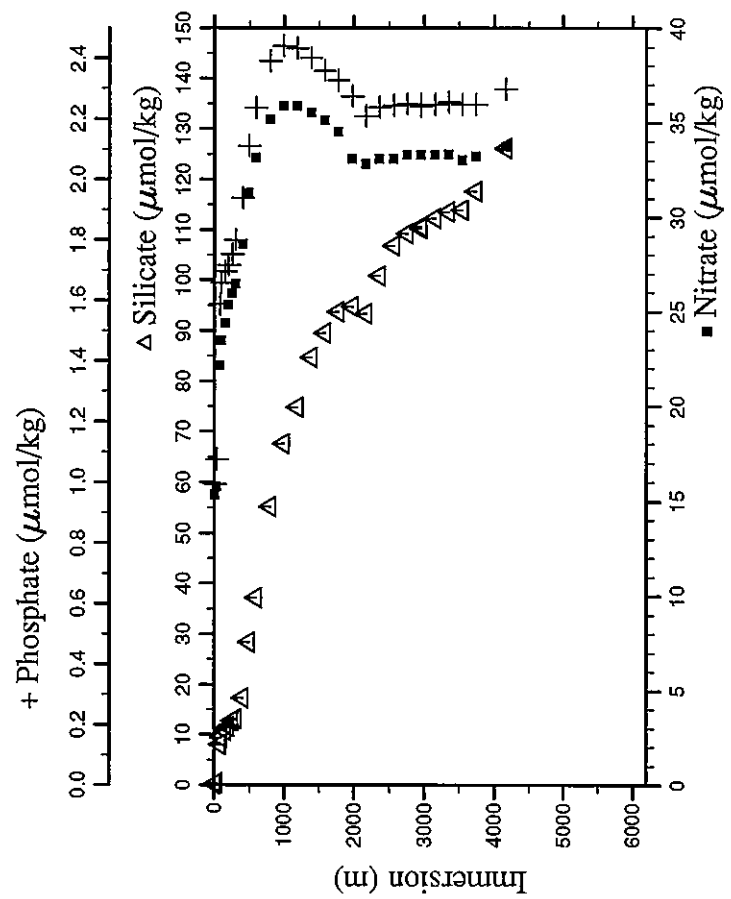
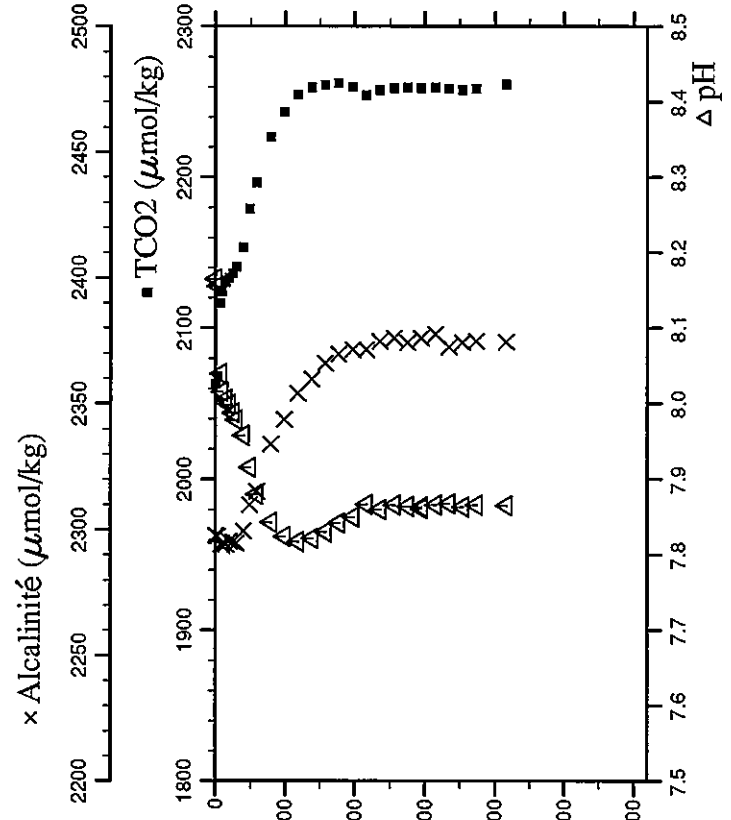
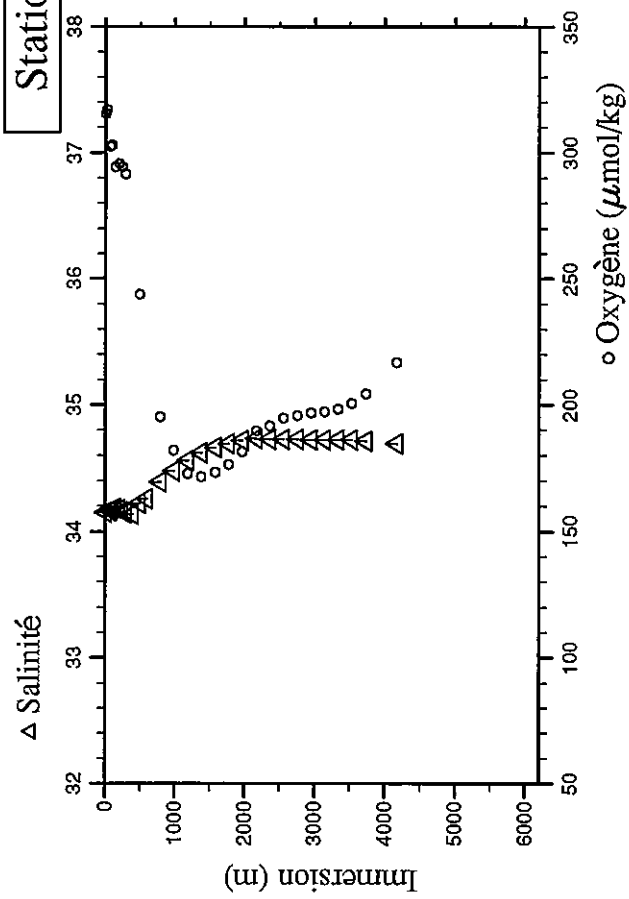
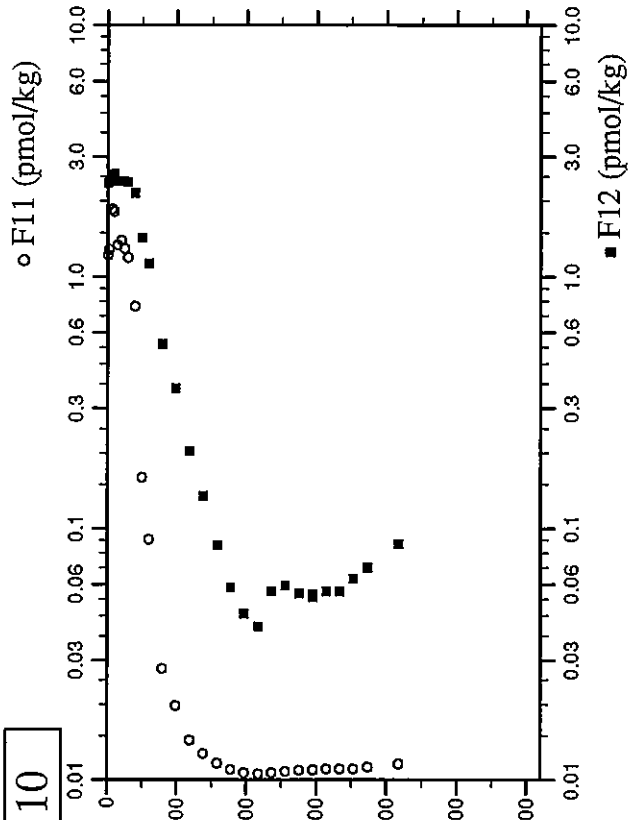
# Station 9



Station : 10 Campagne : CITHER 2  
 Date : 11-01-94 Heure : 5 h 1 mn  
 Position : S 48 27.02 W 54 58.03  
 Dernier niveau à : 4246  
 Nb prélèvements : 29

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
6.7	6.6	8.691	26.5349	34.154	315.4	15.35	0.994	0.2	4.8671	2.3528	2063.01	2297.6	8.165
29.7	29.4	8.426	26.6935	34.153	317.0	15.77	1.076	0.4	4.9225	2.3800	2067.93	2297.2	8.156
75.8	75.1	5.540	27.2968	34.162	302.5	22.18	1.587	8.0	5.2940	2.5594	2116.59	2294.1	8.040
100.0	99.1	4.751	27.5108	34.171	302.9	23.48	1.657	9.5	5.2697	2.5545	2123.85	2293.6	8.016
149.8	148.5	4.445	27.7820	34.181	294.4	24.41	1.695	10.8	4.9640	2.3907	2130.18	2294.1	8.006
200.2	198.4	4.201	28.0331	34.172	295.7	25.35	1.716	11.6	5.0042	2.4044	2133.03	2295.2	7.999
250.7	248.4	3.946	28.2865	34.160	294.4	25.97	1.754	12.7	4.9247	2.3849	2136.16	2295.1	7.988
299.5	296.8	3.698	28.5290	34.146	291.6	26.49	1.799	13.1	4.8418	2.3694	2140.34	2294.6	7.979
400.7	396.9	3.108	29.0512	34.137	266.1	28.57	1.940	17.3	4.3933	2.1462	2153.49	2299.4	7.958
500.7	495.9	3.242	29.5690	34.223	243.6	31.28	2.111	28.4	2.8084	1.4278	2179.00	2309.7	7.916
600.5	594.6	2.907	30.0968	34.262	227.9	33.16	2.237	37.2	2.2303	1.1266	2196.48	2315.2	7.880
800.8	792.5	2.669	31.1514	34.394	195.1	35.14	2.391	55.2	1.0350	0.5389	2226.92	2334.0	7.843
998.6	987.8	2.383	32.1569	34.479	181.9	35.86	2.441	67.6	0.6899	0.3615	2243.49	2343.7	7.824
1200.0	1186.5	2.274	33.1591	34.560	172.7	35.86	2.433	74.8	0.3724	0.2027	2254.96	2353.9	7.818
1399.3	1382.9	2.136	34.1328	34.621	171.5	35.54	2.401	84.7	0.2462	0.1345	2259.30	2359.6	7.822
1599.5	1580.0	2.034	35.0890	34.662	173.2	35.12	2.358	89.6	0.1540	0.0857	2261.03	2365.9	7.830
1799.2	1776.4	1.919	36.0304	34.690	176.3	34.50	2.327	93.7	0.0969	0.0585	2262.28	2369.4	7.842
1999.2	1972.9	1.816	36.9652	34.715	181.5	33.09	2.274	94.8	0.0700	0.0458	2260.00	2371.3	7.850
2197.4	2167.5	1.733	37.8835	34.730	189.6	32.82	2.208	93.4	0.0556	0.0409	2254.27	2371.2	7.867
2399.6	2365.8	1.502	38.8140	34.726	191.5	33.10	2.238	100.8	0.0682	0.0565	2257.91	2374.5	7.860
2600.0	2562.2	1.283	39.7383	34.726	194.7	33.09	2.245	106.8	0.0799	0.0594	2259.26	2375.9	7.866
2799.9	2757.9	1.216	40.6347	34.725	195.7	33.30	2.248	109.3	0.0922	0.0555	2259.31	2374.2	7.864
2999.5	2953.2	1.175	41.5241	34.723	196.8	33.29	2.241	110.7	0.0895	0.0546	2259.02	2375.9	7.861
3000.6	2954.3	1.175	41.5286	34.722	196.7	33.29	2.247	110.3	0.0941	0.0536	2376.0	2376.0	7.863
3200.2	3149.3	1.122	42.4149	34.721	197.1	33.28	2.247	112.3	0.1028	0.0565	2259.58	2377.3	7.866
3399.6	3344.0	1.088	43.2946	34.720	198.2	33.32	2.256	113.6	0.1036	0.0565	2258.82	2372.3	7.868
3598.2	3537.8	1.023	44.1743	34.722	200.6	33.01	2.247	113.9	0.1032	0.0633	2257.84	2374.1	7.863
3798.7	3733.2	0.824	45.0748	34.713	204.3	33.21	2.246	117.7	0.1228	0.0701	2258.69	2374.6	7.866
4243.4	4166.0	0.226	47.0848	34.690	216.9	33.73	2.298	126.2	0.1493	0.0867	2261.68	2374.3	7.865

# Station 10

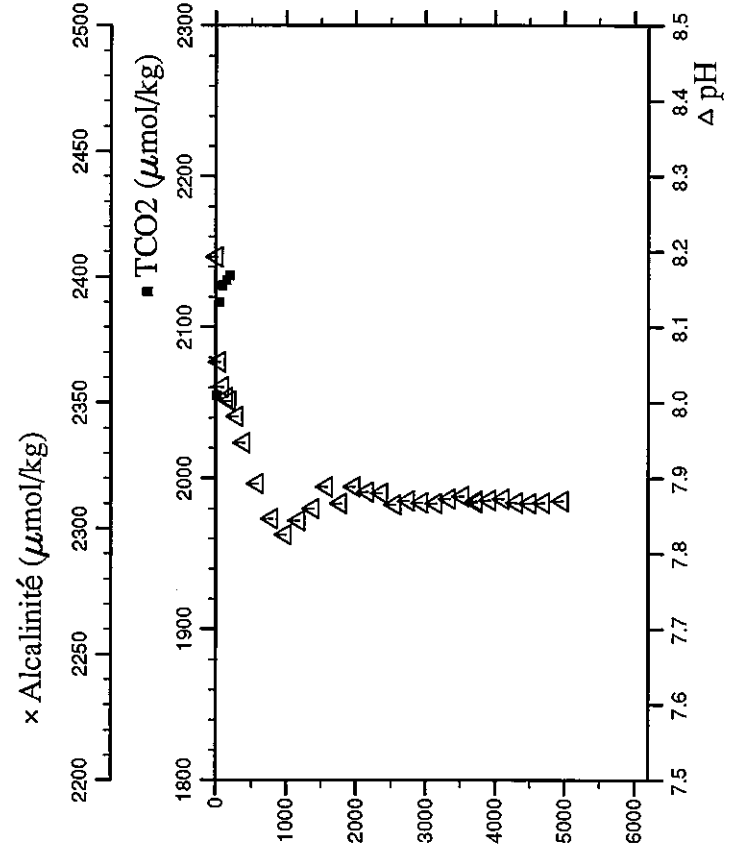
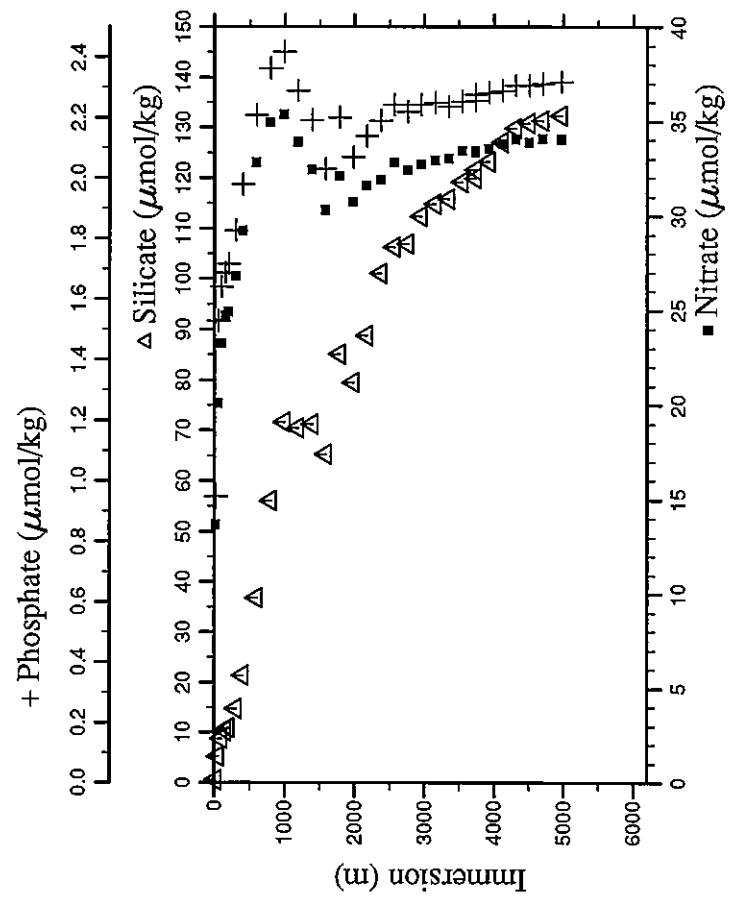
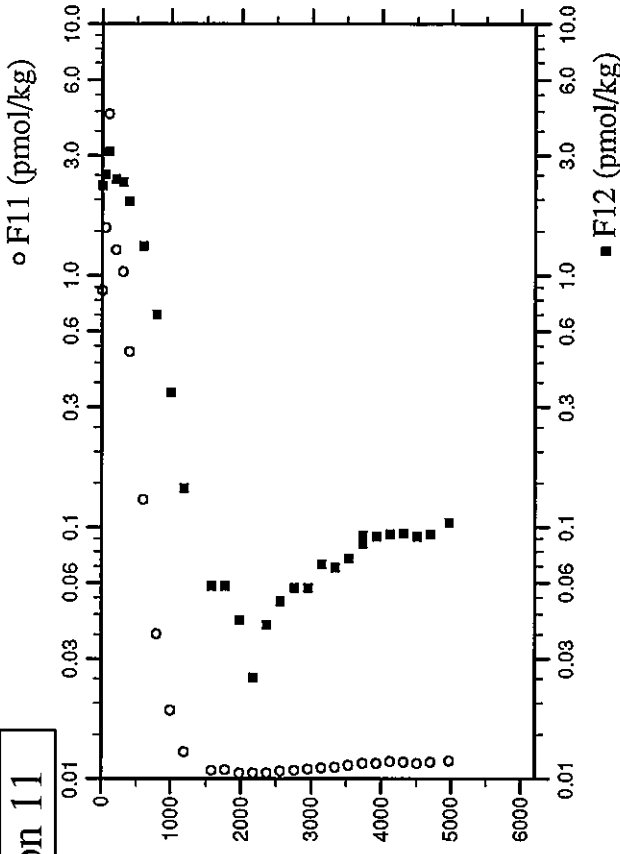
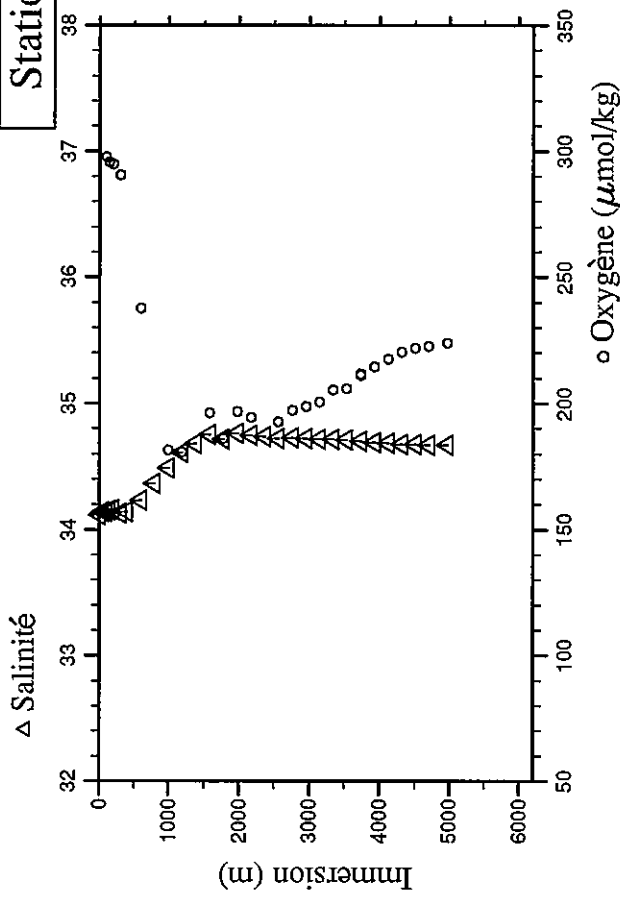


Station : 11 Campagne : CIPHER 2  
 Date : 11-01-94 Heure : 11 h 14 mn  
 Position : S 48 15.57 W 54 47.44  
 Dernier niveau à : 5072  
 Nb prélèvements : 31

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
9.3	9.2	9.804	26.3408	34.118	304.1	13.68	0.950	0.6	4.5274	2.2846	2054.97		8.193
51.5	51.1	6.383	27.0590	34.142	294.0	20.10	1.528	5.2	5.1095	2.5156	2116.84		8.054
101.1	100.2	4.939	27.4739	34.144	297.5	23.27	1.640	8.8	6.1629	3.1071	2127.90		8.021
150.6	149.3	4.435	27.7659	34.153	295.7	24.75	1.687	10.3			2131.26		8.007
201.8	200.0	4.226	28.0343	34.160	294.9	24.92	1.717	11.0	4.9047	2.4142	2133.86		8.002
300.4	297.7	3.556	28.5376	34.131	290.5	26.83	1.828	14.8	4.7000	2.3401			7.982
400.8	394.5	3.111	29.0584	34.141	271.8	29.22	1.980	21.4	3.9569	1.9659			7.947
600.4	594.0	2.699	30.0997	34.236	237.6	32.82	2.209	36.8	2.5893	1.3059			7.893
801.0	792.7	2.460	31.1562	34.368	202.7	34.94	2.363	56.1	1.3431	0.6967			7.846
1001.4	990.6	2.342	32.1884	34.489	181.5	35.35	2.419	71.6	0.6396	0.3420			7.825
1200.1	1186.6	2.511	33.1716	34.608	180.6	33.89	2.289	70.5	0.2507	0.1432			7.844
1399.6	1383.2	2.513	34.1410	34.683	191.7	32.43	2.191	71.3					7.860
1600.3	1580.8	2.588	35.0946	34.751	196.1	30.31	2.030	65.3	0.0798	0.0585			7.889
1800.6	1777.8	2.119	36.0371	34.719	186.0	32.10	2.200	85.1	0.0874	0.0585			7.867
1999.9	1973.6	2.130	36.9657	34.762	196.8	30.76	2.069	79.5	0.0541	0.0429			7.889
2199.7	2169.8	1.846	37.8906	34.749	194.5	31.59	2.139	88.8	0.0561	0.0253			7.882
2400.9	2367.1	1.567	38.8205	34.737	194.0	31.90	2.190	101.1	0.0533	0.0409			7.880
2599.2	2561.5	1.366	39.7214	34.722	192.6	32.83	2.242	106.3	0.0756	0.0507			7.865
2799.3	2757.4	1.282	40.6273	34.726	197.3	32.41	2.219	106.9	0.0787	0.0575			7.870
2998.6	2952.4	1.123	41.5292	34.722	198.8	32.72	2.242	112.4	0.0921	0.0575			7.868
3200.1	3149.3	1.021	42.4303	34.718	200.5	32.92	2.248	114.8	0.1031	0.0711			7.867
3398.9	3343.4	0.915	43.3205	34.719	205.4	33.02	2.236	115.9	0.1082	0.0692			7.873
3598.2	3537.8	0.737	44.2147	34.710	205.9	33.44	2.254	119.2	0.1263	0.0750			7.876
3798.9	3733.5	0.526	45.1167	34.702	211.8	33.43	2.277	121.6	0.1437	0.0857			7.870
3998.4	3734.0	0.523	45.1198	34.702	211.3	33.33	2.256	119.9	0.1428	0.0926			7.868
3998.2	3927.6	0.346	46.0067	34.693	214.5	33.53	2.283	123.2	0.1461	0.0916			7.871
4199.1	4123.0	0.167	46.9015	34.685	217.6	33.80	2.289	127.0	0.1630	0.0935			7.873
4397.7	4316.1	0.017	47.7796	34.676	220.3	34.05	2.306	129.8	0.1578	0.0945			7.868
4598.8	4511.4	-0.044	48.6532	34.675	221.8	33.88	2.306	130.8	0.1449	0.0916			7.867
4797.3	4704.1	-0.084	49.5083	34.673	222.7	34.08	2.318	131.4	0.1579	0.0935			7.868
5070.9	4969.3	-0.127	50.6785	34.672	224.0	34.05	2.318	132.4	0.1661	0.1042			7.870



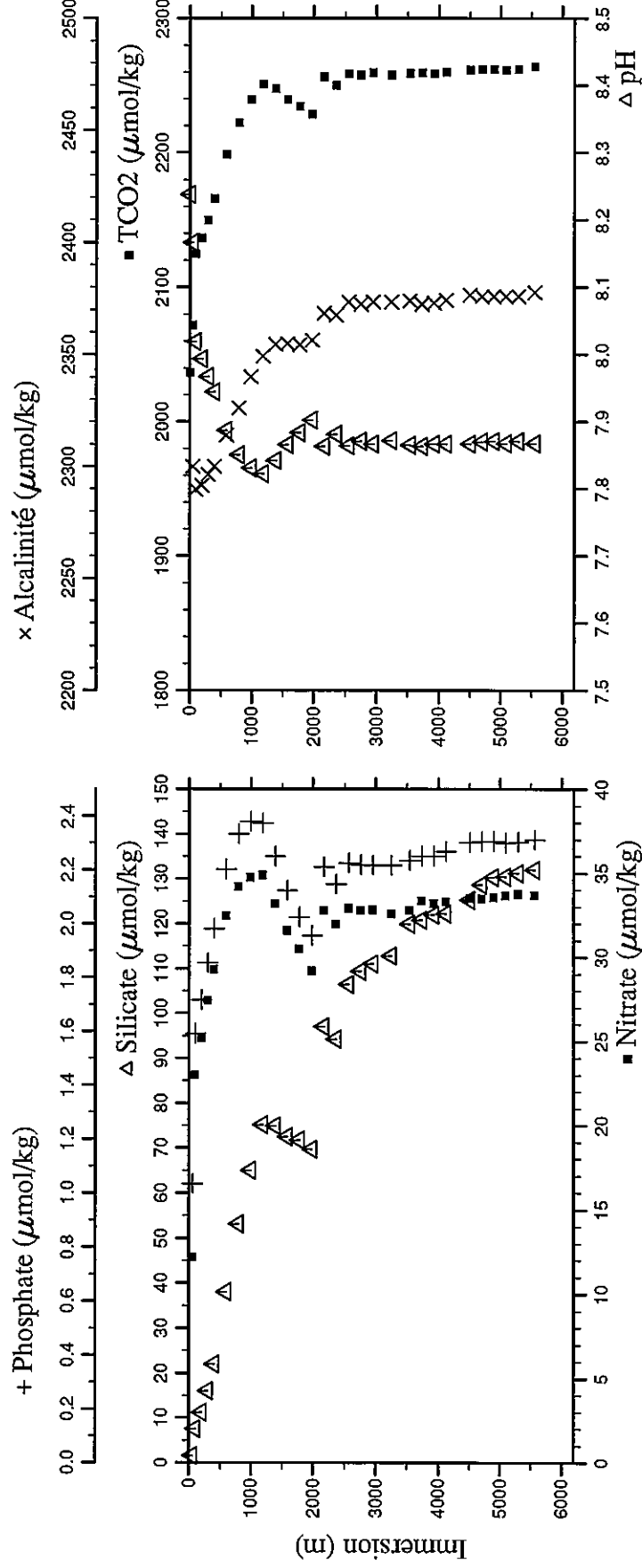
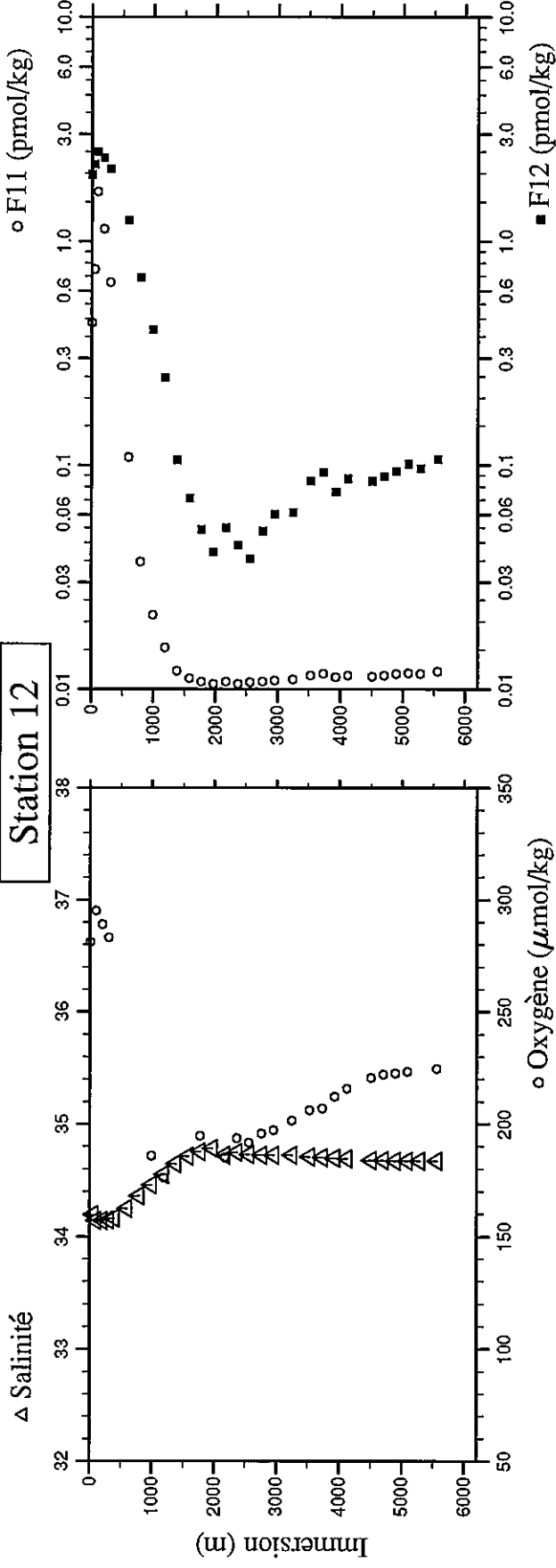
# Station 11



Station : 12 Campagne : CITHIER 2  
 Date : 11-01-94 Heure : 17 h 16 mn  
 Position : S 48 6.04 W 54 38.12  
 Dernier niveau à : 5681  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.5	4.5	12.442	25.9144	34.220	r 281.0				3.8173	1.9813	2036.39		8.238
49.7	49.3	9.434	26.6431	34.195	284.8	r 12.20	1.035	1.6	4.3753	2.2026	2071.97	2299.9	8.167
100.9	100.0	4.942	27.4721	34.142	295.0	23.02	1.593	7.5	5.1830	2.5068	2124.91	2289.6	8.019
200.9	199.1	4.219	28.0155	34.145	288.9	25.19	1.716	11.2	4.7929	2.3489	2136.63	2291.5	7.994
302.0	299.2	3.785	28.5309	34.147	283.2	27.41	1.855	16.1	4.2376	2.1033	2149.90	2296.2	7.968
400.5	396.8	3.336	29.0470	34.161	263.9	r 29.28	1.982	22.1			2165.68	2299.8	7.945
600.6	594.7	2.770	30.1031	34.248	232.7	r 32.46	2.203	38.0	2.4136	1.2363	2198.50	2313.9	7.887
799.8	791.6	2.563	31.1357	34.362	204.0	r 34.22	2.334	53.2	1.3260	0.6854	2222.39	2326.0	7.851
1001.0	990.2	2.427	32.1521	34.460	185.8	34.73	2.380	65.0	0.7728	0.4026	2239.71	2340.0	7.831
1200.3	1186.8	2.292	33.1509	34.550	176.0	34.88	2.374	75.2	0.4378	0.2466	2251.05	2349.1	7.823
1399.8	1383.4	2.408	34.1248	34.646	178.5	r 33.17	2.251	74.9	0.1927	0.1053	2247.82	2354.4	7.842
1600.3	1580.8	2.455	35.0809	34.713	186.9	r 31.61	2.123	71.5	0.1135	0.0712	2239.67	2354.8	7.866
1798.0	1775.3	2.419	36.0114	34.755	194.6	30.50	2.024	71.8	0.0780	0.0517	2234.39	2354.3	7.884
1998.5	1972.3	2.353	36.9455	34.785	204.5	r 29.19	1.956	69.7	0.0524	0.0409	2228.60	2356.4	7.902
2199.5	2169.6	1.767	37.8773	34.721	185.0	32.77	2.211	97.0	0.0804	0.0526	2256.49	2368.3	7.863
2399.9	2366.2	1.694	38.8021	34.749	193.7	31.98	2.148	94.2	0.0568	0.0439	2250.13	2367.4	7.881
2598.6	2560.9	1.378	39.7188	34.725	191.7	32.93	2.226	106.4	0.0735	0.0380	2258.83	2373.4	7.864
2798.1	2756.3	1.221	40.6263	34.723	195.6	32.78	2.219	109.4	0.0792	0.0507	2257.76	2372.3	7.871
2999.2	2953.0	1.133	41.5285	34.722	197.2	32.83	2.218	111.0	0.0896	0.0604	2259.39	2373.4	7.867
3298.1	3245.1	1.003	42.8648	34.722	201.4	32.58	2.218	112.8	0.1014	0.0614	2257.58	2373.3	7.872
3598.2	3537.9	0.738	44.2128	34.709	206.2	32.78	2.233	119.9	0.1452	0.0848	2259.03	2373.8	7.865
3798.9	3733.5	0.675	45.0949	34.704	206.9	33.34	2.251	120.8	0.1622	0.0926	2259.63	2372.2	7.863
3999.1	3928.5	0.465	45.9951	34.699	212.2	33.19	2.250	122.0	0.1273	0.0760	2258.60	2372.9	7.867
4198.9	4122.9	0.266	46.8859	34.692	215.7	33.29	2.267	122.2	0.1423	0.0867	2259.88	2374.1	7.867
4597.8	4510.5	0.001	48.6407	34.678	220.7	33.50	2.301	125.3	0.1351	0.0848	2261.42	2376.4	7.867
4798.7	4705.5	-0.058	49.5098	34.678	222.0	33.50	2.306	128.7	0.1453	0.0887	2261.91	2375.8	7.870
4996.6	4897.4	-0.102	50.3592	34.673	222.6	33.55	2.305	130.3	0.1593	0.0936	2261.96	2376.0	7.871
5197.8	5092.3	-0.123	51.2152	34.674	223.3	33.66	2.299	130.5	0.1692	0.1014	2261.80	2376.0	7.868
5398.0	5286.1	-0.143	52.0635	34.671	223.2	r 33.76	2.304	131.2	0.1632	0.0965	2261.86	2375.8	7.871
5680.6	5559.4	-0.170	53.2544	34.672	224.7	33.71	2.313	132.0	0.1865	0.1062	2264.13	2377.6	7.868

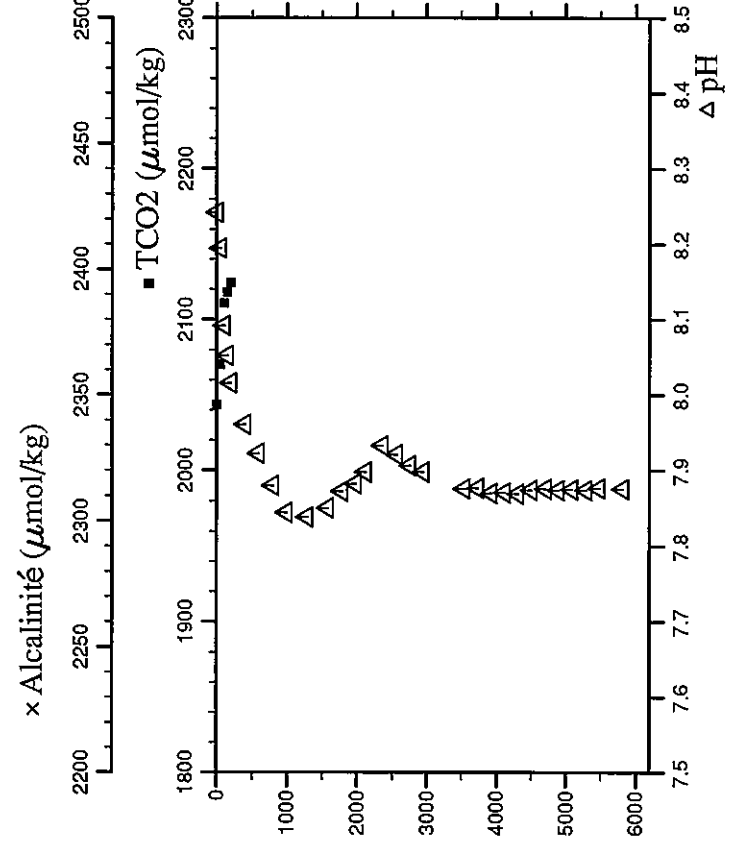
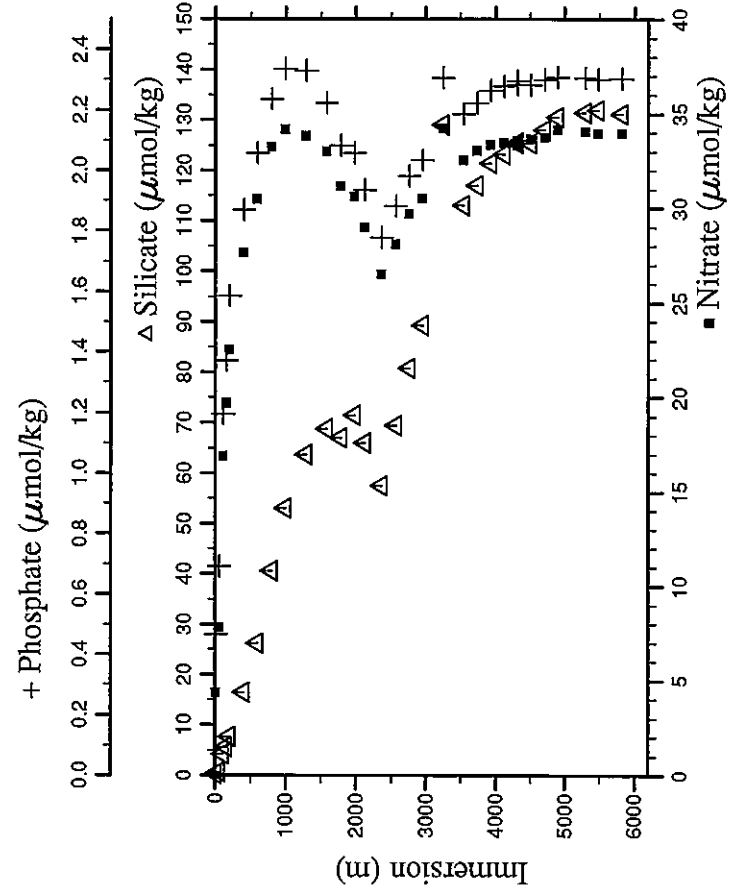
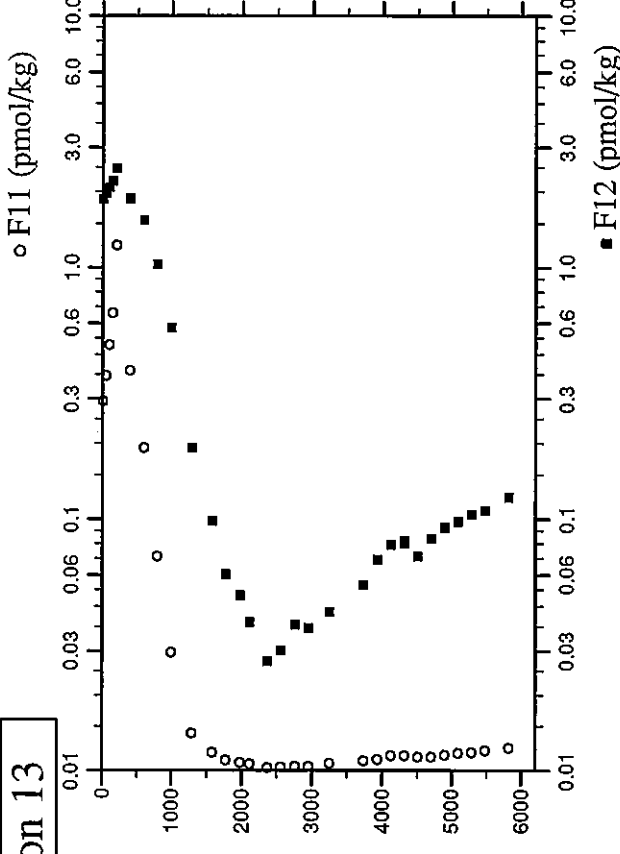
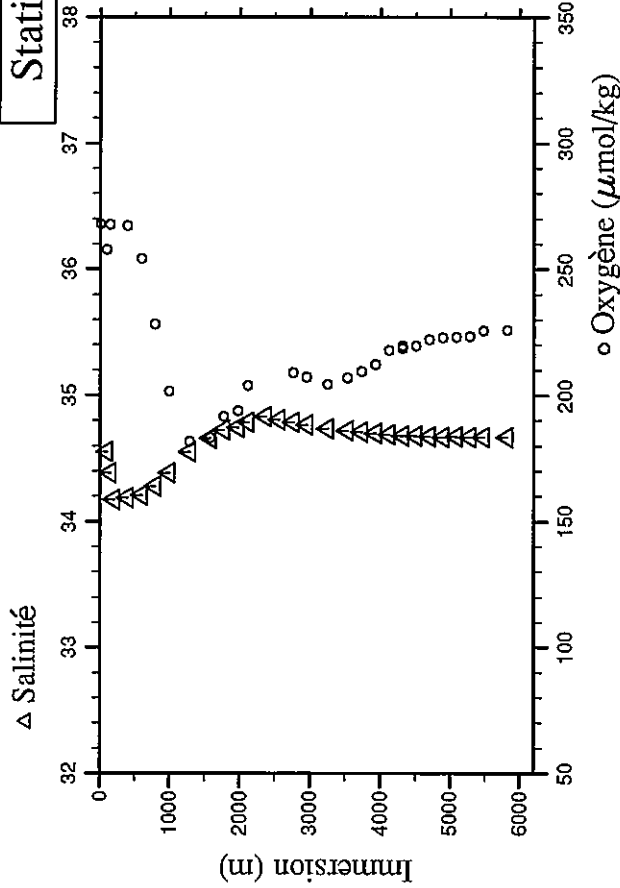
# Station 12



Station : 13 Campagne : CITHRER 2  
 Date : 12-01-94 Heure : 0 h 4 mn  
 Position : S 47 41.35 W 54 14.32  
 Dernier niveau à : 5945  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
6.1	6.0	13.592	25.9885	34.676	r 267.8	4.37	0.466	0.3	3.4228	1.8686	2043.47		8.242
51.2	50.8	11.830	26.6007	34.598	r 263.8	7.84	0.692	0.7	3.6616	1.9631	2069.89		8.195
102.1	101.2	8.648	27.2893	34.557	r 257.6	16.90	1.195	4.3	3.9460	2.0822	2110.70		8.092
150.8	149.5	7.105	27.6111	34.386	267.7	19.70	1.372	5.7	4.2443	2.2063	2117.97		8.052
200.8	199.0	5.085	27.9326	34.173	r 292.3	22.50	1.585	7.7	4.8735	2.4709	2124.33		8.016
399.6	395.9	4.054	28.9871	34.188	267.2	27.66	1.870	16.5	3.7069	1.8829			7.961
600.6	594.7	3.251	30.0180	34.208	254.2	30.49	2.058	26.2	2.9897	1.5367			7.923
800.8	792.6	2.737	31.0559	34.280	228.2	33.27	2.236	40.6	1.9912	1.0306			7.880
1001.9	991.1	2.597	32.0797	34.385	201.4	34.18	2.335	53.0	1.0994	0.5742			7.845
1300.1	1285.2	2.588	33.5737	34.553	181.7	33.83	2.330	63.8	0.3453	0.1911			7.839
1599.7	1580.3	2.537	35.0250	34.662	183.2	33.03	2.223	68.8	0.1689	0.0984			7.851
1800.6	1777.9	2.560	35.9826	34.727	191.5	31.16	2.084	67.1	0.0972	0.0604			7.873
2000.1	1973.9	2.421	36.9155	34.750	194.0	30.61	2.059	71.5	0.0757	0.0497			7.883
2149.6	2120.7	2.459	37.6104	34.789	203.7	28.99	1.935	66.0	0.0587	0.0390			7.898
2397.2	2363.6	2.423	38.7556	34.834	220.5	r 26.51	1.779	57.5	0.0285	0.0273			7.933
2599.6	2562.0	2.119	39.6791	34.811	213.7	r 28.09	1.882	69.5	0.0334	0.0302			7.921
2798.9	2757.2	1.819	40.5869	34.787	208.9	29.70	1.981	80.8	0.0352	0.0380			7.907
2999.2	2953.1	1.567	41.4986	34.769	207.1	30.51	2.035	89.3	0.0368	0.0370			7.898
3300.5	3247.5	1.175	42.8603	34.738	204.2	34.25	2.306	129.1	0.0685	0.0429			
3597.6	3537.4	0.878	44.1976	34.722	206.9	32.54	2.188	113.1					7.876
3798.8	3733.6	0.677	45.0993	34.712	209.4	33.04	2.223	117.0	0.0881	0.0546			7.877
3999.6	3929.1	0.470	45.9960	34.701	212.3	33.35	2.263	121.5	0.1024	0.0692			7.870
4199.2	4123.3	0.262	46.8882	34.690	217.8	33.46	2.279	123.2	0.1394	0.0790			7.871
4398.5	4317.1	0.119	47.7678	34.684	218.5	33.31	2.284	125.4	0.1379	0.0819			7.869
4398.7	4317.3	0.120	47.7685	34.684	219.7	33.56	2.296	125.5		0.0799			7.869
4598.2	4511.1	0.022	48.6405	34.681	219.6	33.66	2.283	125.4	0.1259	0.0712			7.874
4798.8	4705.8	-0.065	49.5115	34.677	222.2	33.77	2.300	128.0	0.1257	0.0838			7.876
4996.9	4897.9	-0.104	50.3606	34.674	222.8	34.17	2.308	130.6	0.1461	0.0926			7.874
5197.0	5091.7	-0.132	51.2135	34.677	223.2				0.1616	0.0975			7.875
5397.9	5286.2	-0.153	52.0647	34.674	223.5	34.07	2.305	131.5	0.1705	0.1043			7.874
5595.5	5477.3	-0.168	52.8970	34.672	225.7	33.97	2.301	132.0	0.1851	0.1082			7.877
5944.2	5814.2	-0.183	54.3554	34.673	226.0	33.97	2.304	131.2	0.2076	0.1218			7.876

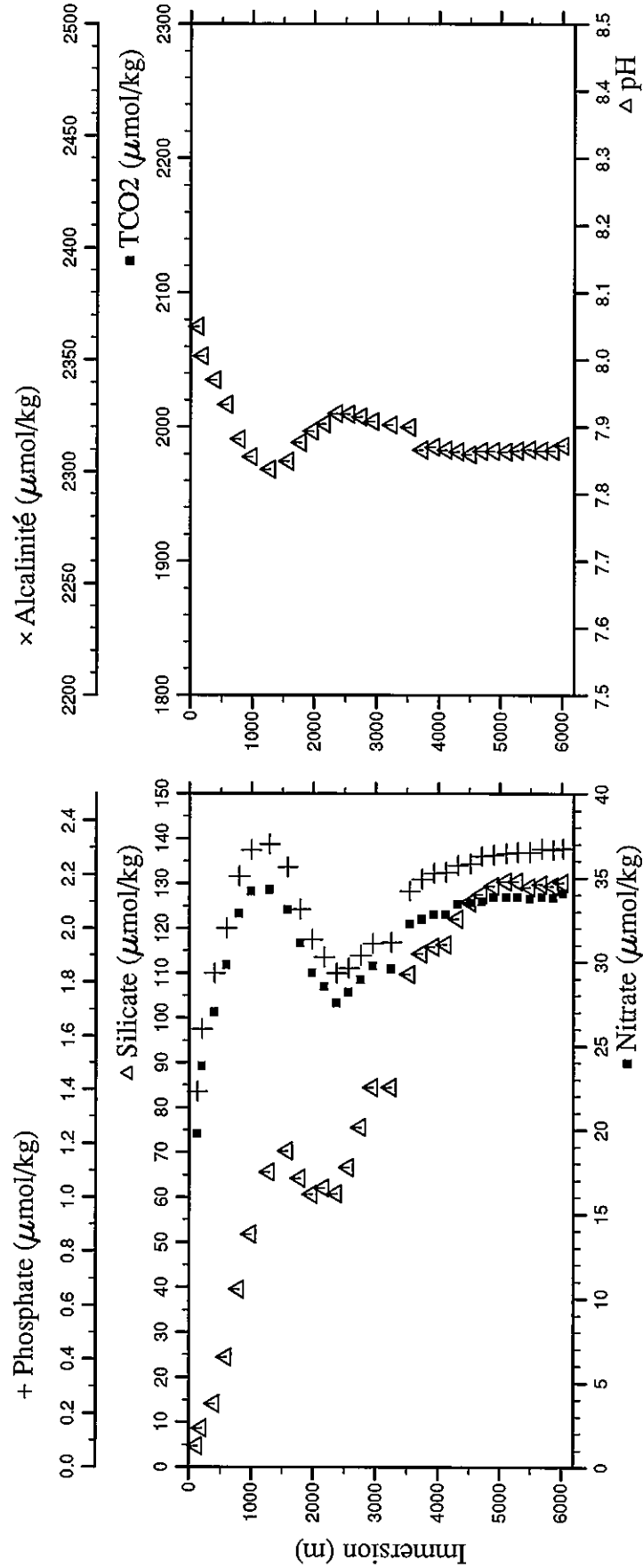
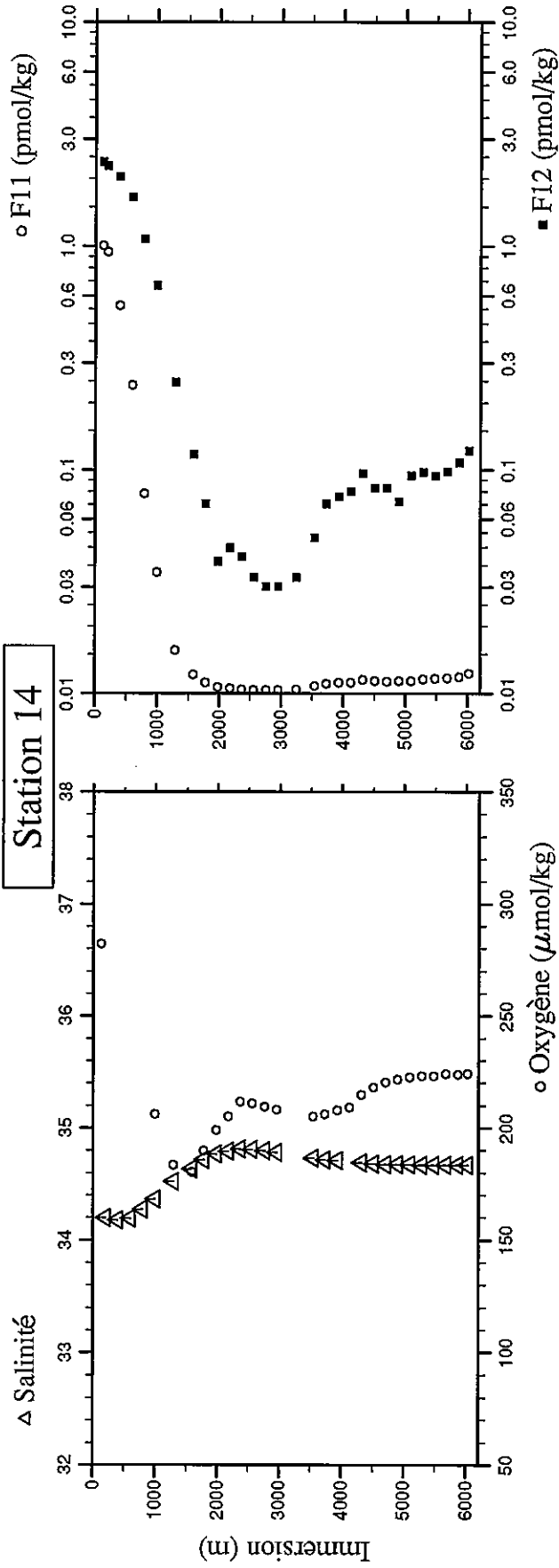
# Station 13



Station : 14 Campagne : CITHER 2  
 Date : 12-01-94 Heure : 7 h 24 mn  
 Position : S 47 16.05 W 53 52.49  
 Dernier niveau à : 6157  
 Nb prélèvements : 30

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
125.6	124.5	6.777	27.4720	34.283	r 282.0	19.77	1.393	4.8	4.6715	2.3800			8.050
200.5	198.7	5.072	27.9544	34.197	r 280.1	23.79	1.625	8.7	4.6083	2.2768			8.006
401.5	397.8	4.169	28.9770	34.180	r 270.5	27.00	1.834	14.1	4.0493	2.0408			7.970
602.0	596.1	3.367	30.0004	34.192	r 255.3	29.83	2.000	24.4	3.2190	1.6527			7.934
800.3	792.1	2.899	31.0330	34.276	r 225.6	32.87	2.193	39.6	2.0869	1.0754			7.882
999.9	989.2	2.619	32.0513	34.364	r 206.1	34.19	2.292	51.8	1.2649	0.6678			7.856
1301.4	1286.5	2.553	33.5637	34.524	r 183.4	34.29	2.312	65.6	0.4554	0.2457			7.837
1600.3	1580.9	2.528	35.0123	34.638	r 180.5	33.13	2.228	70.4	0.1950	0.1170			7.849
1800.6	1777.9	2.626	35.9680	34.716	r 189.9	31.11	2.070	64.2	0.1124	0.0702			7.877
2000.7	1974.6	2.621	36.9047	34.768	r 199.0	29.34	1.958	60.7	0.0680	0.0390			7.894
2199.6	2169.9	2.502	37.8312	34.795	r 205.1	28.53	1.892	62.1	0.0531	0.0448			7.905
2400.4	2366.9	2.421	38.7547	34.815	r 211.6	27.57	1.833	60.8	0.0445	0.0409			7.920
2598.8	2561.3	2.231	39.6578	34.810	r 211.0	28.21	1.853	66.6	0.0394	0.0331			7.919
2799.1	2757.5	1.996	40.5706	34.797	r 209.4	28.94	1.900	75.6	0.0375	0.0302			7.915
2999.6	2953.6	1.766	41.4785	34.781	r 208.2	29.75	1.944	84.4	0.0380	0.0302			7.908
3299.3	3246.5	1.364	42.8332	34.783	r 208.0	29.60	1.947	84.4	0.0406	0.0331			7.903
3600.6	3540.5	1.034	44.1903	34.730	r 205.0	32.28	2.138	109.8	0.0788	0.0497			7.900
3798.8	3733.7	0.851	45.0742	34.718	r 206.0	32.54	2.184	114.3	0.1050	0.0702			7.866
4001.6	3931.2	0.668	45.9779	34.713	r 208.0	32.80	2.204	115.8	0.1136	0.0760			7.870
4200.3	4124.6	0.484	46.8635	34.711	r 209.1	32.80	2.209	116.4	0.1170	0.0799			7.866
4397.0	4315.8	0.317	47.7331	34.692	r 214.7	33.41	2.234	122.1	0.1418	0.0965			7.863
4599.4	4512.4	0.156	48.6255	34.684	r 218.0	33.51	2.241	125.8	0.1318	0.0829			7.859
4797.2	4704.4	0.034	49.4893	34.679	r 220.4	33.61	2.267	127.6	0.1294	0.0829			7.864
4997.3	4898.4	-0.043	50.3525	34.676	r 221.7	33.87	2.272	129.4	0.1320	0.0721			7.864
5197.7	5092.6	-0.089	51.2092	34.675	r 222.5	33.87	2.278	130.5	0.1335	0.0945			7.863
5397.0	5285.5	-0.124	52.0557	34.672	r 223.1	33.87	2.283	130.5	0.1486	0.0975			7.865
5597.9	5479.9	-0.148	52.9042	34.673	r 223.2	33.77	2.283	129.2	0.1541	0.0936			7.867
5797.5	5672.8	-0.166	53.7418	34.671	r 224.2	33.87	2.295	129.9	0.1640	0.0984			7.865
5997.3	5865.7	-0.182	54.5754	34.670	r 224.8	33.83	2.291	129.4	0.1739	0.1082			7.865
6154.4	6017.3	-0.188	55.2285	34.672	r 224.2	34.11	2.297	130.2	0.2096	0.1218			7.873

# Station 14

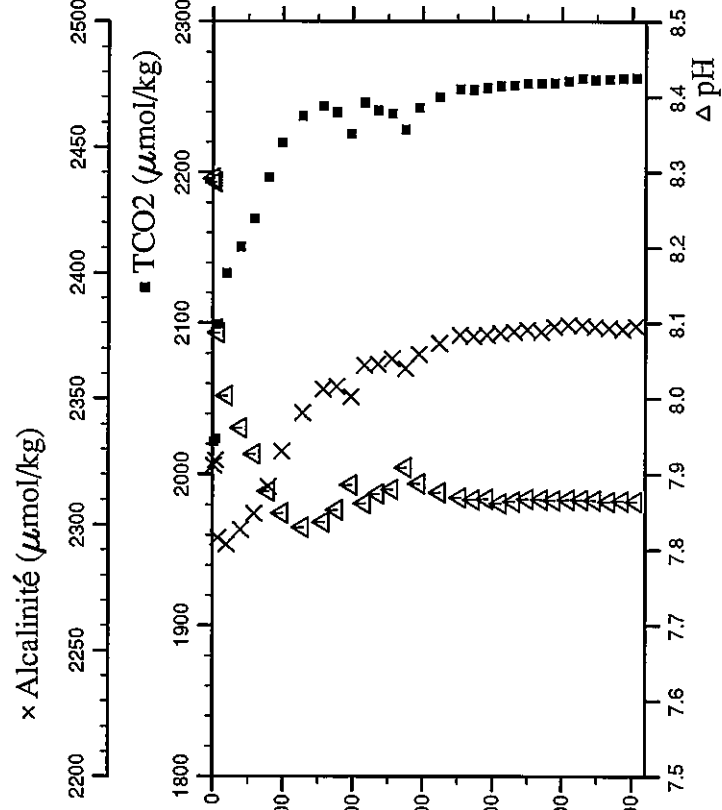
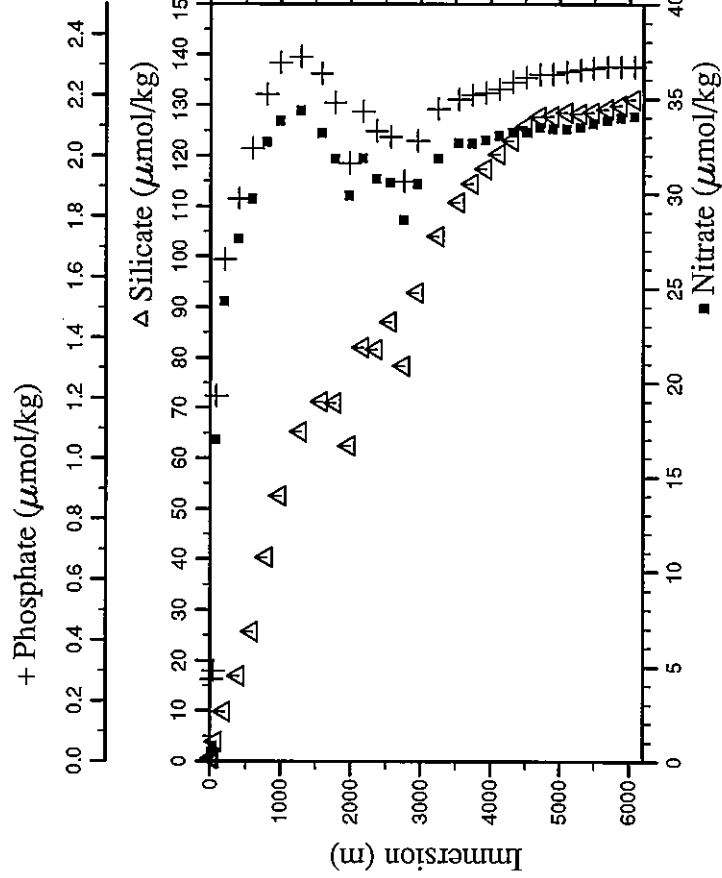
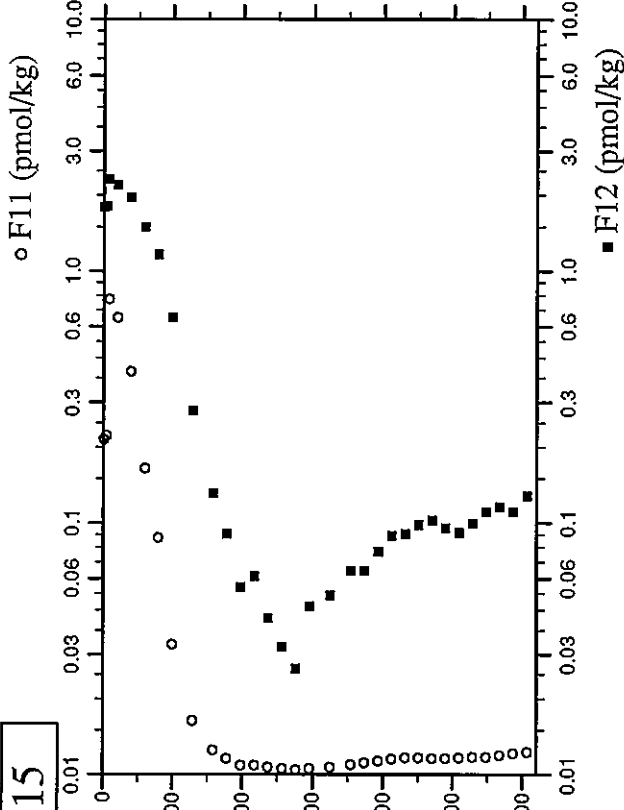
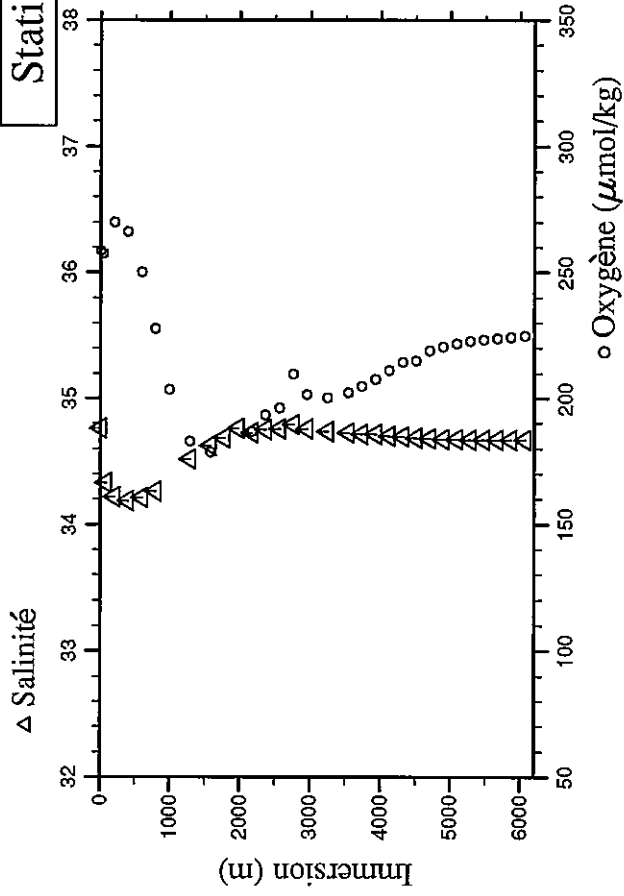


Station : 15 Campagne : CITHER 2  
 Date : 12-01-94 Heure : 14 h 14 mn  
 Position : S 46 51.21 W 53 32.09  
 Dernier niveau à : 6207  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
11.2	11.1	15.428	25.7440	34.765	258.5	0.51	0.273	0.5	3.1023	1.7961	2021.60	2323.5	8.292
40.7	40.4	15.166	25.9286	34.767	257.4	0.82	0.299	0.7	3.1373	1.8127	2023.28	2325.6	8.287
81.3	80.6	8.355	27.0680	34.333	r	16.97	1.207	3.8	4.4019	2.3214	2099.43	2294.7	8.087
201.2	199.4	5.232	27.9603	34.221	269.9	24.32	1.657	9.8	4.2334	2.1948	2133.20	2292.2	8.004
400.6	396.9	4.129	28.9836	34.188	266.1	27.59	1.858	16.9	3.7363	1.9578	2150.78	2298.1	7.962
601.2	595.4	3.506	30.0018	34.216	250.2	29.73	2.024	25.7	2.8357	1.4993	2169.39	2304.4	7.927
801.0	792.8	2.814	31.0358	34.267	227.8	32.72	2.202	40.3	2.1963	1.1637	2196.88	2315.2	7.878
1000.9	990.2	2.601	32.0649	34.352	203.6	33.84	2.307	52.6	1.2035	0.6496	2219.52	2329.2	7.849
1300.4	1285.6	2.535	33.5557	34.517	183.0	34.36	2.326	65.3	0.4978	0.2779	2237.62	2339.2	7.830
1600.4	1581.1	2.463	35.0133	34.625	178.7	33.17	2.269	71.3	0.2280	0.1307	2244.06	2353.7	7.837
1799.4	1776.8	2.481	35.9562	34.685	184.3	31.84	2.175	71.0	0.1496	0.0907	2240.16	2354.7	7.853
2001.4	1975.4	2.647	36.9003	34.764	188.7	29.89	1.975	82.5	0.0839	0.0556	2225.58	2350.6	7.886
2201.3	2171.6	2.168	37.8343	34.725	186.8	31.87	2.146	82.0	0.0828	0.0614	2246.24	2363.2	7.862
2399.6	2366.2	2.102	38.7476	34.752	193.3	30.78	2.082	81.6	0.0653	0.0419	2241.22	2363.6	7.874
2600.5	2563.1	1.935	39.6702	34.758	196.1	30.59	2.063	87.1	0.0545	0.0322	2239.22	2365.7	7.880
2800.4	2758.8	1.950	40.5831	34.795	209.6	28.60	1.916	78.4	0.0425	0.0263	2228.73	2362.0	7.909
3000.2	2954.3	1.639	41.4852	34.760	201.5	30.52	2.050	92.9	0.0579	0.0468	2242.76	2367.5	7.888
3299.7	3247.0	1.292	42.8382	34.737	200.3	31.86	2.154	104.0	0.0675	0.0517	2250.15	2371.9	7.876
3601.3	3541.3	1.049	44.1869	34.726	202.3	32.69	2.185	110.8	0.0910	0.0644	2255.30	2375.0	7.869
3799.8	3734.8	0.909	45.0695	34.719	204.9	32.65	2.199	114.4	0.1099	0.0644	2254.71	2374.7	7.867
3999.5	3929.3	0.750	45.9568	34.715	207.5	32.82	2.207	117.4	0.1246	0.0770	2256.05	2375.1	7.868
4199.7	4124.1	0.527	46.8527	34.701	211.1	33.04	2.219	120.3	0.1452	0.0887	2257.46	2375.9	7.862
4398.2	4317.1	0.364	47.7302	34.696	214.4	33.21	2.242	123.0	0.1552	0.0907	2257.69	2376.4	7.864
4598.6	4511.8	0.209	48.6133	34.689	214.9	33.26	2.257	125.8	0.1534	0.0985	2258.94	2377.1	7.868
4799.5	4706.8	0.093	49.4904	34.682	219.0	33.49	2.268	127.7	0.1485	0.1024	2259.18	2376.4	7.867
4997.3	4898.6	-0.004	50.3458	34.678	220.6	33.41	2.268	127.8	0.1490	0.0956	2259.40	2378.4	7.866
5198.1	5093.2	-0.063	51.2065	34.676	221.9	33.42	2.277	128.6	0.1554	0.0917	2260.58	2379.2	7.867
5398.3	5287.0	-0.102	52.0576	34.673	222.9	33.49	2.283	128.3	0.1620	0.0995	2262.25	2378.9	7.867
5596.8	5479.0	-0.129	52.8949	34.673	223.5	33.71	2.290	128.6	0.1623	0.1102	2261.70	2378.3	7.866
5798.2	5673.6	-0.153	53.7417	34.673	223.9	33.88	2.293	129.2	0.1812	0.1160	2262.12	2377.9	7.864
5998.4	5867.0	-0.172	54.5790	34.672	224.4	34.00	2.293	130.0	0.2003	0.1102	2262.45	2377.5	7.865
6206.3	6067.5	-0.183	55.4410	34.672	224.9	34.07	2.293	131.1	0.2124	0.1277	2262.88	2378.6	7.864



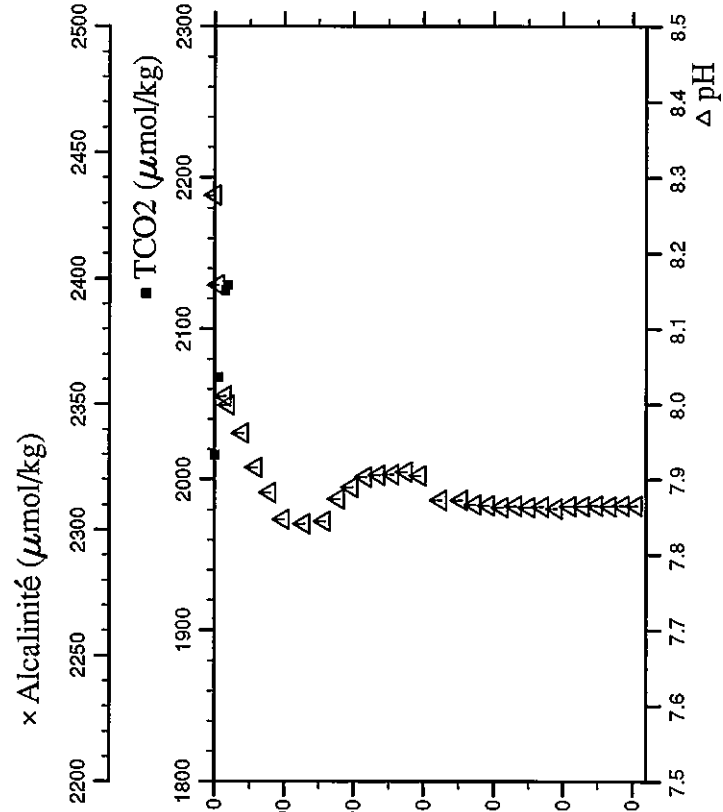
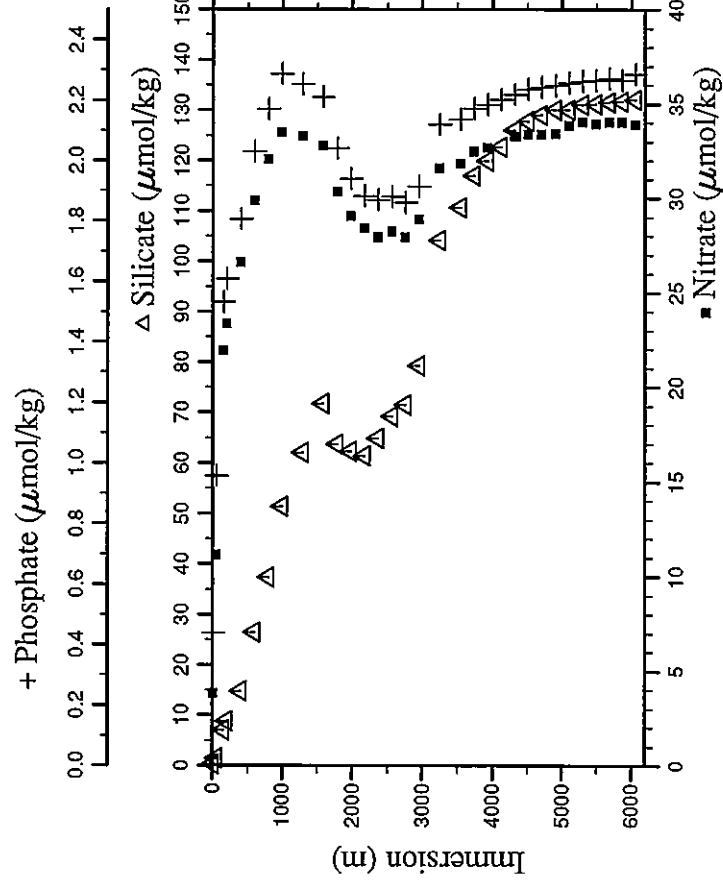
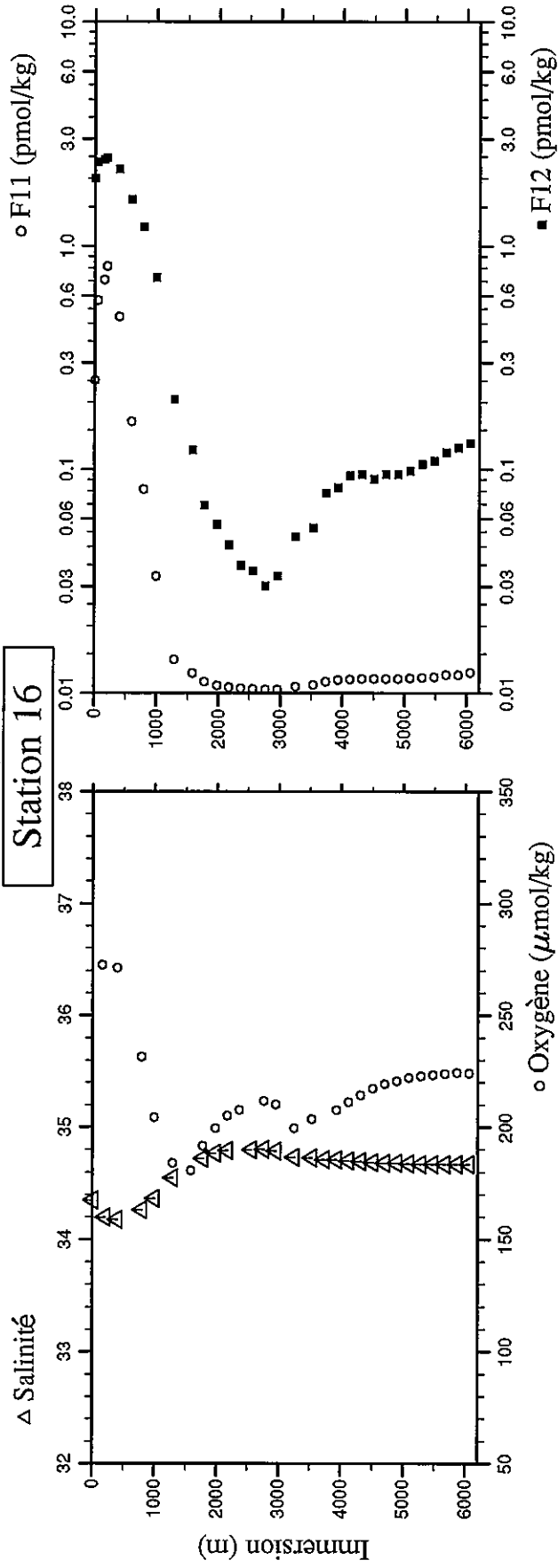
### Station 15



Station : 16 Campagne : CITHER 2  
 Date : 12-01-94 Heure : 21 h 34 mn  
 Position : S 46 25.98 W 53 9.88  
 Dernier niveau à : 6200  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.4	7.3	14.564	25.5985	34.352	266.5	r 3.82	0.439	0.3	3.2620	2.0034	2016.16		8.277
50.6	50.2	9.741	26.6213	34.239	r 277.5	r 11.14	0.958	1.5	4.1030	2.3762	2067.92		8.158
151.2	149.9	5.729	27.6828	34.253	r 272.5	r 21.93	1.532	7.0	4.3135	2.4308	2125.40		8.011
200.9	199.1	5.043	27.9584	34.197	r 280.9	r 23.34	1.608	8.8	4.4554	2.4680	2129.06		7.999
400.5	396.8	4.128	28.9711	34.179	r 271.3	r 26.61	1.807	14.8	3.9310	2.2037			7.962
600.1	594.3	3.393	30.0059	34.174	r 247.8	r 29.85	2.031	26.5	2.8295	1.6125			7.916
799.9	791.8	2.841	31.0306	34.267	r 231.4	r 32.07	2.170	37.4	2.1270	1.2173			7.883
1000.4	989.8	2.622	32.0554	34.368	r 204.4	r 33.48	2.287	51.4	1.2207	0.7227			7.847
1300.4	1285.7	2.648	33.5662	34.550	r 184.1	r 33.28	2.254	62.1	0.3507	0.2058			7.841
1600.1	1580.8	2.525	35.0163	34.638	r 180.7	r 32.78	2.211	71.7	0.2069	0.1219			7.845
1801.3	1778.8	2.686	35.9631	34.721	r 191.7	r 30.35	2.042	63.7	0.1198	0.0692			7.874
1999.5	1973.6	2.646	36.8963	34.769	r 199.4	r 29.04	1.939	62.3	0.0796	0.0566			7.890
2199.4	2169.9	2.560	37.8202	34.794	r 205.1	r 28.40	1.883	61.5	0.0634	0.0458			7.903
2399.7	2366.4	2.375	38.7392	34.799	r 207.5	r 27.93	1.870	64.9	0.0512	0.0371			7.906
2598.6	2561.3	2.227	39.6506	34.800	r 208.0	r 28.24	1.881	69.2	0.0421	0.0351			7.907
2800.8	2759.3	2.070	40.5720	34.804	r 211.7	r 27.93	1.861	71.5	0.0393	0.0302			7.910
2999.2	2953.4	1.834	41.4725	34.790	r 210.2	r 28.89	1.914	79.2	0.0367	0.0332			7.905
3299.9	3247.3	1.294	42.8380	34.734	r 199.5	r 31.60	2.120	104.2	0.0675	0.0497			7.873
3598.8	3539.0	1.028	44.1823	34.728	r 203.6	r 31.82	2.136	110.6	0.0860	0.0546			7.873
3800.3	3735.5	0.850	45.0793	34.713	r 199.2	r 32.48	2.172	117.0	0.1205	0.0780			7.867
3997.9	3927.9	0.699	45.9562	34.710	r 207.5	r 32.68	2.186	119.9	0.1380	0.0829			7.866
4199.2	4123.8	0.501	46.8546	34.701	r 211.1	r 33.04	2.203	122.7	0.1470	0.0936			7.863
4399.0	4318.1	0.321	47.7400	34.695	r 214.3	r 33.29	2.220	126.0	0.1519	0.0946			7.865
4598.5	4511.9	0.172	48.6183	34.686	r 217.4	r 33.39	2.237	127.8	0.1492	0.0907			7.863
4798.0	4705.5	0.066	49.4872	34.682	r 219.3	r 33.39	2.243	129.1	0.1482	0.0946			7.864
4998.3	4899.8	-0.016	50.3522	34.680	r 220.7	r 33.44	2.249	130.1	0.1491	0.0946			7.862
5198.2	5093.5	-0.076	51.2095	34.677	r 222.1	r 33.85	2.258	130.1	0.1547	0.0985			7.865
5397.8	5286.7	-0.114	52.0573	34.673	r 222.8	r 34.05	2.263	131.1	0.1606	0.1053			7.865
5598.1	5480.5	-0.140	52.9036	34.672	r 223.4	r 33.93	2.266	131.3	0.1673	0.1092			7.866
5797.8	5673.5	-0.158	53.7405	34.672	r 223.8	r 34.05	2.272	131.6	0.1935	0.1190			7.865
5996.9	5865.7	-0.175	54.5733	34.673	r 224.3	r 34.05	2.266	131.8	0.1947	0.1248			7.866
6197.3	6059.1	-0.184	55.4051	34.672	r 224.1	r 33.90	2.287	132.1	0.2133	0.1307			7.866

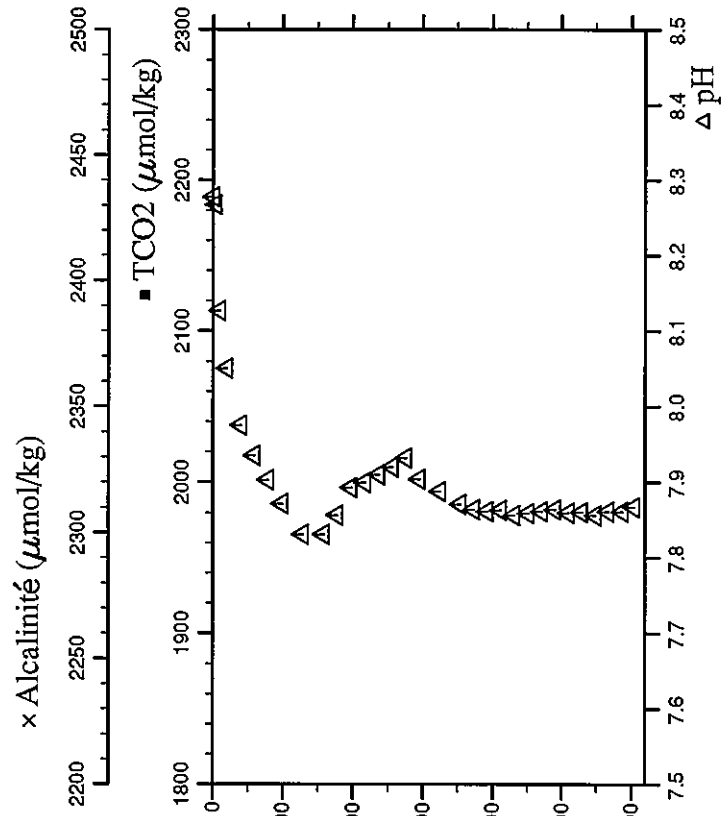
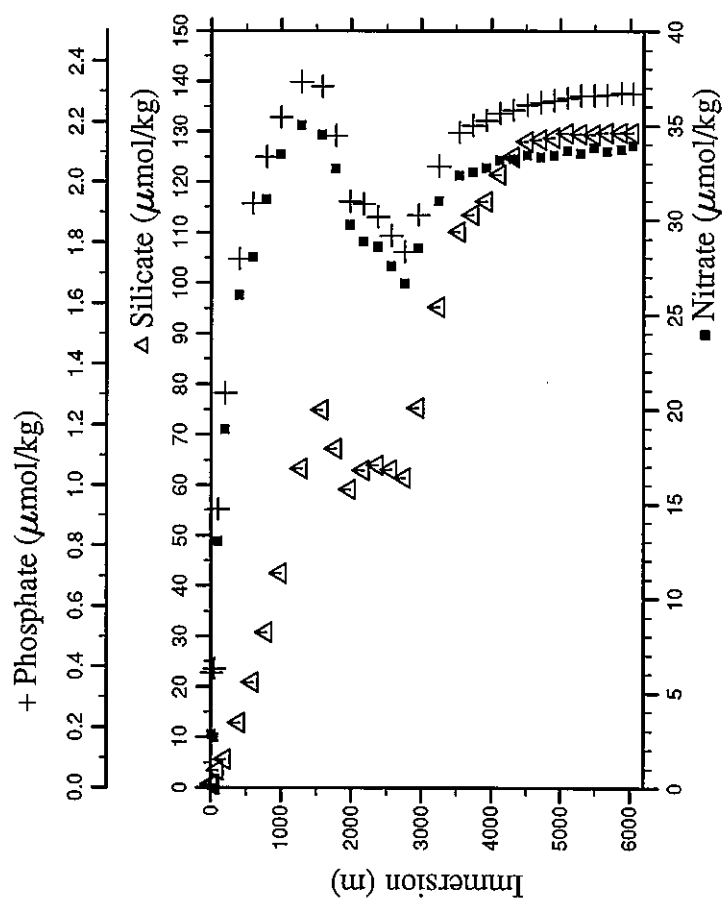
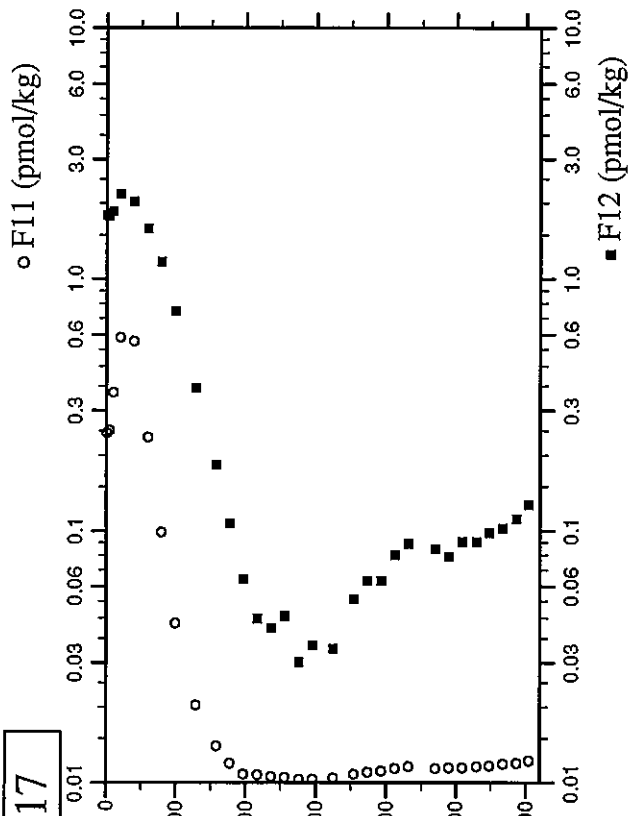
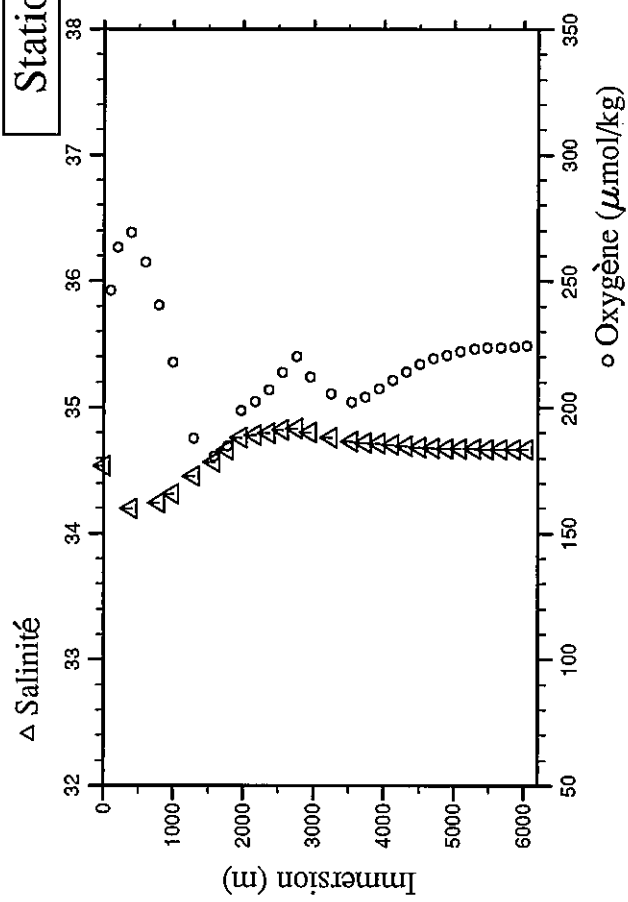
# Station 16



Station : 17 Campagne : CITHER 2  
 Date : 13-01-94 Heure : 4 h 41 mn  
 Position : S 46 0.87 W 52 48.26  
 Dernier niveau à : 6185  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
6.4	6.3	14.926	25.6616	34.539	264.2	2.80	0.380	0.7	3.2388	1.7954			8.278
40.9	40.6	14.554	25.9449	34.619	264.8	2.64	0.392	0.7	3.2658	1.7865			8.268
100.5	99.7	11.215	27.1119	34.870	246.2	13.00	0.921	3.5	3.6149	1.8515			8.127
199.0	197.3	7.329	27.7828	34.414	263.2	18.95	1.303	5.7	4.1270	2.1897			8.051
401.1	397.4	4.601	28.9372	34.197	269.2	26.03	1.746	12.9	4.0877	2.0407			7.975
602.1	596.3	3.832	29.9552	34.210	257.5	28.05	1.929	20.9	3.2018	1.5852			7.935
799.5	791.4	3.259	30.9622	34.242	240.4	31.08	2.084	30.8	2.3227	1.1696			7.903
1000.3	989.7	2.902	31.9806	34.316	217.9	33.46	2.214	42.5	1.4779	0.7433			7.872
1298.8	1284.1	2.519	33.5020	34.460	187.9	35.02	2.331	63.4	0.7197	0.3696			7.831
1600.6	1581.4	2.419	34.9771	34.572	180.8	34.52	2.316	74.9	0.3397	0.1824			7.831
1799.3	1776.9	2.628	35.9238	34.668	184.8	32.70	2.153	67.3	0.1790	0.1073			7.857
1999.0	1973.2	2.799	36.8682	34.762	198.8	29.72	1.935	59.1	0.0804	0.0644			7.893
2198.8	2169.4	2.642	37.7982	34.781	202.2	28.86	1.927	63.0	0.0703	0.0449			7.900
2400.3	2367.1	2.524	38.7272	34.799	206.9	28.56	1.885	64.0	0.0568	0.0410			7.910
2599.6	2562.4	2.402	39.6463	34.822	213.6	27.55	1.823	63.1	0.0500	0.0458			7.920
2797.9	2756.6	2.297	40.5474	34.836	220.0	26.65	1.769	61.4	0.0312	0.0302			7.932
3000.2	2954.5	1.991	41.4620	34.803	212.0	28.51	1.891	75.3	0.0340	0.0351			7.904
3299.1	3246.6	1.497	42.8211	34.763	205.4	30.99	2.051	95.2	0.0442	0.0341			7.888
3599.0	3539.4	1.112	44.1706	34.731	202.0	32.35	2.165	110.1	0.0783	0.0536			7.871
3799.2	3734.5	0.952	45.0616	34.723	204.1	32.50	2.188	113.4	0.0949	0.0634			7.864
3998.7	3928.9	0.761	45.9541	34.715	207.3	32.76	2.205	116.1	0.1081	0.0634			7.862
4198.7	4123.5	0.559	46.8456	34.705	210.6	33.16	2.227	121.4	0.1336	0.0800			7.863
4398.9	4318.2	0.373	47.7327	34.695	213.9	33.21	2.238	125.0	0.1477	0.0887			7.857
4599.1	4512.7	0.186	48.6191	34.687	217.1	33.42	2.255	128.0					7.859
4798.1	4705.8	0.068	49.4875	34.683	219.3	33.32	2.264	128.4	0.1325	0.0848			7.862
4999.6	4901.2	-0.007	50.3579	34.678	220.6	33.42	2.270	128.8	0.1365	0.0790			7.864
5198.9	5094.4	-0.065	51.2108	34.676	222.0	33.67	2.278	129.7	0.1407	0.0907			7.860
5400.3	5289.3	-0.109	52.0678	34.672	223.1	33.52	2.287	129.6	0.1519	0.0907			7.861
5596.8	5479.4	-0.136	52.8982	34.672	223.6	33.82	2.287	129.4	0.1584	0.0985			7.857
5796.8	5672.7	-0.154	53.7364	34.670	223.7	33.62	2.290	129.8	0.1736	0.1025			7.862
5998.9	5867.9	-0.172	54.5819	34.671	224.0	33.73	2.295	129.8	0.1787	0.1121			7.862
6178.4	6041.1	-0.184	55.3261	34.671	224.3	33.93	2.293	129.8	0.2012	0.1268			7.868

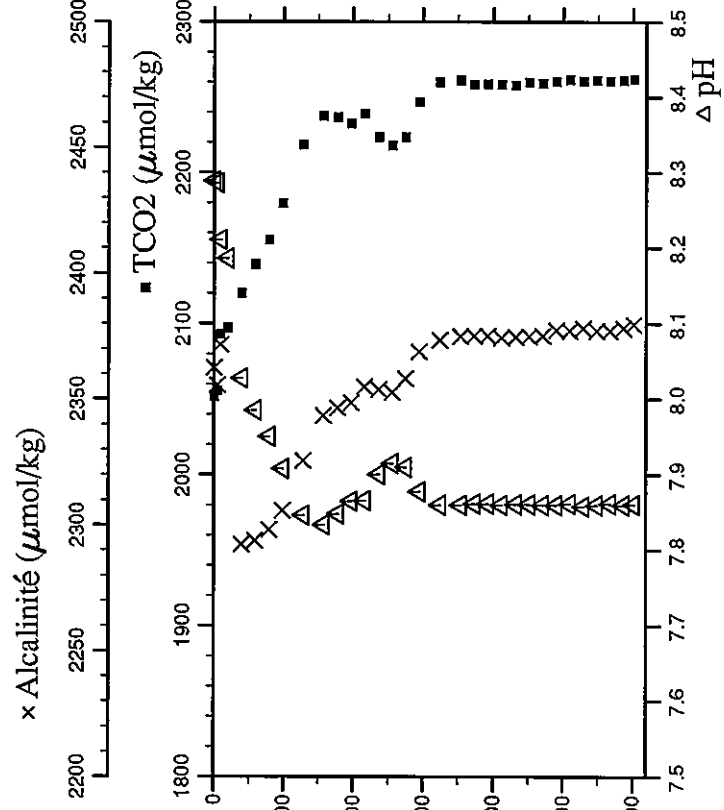
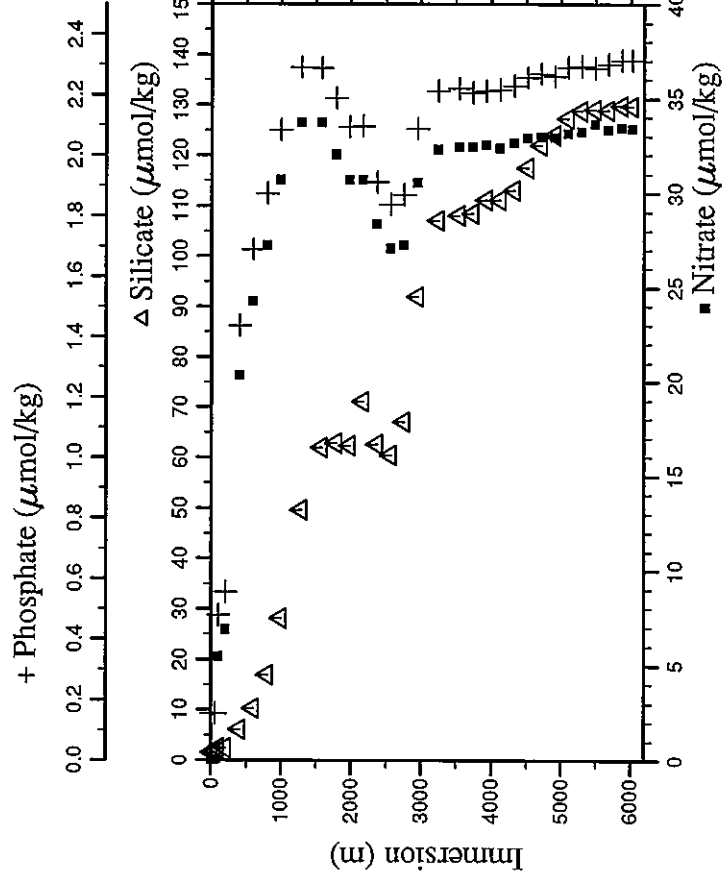
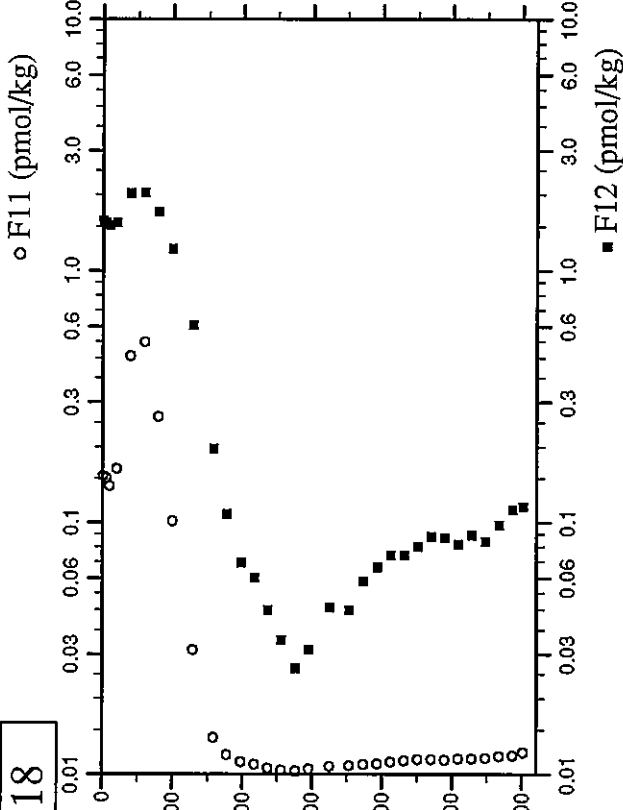
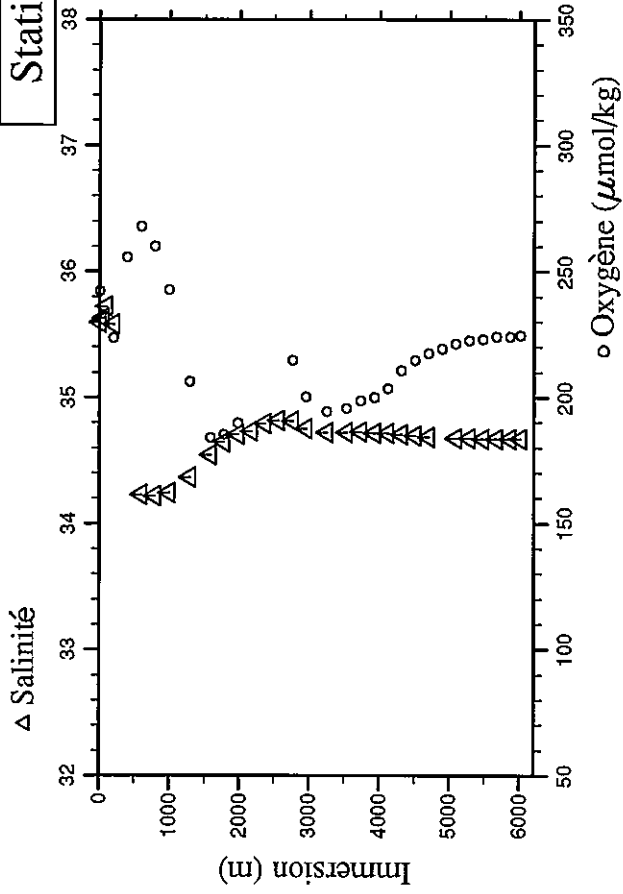
# Station 17



Station : 18 Campagne : CITHER 2  
 Date : 13-01-94 Heure : 12 h 3 mn  
 Position : S 45 35.06 W 52 27.21  
 Dernier niveau à : 6150  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.3	7.2	17.193	25.9575	35.599	242.2	0.04	0.155	1.6	2.7681	1.5777	2051.39	2362.3	8.289
50.6	50.2	17.025	26.2187	35.635	240.2	r	0.155	1.6	2.7483	1.5503	2055.78	2355.5	8.286
100.5	99.7	15.888	26.7687	35.723	209.4	r	0.479	2.5	2.6707	1.5171	2093.11	2371.6	8.211
200.2	198.5	14.530	27.4073	35.583	223.7	6.90	0.556	2.5	2.8313	1.5514	2097.06		8.186
400.7	397.0	6.991	28.6920	34.312	255.8	20.38	1.438	6.2	3.8777	2.0230	2120.11	2292.3	8.028
602.3	596.5	5.082	29.8203	34.227	267.8	24.28	1.689	10.4	4.0049	2.0348	2138.96	2293.8	7.985
800.3	792.2	4.277	30.8232	34.218	259.9	27.26	1.873	17.0	3.3137	1.7119	2155.09	2298.1	7.951
1000.5	989.9	3.379	31.8672	34.243	242.6	30.70	2.083	28.2	2.3429	1.2154	2179.42	2305.8	7.908
1301.1	1286.4	2.687	33.4209	34.366	206.3	33.73	2.291	49.6	1.1534	0.6067	2218.50	2325.5	7.846
1600.1	1581.0	2.660	34.9197	34.545	184.1	33.73	2.290	61.9	0.3414	0.1960	2237.47	2343.4	7.834
1800.0	1777.6	2.696	35.8960	34.645	185.3	32.02	2.189	62.9	0.1814	0.1082	2236.68	2346.4	7.848
1999.9	1974.1	2.683	36.8470	34.708	189.8	30.70	2.095	62.4	0.1172	0.0692	2232.33	2348.5	7.865
2201.2	2171.8	2.422	37.8004	34.730	190.0	30.70	2.096	71.1	0.0917	0.0605	2239.29	2354.7	7.866
2400.1	2366.9	2.496	38.7273	34.795	206.9	r	1.912	62.6	0.0564	0.0449	2223.48	2353.7	7.901
2598.9	2561.8	2.418	39.6390	34.819	213.1	r	1.837	60.4	0.0390	0.0341	2218.00	2352.4	7.915
2798.9	2757.7	2.159	40.5571	34.812	214.7	27.27	1.869	67.1	0.0334	0.0263	2223.64	2358.2	7.910
3000.1	2954.6	1.621	41.4844	34.755	200.3	30.55	2.087	92.0	0.0494	0.0312	2246.74	2368.7	7.878
3299.3	3247.0	1.268	42.8296	34.724	194.3	32.32	2.213	107.1	0.0733	0.0458	2259.94	2373.4	7.860
3598.1	3538.6	1.192	44.1468	34.720	195.6	32.43	2.222	108.1	0.0802	0.0449	2261.29	2374.9	7.860
3799.4	3734.9	1.125	45.0336	34.725	198.7	32.43	2.207	108.5	0.0885	0.0585	2258.30	2375.2	7.862
3999.0	3929.3	1.026	45.9127	34.718	200.0	32.53	2.218	111.1	0.0996	0.0663	2258.53	2375.2	7.862
4198.5	4123.5	0.914	46.7900	34.716	203.5	32.38	2.218	111.2	0.1134	0.0741	2258.36	2374.3	7.860
4400.5	4319.9	0.622	47.7032	34.708	210.6	32.63	2.229	113.1	0.1240	0.0741	2257.78	2374.5	7.861
4599.0	4512.7	0.332	48.5969	34.696	214.7	32.93	2.258	117.5	0.1411	0.0800	2259.85	2374.9	7.861
4799.5	4707.4	0.168	49.4778	34.687	217.6	32.94	2.269	121.9	0.1366	0.0878	2259.08	2375.1	7.860
5000.0	4901.8	0.059	50.3475	34.689	219.3	32.94	2.262	124.0	0.1337	0.0868	2260.22	2377.5	7.860
5197.8	5093.5	-0.035	51.2019	34.678	221.3	33.14	2.291	127.3	0.1422	0.0819	2261.62	2377.1	7.862
5399.0	5288.3	-0.085	52.0584	34.676	222.6	33.24	2.295	128.8	0.1431	0.0888	2260.66	2378.2	7.858
5597.4	5480.2	-0.128	52.8981	34.672	223.2	33.65	2.290	129.1	0.1477	0.0839	2261.06	2377.1	7.860
5798.5	5674.6	-0.154	53.7440	34.672	224.1	33.34	2.302	129.0	0.1655	0.0975	2260.77	2377.2	7.862
5999.6	5868.8	-0.173	54.5847	34.672	224.2	33.45	2.314	129.8	0.1760	0.1122	2261.16	2378.2	7.860
6150.1	6014.0	-0.186	55.2097	34.672	224.6	33.40	2.314	129.7	0.2008	0.1161	2262.01	2379.7	7.861

# Station 18

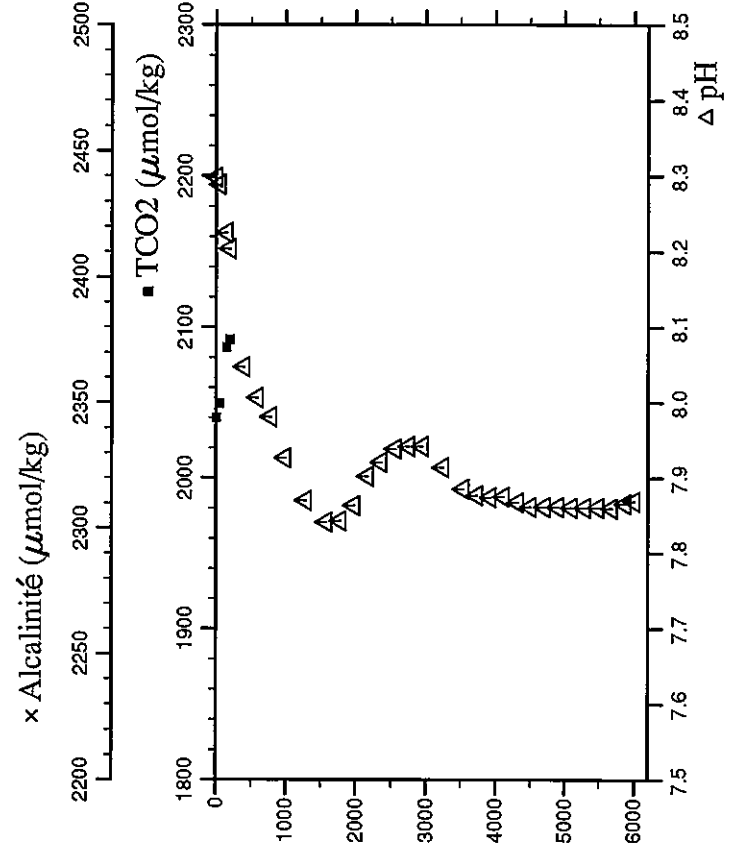
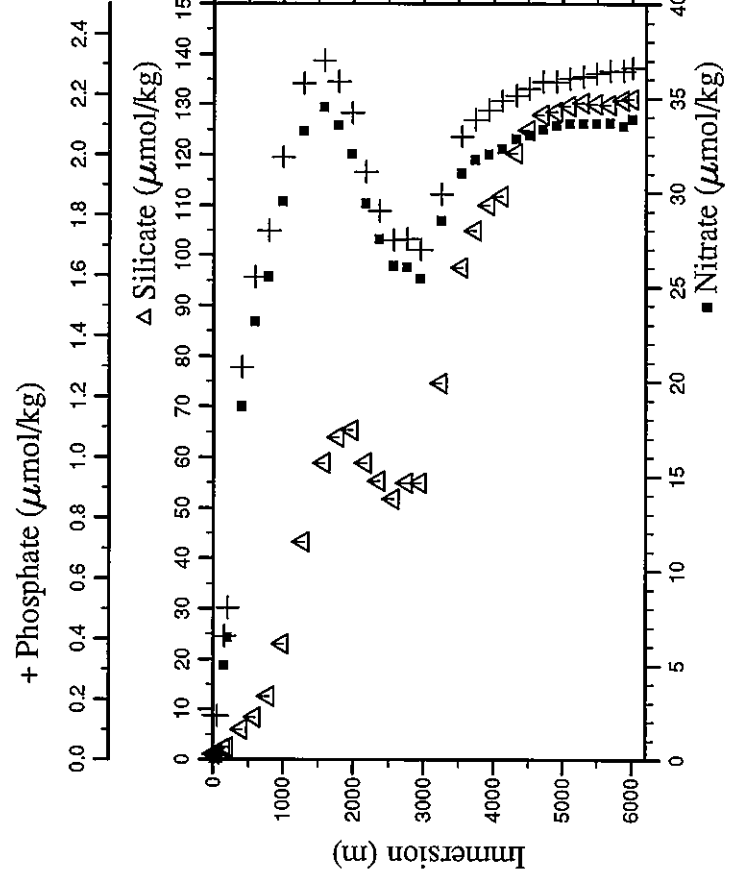
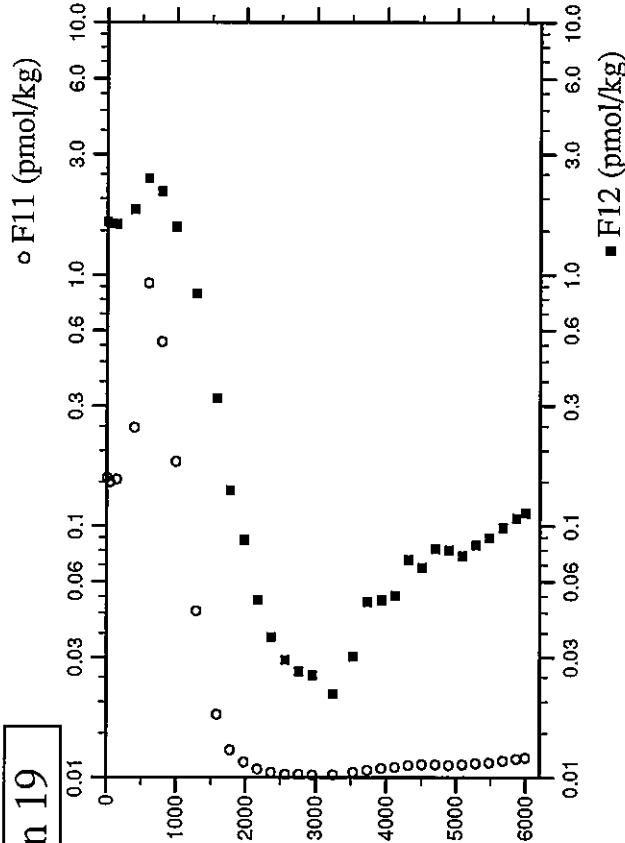
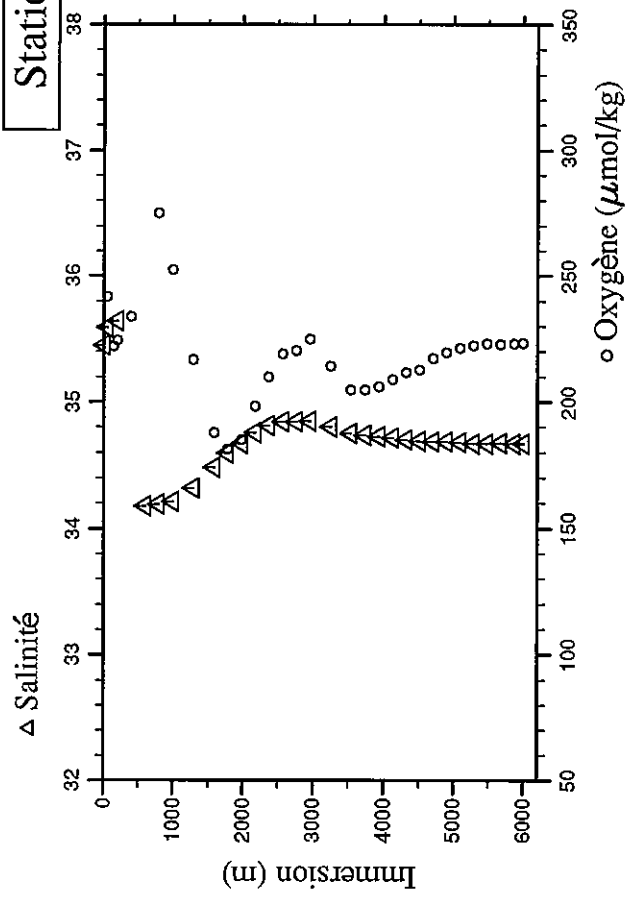


Station : 19 Campagne : CITHER 2  
 Date : 13-01-94 Heure : 19 h 39 mn  
 Position : S 45 10.93 W 52 5.71  
 Dernier niveau à : 6130  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.4	7.3	17.112	25.8655	35.449	243.9	0.04	0.147	1.1	2.7870	1.6191	2039.97		8.298
51.2	50.8	16.950	26.2015	35.591	241.7	0.04	0.144	1.4	2.7404	1.5965	2049.17		8.289
150.6	149.3	15.591	27.1057	35.782	222.0	5.00	0.410	2.2	2.7680	1.5895	2086.65		8.225
200.6	198.9	14.792	27.3983	35.644	224.5	6.49	0.503	2.5			2091.70		8.204
401.0	397.4	8.550	28.6544	34.551	233.7	18.69	1.297	6.0	3.2468	1.8114			8.047
600.5	594.8	5.001	29.7835	34.179	283.3	23.16	1.595	8.4	4.5893	2.4091			8.007
798.4	790.4	4.406	30.7760	34.193	275.1	25.54	1.748	12.6	4.0439	2.1339			7.981
999.3	988.8	3.578	31.8133	34.215	252.3	29.53	1.992	23.1	2.9310	1.5523			7.927
1299.4	1284.8	2.748	33.3691	34.319	216.7	33.26	2.237	43.3	1.5464	0.8420			7.870
1597.8	1578.8	2.602	34.8679	34.484	187.7	34.52	2.313	58.9	0.5854	0.3229			7.841
1799.9	1777.6	2.609	35.8707	34.596	181.3	33.56	2.242	64.0	0.2576	0.1385			7.843
1999.3	1973.6	2.637	36.8240	34.673	185.1	32.05	2.138	65.4	0.1463	0.0878			7.863
2199.3	2170.0	2.768	37.7650	34.760	198.3	29.42	1.944	58.9	0.0787	0.0507			7.902
2399.3	2366.3	2.750	38.6975	34.814	209.9	27.51	1.815	55.3	0.0517	0.0361			7.921
2600.3	2563.3	2.687	39.6220	34.844	219.0	26.09	1.716	51.8	0.0338	0.0293			7.939
2799.7	2758.6	2.507	40.5293	34.846	220.3	26.04	1.722	55.0	0.0306	0.0263			7.942
2999.9	2954.5	2.378	41.4357	34.848	225.0	25.44	1.686	55.0	0.0254	0.0254			7.942
3299.9	3247.7	1.890	42.7918	34.806	214.3	28.51	1.869	74.7	0.0273	0.0215			7.914
3597.8	3538.5	1.372	44.1403	34.754	204.8	31.03	2.061	97.6	0.0503	0.0302			7.885
3798.8	3734.4	1.132	45.0413	34.738	204.8	31.74	2.116	104.9	0.0663	0.0497			7.877
3998.9	3929.4	0.940	45.9323	34.725	206.0	32.04	2.148	110.0	0.0847	0.0507			7.874
4197.3	4122.4	0.741	46.8161	34.717	208.9	32.29	2.178	111.8	0.0940	0.0527			7.875
4399.6	4319.2	0.533	47.7133	34.704	211.7	32.85	2.196	120.3	0.1143	0.0732			7.868
4596.7	4510.7	0.330	48.5879	34.694	212.7	33.05	2.219	124.9	0.1218	0.0683			7.862
4797.9	4706.0	0.164	49.4727	34.685	217.3	33.35	2.243	127.9	0.1227	0.0810			7.862
4997.7	4899.8	0.030	50.3438	34.685	219.6	33.55	2.243	128.6	0.1172	0.0800			7.862
5197.7	5093.6	-0.052	51.2034	34.680	221.4	33.65	2.254	129.7	0.1185	0.0761			7.861
5397.4	5286.9	-0.099	52.0538	34.674	222.4	33.65	2.260	130.3	0.1338	0.0839			7.861
5598.0	5481.0	-0.133	52.9027	34.674	223.1	33.67	2.269	130.1	0.1405	0.0897			7.861
5798.6	5674.9	-0.161	53.7458	34.676	222.8	33.70	2.278	130.0	0.1589	0.0985			7.860
5998.0	5867.5	-0.174	54.5776	34.674	223.1	33.54	2.278	130.9	0.1715	0.1073			7.866
6130.2	5995.1	-0.180	55.1263	34.673	223.5	33.90	2.290	131.1	0.1842	0.1122			7.869



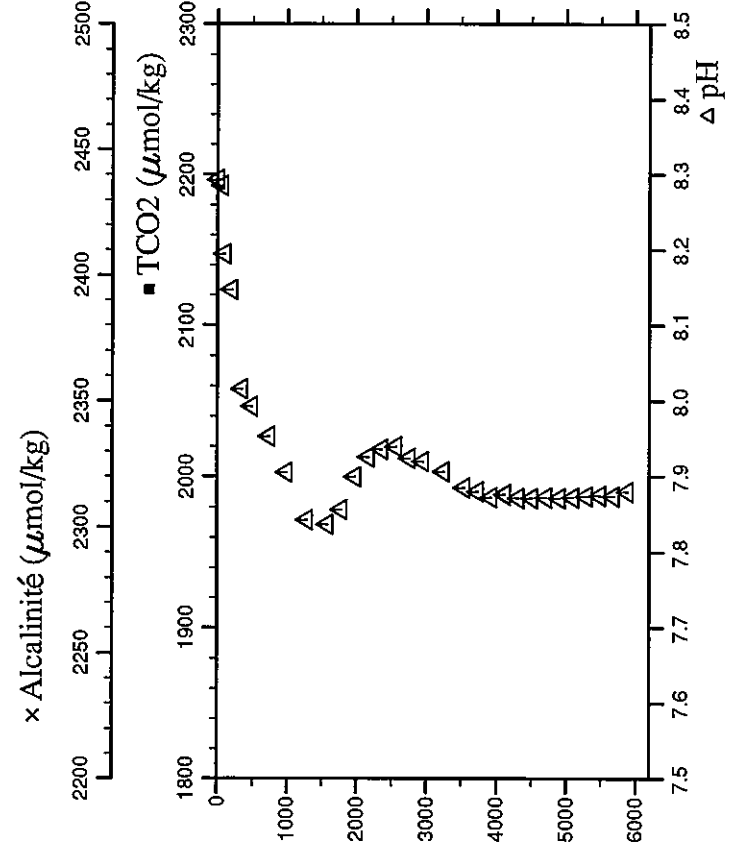
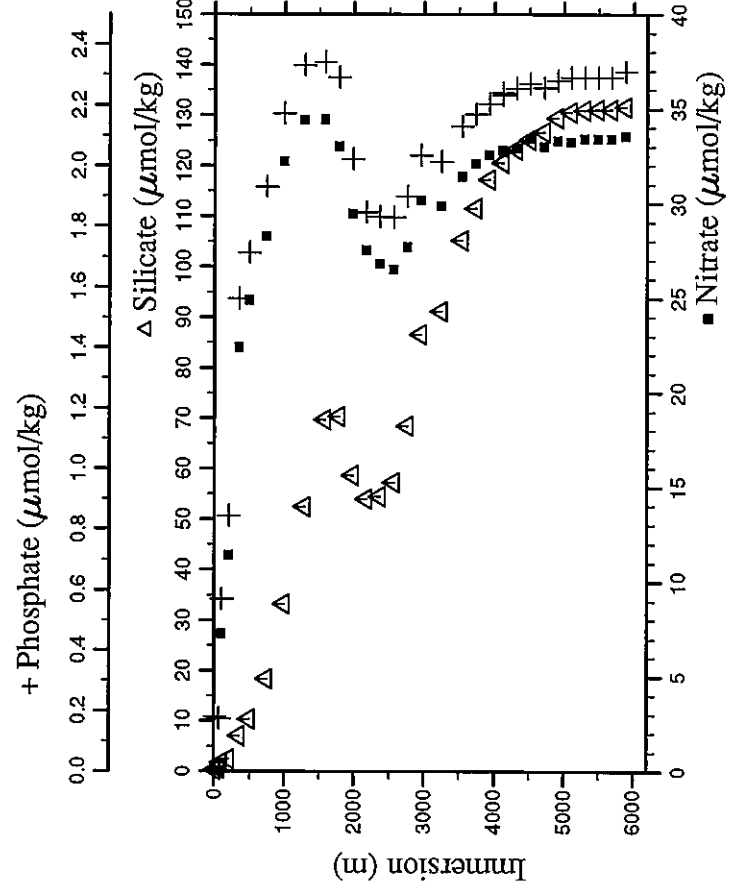
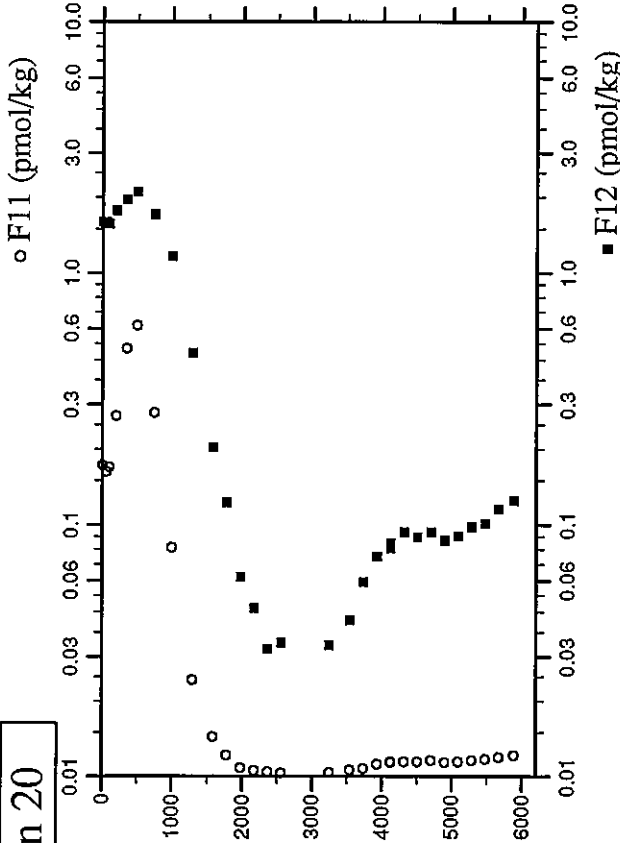
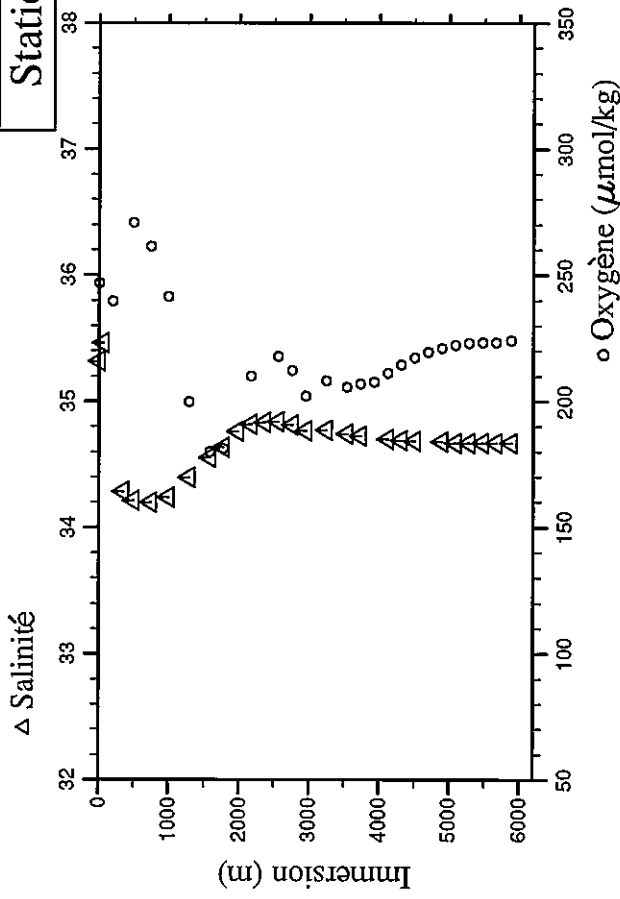
# Station 19



Station : 20 Campagne : CITHER 2  
 Date : 14-01-94 Heure : 3 h 11 mn  
 Position : S 44 46.28 W 51 45.03  
 Dernier niveau à : 6018  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGÈNE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
6.4	6.3	16.484	25.9081	35.319	246.7	0.04	0.181	0.3	2.8839	1.5988			8.293
60.7	60.2	16.731	26.2006	35.467	241.6	0.04	0.175	0.5	2.8285	1.5957			8.285
101.4	100.6	14.547	26.9240	35.510	221.3	0.04	0.570	1.7	2.8696	1.5683			8.195
200.5	198.8	11.868	27.5794	35.061	239.7	11.41	0.845	2.4	3.3405	1.7736			8.147
351.5	348.4	6.303	28.5614	34.287	264.5	22.42	1.562	7.1	3.9676	1.9620			8.016
500.8	496.1	4.963	29.3609	34.212	270.8	24.91	1.712	10.4	4.1756	2.1026			7.993
750.4	743.0	3.956	30.6170	34.200	261.3	28.27	1.930	18.3	3.3695	1.7143			7.953
1001.3	990.8	2.842	31.9289	34.239	241.4	32.23	2.172	33.2	2.1240	1.1591			7.906
1299.7	1285.2	2.707	33.4380	34.399	199.8	34.39	2.331	52.4	0.8952	0.4790			7.843
1601.4	1582.4	2.519	34.9502	34.553	179.8	34.44	2.343	69.7	0.3680	0.2029			7.837
1801.1	1778.8	2.553	35.9145	34.635	181.1	33.02	2.292	70.4	0.2007	0.1229			7.857
2000.4	1974.8	2.775	36.8747	34.762	198.2	29.45	2.022	58.7	0.0795	0.0624			7.900
2200.5	2171.3	2.782	37.8106	34.819	210.0	27.53	1.847	54.0	0.0532	0.0468			7.926
2397.6	2364.7	2.657	38.7195	34.834	217.3	26.83	1.832	54.5	0.0429	0.0322			7.936
2598.9	2562.0	2.481	39.6421	34.838	217.8	26.52	1.830	57.3	0.0429	0.0322			7.940
2799.6	2758.6	2.187	40.5532	34.814	212.2	27.68	1.899	68.4	0.0330	0.0341			7.924
2999.8	2954.5	1.819	41.4623	34.770	202.1	30.17	2.034	86.6					7.920
3299.1	3247.0	1.560	42.8187	34.771	208.2	29.87	2.014	91.2	0.0375	0.0332			7.907
3598.6	3539.4	1.188	44.1652	34.742	205.6	31.41	2.131	105.2	0.0595	0.0419			7.885
3798.4	3734.2	0.965	45.0608	34.729	206.9	32.10	2.171	111.5	0.0731	0.0595			7.880
3999.3	3929.9	0.730	45.9587	34.718	207.5	32.57	2.205	117.2	0.1141	0.0751			7.873
4197.9	4123.2	0.502	46.8484	34.704	211.3	32.82	2.231	120.5	0.1361	0.0810			7.877
4398.7	4318.5	0.499	46.8511	34.700	211.3	32.72	2.240	120.7	0.1345	0.0849			7.876
4597.7	4511.8	0.324	47.7387	34.693	214.6	32.92	2.255	123.2	0.1396	0.0936			7.872
4798.0	4706.3	0.172	48.6142	34.686	217.4	33.42	2.269	125.2	0.1376	0.0897			7.872
4999.0	4901.2	0.039	49.4913	34.686	219.7	33.02	2.257	126.6	0.1474	0.0936			7.873
5196.8	5092.9	-0.041	50.3591	34.680	221.1	33.32	2.280	129.4	0.1342	0.0868			7.872
5396.6	5286.4	-0.088	51.2056	34.674	222.4	33.27	2.292	130.6	0.1406	0.0907			7.873
5597.9	5481.1	-0.124	52.0541	34.672	223.2	33.42	2.292	131.0	0.1474	0.0985			7.874
5797.5	5674.1	-0.153	52.9045	34.670	223.5	33.42	2.292	131.1	0.1604	0.1014			7.875
6012.7	5881.9	-0.168	53.7410	34.673	223.5	33.41	2.292	131.1	0.1782	0.1161			7.874
		-0.183	54.6402	34.671	224.1	33.56	2.310	131.6	0.1987	0.1248			7.880

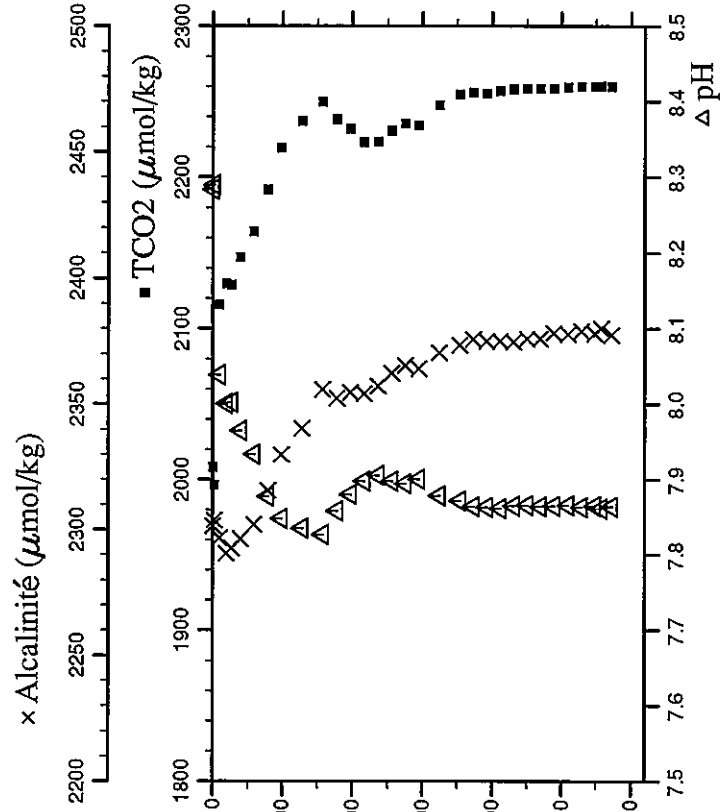
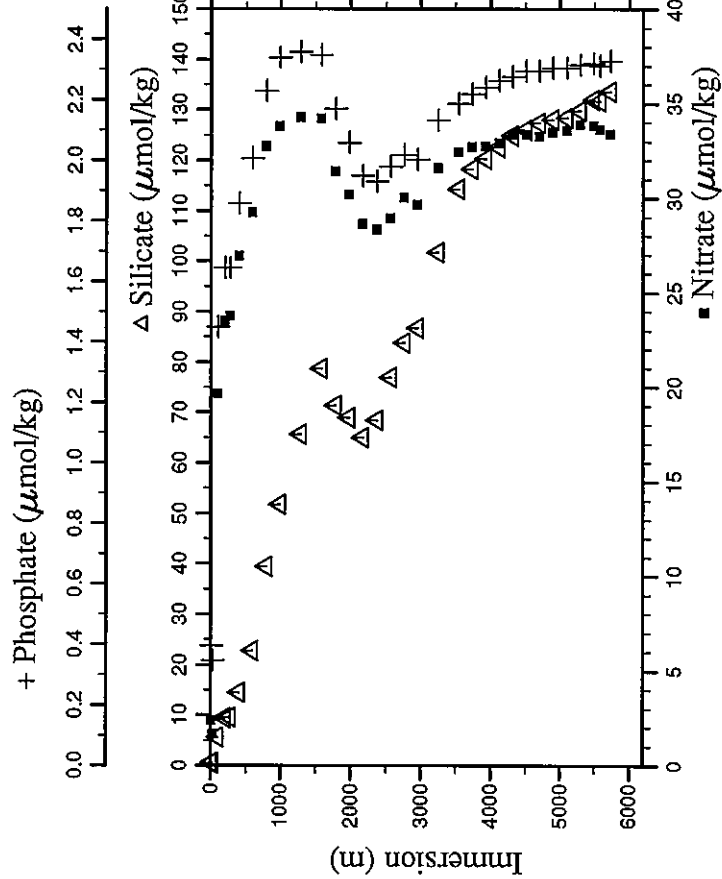
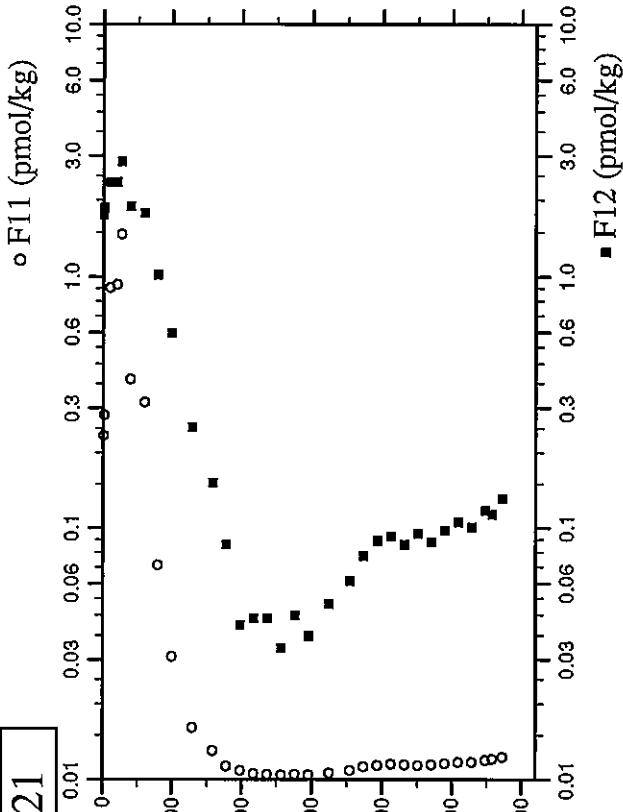
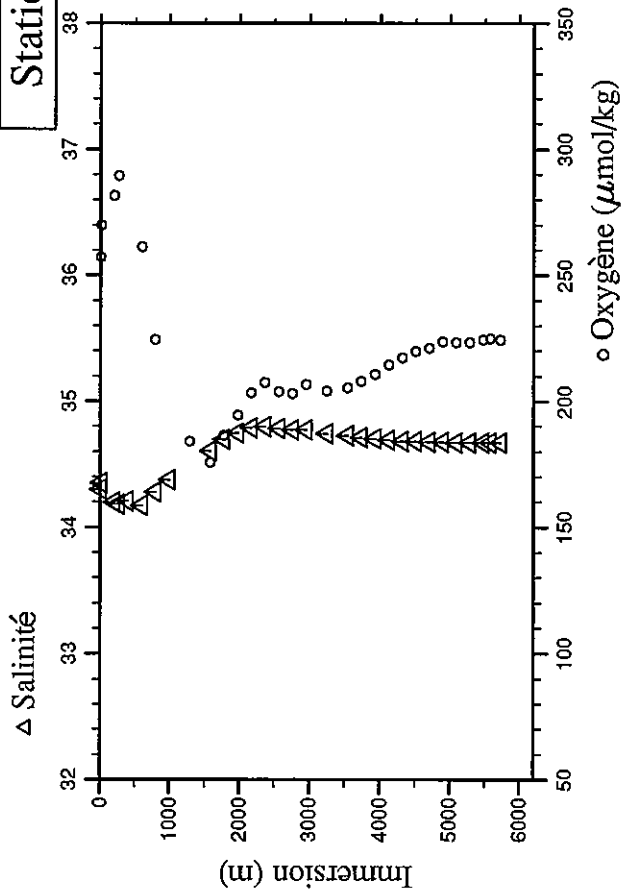
# Station 20



Station : 21 Campagne : CITHER 2  
 Date : 14-01-94 Heure : 11 h 24 mn  
 Position : S 44 20.39 W 51 21.56  
 Dernier niveau à : 5849  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.3	7.2	16.164	25.2045	34.300	257.2	2.40	0.397	0.6	3.1907	1.7493	2008.14	2301.5	8.284
20.9	20.7	14.930	25.5777	34.353	269.8	1.65	0.349	0.6	3.3827	1.8644	1996.37	2303.6	8.290
100.4	99.6	6.726	27.3318	34.253	r	r	1.450	5.6	4.5626	2.3650	2116.03	2296.5	8.039
200.5	198.8	4.957	27.9692	34.197	281.5	23.54	1.645	9.4	4.5929	2.3583	2129.98	2290.4	8.001
271.0	268.6	4.608	28.3230	34.185	289.4	23.77	1.645	9.6	5.0552	2.8432	2128.78	2292.4	8.002
400.7	397.1	4.325	28.9737	34.208	265.9	26.96	1.858	14.6	3.7182	1.8841	2147.34	2296.3	7.965
602.5	596.8	3.328	29.9926	34.175	261.2	29.27	2.007	22.8	3.5030	1.7826	2164.01	2301.9	7.934
801.3	793.3	2.957	31.0341	34.279	224.5	32.75	2.229	39.4	1.9885	1.0156	2191.70	2315.6	7.878
1000.8	990.3	2.680	32.0586	34.379	201.9	33.81	2.340	51.8	1.1409	0.5971	2219.17	2329.9	7.848
1299.2	1284.7	2.545	33.5373	34.513	r	34.26	2.358	65.6	0.4807	0.2517	2237.06	2340.3	7.835
1602.6	1583.6	2.329	35.0204	34.604	175.5	34.21	2.349	78.8	0.2665	0.1512	2249.79	2355.9	7.827
1801.3	1779.1	2.506	35.9693	34.697	186.2	31.44	2.170	71.4	0.1280	0.0858	2238.15	2352.3	7.858
2000.6	1975.0	2.491	36.9047	34.747	194.3	30.19	2.059	69.0	0.0410	0.0410	2231.93	2354.4	7.880
2201.0	2171.9	2.487	37.8374	34.788	203.3	28.66	1.950	65.0	0.0561	0.0439	2223.03	2354.1	7.898
2400.6	2367.7	2.303	38.7574	34.797	207.4	28.33	1.930	68.4	0.0492	0.0439	2223.32	2357.1	7.906
2600.1	2563.3	2.069	39.6685	34.783	203.8	28.95	1.980	77.0	0.0443	0.0332	2230.61	2362.1	7.898
2799.6	2758.7	1.865	40.5760	34.773	203.1	30.02	2.017	83.8	0.0518	0.0449	2235.16	2365.3	7.895
2999.5	2954.3	1.716	41.4836	34.775	206.6	29.67	2.004	86.8	0.0414	0.0371	2234.01	2363.9	7.901
3299.2	3247.2	1.241	42.8483	34.742	204.0	31.58	2.133	101.8	0.0627	0.0497	2247.65	2370.3	7.879
3598.7	3539.6	0.940	44.1934	34.726	205.4	32.44	2.187	114.3	0.0877	0.0614	2254.70	2373.4	7.872
3799.1	3735.0	0.753	45.0884	34.713	207.9	32.76	2.219	118.3	0.1180	0.0771	2256.15	2375.7	7.864
3999.0	3929.8	0.549	45.9832	34.702	210.7	32.76	2.240	120.3	0.1301	0.0888	2255.28	2374.9	7.863
4200.0	4125.4	0.329	46.8834	34.692	214.4	32.91	2.263	122.6	0.1444	0.0927	2256.89	2374.9	7.862
4397.0	4317.0	0.160	47.7555	34.684	217.3	33.34	2.277	124.9	0.1383	0.0858	2258.29	2374.6	7.865
4597.2	4511.5	0.051	48.6306	34.683	219.8	33.34	2.295	126.0	0.1320	0.0946	2258.70	2376.0	7.866
4797.1	4705.6	-0.036	49.4997	34.676	221.0	33.24	2.295	127.4	0.1357	0.0878	2258.63	2376.0	7.864
4996.4	4898.9	-0.096	50.3572	34.675	223.6	33.49	2.307	128.0	0.1483	0.0975	2258.76	2378.2	7.865
5196.3	5092.6	-0.130	51.2106	34.672	223.5	33.59	2.307	128.4	0.1611	0.1053	2259.51	2377.6	7.866
5397.4	5287.4	-0.151	52.0626	34.672	223.5	33.89	2.316	129.9	0.1602	0.1005	2259.76	2378.8	7.863
5596.5	5480.0	-0.168	52.9009	34.671	224.5	33.84	2.321	132.0	0.1773	0.1170	2259.88	2378.0	7.865
5695.4	5575.6	-0.178	53.3176	34.669	224.8	33.64	2.312	131.7	0.1918	0.1131	2260.40	2379.9	7.862
5850.3	5725.3	-0.185	53.9655	34.673	224.5	33.39	2.329	133.7	0.2087	0.1307	2259.91	2377.3	7.864

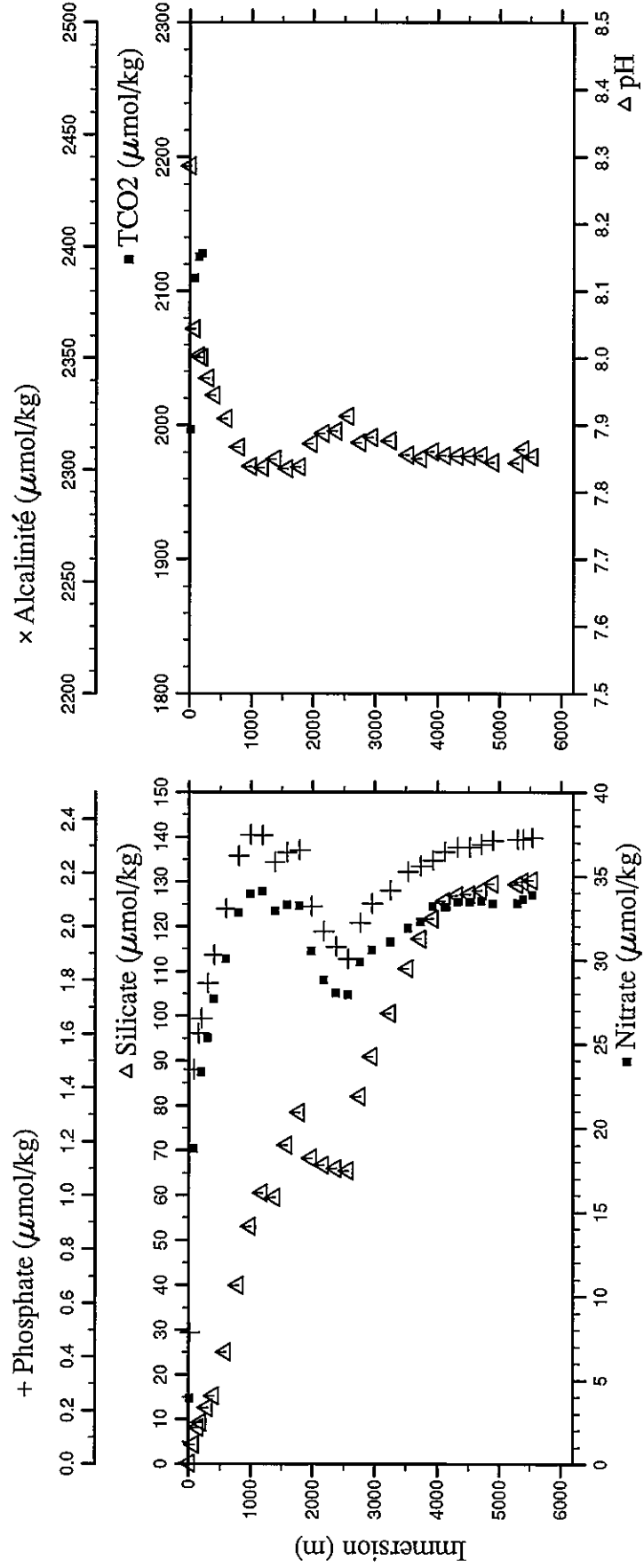
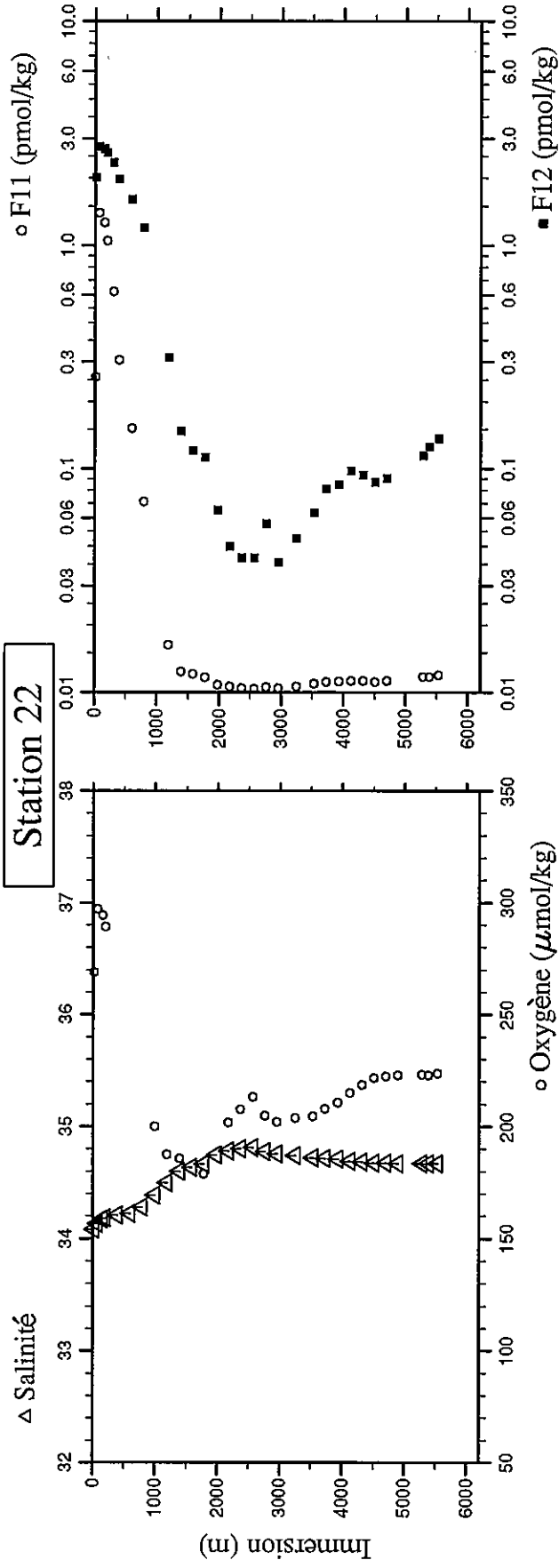
# Station 21



Station : 22 Campagne : CITHER 2  
 Date : 14-01-94 Heure : 19 h 8 mn  
 Position : S 43 55.37 W 51 0.66  
 Dernier niveau à : 5652  
 Nb prélèvements : 31

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
12.3	12.2	15.640	25.1749	34.082	268.9	3.93	0.490	0.2	3.2875	2.0179	1996.62		8.287
75.1	74.5	6.586	27.1350	34.131	297.0	18.78	1.468	4.4	5.0041	2.7565	2109.89		8.044
151.4	150.1	4.851	27.7393	34.174	294.2		1.602	8.2	4.9022	2.6979	2125.49		8.003
200.7	199.0	4.650	27.9952	34.185	289.2	23.32	1.657	9.3	4.7149	2.5925	2128.28		8.001
301.5	298.9	4.299	28.4990	34.186	277.3	r	1.790	12.6	4.1847	2.3437			7.970
401.6	398.0	4.187	28.9960	34.208	262.5	r	1.895	15.3	3.4639	1.9836			7.945
601.2	595.5	3.542	30.0010	34.223	247.5	r	2.066	25.1	2.7537	1.6021			7.910
800.8	792.8	2.804	31.0463	34.279	226.6	r	2.263	40.0	1.9869	1.1942			7.868
1000.3	989.9	2.658	32.0659	34.388	200.1		2.343	53.0					7.839
1200.4	1187.3	2.652	33.0694	34.497	187.6	34.10	2.339	60.5	0.4915	0.3131			7.837
1401.0	1385.1	2.792	34.0464	34.602	185.8	32.90	2.240	59.5	0.2178	0.1473			7.850
1600.3	1581.4	2.511	35.0144	34.637	181.5	r	2.277	71.2	0.1946	0.1209			7.835
1800.2	1778.1	2.312	35.9636	34.664	178.9	33.22	2.285	78.5	0.1553	0.1122			7.838
2000.6	1975.1	2.482	36.9087	34.747	193.4	r	2.076	68.3	0.0787	0.0653			7.873
2199.0	2170.0	2.418	37.8321	34.782	201.8	28.83	1.981	66.8	0.0591	0.0449			7.888
2400.3	2367.5	2.316	38.7577	34.802	207.6	28.04	1.924	66.0	0.0418	0.0400			7.891
2600.1	2563.4	2.219	39.6702	34.814	213.1	27.93	1.881	82.1	0.0357	0.0400			7.913
2801.4	2760.6	1.837	40.5899	34.776	204.7	29.91	2.014	65.5	0.0548	0.0566			7.874
3000.4	2955.3	1.596	41.4931	34.760	202.1	30.60	2.086	91.0	0.0411	0.0380			7.882
3299.9	3248.1	1.261	42.8495	34.744	203.7	31.10	2.135	100.6	0.0600	0.0488			7.877
3594.5	3535.6	0.938	44.1746	34.723	204.5	31.89	2.204	110.7	0.0938	0.0634			7.856
3793.5	3729.7	0.753	45.0649	34.715	207.9	32.28	2.226	117.2	0.1076	0.0810			7.851
3996.2	3927.2	0.559	45.9707	34.710	210.7	33.17	2.246	121.7	0.1152	0.0849			7.861
4197.5	4123.1	0.306	46.8751	34.694	215.1	33.16	2.278	125.7	0.1224	0.0975			7.855
4399.8	4319.9	0.133	47.7715	34.685	218.6	33.45	2.296	126.9	0.1227	0.0936			7.854
4598.5	4512.9	0.028	48.6405	34.679	221.5	33.45	2.296	127.2	0.1109	0.0868			7.854
4799.9	4708.5	-0.054	49.5144	34.679	222.3	33.54	2.305	128.1	0.1204	0.0907			7.855
4996.4	4899.1	-0.107	50.3597	34.674	222.8	33.34	2.320	129.6					7.845
5398.3	5288.4	-0.163	52.0687	34.673	223.1	33.38	2.326	129.5	0.1594	0.1141			7.844
5497.8	5384.7	-0.170	52.4880	34.672	223.0	33.62	2.326	130.1	0.1619	0.1258			7.864
5647.7	5529.7	-0.187	53.1199	34.672	223.7	33.91	2.332	130.3	0.1826	0.1366			7.853

# Station 22

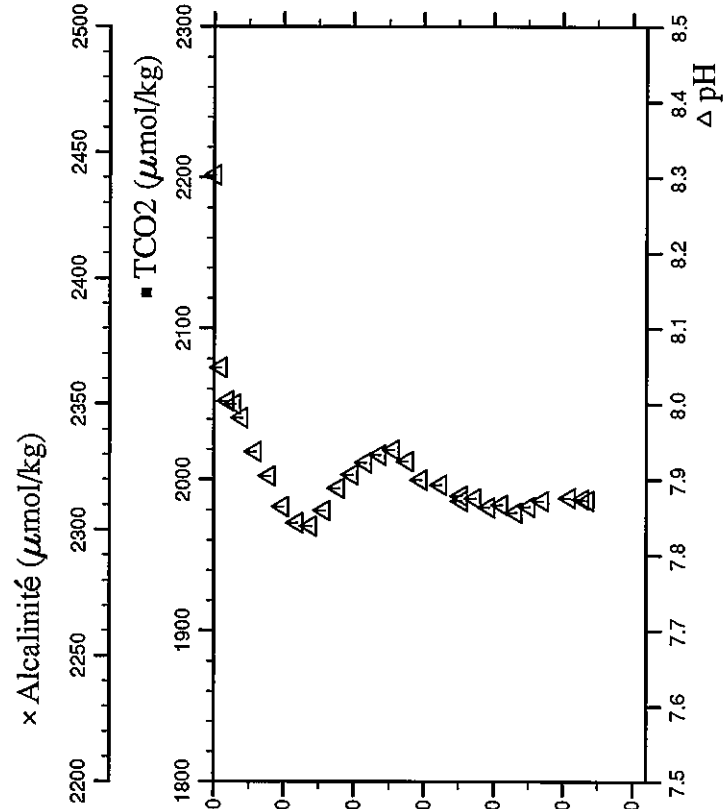
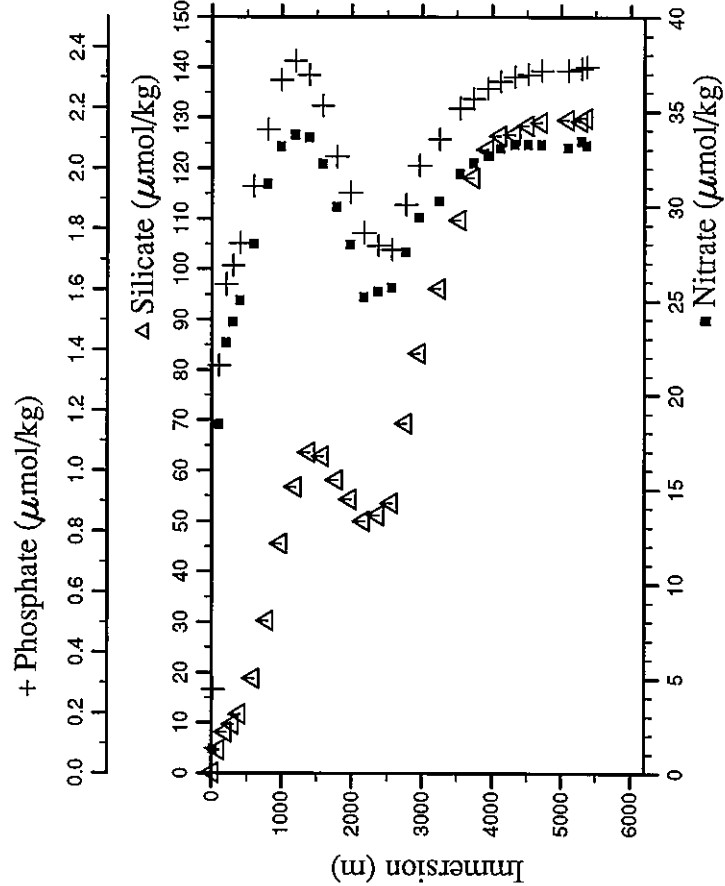
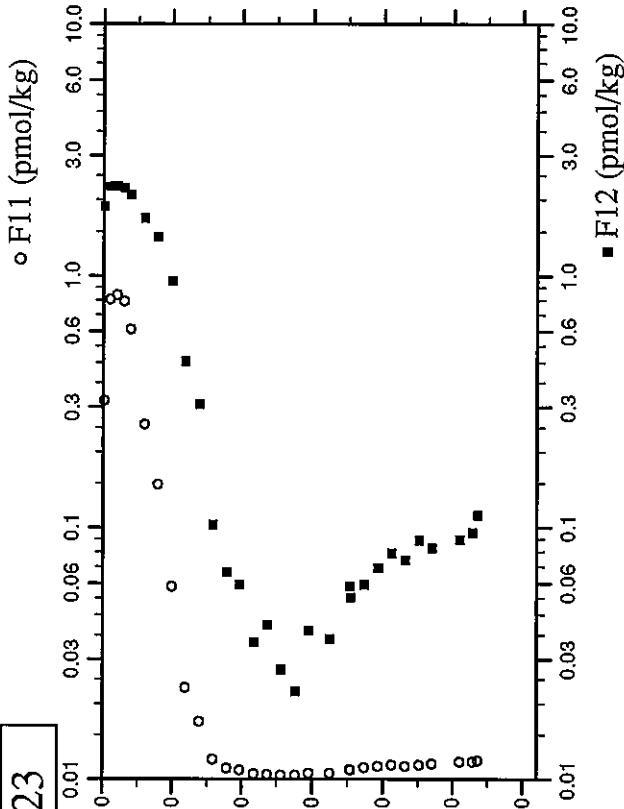
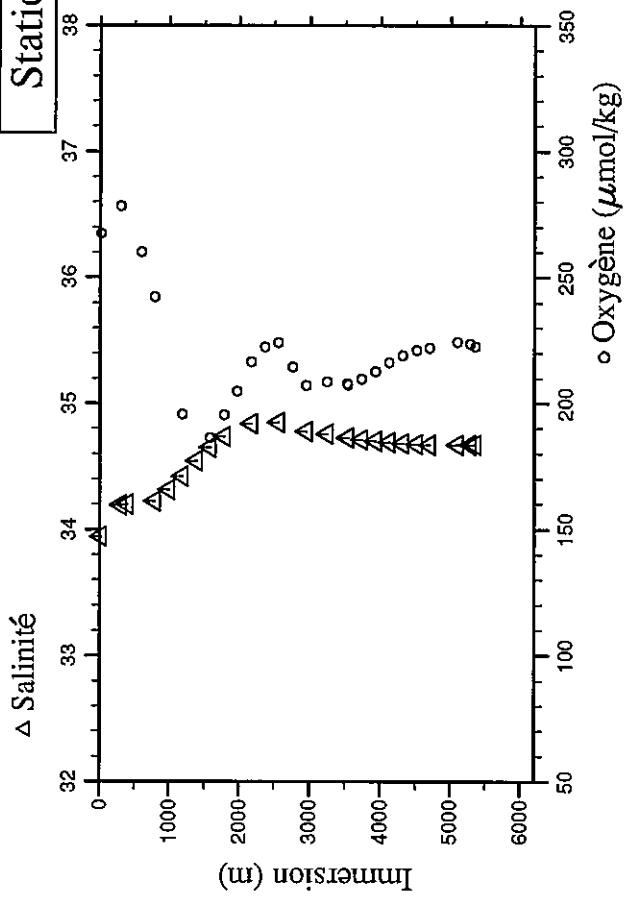


Station : 23 Campagne : CITHER 2  
 Date : 15-01-94 Heure : 23 h 8 mn  
 Position : S 43 29.37 W 50 39.75  
 Dernier niveau à : 5483  
 Nb prélèvements : 31

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI-	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol./kg	pmol./kg	um/kg	um/kg	
12.1	12.0	14.519	25.3167	33.946	267.3	1.28	0.279	0.2	3.5076	1.8776			8.303
98.9	98.1	7.252	27.2505	34.286	264.4	18.45	1.348	4.6	4.4428	2.2533			8.048
202.4	200.7	5.435	27.9321	34.201	276.3	22.78	1.617	8.2	4.4864	2.2602			8.004
302.5	299.9	4.960	28.4401	34.195	278.3	23.86	1.679	9.7	4.4305	2.2222			8.000
399.3	395.7	4.679	28.9229	34.199	274.5	25.03	1.752	11.7	4.1643	2.0885			7.982
599.6	594.0	4.037	29.9270	34.205	259.9	28.00	1.942	18.8	3.2906	1.6954			7.937
801.3	793.4	3.175	30.9607	34.224	242.1	31.17	2.127	30.3	2.7334	1.4203			7.905
1001.3	990.9	2.781	32.0021	34.318	221.9	33.15	2.292	45.5	1.7894	0.9549			7.864
1201.9	1188.9	2.666	33.0162	34.423	195.8	33.76	2.354	56.7	0.8504	0.4555			7.843
1400.0	1384.2	2.676	34.0155	34.546	207.8	33.63	2.309	63.6	0.5352	0.3082			7.839
1601.0	1582.2	2.743	34.9973	34.651	186.2	32.24	2.207	62.8	0.1839	0.1024			7.859
1803.5	1781.4	2.822	35.9662	34.736	195.5	29.95	2.038	58.2	0.1010	0.0663			7.889
1998.2	1972.8	2.834	36.8817	34.786	204.7	27.97	1.921	54.3	0.0854	0.0595			7.907
2198.6	2169.7	2.803	37.8170	34.837	216.6	25.19	1.787	50.0	0.0483	0.0351			7.923
2400.0	2367.3	2.653	38.7463	34.845	222.3	25.48	1.745	51.1	0.0418	0.0410			7.933
2599.4	2562.8	2.481	39.6554	34.848	224.1	25.68	1.731	53.6	0.0388	0.0273			7.940
2803.6	2762.8	2.101	40.5888	34.809	214.5	27.55	1.881	69.3	0.0363	0.0224			7.924
3002.2	2957.2	1.751	41.4896	34.779	207.2	29.38	2.009	83.3	0.0535	0.0390			7.900
3299.7	3248.0	1.357	42.8437	34.757	208.6	30.26	2.096	96.1	0.0564	0.0361			7.893
3597.4	3538.6	0.945	44.1890	34.725	207.8	31.69	2.200	109.7	0.0886	0.0585			7.872
3598.2	3539.4	0.949	44.1921	34.726	207.4	31.74	2.195	109.8	0.0878	0.0527			7.879
3801.7	3737.8	0.708	45.1080	34.713	209.6	32.27	2.229	118.1	0.1117	0.0595			7.875
4002.5	3933.5	0.467	46.0106	34.701	212.7	32.66	2.263	123.7	0.1190	0.0692			7.863
4194.7	4120.6	0.242	46.8737	34.690	216.3	33.05	2.287	126.4	0.1319	0.0790			7.867
4400.9	4321.1	0.070	47.7858	34.681	219.0	33.25	2.301	126.6	0.1196	0.0741			7.857
4602.4	4516.9	-0.031	48.6670	34.677	221.2	33.24	2.311	128.5	0.1337	0.0887			7.864
4799.7	4708.5	-0.087	49.5189	34.674	222.2	33.24	2.323	129.1	0.1440	0.0829			7.872
5199.9	5096.5	-0.142	51.2274	34.672	224.4	33.08	2.323	129.6	0.1633	0.0897			7.876
5398.4	5288.7	-0.168	52.0694	34.671	223.6	33.42	2.330	129.3	0.1650	0.0956			7.874
5472.7	5360.6	-0.177	52.3840	34.671	222.6	33.21	2.336	130.0	0.1758	0.1121			7.873



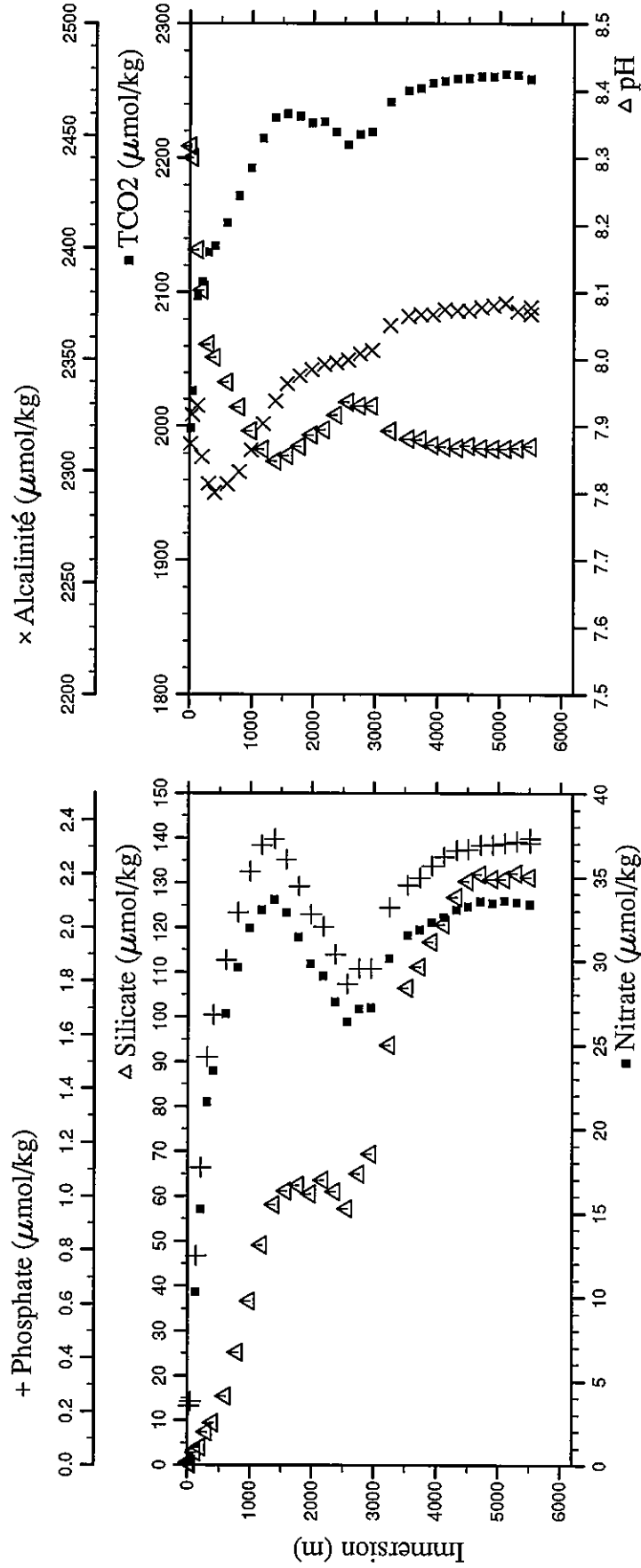
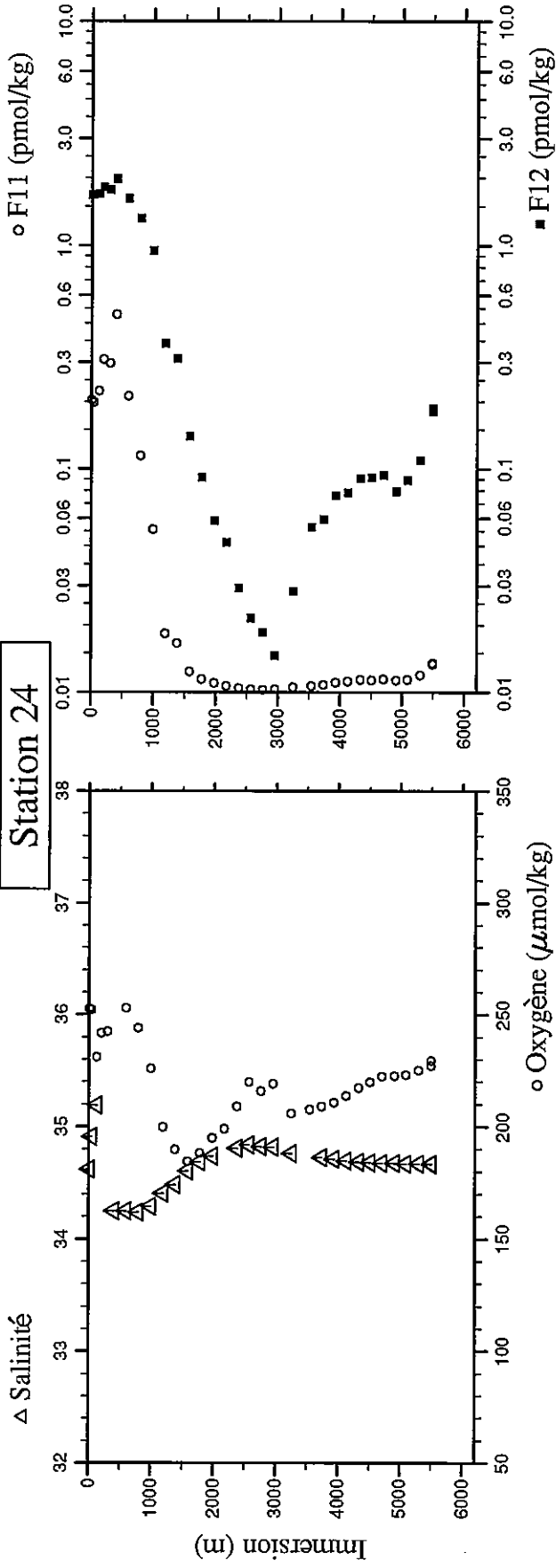
# Station 23



Station : 24 Campagne : CITHER 2  
 Date : 16-01-94 Heure : 7 h 35 mn  
 Position : S 43 5.41 W 50 18.07  
 Dernier niveau à : 5620  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
10.0	9.9	16.061	25.4853	34.622	252.7	0.19	0.222	0.6	3.0522	1.6802	1998.29	2312.0	8.318
42.0	41.7	16.015	25.8636	34.913	252.1	0.19	0.238	0.2	3.0303	1.6916	2026.22	2325.0	8.301
124.6	123.6	12.654	27.1607	35.188	231.0	10.29	0.778	2.8	3.1450	1.7039	2097.25	2329.2	8.163
199.3	197.6	9.868	27.6825	34.739	241.8	15.22	1.107	4.0	3.4801	1.8088	2107.81	2306.2	8.103
301.3	298.7	7.193	28.3074	34.405	242.5	21.58	1.518	7.4	3.4362	1.7722	2129.81	2294.3	8.023
402.9	399.3	5.481	28.8750	34.250	265.8	23.47	1.675	9.5	3.9481	1.9811	2134.44	2290.1	8.003
604.8	599.1	4.668	29.9035	34.249	253.0	26.86	1.877	15.4	3.0935	1.6183	2151.87	2294.1	7.966
802.2	794.3	3.693	30.9196	34.239	244.1	29.59	2.055	25.2	2.4711	1.3247	2171.78	2299.5	7.929
998.8	988.5	3.123	31.9247	34.289	226.0	31.97	2.208	36.7	1.6965	0.9481	2192.60	2309.2	7.893
1199.9	1186.9	2.972	32.9564	34.407	199.8	33.06	2.306	49.1	0.6120	0.3657	2214.52	2321.0	7.866
1399.3	1383.5	2.724	33.9551	34.482	189.7	33.66	2.329	58.2	0.5141	0.3111	2229.69	2331.1	7.848
1602.2	1583.4	2.749	34.9662	34.605	184.4	32.88	2.254	61.2	0.2157	0.1395	2232.83	2339.0	7.857
1800.0	1778.0	2.731	35.9227	34.687	188.4	31.42	2.154	62.5	0.1370	0.0917	2231.04	2342.6	7.870
1999.6	1974.3	2.742	36.8592	34.740	194.8	29.82	2.050	60.5	0.0969	0.0585	2225.87	2345.3	7.887
2202.2	2173.3	2.600	37.8097	34.761	199.1	29.09	2.004	63.6	0.0648	0.0468	2226.90	2347.6	7.895
2402.2	2369.6	2.538	38.7391	34.808	208.8	27.55	1.900	61.1	0.0426	0.0293	2219.06	2348.5	7.917
2603.3	2566.7	2.447	39.6670	34.840	219.8	26.37	1.790	57.2	0.0311	0.0215	2210.07	2349.6	7.936
2800.7	2760.1	2.219	40.5620	34.822	215.7	27.22	1.846	65.0	0.0271	0.0185	2217.47	2352.6	7.930
2998.9	2954.1	2.020	41.4640	34.818	219.1	27.22	1.847	69.4	0.0296	0.0146	2219.08	2354.1	7.930
3300.7	3249.1	1.485	42.8308	34.764	205.8	30.15	2.074	93.8	0.0526	0.0283	2241.62	2365.2	7.893
3599.7	3541.0	1.069	44.1854	34.744	207.7	31.54	2.157	106.5	0.0661	0.0546	2250.20	2369.2	7.881
3801.2	3737.5	0.863	45.0883	34.728	208.9	31.85	2.186	111.2	0.0816	0.0595	2251.93	2370.0	7.880
3995.7	3927.0	0.633	45.9603	34.711	210.8	32.30	2.229	116.8	0.1014	0.0761	2255.62	2370.0	7.872
4197.4	4123.3	0.376	46.8665	34.696	213.8	32.60	2.264	120.7	0.1133	0.0780	2257.18	2372.3	7.869
4402.0	4322.3	0.202	47.7710	34.688	217.3	33.06	2.286	126.8	0.1312	0.0907	2258.86	2371.7	7.868
4596.3	4511.2	0.051	48.6280	34.682	219.9	33.26	2.291	130.4	0.1268	0.0917	2259.49	2371.7	7.871
4796.9	4705.9	-0.044	49.5002	34.678	222.4	33.56	2.305	131.9	0.1406	0.0936	2260.55	2373.4	7.868
5001.0	4903.9	-0.103	50.3786	34.675	223.2	33.47	2.308	130.9	0.1264	0.0790	2260.76	2374.2	7.867
5197.7	5094.6	-0.144	51.2188	34.673	225.2	33.58	2.314	130.9	0.1340	0.0887	2262.33	2375.0	7.867
5400.3	5290.8	-0.174	52.0782	34.672	225.1	33.48	2.320	132.1	0.1781	0.1092	2262.01	2371.6	7.868
5614.5	5498.0	-0.247	52.9916	34.669	229.6	33.39	2.314	131.2	0.2932	0.1804	2258.89	2373.4	7.870
5615.4	5498.9	-0.247	52.9952	34.668	227.1	33.35	2.331	131.2	0.3024	0.1863	2258.78	2370.3	7.870

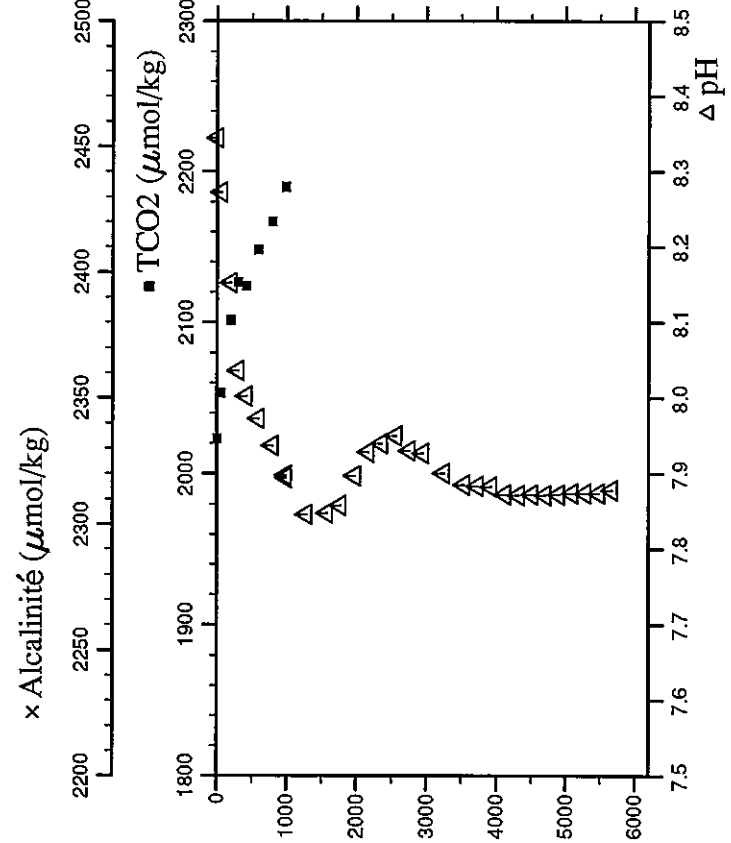
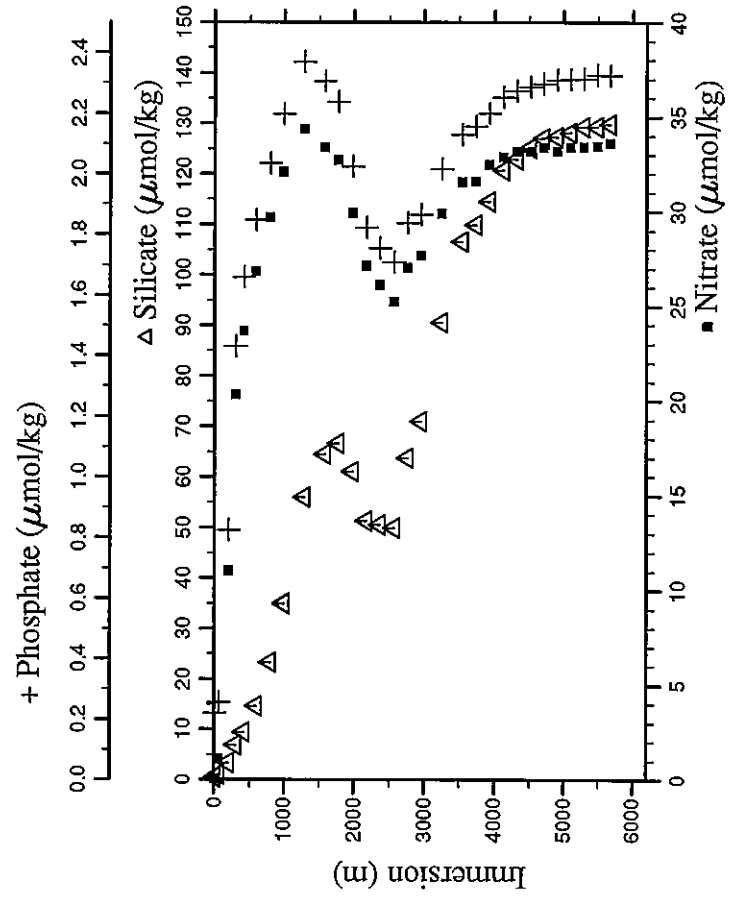
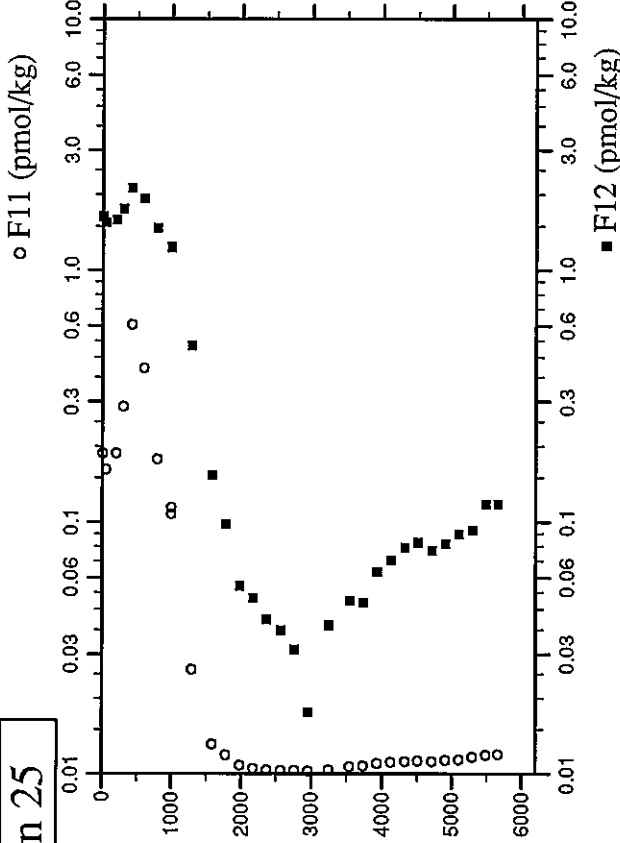
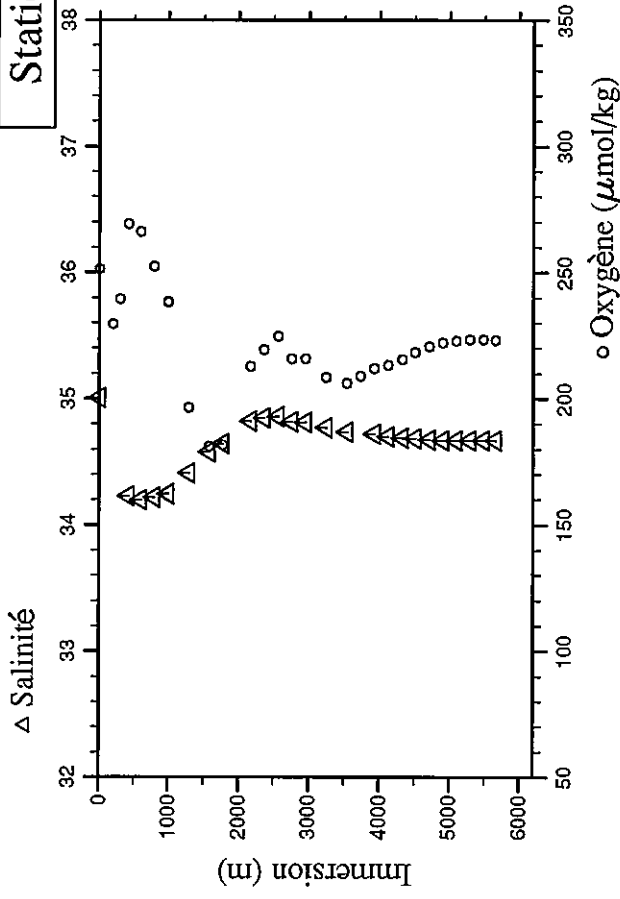
# Station 24



Station : 25 Campagne : CITHER 2  
 Date : 16-01-94 Heure : 14 h 7 mn  
 Position : S 42 40.75 W 49 57.70  
 Dernier niveau à : 5787  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
6.3	6.3	16.138	25.7460	35.006	251.3	0.04	0.222	0.4	2.9690	1.6320	2023.20		8.345
56.3	55.8	16.454	26.1508	35.424	235.9	1.12	0.257	1.1	2.8174	1.5507	2053.32		8.273
202.0	200.3	12.051	27.5742	35.162	229.4	11.04	0.824	3.3	2.9703	1.5870	2101.58		8.152
301.7	299.1	7.756	28.2704	34.468	239.5	20.35	1.431	6.9	3.3994	1.7545	2126.26		8.036
423.8	420.0	5.339	28.9726	34.229	269.1	23.68	1.659	9.5	4.1630	2.1265	2124.06		8.002
600.4	594.8	4.328	29.8866	34.200	266.0	26.85	1.849	14.7	3.7585	1.9285	2148.11		7.973
800.5	792.6	3.630	30.9006	34.218	252.3	29.69	2.034	23.3	2.9144	1.4720	2166.83		7.937
1002.1	991.8	2.813	31.9434	34.244	238.5	32.08	2.198	35.0	2.4708	1.2398	2190.17		7.898
1002.2	991.9	2.812	31.9448	34.249	238.2	32.09	2.198	34.9	2.4107	1.2222	2189.76		7.895
1299.3	1285.0	2.537	33.4657	34.411	196.4	34.38	2.370	56.0	0.9685	0.4994			7.846
1598.6	1579.9	2.611	34.9482	34.578	181.2	33.39	2.305	64.5	0.2759	0.1531			7.848
1798.4	1776.5	2.593	35.9065	34.645	181.6	32.70	2.238	66.7	0.1737	0.0985			7.858
1999.1	1973.9	2.698	36.8791	34.751	196.0	29.93	2.024	61.1	0.0818	0.0556			7.897
2200.5	2171.7	2.821	37.8129	34.822	212.6	27.14	1.823	51.3	0.0482	0.0497			7.929
2398.9	2366.4	2.721	38.7241	34.847	219.2	26.15	1.755	50.5	0.0352	0.0410			7.940
2600.0	2563.6	2.615	39.6418	34.859	224.7	25.26	1.708	49.9	0.0312	0.0371			7.950
2797.8	2757.3	2.260	40.5420	34.821	215.7	27.06	1.838	63.7	0.0287	0.0312			7.930
2999.8	2955.0	2.050	41.4589	34.814	215.7	27.71	1.866	71.0	0.0252	0.0176			7.927
3298.4	3247.0	1.613	42.8090	34.775	208.3	29.89	2.016	90.6	0.0373	0.0390			7.901
3602.9	3544.2	1.164	44.1882	34.740	206.2	31.56	2.131	106.6	0.0644	0.0488			7.885
3800.1	3736.6	0.964	45.0724	34.746	208.8	31.61	2.157	109.9	0.0727	0.0478			7.884
4000.5	3931.8	0.731	45.9692	34.721	211.9	32.47	2.200	114.4	0.0947	0.0634			7.883
4201.1	4127.1	0.484	46.8667	34.702	213.3	32.87	2.252	120.7	0.1102	0.0702			7.873
4401.6	4322.1	0.286	47.7585	34.692	215.5	33.18	2.275	122.8	0.1120	0.0790			7.872
4598.3	4513.3	0.113	48.6277	34.686	218.2	33.18	2.287	125.2	0.1193	0.0829			7.873
4799.9	4709.0	0.000	49.5063	34.679	220.6	33.39	2.298	127.0	0.1134	0.0770			7.872
4999.5	4902.6	-0.073	50.3684	34.674	222.0	33.19	2.310	127.3	0.1254	0.0819			7.873
5202.6	5099.5	-0.122	51.2360	34.674	223.0	33.40	2.312	128.2	0.1321	0.0897			7.874
5398.2	5288.9	-0.155	52.0670	34.674	223.3	33.41	2.315	129.3	0.1554	0.0926			7.874
5599.1	5483.3	-0.170	52.9132	34.674	223.4	33.46	2.327	129.3	0.1759	0.1180			7.874
5787.6	5665.6	-0.184	53.7043	34.673	223.2	33.62	2.326	129.9	0.1823	0.1180			7.879

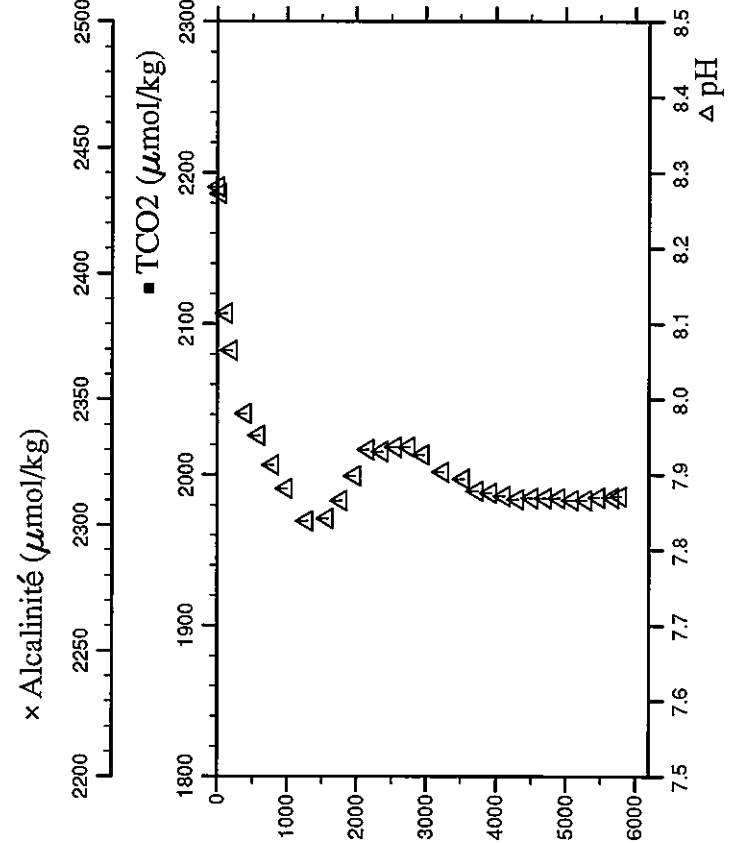
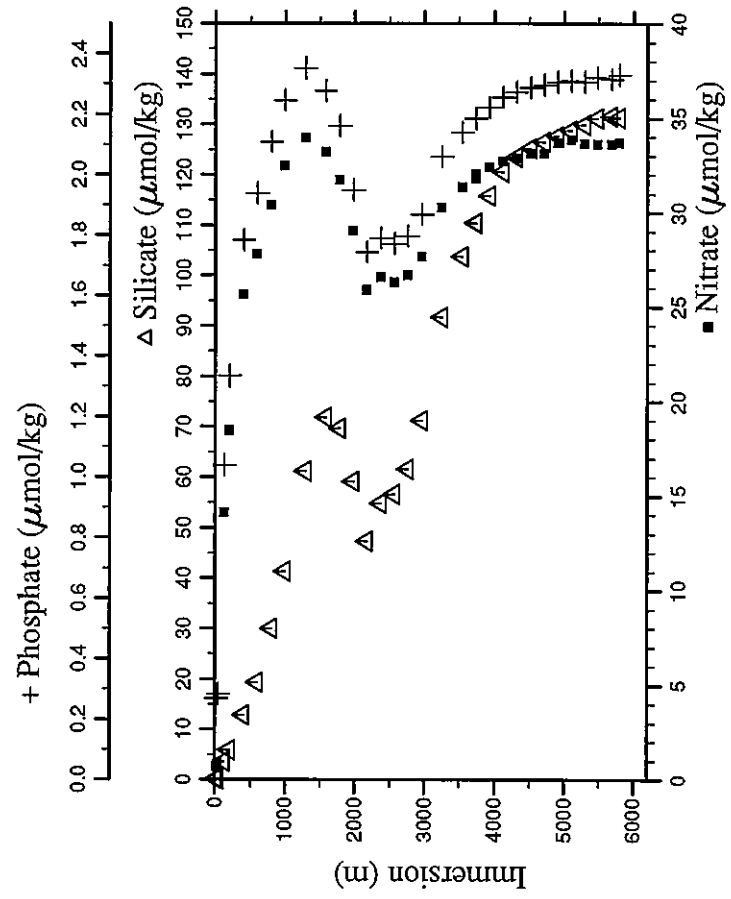
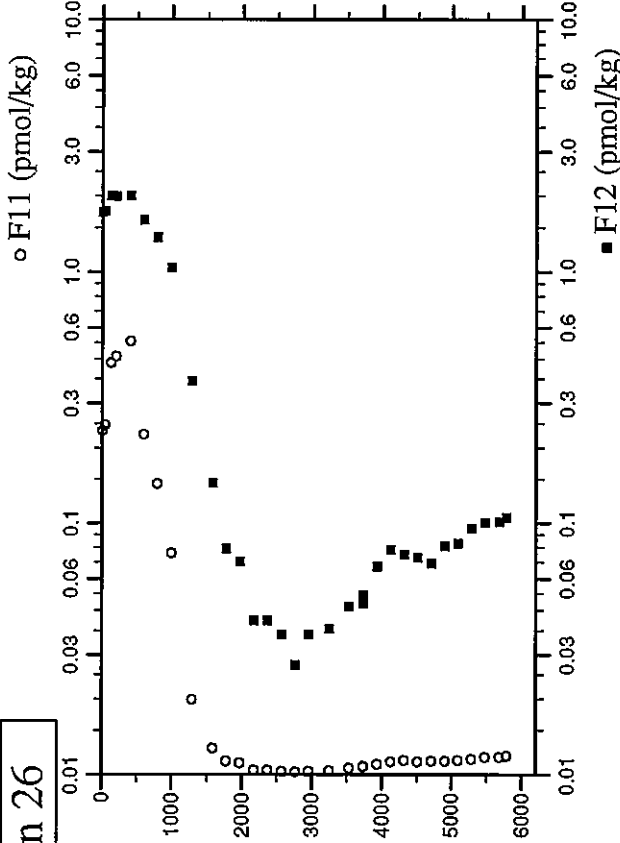
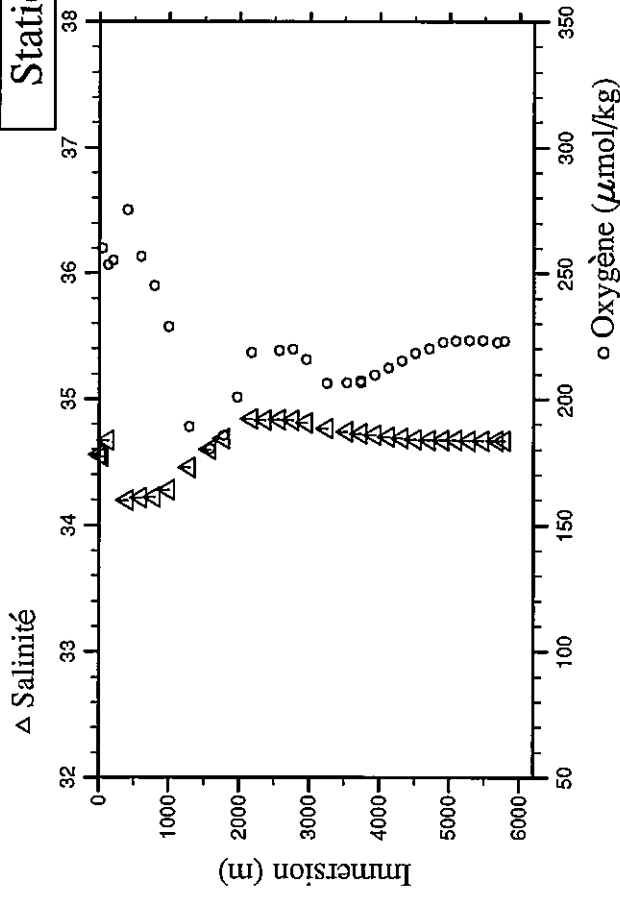
# Station 25



Station : 26 Campagne : CITHER 2  
 Date : 16-01-94 Heure : 20 h 58 mn  
 Position : S 42 16.34 W 49 35.96  
 Dernier niveau à : 5917  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
10.9	10.8	15.319	25.6110	34.560	260.1	0.68	0.270	0.2	3.1915	1.7193			8.281
41.9	41.6	15.052	25.7924	34.545	259.9	0.92	0.285	0.2	3.2465	1.7418			8.273
124.3	123.3	9.630	27.3208	34.674	253.5	14.15	1.040	3.6	3.8198	2.0010			8.114
198.7	197.0	7.725	27.7924	34.491	255.2	18.47	1.336	5.9	3.8816	1.9964			8.065
404.3	400.7	4.626	28.9503	34.200	275.3	25.66	1.785	12.9	4.0219	2.0007			7.981
599.5	593.9	4.027	29.9341	34.218	256.7	27.80	1.939	19.4	3.1586	1.6076			7.952
801.7	793.9	3.165	30.9670	34.223	245.1	30.40	2.108	30.1	2.6988	1.3725			7.913
1001.9	991.6	2.618	31.9941	34.281	228.6	32.48	2.247	41.4	2.0549	1.0398			7.882
1301.6	1287.3	2.533	33.5137	34.458	189.0	33.98	2.352	61.2	0.6968	0.3677			7.839
1599.6	1581.0	2.551	34.9787	34.601	180.2	33.22	2.279	71.9	0.2480	0.1443			7.842
1799.4	1777.6	2.611	35.9368	34.685	185.6	31.73	2.161	69.7	0.1293	0.0790			7.866
1997.6	1972.5	2.784	36.8751	34.772	200.8	29.04	1.951	59.1	0.1116	0.0702			7.899
2199.3	2170.6	2.925	37.8067	34.845	218.5	25.91	1.744	47.3	0.0430	0.0410			7.934
2400.1	2367.7	2.657	38.7307	34.833	225.7	26.59	1.792	54.9	0.0459	0.0410			7.931
2601.7	2565.3	2.501	39.6527	34.841	219.3	26.30	1.773	56.6	0.0339	0.0361			7.937
2801.1	2760.7	2.294	40.5605	34.833	219.8	26.69	1.798	61.6	0.0284	0.0273			7.937
3000.8	2956.1	2.046	41.4622	34.812	215.7	27.66	1.869	71.2	0.0327	0.0361			7.927
3297.7	3246.4	1.564	42.8072	34.768	206.4	30.28	2.061	91.7	0.0396	0.0380			7.904
3597.4	3539.0	1.169	44.1630	34.743	206.5	31.34	2.141	103.8	0.0603	0.0468			7.895
3800.4	3736.9	0.956	45.0697	34.728	206.7	31.79	2.187	110.4	0.0760	0.0517			7.879
3800.4	3737.0	0.957	45.0710	34.727	207.3	32.03	2.186	110.5	0.0764	0.0478			7.879
3998.5	3930.0	0.700	45.9614	34.715	209.7	32.42	2.223	115.9	0.0958	0.0673			7.876
4198.6	4124.8	0.483	46.8558	34.702	212.4	32.72	2.258	120.6	0.1186	0.0780			7.872
4395.6	4316.4	0.288	47.7296	34.693	215.3	32.87	2.275	123.5	0.1313	0.0751			7.868
4597.9	4513.0	0.126	48.6217	34.683	218.2	33.12	2.289	125.3	0.1231	0.0731			7.869
4800.3	4709.6	0.015	49.5054	34.679	220.2	33.12	2.297	126.5	0.1278	0.0692			7.869
4998.9	4902.2	-0.062	50.3626	34.676	222.6	33.71	2.309	127.7	0.1240	0.0809			7.869
5197.7	5094.9	-0.108	51.2121	34.675	223.1	33.86	2.312	128.8	0.1343	0.0829			7.867
5397.3	5288.3	-0.141	52.0597	34.674	223.3	33.67	2.308	130.0	0.1431	0.0956			7.867
5594.3	5478.9	-0.161	52.8909	34.672	223.3	33.63	2.323	131.2	0.1611	0.1004			7.870
5799.8	5677.6	-0.176	53.7524	34.671	222.6	33.64	2.317	131.6	0.1648	0.1014			7.870
5912.2	5786.2	-0.177	54.2217	34.669	223.1	33.69	2.332	131.4	0.1727	0.1053			7.872

Station 26

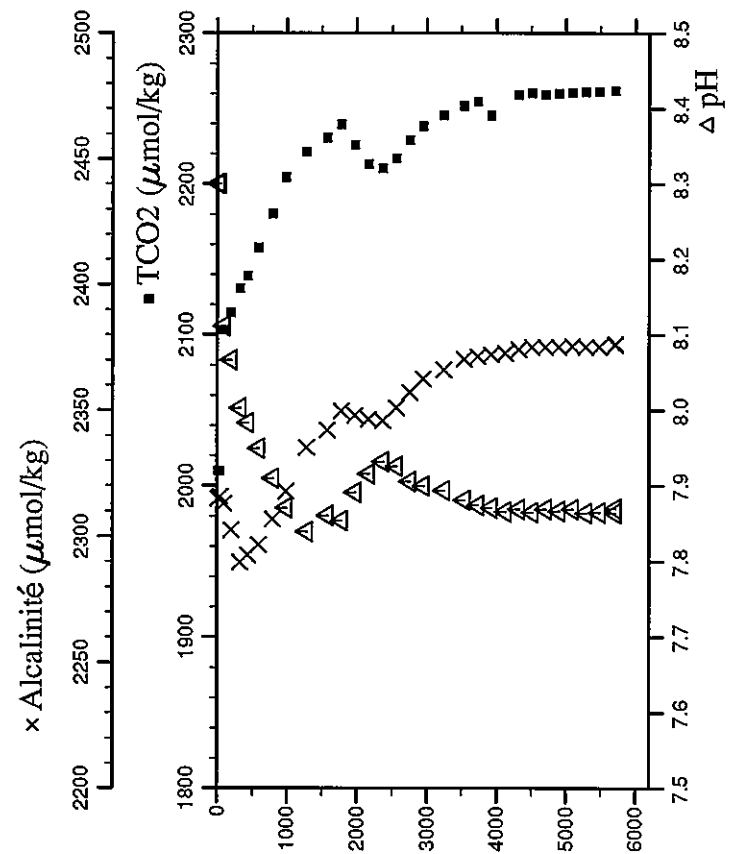
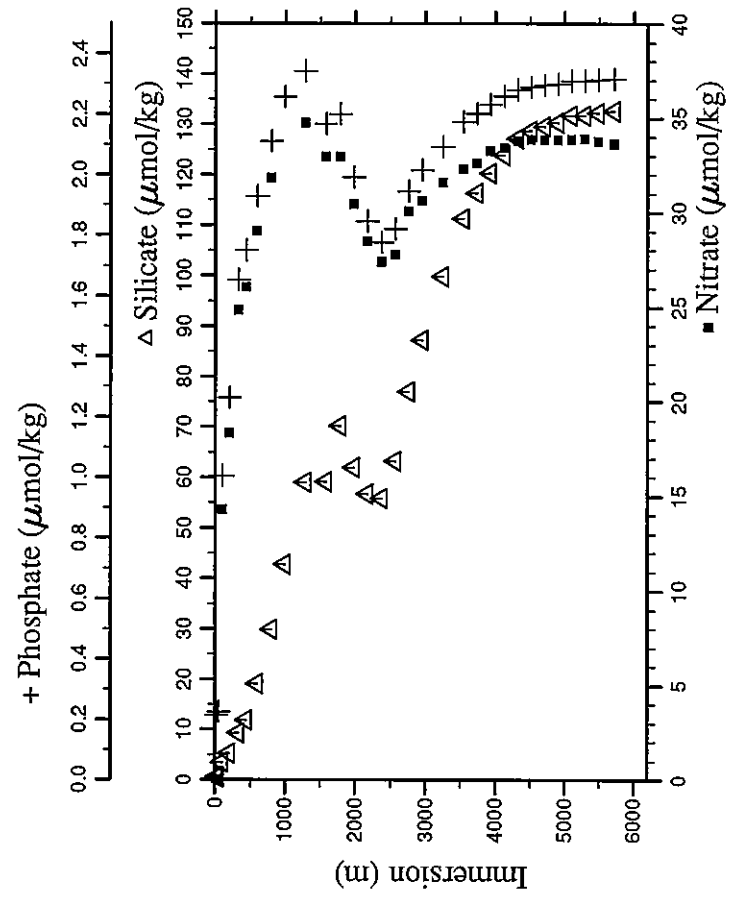
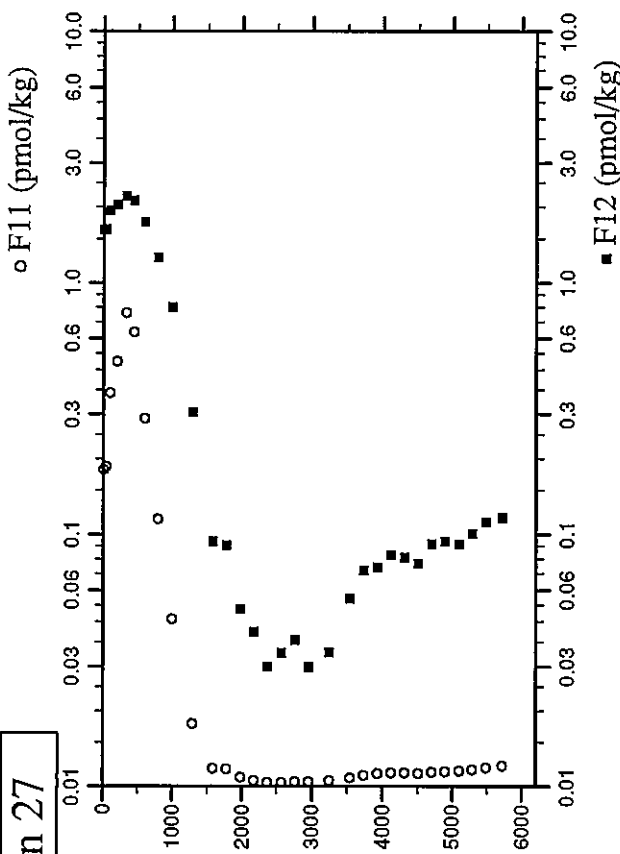
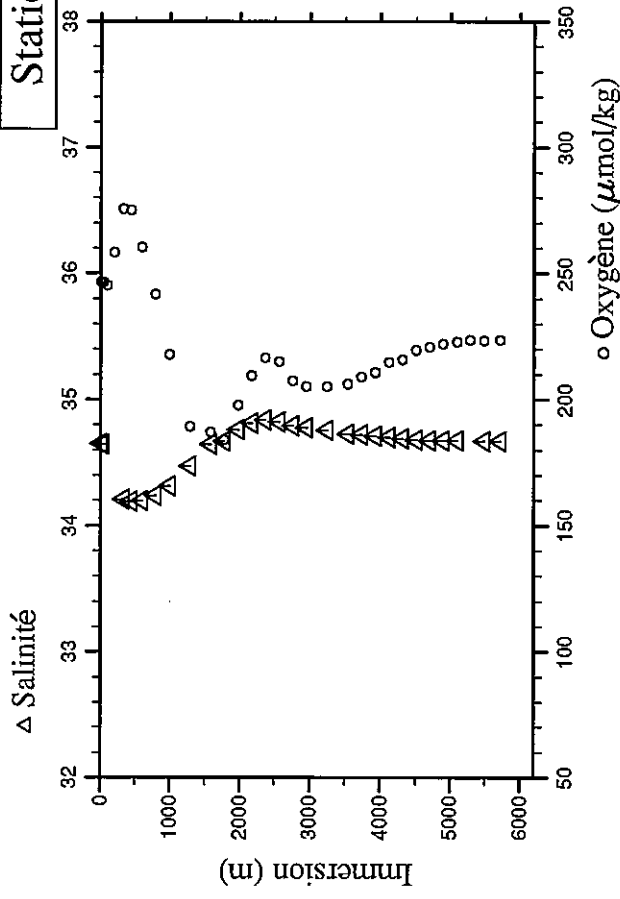


Station : 27 Campagne : CITHER 2  
 Date : 17-01-94 Heure : 4 h 5 mn  
 Position : S 41 50.56 W 49 14.65  
 Dernier niveau à : 5844  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
8.9	8.8	16.602	25.3806	34.653	246.4	0.04	0.214	0.6	2.9327	1.6208	2009.87	2314.9	8.301
42.5	42.2	16.559	25.5327	34.648	246.4	0.04	0.226	0.6	2.9646	1.6295	2010.04	2315.6	8.301
100.0	99.2	10.222	27.1797	34.771	r	14.32	1.005	3.5	3.6463	1.9384	2103.14	2312.7	8.112
199.4	197.7	8.189	27.8084	34.543	r	18.35	1.263	5.2	3.9367	2.0353	2114.40	2302.3	8.067
329.9	327.1	5.079	28.5571	34.208	258.1	24.85	1.653	9.3	4.3844	2.2163	2130.81	2289.7	8.003
440.4	436.5	4.541	29.1205	34.192	275.1	26.08	1.751	11.9	4.2110	2.1236	2139.25	2292.4	7.984
598.9	593.4	3.936	29.9237	34.200	260.3	29.03	1.928	19.1	3.4084	1.7422	2157.95	2296.5	7.950
801.8	794.0	3.258	30.9671	34.241	241.7	31.84	2.112	29.9	2.4747	1.2583	2180.34	2306.6	7.910
1004.4	994.1	2.797	32.0094	34.317	217.8	2.258	2.258	42.8	1.5510	0.7998	2204.47	2317.6	7.871
1300.7	1286.5	2.629	33.5120	34.474	189.2	34.75	2.341	59.0	0.5838	0.3053	2221.36	2335.2	7.840
1600.3	1581.7	2.784	34.9843	34.647	187.1	32.94	2.169	59.2	0.1652	0.0936	2230.83	2342.1	7.861
1800.1	1778.3	2.529	35.9393	34.669	184.0	32.94	2.200	70.2	0.1597	0.0907	2239.37	2349.8	7.854
1999.2	1974.1	2.692	36.8815	34.762	197.7	30.44	1.993	62.0	0.0869	0.0507	2226.01	2347.8	7.891
2198.8	2170.2	2.737	37.8099	34.812	209.5	28.48	1.847	56.8	0.0582	0.0410	2213.21	2346.5	7.916
2399.0	2366.7	2.613	38.7326	34.838	216.6	27.40	1.777	55.9	0.0360	0.0300	2210.14	2345.9	7.932
2599.8	2563.6	2.366	39.6532	34.825	215.1	27.75	1.821	63.2	0.0385	0.0339	2217.01	2351.0	7.926
2798.6	2758.3	2.030	40.5597	34.795	207.3	30.07	1.945	77.0	0.0413	0.0380	2228.82	2357.1	7.906
2998.3	2953.8	1.759	41.4678	34.778	205.1	30.62	2.016	87.3	0.0435	0.0297	2238.21	2362.5	7.900
3300.0	3248.8	1.379	42.8375	34.757	205.1	31.61	2.092	99.9	0.0527	0.0341	2245.54	2365.9	7.894
3599.9	3541.6	1.009	44.1902	34.728	206.2	32.30	2.175	111.3	0.0802	0.0556	2251.78	2370.4	7.881
3799.6	3736.4	0.802	45.0849	34.722	208.8	32.61	2.203	116.4	0.1036	0.0722	2254.84	2371.3	7.874
3999.9	3931.5	0.580	45.9829	34.710	210.7	33.25	2.232	120.3	0.1202	0.0741	2245.40	2372.0	7.871
4200.6	4126.9	0.371	46.8785	34.700	214.7	33.41	2.260	123.9	0.1254	0.0829	2258.95	2372.5	7.866
4399.2	4320.1	0.168	47.7640	34.690	215.7	33.81	2.280	127.2	0.1276	0.0809	2258.95	2374.2	7.869
4597.5	4512.8	0.047	48.6329	34.682	219.7	33.86	2.288	128.7	0.1225	0.0770	2260.13	2375.2	7.865
4798.9	4708.4	-0.033	49.5067	34.679	220.9	33.84	2.296	129.6	0.1305	0.0917	2259.33	2375.1	7.869
4997.9	4901.5	-0.087	50.3618	34.678	222.2	33.83	2.300	130.3	0.1356	0.0936	2260.38	2375.0	7.867
5200.0	5097.4	-0.124	51.2240	34.676	223.0	33.88	2.311	131.7	0.1461	0.0917	2260.91	2375.3	7.869
5395.3	5286.5	-0.149	52.0523	34.679	r	33.89	2.311	131.7	0.1589	0.1004	2261.05	2375.0	7.864
5598.1	5482.8	-0.167	52.9081	34.674	223.5	33.76	2.314	132.3	0.1729	0.1121	2261.39	2375.2	7.865
5837.6	5714.3	-0.182	53.9119	34.674	223.6	33.62	2.317	132.7	0.1927	0.1170	2262.06	2376.5	7.864
5841.4	5718.0	-0.182	53.9267	34.675	r	33.66	2.317	132.7	0.1894	0.1160	2262.06	2376.0	7.870



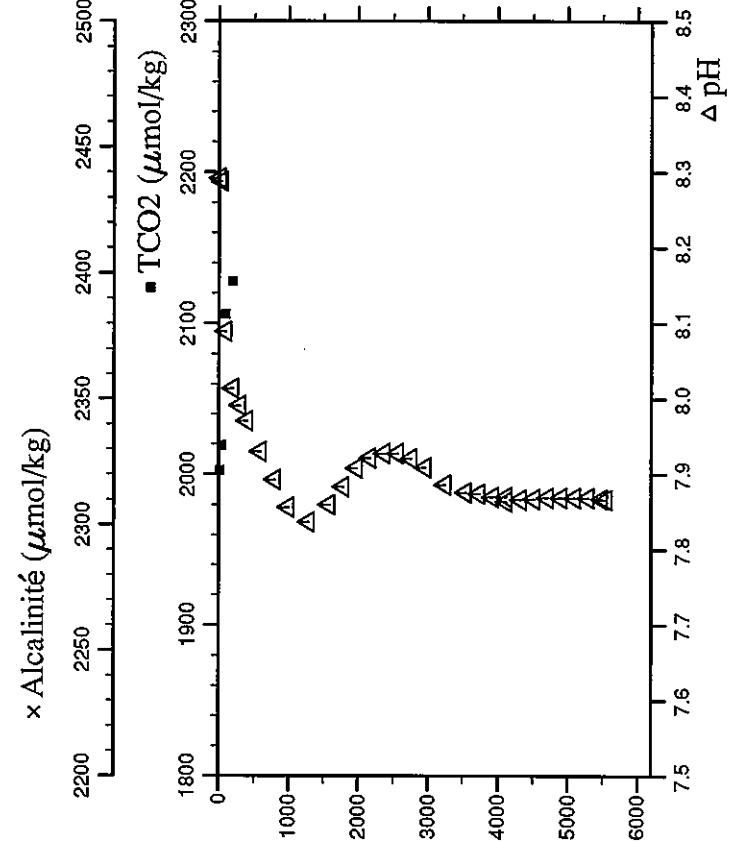
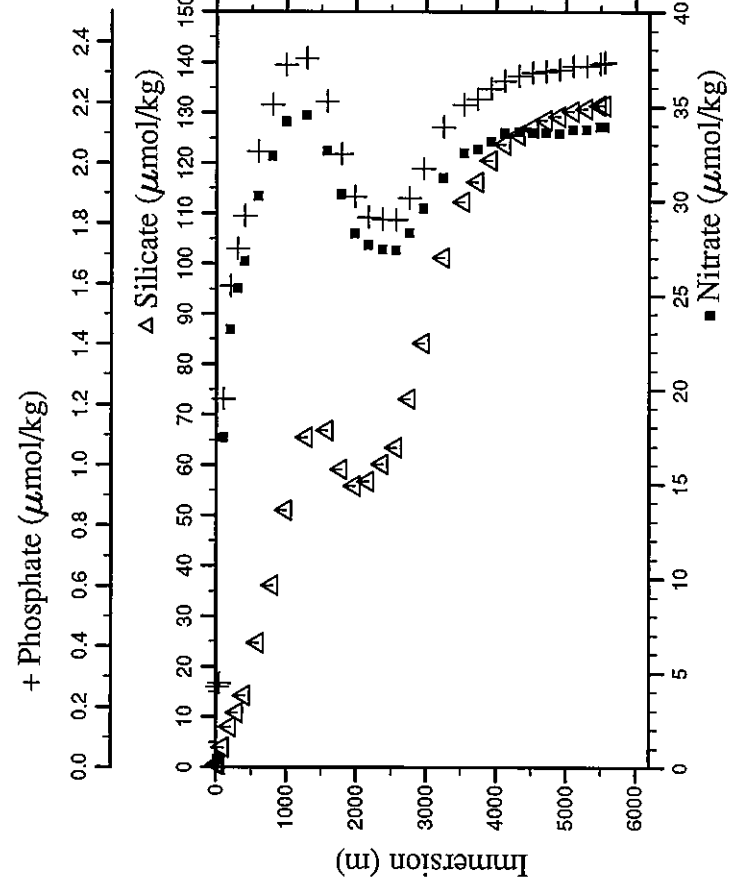
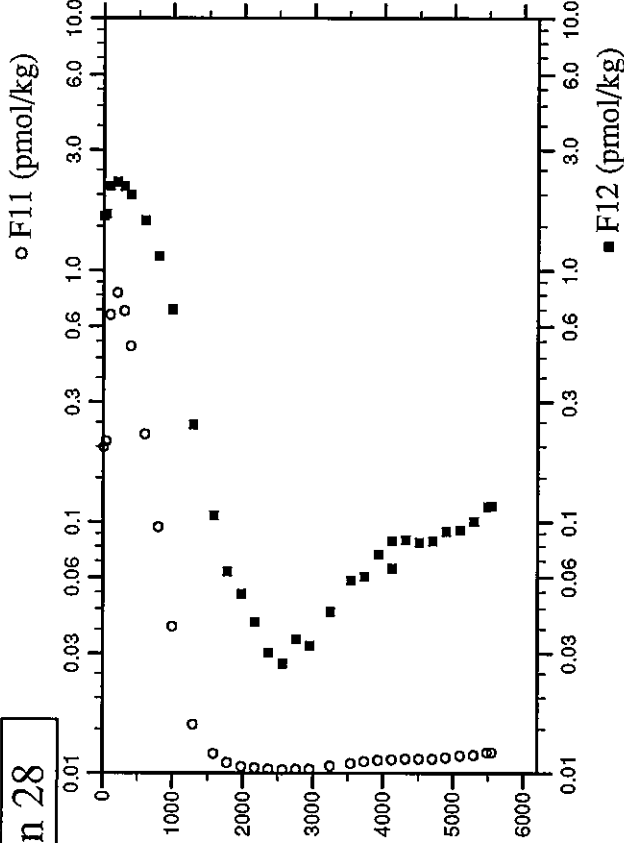
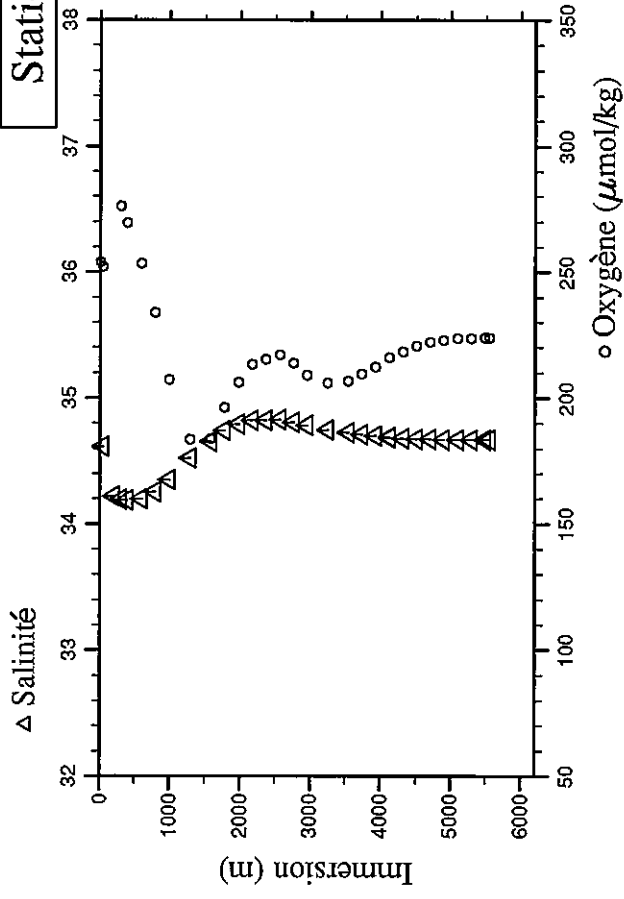
Station 27



Station : 28 Campagne : CITHER 2  
 Date : 17-01-94 Heure : 11 h 7 mn  
 Position : S 41 25.57 W 48 53.17  
 Dernier niveau à : 5664  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
9.9	9.8	16.217	25.4434	34.620	r 253.8	0.43	0.267	0.5	3.0280	1.6387	2002.76		8.292
41.9	41.6	16.063	25.6207	34.614	252.2	0.51	0.279	0.5	3.0806	1.6728	2019.30		8.288
100.5	99.7	8.027	27.2705	34.439	r 268.2	r 17.45	1.220	4.0	4.2543	2.1569	2106.00		8.090
200.7	199.0	5.473	27.9230	34.221	r 274.8	r 23.17	1.595	8.0	4.4602	2.2392	2127.53		8.014
300.3	297.7	4.760	28.4516	34.194	276.0	25.37	1.717	10.8	4.2900	2.1505			7.991
401.6	398.1	4.302	28.9665	34.187	269.5	26.83	1.826	14.3	3.9622	1.9866			7.971
601.5	595.9	3.395	30.0032	34.201	253.5	30.25	2.040	24.7	3.1484	1.5777			7.930
801.3	793.5	2.898	31.0200	34.256	233.8	32.36	2.193	36.1	2.2841	1.1327			7.893
1003.0	992.8	2.632	32.0548	34.353	207.0	34.22	2.324	51.0	1.3587	0.6975			7.857
1302.4	1288.2	2.550	33.5650	34.522	183.5	34.53	2.347	65.5	0.4533	0.2429			7.837
1597.7	1579.2	2.621	35.0025	34.658	183.8	32.63	2.205	66.9	0.1792	0.1063			7.860
1799.1	1777.4	2.769	35.9597	34.742	196.3	30.35	2.031	59.1	0.0957	0.0634			7.884
1998.9	1973.9	2.776	36.8967	34.796	206.2	28.27	1.889	55.9	0.0634	0.0517			7.908
2200.0	2171.5	2.642	37.8341	34.822	213.2	27.67	1.821	56.8	0.0484	0.0400			7.922
2400.6	2368.3	2.462	38.7578	34.826	215.2	27.43	1.814	60.2	0.0374	0.0302			7.928
2601.9	2565.7	2.289	39.6750	34.827	217.1	27.38	1.813	63.5	0.0326	0.0273			7.928
2799.7	2759.5	2.021	40.5768	34.807	213.8	28.29	1.884	73.1	0.0384	0.0341			7.921
3000.5	2956.1	1.740	41.4869	34.783	208.9	29.61	1.982	84.2	0.0397	0.0322			7.909
3298.8	3247.7	1.289	42.8423	34.747	205.8	31.22	2.119	101.2	0.0644	0.0439			7.886
3598.5	3540.4	0.905	44.1975	34.725	206.6	32.53	2.193	112.3	0.0917	0.0585			7.876
3800.0	3736.9	0.716	45.0990	34.714	209.5	32.74	2.213	116.3	0.1090	0.0605			7.874
3999.2	3931.0	0.473	45.9952	34.700	212.3	33.15	2.247	120.5	0.1222	0.0741			7.870
4198.3	4124.8	0.272	46.8824	34.693	216.1	33.62	2.273	123.7	0.1292	0.0839			7.870
4498.5	4125.0	0.274	46.8841	34.689	215.9	33.56	2.273	123.8	0.1292	0.0653			7.854
4398.0	4319.1	0.121	47.7647	34.683	218.3	33.67	2.290	125.6	0.1316	0.0849			7.867
4598.8	4514.3	0.008	48.6444	34.678	220.5	33.63	2.299	127.0	0.1304	0.0829			7.868
4797.0	4706.7	-0.063	49.5024	34.676	222.1	33.64	2.304	128.6	0.1315	0.0839			7.869
4997.8	4901.6	-0.114	50.3665	34.672	222.8	33.59	2.310	129.3	0.1456	0.0917			7.869
5197.5	5095.5	-0.146	51.2187	34.672	223.6	33.80	2.321	130.3	0.1604	0.0927			7.869
5397.9	5288.9	-0.167	52.0648	34.673	223.6	33.81	2.321	130.9	0.1669	0.1005			7.869
5597.5	5482.4	-0.180	52.9075	34.671	223.8	33.92	2.330	131.5	0.1919	0.1151			7.868
5665.1	5547.8	-0.180	53.1915	34.672	224.0	33.93	2.333	131.5	0.1893	0.1161			7.867

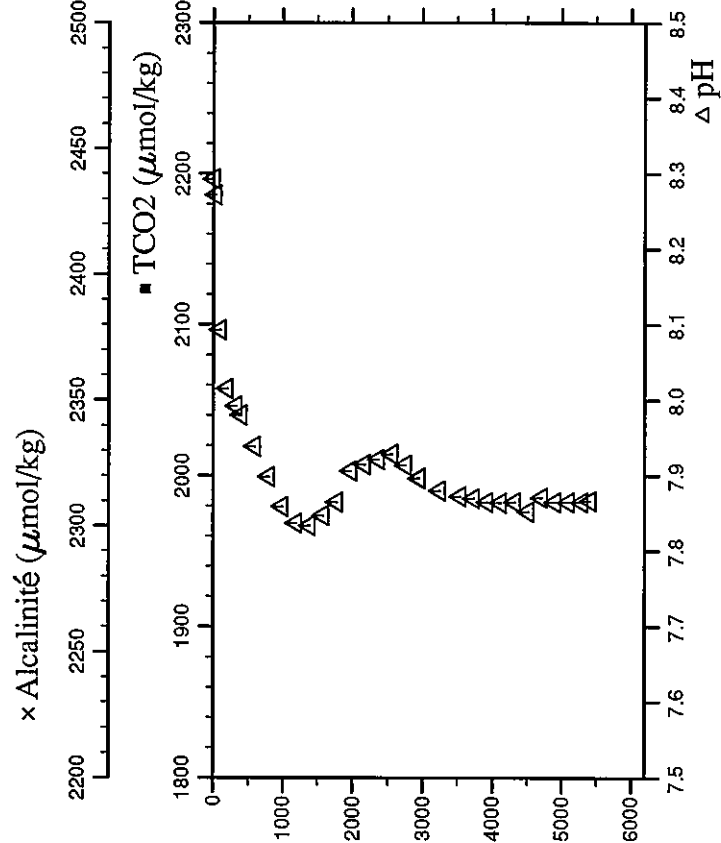
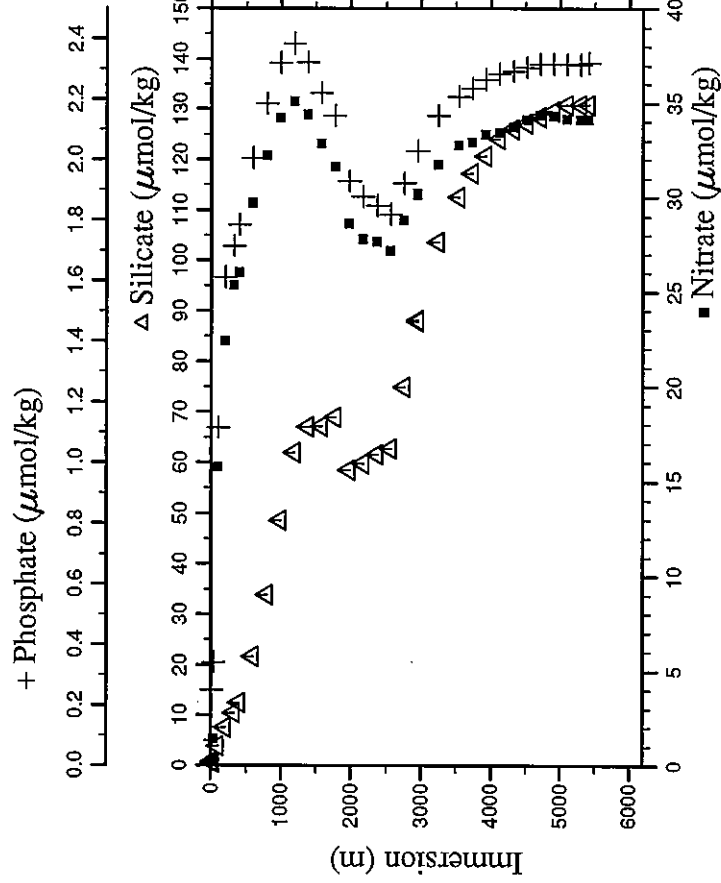
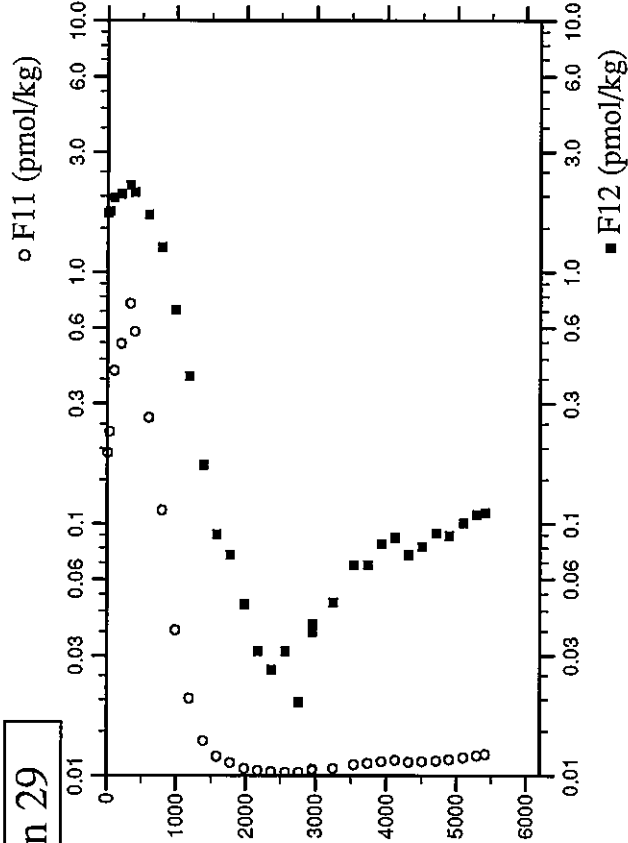
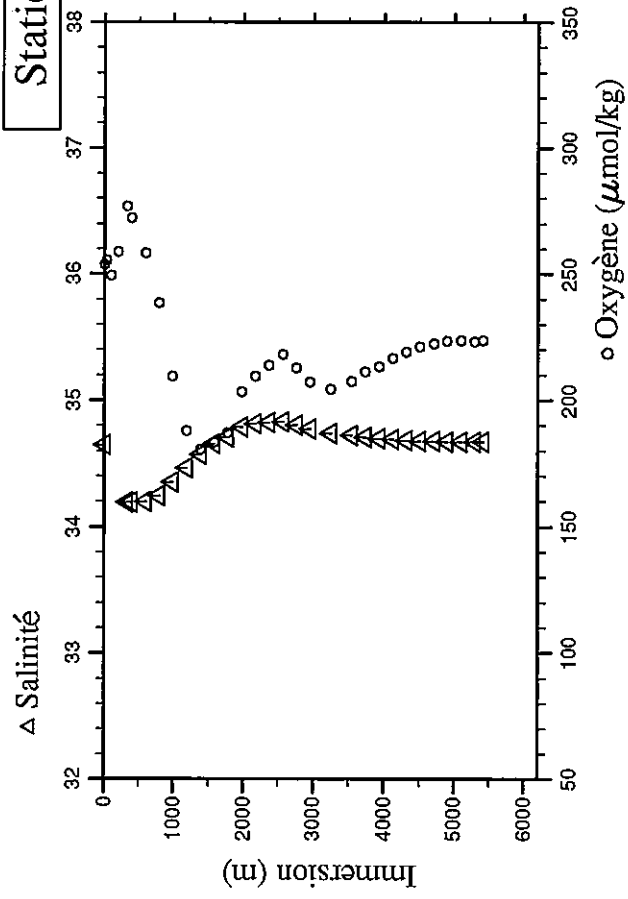
# Station 28



Station : 29 Campagne : CITHER 2  
 Date : 17-01-94 Heure : 18 h 15 mn  
 Position : S 41 0.82 W 48 31.77  
 Dernier niveau à : 5538  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.3	4.3	16.552	25.3654	34.645	253.7	0.24	0.251	0.7	2.921	1.7069			8.293
36.2	35.9	15.537	25.8038	34.672 r	255.4	1.42	0.341	0.5	3.1865	1.7409			8.272
99.1	98.3	9.526	27.2212	34.662 r	249.3	15.75	1.116	3.8	3.7529	1.9751			8.093
201.6	199.9	6.393	27.8779	34.312 r	258.8	22.41	1.612	7.5	4.0009	2.0381			8.015
331.9	329.1	4.786	28.5914	34.192	276.8	25.36	1.715	10.5	4.3737	2.2071			7.992
399.3	395.8	4.552	28.9303	34.192	272.1	26.02	1.785	12.5	4.1159	2.0802			7.980
600.2	594.7	3.667	29.9623	34.200	258.1	29.71	2.006	21.7	3.3154	1.6870			7.939
800.8	793.1	2.997	30.9970	34.243	238.3	32.19	2.185	33.9	2.4587	1.2528			7.899
997.8	987.7	2.685	32.0211	34.351	209.3	34.21	2.320	48.6	1.3509	0.7054			7.859
1201.5	1188.7	2.539	33.0601	34.465	187.8	35.07	2.384	62.0	0.7125	0.3834			7.837
1400.1	1384.6	2.572	34.0470	34.571	180.5	34.36	2.323	67.0	0.3201	0.1717			7.834
1600.2	1581.7	2.607	35.0168	34.657	183.3	32.85	2.221	67.2	0.1781	0.0907			7.847
1798.2	1776.6	2.545	35.9578	34.706	187.0	31.64	2.145	68.9	0.1201	0.0751			7.865
2001.5	1976.5	2.695	36.9145	34.788	203.3	28.61	1.929	58.5	0.0658	0.0478			7.907
2200.5	2172.0	2.545	37.8430	34.812	209.3	27.81	1.877	59.8	0.0470	0.0312			7.915
2400.0	2367.8	2.392	38.7606	34.822	213.6	27.66	1.848	61.6	0.0356	0.0263			7.922
2599.0	2563.0	2.251	39.6711	34.829	218.0	27.20	1.818	62.7	0.0330	0.0312			7.929
2801.4	2761.3	1.934	40.5962	34.803	212.7	28.77	1.922	74.9	0.0327	0.0195			7.914
2997.8	2953.5	1.626	41.4863	34.774	207.0	30.14	2.029	88.1	0.0490	0.0371			7.896
2998.7	2954.4	1.623	41.4910	34.775	207.0	30.19	2.029	87.9	0.0600	0.0400			7.897
3298.2	3247.3	1.191	42.8505	34.740	204.4	31.73	2.146	103.6	0.0655	0.0488			7.880
3598.2	3540.2	0.826	44.2064	34.722	207.3	32.74	2.208	112.6	0.1033	0.0683			7.873
3797.6	3734.7	0.618	45.1011	34.708	211.1	32.92	2.236	117.3	0.1141	0.0683			7.870
3996.9	3928.9	0.385	45.9965	34.696	213.3	33.33	2.265	120.7	0.1344	0.0829			7.865
4198.5	4125.2	0.204	46.8931	34.690	216.5	33.43	2.285	124.1	0.1419	0.0878			7.864
4400.3	4321.5	0.064	47.7846	34.680	219.1	33.69	2.293	126.0	0.1248	0.0751			7.865
4599.0	4514.6	-0.036	48.6527	34.677	221.2	34.09	2.305	127.2	0.1300	0.0810			7.852
4800.2	4710.0	-0.099	49.5233	34.676	222.4	34.35	2.316	128.4	0.1403	0.0917			7.871
4997.6	4901.6	-0.134	50.3686	34.673	223.4	34.30	2.316	129.6	0.1516	0.0897			7.865
5197.8	5095.6	-0.155	51.2207	34.671	223.7	34.15	2.316	130.8	0.1692	0.1005			7.865
5398.8	5290.3	-0.174	52.0723	34.671	223.2	34.10	2.315	130.9	0.1840	0.1083			7.865
5525.1	5412.6	-0.179	52.6043	34.671	223.7	34.10	2.321	130.8	0.1954	0.1102			7.867

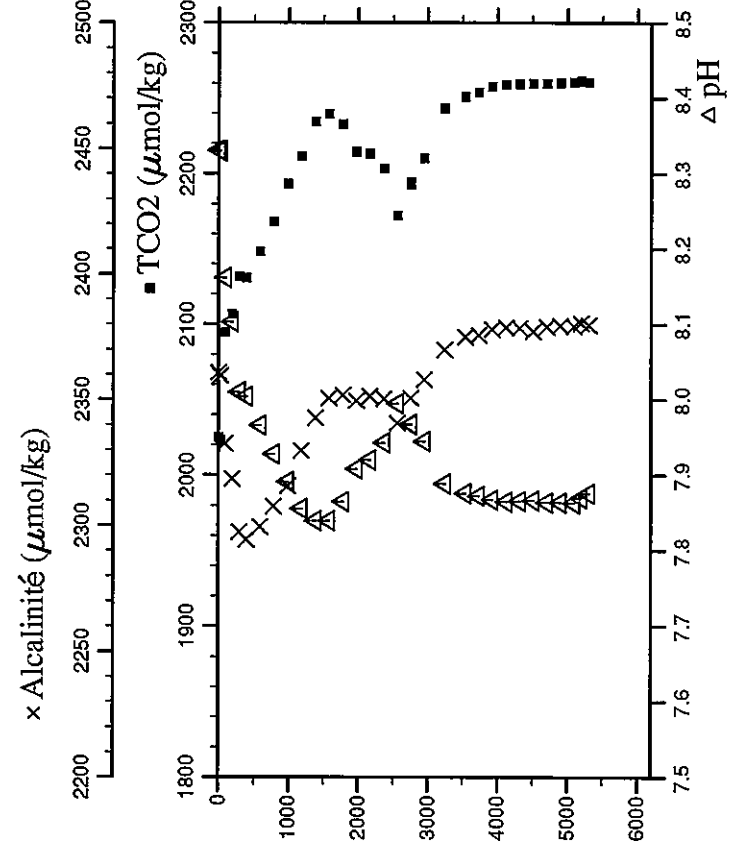
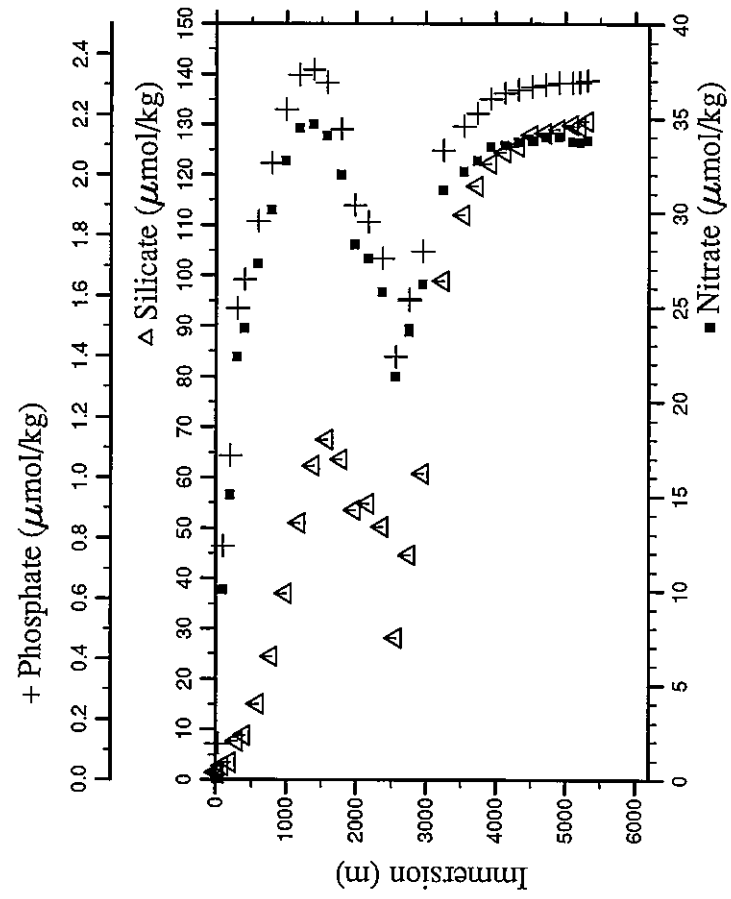
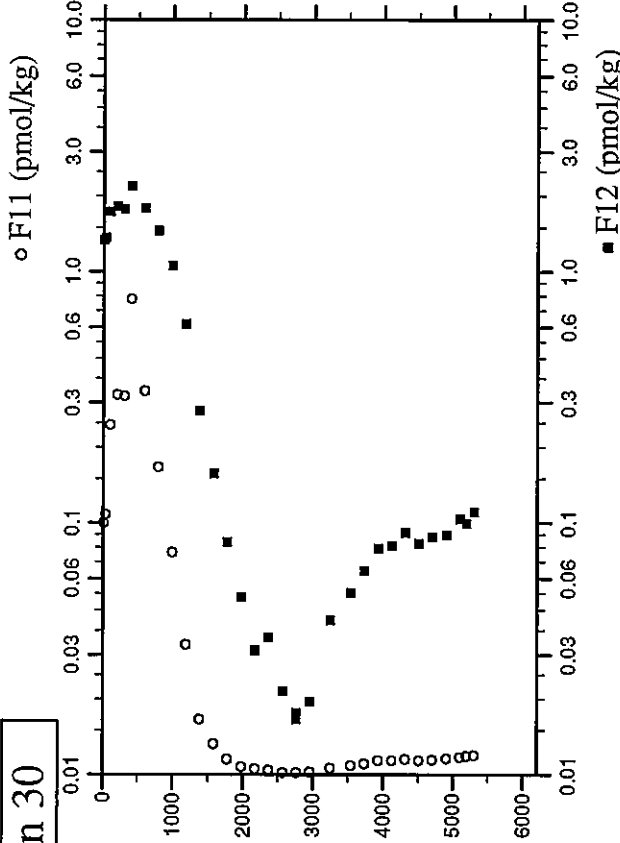
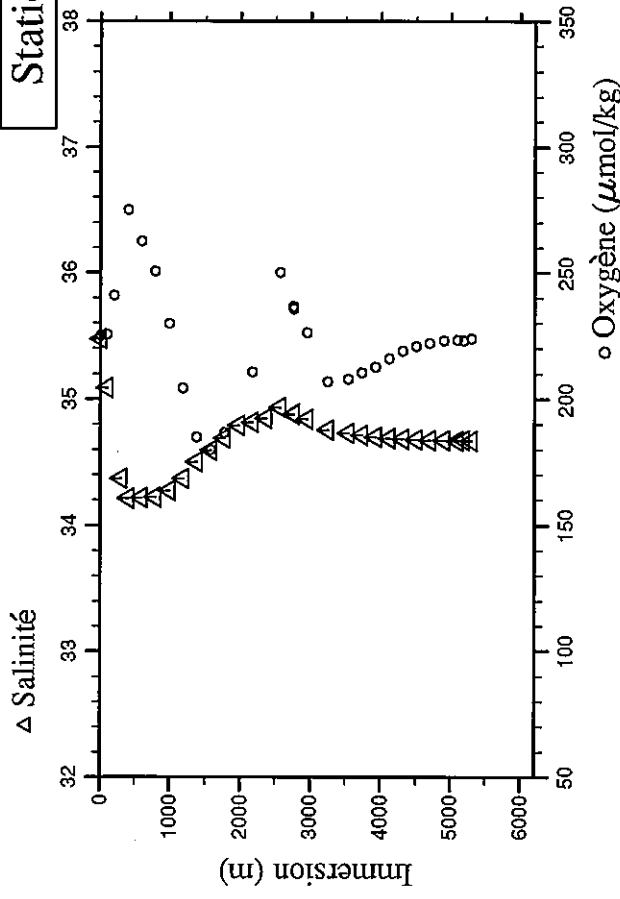
# Station 29



Station : 30 Campagne : CITHER 2  
 Date : 18-01-94 Heure : 1 h 17 mn  
 Position : S 40 35.61 W 48 10.00  
 Dernier niveau à : 5419  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.ceils.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.7	4.7	20.794	24.9303	35.474	224.8	0.04	0.119	1.5	2.3305	1.3309	2024.69	2360.6	8.331
30.7	30.5	20.765	25.0669	35.439	r	0.04	0.119	1.3	2.4091	1.3621	2023.05	2359.3	8.330
100.8	100.0	13.050	26.8941	35.086	r	10.06	0.775	2.7	3.2419	1.7315	2094.54	2332.3	8.162
202.4	200.7	9.929	27.6844	34.770	r	15.07	1.072	3.5	3.5184	1.8188	2106.64	2318.3	8.103
302.8	300.2	6.770	28.3367	34.370	r	22.37	1.559	7.7	3.5085	1.7724	2131.59	2297.4	8.010
402.1	398.6	5.138	28.8839	34.213	r	23.87	1.653	8.8	4.4083	2.1828	2130.66	2294.2	8.004
602.7	597.2	4.475	29.8967	34.220	r	27.29	1.846	15.1	3.5570	1.7843	2148.21	2299.4	7.966
798.8	791.1	3.547	30.9059	34.223	r	30.13	2.038	24.4	2.8515	1.4503	2167.90	2307.6	7.928
1002.0	991.9	2.893	31.9561	34.273	r	32.76	2.217	37.0	2.0578	1.0547	2193.49	2315.7	7.891
1194.9	1182.3	2.631	32.9476	34.372	r	34.48	2.331	51.0	1.2049	0.6182	2211.75	2329.6	7.856
1397.4	1382.0	2.575	33.9812	34.504	r	34.69	2.349	62.3	0.5129	0.2793	2234.48	2342.6	7.840
1599.4	1581.0	2.551	34.9683	34.594	r	34.08	2.306	67.5	0.2874	0.1572	2239.74	2350.5	7.840
1800.2	1778.6	2.666	35.9372	34.690	r	32.00	2.152	63.6	0.1439	0.0840	2232.97	2351.6	7.865
2000.1	1975.2	2.856	36.8898	34.796	r	28.32	1.899	53.6	0.0705	0.0508	2214.67	2349.5	7.908
2201.2	2172.8	2.693	37.8288	34.817	r	27.56	1.844	54.9	0.0536	0.0312	2213.36	2351.2	7.920
2399.9	2367.8	2.668	38.7425	34.852	r	25.79	1.723	50.3	0.0434	0.0351	2203.61	2350.2	7.943
2599.7	2563.8	2.914	39.6547	34.938	r	21.32	1.399	28.1	0.0198	0.0215	2172.30	2340.6	7.995
2798.4	2758.5	2.507	40.5567	34.882	r	23.84	1.584	44.7	0.0224	0.0176	2194.56	2350.4	7.968
2798.5	2758.6	2.509	40.5560	34.886	r	23.68	1.589	60.8	0.0202	0.0166	2192.63	2350.4	7.967
2997.9	2953.8	2.080	41.4659	34.842	r	26.20	1.746	99.0	0.0282	0.0195	2210.31	2357.9	7.945
3299.0	3248.2	1.352	42.8391	34.757	r	31.17	2.082	112.1	0.0603	0.0410	2243.37	2369.8	7.889
3599.1	3541.2	0.956	44.1974	34.733	r	32.18	2.162	117.8	0.0822	0.0527	2251.09	2374.8	7.876
3799.6	3736.8	0.691	45.1021	34.717	r	32.76	2.205	122.2	0.1030	0.0644	2253.96	2375.6	7.873
3999.1	3931.2	0.429	46.0001	34.701	r	33.50	2.254	124.5	0.1300	0.0790	2257.84	2378.0	7.868
4201.5	4128.3	0.233	46.9023	34.691	r	33.55	2.272	125.7	0.1325	0.0810	2258.89	2378.7	7.865
4400.1	4321.5	0.074	47.7815	34.685	r	33.73	2.283	127.9	0.1427	0.0917	2259.38	2378.3	7.866
4597.1	4513.0	-0.018	48.6415	34.680	r	33.81	2.294	128.3	0.1320	0.0829	2259.87	2377.2	7.867
4796.3	4706.4	-0.085	49.5034	34.676	r	34.02	2.300	129.1	0.1397	0.0878	2259.98	2378.9	7.864
4999.4	4903.5	-0.125	50.3743	34.678	r	34.02	2.306	129.0	0.1489	0.0897	2260.14	2379.5	7.864
5198.0	5096.0	-0.155	51.2215	34.674	r	33.77	2.306	130.1	0.1639	0.1034	2260.68	2379.3	7.863
5299.4	5194.3	-0.166	51.6517	34.675	r	33.72	2.308	129.7	0.1714	0.0995	2261.47	2380.5	7.870
5415.9	5307.1	-0.169	52.1440	34.674	r	33.82	2.314	130.7	0.1828	0.1102	2260.65	2379.6	7.876

Station 30

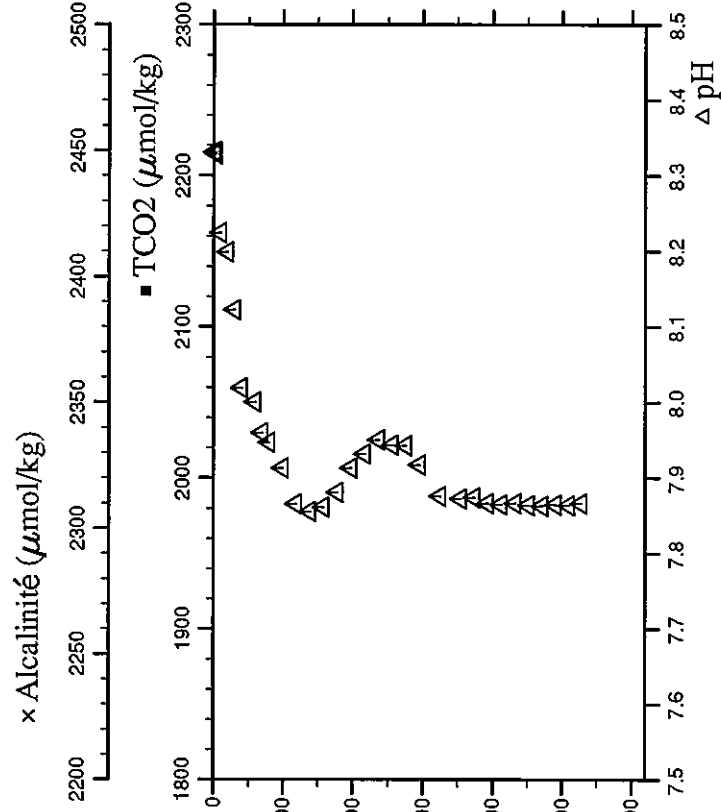
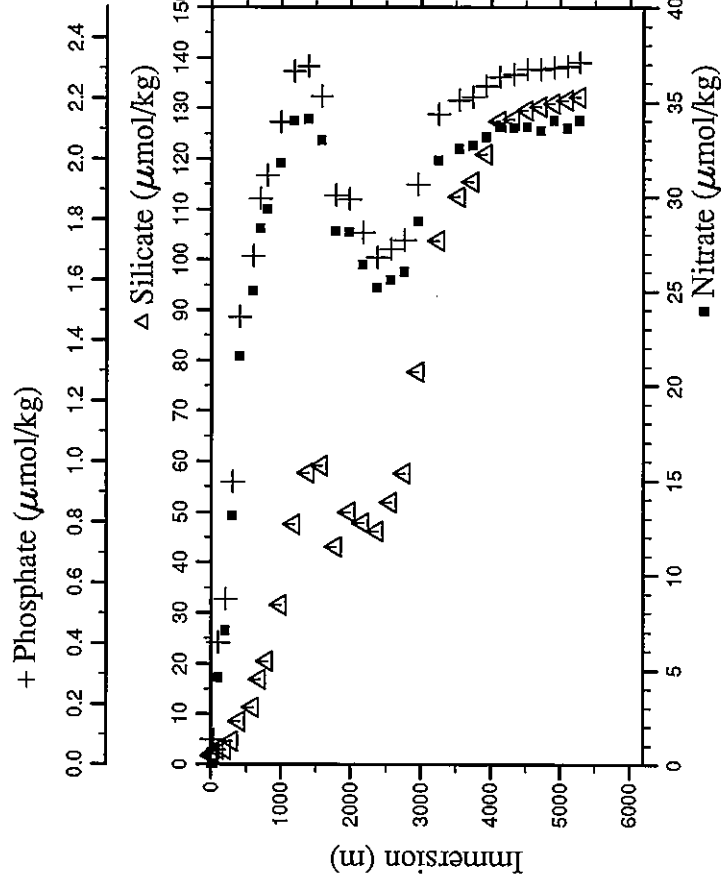
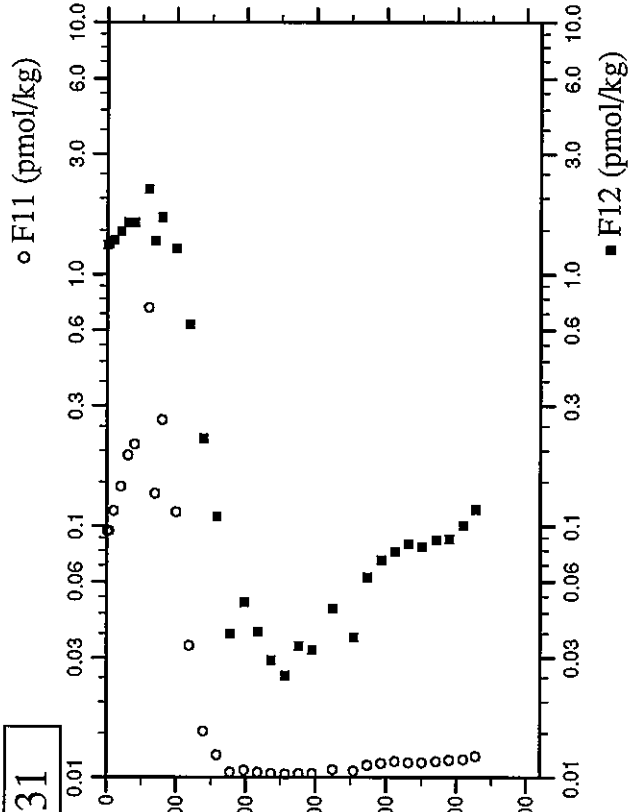
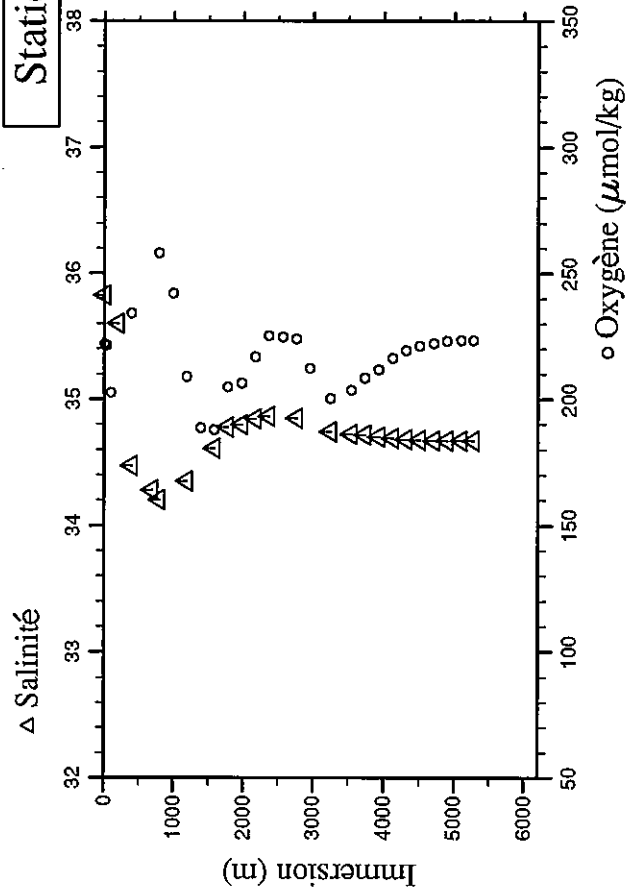


Station : 31 Campagne : CITHER 2  
 Date : 18-01-94 Heure : 7 h 55 mn  
 Position : S 40 10.96 W 47 48.96  
 Dernier niveau à : 5385  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITTE	ALCALI- NITTE	PH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.7	7.6	20.865	25.1911	35.825	221.8	0.04	0.083	1.7	2.2868	1.3091			8.331
30.8	30.6	20.876	25.2898	35.839	r 221.4	0.04	0.082	2.1	2.2932	1.3218			8.329
30.8	30.6	20.875	25.2889	35.840	r 221.4	0.04	0.082	2.1	2.2890	1.3198			8.331
100.2	99.4	16.934	26.6037	35.844	r 202.6	4.62	0.403	3.0	2.4729	1.3696			8.224
200.9	199.3	14.695	27.3877	35.600	r 225.5	7.07	0.546	3.0	2.7002	1.4810			8.199
302.4	299.9	11.512	28.0520	35.019	r 229.4	13.15	0.932	4.6	2.9907	1.6027			8.123
401.4	397.9	7.661	28.7352	34.473	r 234.0	21.56	1.478	8.6	3.0938	1.6043			8.019
599.9	594.4	4.779	29.8157	34.191	r 278.9	25.01	1.678	11.4	4.3550	2.1731			8.001
699.1	692.6	4.895	30.3307	34.280	r 244.4	28.34	1.870	17.0	2.6345	1.3532			7.960
800.6	792.9	3.951	30.8531	34.206	r 257.9	29.35	1.945	20.5	3.3195	1.6802			7.947
1001.4	991.3	3.100	31.8966	34.244	r 241.9	31.78	2.121	31.6	2.4629	1.2616			7.913
1199.2	1186.6	2.814	32.9289	34.353	r 209.0	34.00	2.288	47.6	1.2241	0.6332			7.866
1400.9	1385.5	2.757	33.9663	34.501	r 188.5	34.10	2.307	57.8	0.4281	0.2234			7.856
1599.8	1581.5	2.808	34.9506	34.613	r 187.9	32.98	2.207	59.1	0.2077	0.1092			7.862
1799.6	1778.1	3.263	35.9201	34.780	r 204.9	28.21	1.880	43.2	0.0497	0.0371			7.881
1999.4	1974.6	2.997	36.8709	34.798	r 206.4	28.12	1.868	50.0	0.0667	0.0497			7.913
2200.2	2171.9	2.913	37.8081	34.842	r 216.9	26.40	1.757	47.8	0.0486	0.0380			7.932
2399.5	2367.5	2.800	38.7307	34.865	r 225.1	25.18	1.675	46.2	0.0361	0.0293			7.951
2598.7	2562.9	2.566	39.6424	34.863	r 224.6	25.59	1.703	51.9	0.0299	0.0254			7.944
2798.8	2759.0	2.329	40.5562	34.849	r 224.0	26.04	1.731	57.6	0.0382	0.0332			7.943
2997.3	2953.3	1.874	41.4634	34.805	r 212.3	28.72	1.917	77.7	0.0394	0.0322			7.918
3297.0	3246.3	1.312	42.8247	34.741	r 200.2	31.93	2.148	103.8	0.0750	0.0469			7.876
3597.1	3539.4	0.981	44.1799	34.723	r 203.6	32.55	2.193	112.5	0.0599	0.0361			7.873
3797.6	3735.0	0.765	45.0820	34.719	r 208.3	32.70	2.204	115.5	0.1124	0.0625			7.874
3998.8	3931.1	0.486	45.9913	34.703	r 211.8	33.15	2.241	121.0	0.1313	0.0732			7.867
4198.1	4125.1	0.250	46.8852	34.691	r 216.2	33.70	2.271	127.4	0.1518	0.0791			7.865
4398.5	4320.1	0.060	47.7775	34.683	r 219.2	33.65	2.278	127.8	0.1368	0.0849			7.867
4598.8	4512.8	-0.033	48.6419	34.676	r 221.0	33.69	2.295	129.6	0.1386	0.0830			7.864
4798.5	4708.7	-0.094	49.5145	34.674	r 222.2	33.49	2.295	130.4	0.1486	0.0879			7.863
4997.7	4902.0	-0.136	50.3700	34.674	r 223.1	34.04	2.301	131.0	0.1608	0.0888			7.865
5197.8	5096.0	-0.163	51.2231	34.673	r 223.3	33.63	2.306	131.6	0.1676	0.1006			7.864
5379.4	5271.9	-0.181	51.9916	34.672	r 223.3	34.03	2.318	132.2	0.1990	0.1162			7.867



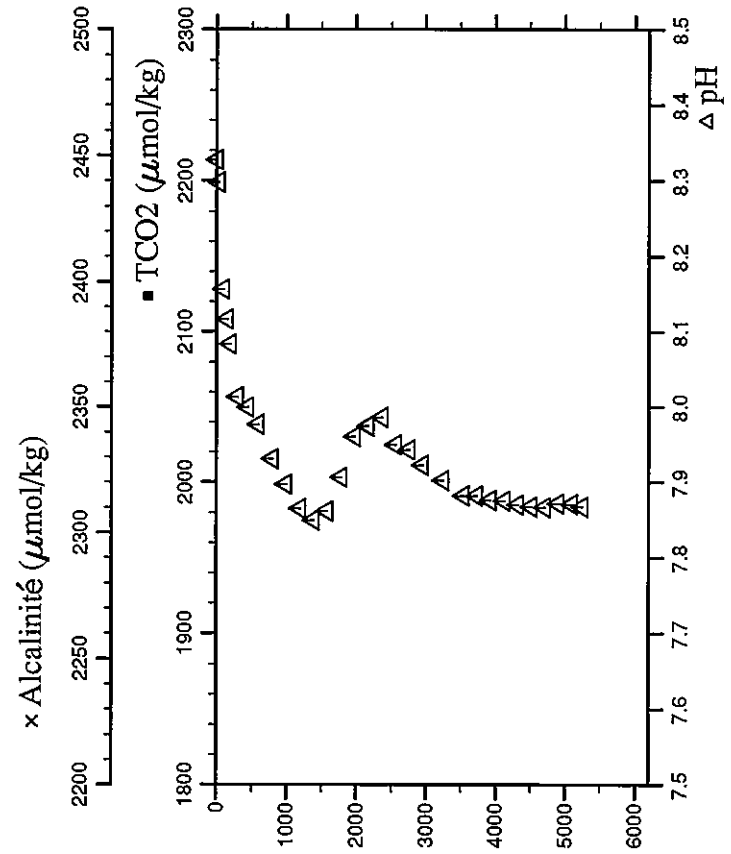
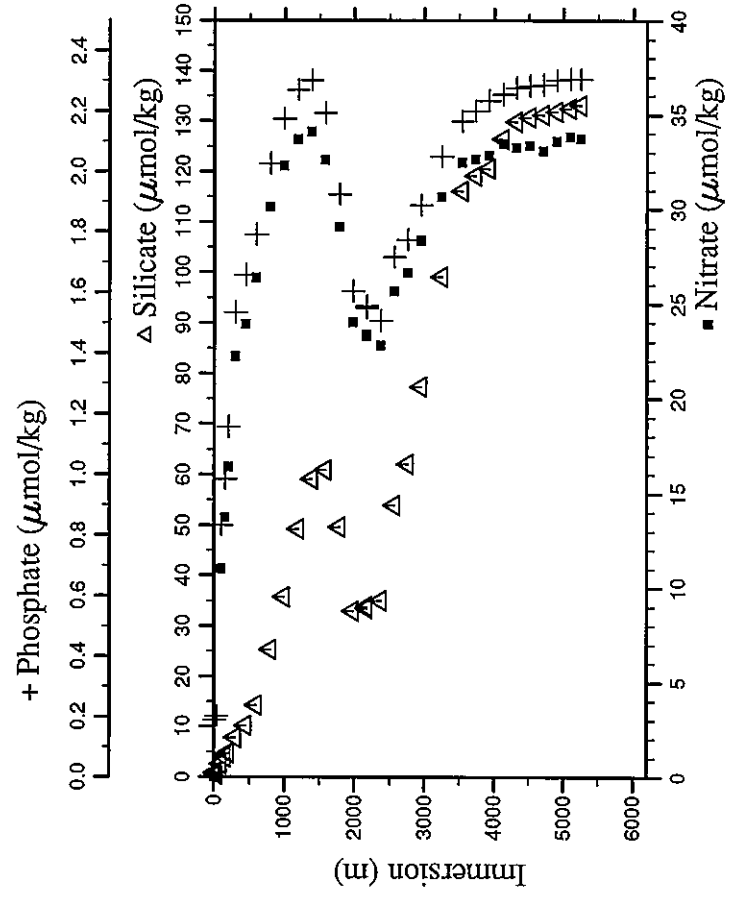
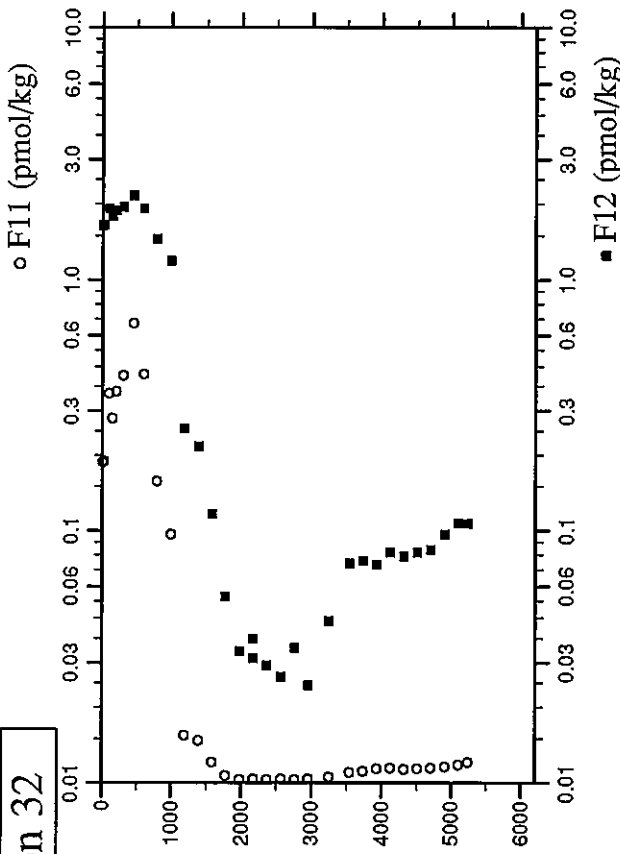
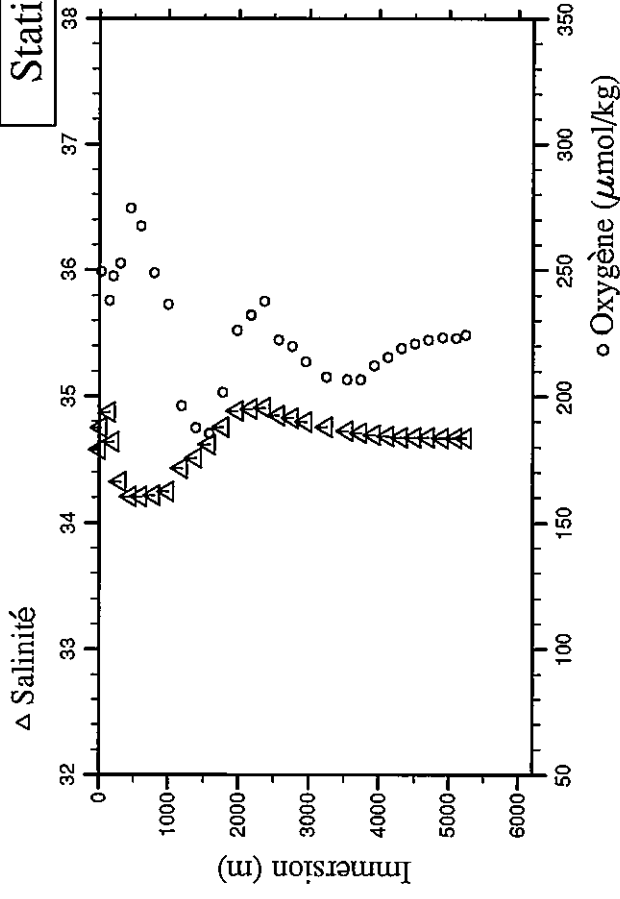
# Station 31



Station : 32 Campagne : CITHER 2  
 Date : 18-01-94 Heure : 14 h 13 mn  
 Position : S 39 45.40 W 47 27.44  
 Dernier niveau à : 5348  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION metres	TEMP.POP. SONDE deg.cels.	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI-NITE	PH
dbar				um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.0	6.9	16.640	25.3076	34.581	253.0	0.04	0.190	0.8	2.9658	1.6426			8.328
29.5	29.3	16.415	25.5911	34.753	249.4	0.04	0.202	0.6	2.9818	1.6483			8.298
100.8	100.0	11.779	26.9411	34.833	r	r	0.834	2.6	3.6099	1.9178			8.157
150.6	149.4	10.785	27.3967	34.877	237.8	13.74	0.985	4.0	3.3747	1.7889			8.117
201.4	199.8	9.144	27.7256	34.641	247.5	16.41	1.157	4.8	3.6257	1.8887			8.084
300.8	298.3	6.534	28.3266	34.327	252.6	22.23	1.535	7.8	3.7726	1.9419			8.013
451.5	447.6	5.045	29.1233	34.207	274.5	23.94	1.658	10.2	4.2636	2.1647			8.000
601.5	596.0	4.484	29.8805	34.208	267.3	26.36	1.792	14.3	3.7864	1.9206			7.977
800.1	792.5	3.597	30.9075	34.221	248.7	30.09	2.027	25.4	2.7904	1.4558			7.931
1000.4	990.4	2.861	31.9377	34.250	236.3	32.30	2.174	35.8	2.2987	1.1892			7.897
1200.6	1188.0	2.998	32.9772	34.430	196.2	33.71	2.270	49.3	0.4399	0.2558			7.865
1400.2	1384.8	2.731	33.9798	34.513	187.5	34.11	2.301	59.1	0.3921	0.2167			7.850
1600.8	1582.5	2.772	34.9705	34.621	185.2	32.60	2.193	60.9	0.1937	0.1162			7.862
1800.4	1779.0	3.073	35.9399	34.760	201.4	29.06	1.925	49.6	0.0657	0.0547			7.907
1999.5	1974.8	3.381	36.8817	34.886	226.3	24.02	1.604	33.0	0.0290	0.0332			7.961
2199.4	2171.2	3.250	37.8038	34.897	232.0	23.38	1.550	33.8	0.0332	0.0371			7.974
2199.8	2171.6	3.231	37.8035	34.901	232.4	23.30	1.556	33.5	0.0352	0.0312			7.975
2398.6	2366.7	3.031	38.7246	34.910	237.6	22.83	1.507	35.0	0.0328	0.0293			7.986
2599.1	2563.4	2.533	39.6464	34.849	222.4	25.67	1.716	53.9	0.0354	0.0264			7.950
2798.5	2758.8	2.241	40.5569	34.830	219.8	26.63	1.775	62.1	0.0318	0.0342			7.943
2999.5	2955.5	1.892	41.4735	34.801	213.8	28.34	1.889	77.3	0.0374	0.0244			7.923
3299.2	3248.6	1.389	42.8367	34.758	207.5	30.65	2.050	99.1	0.0553	0.0439			7.902
3599.1	3541.5	0.956	44.1936	34.726	206.5	32.46	2.167	116.1	0.0962	0.0742			7.882
3798.8	3736.3	0.738	45.0906	34.713	206.7	32.66	2.199	119.1	0.1068	0.0761			7.882
3998.6	3931.0	0.453	45.9944	34.699	212.3	32.86	2.234	120.5	0.1342	0.0732			7.876
4201.3	4128.4	0.254	46.8988	34.689	215.6	33.46	2.256	126.4	0.1363	0.0820			7.875
4397.9	4319.7	0.067	47.7730	34.679	219.1	33.25	2.276	129.8	0.1270	0.0791			7.870
4598.9	4515.1	-0.025	48.6499	34.678	220.9	33.35	2.282	130.7	0.1296	0.0820			7.868
4798.0	4708.4	-0.095	49.5125	34.675	222.4	33.09	2.287	131.3	0.1407	0.0839			7.867
4997.7	4902.2	-0.136	50.3700	34.672	223.3	33.59	2.302	131.9	0.1497	0.0966			7.872
5198.5	5096.9	-0.167	51.2251	34.671	223.1	33.84	2.305	132.5	0.1690	0.1074			7.871
5348.1	5241.8	-0.180	51.8597	34.672	224.5	33.74	2.307	133.1	0.1928	0.1064			7.868

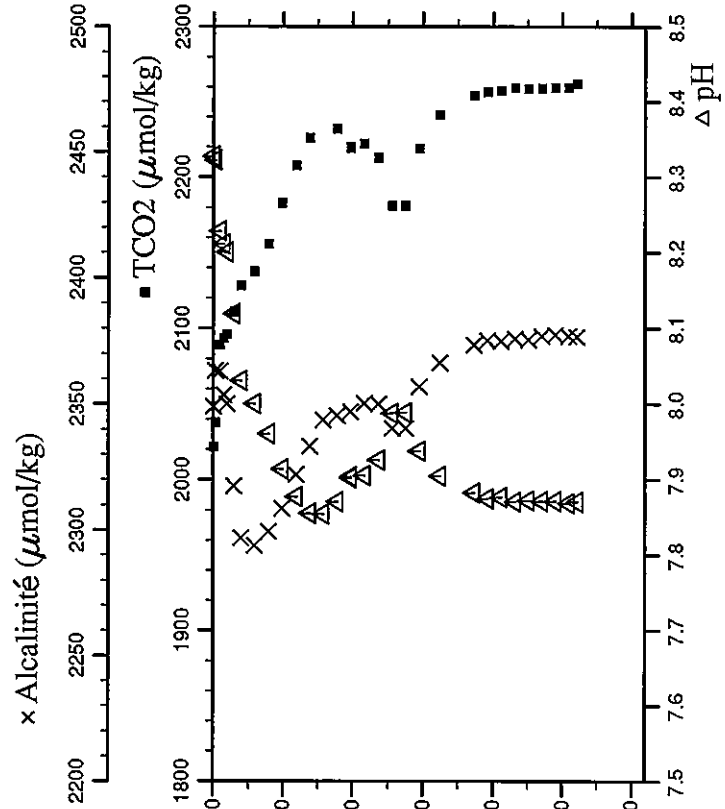
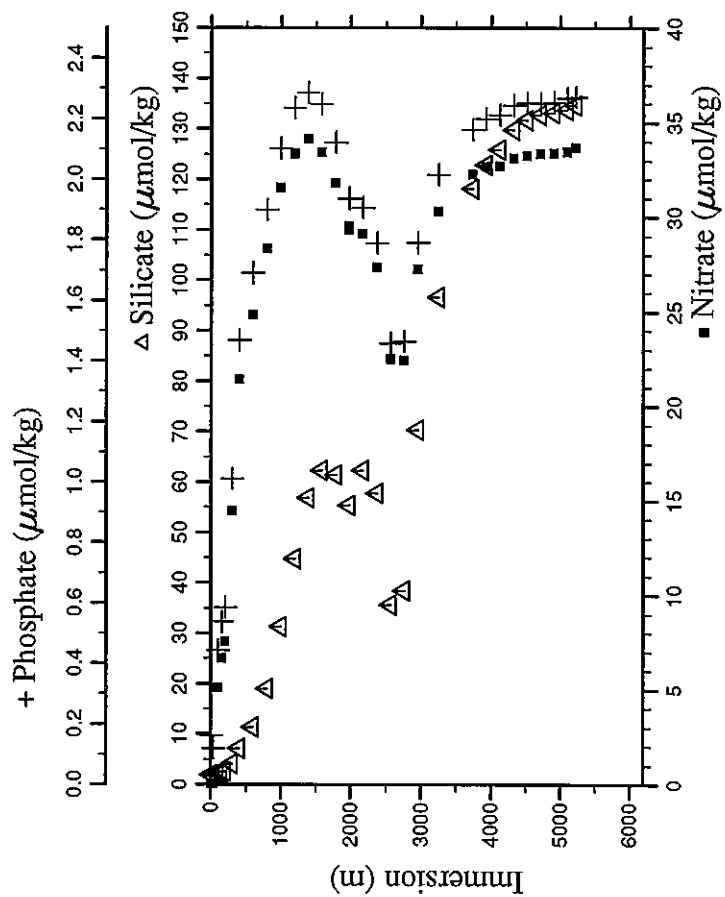
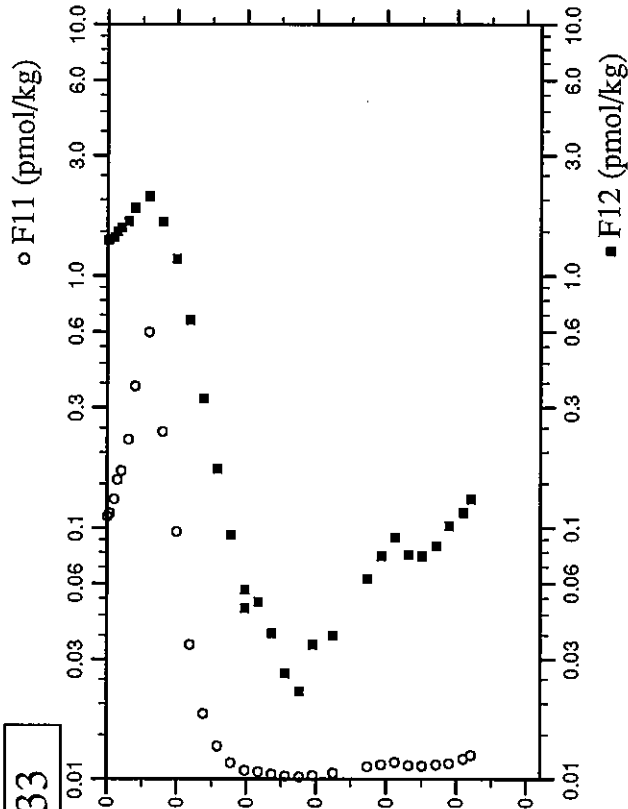
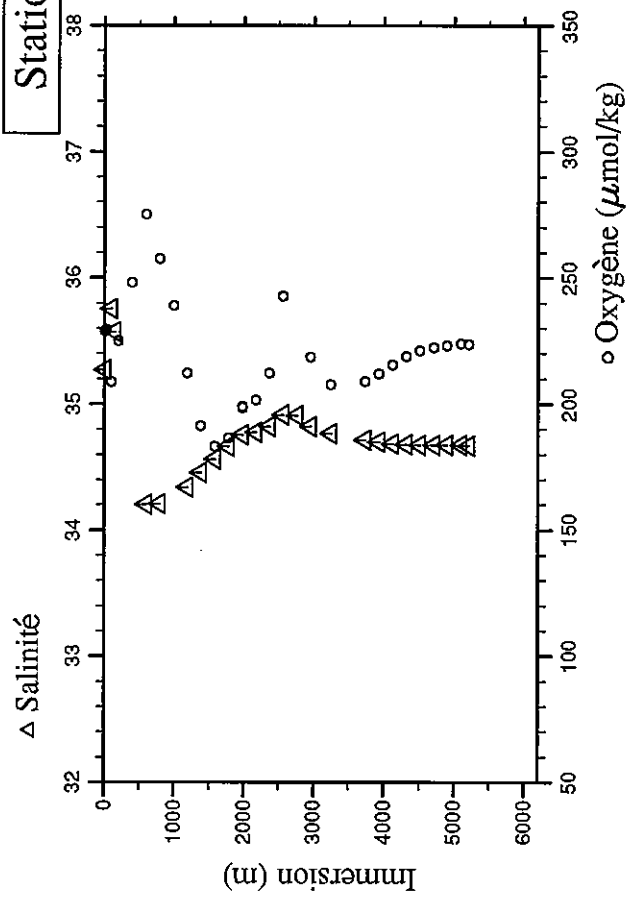
Station 32



Station : 33 Campagne : CITHER 2  
 Date : 18-01-94 Heure : 20 h 50 mn  
 Position : S 39 20.57 W 47 6.88  
 Dernier niveau à : 5320  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- INORG. NITE	pH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.7	7.6	19.854	25.0441	35.274	228.6	0.04	0.161	2.0	2.4424	1.3776	2021.59	2348.9	8.328
30.7	30.5	19.567	25.5004	35.654	229.6	0.04	0.119	1.7	2.4694	1.3958	2037.93	2363.1	8.323
99.0	98.2	16.159	26.7282	35.757	208.7	5.11	0.444	2.3	2.5989	1.4142	2089.29	2362.8	8.229
150.4	149.2	14.841	27.1096	35.574	218.6	r 6.69	0.539	2.5	2.7792	1.4963	2093.42	2353.6	8.212
200.6	199.0	14.154	27.4364	35.506	224.8	r 7.56	0.586	2.6	2.8632	1.5461	2096.07	2350.0	8.201
301.0	298.5	10.758	28.0762	34.877	230.8	r 14.49	1.011	4.1	3.1518	1.6464	2110.81	2317.3	8.119
401.2	397.8	7.078	28.7576	34.380	248.1	r 21.42	1.470	7.2	3.6460	1.8539	2128.30	2296.8	8.031
600.4	594.6	4.712	29.8359	34.202	275.0	24.86	1.692	11.3	4.1408	2.0622	2137.31	2293.7	8.001
800.4	792.8	4.046	30.8474	34.211	257.4	28.35	1.900	19.0	3.2249	1.6296	2155.47	2299.4	7.961
1000.4	990.4	3.160	31.8944	34.255	239.0	31.55	2.103	31.3	2.2988	1.1619	2182.64	2308.5	7.914
1200.8	1188.2	2.853	32.9251	34.342	212.3	33.34	2.235	44.8	1.2487	0.6658	2207.85	2322.0	7.878
1398.9	1383.6	2.707	33.9316	34.456	191.4	34.14	2.286	56.9	0.6069	0.3270	2226.08	2333.2	7.856
1599.2	1581.0	2.679	34.9328	34.565	183.2	33.43	2.249	62.3	0.3036	0.1718	2333.5	2343.5	7.855
1800.3	1778.9	2.743	35.9096	34.667	186.5	31.78	2.122	61.4	0.1521	0.0937	2231.91	2345.4	7.871
2000.4	1975.7	2.852	36.8630	34.758	198.4	29.33	1.938	55.4	0.0776	0.0478	2219.05	2346.9	7.902
2000.5	1975.8	2.853	36.8624	34.760	198.9	29.52	1.936		0.0779	0.0566	2219.95		7.904
2198.7	2170.6	2.648	37.7948	34.779	201.5	29.12	1.906	62.3	0.0664	0.0508	2222.07	2350.3	7.906
2399.1	2367.3	2.618	38.7244	34.822	212.3	27.37	1.788	57.8	0.0443	0.0381	2212.94	2349.9	7.926
2598.1	2562.5	2.852	39.6394	34.916	242.6	22.50	1.459	35.6	0.0238	0.0263	2180.93	2340.2	7.988
2799.0	2759.4	2.692	40.5515	34.911	243.4	22.45	1.465	38.4	0.0176	0.0224	2181.09	2340.2	7.989
2999.6	2955.8	2.017	41.4660	34.822	218.5	27.26	1.791	70.3	0.0303	0.0342	2218.64	2356.7	7.938
3299.7	3249.2	1.443	42.8340	34.766	207.5	30.30	2.016	96.6	0.0538	0.0371	2241.32	2366.1	7.905
3799.1	3736.7	0.733	45.0939	34.716	208.8	32.28	2.164	118.1	0.1118	0.0625	2253.88	2373.3	7.883
3999.3	3931.8	0.475	45.9946	34.700	211.9	32.68	2.199	122.9	0.1349	0.0771	2256.45	2375.2	7.875
4197.5	4124.9	0.244	46.8839	34.689	215.6	32.72	2.213	125.9	0.1535	0.0917	2257.56	2374.8	7.877
4398.2	4320.1	0.072	47.7730	34.683	218.9	33.12	2.249	129.9	0.1293	0.0781	2259.52	2375.9	7.871
4598.5	4514.8	-0.043	48.6510	34.678	221.1	33.26	2.253	131.7	0.1217	0.0771	2258.80	2375.3	7.873
4798.7	4709.3	-0.110	49.5178	34.675	222.3	33.36	2.250	132.8	0.1346	0.0849	2258.98	2377.0	7.872
4997.0	4901.7	-0.150	50.3688	34.677	223.1	33.40	2.256	133.2	0.1464	0.1015	2259.42	2377.5	7.872
5197.2	5095.8	-0.183	51.2236	34.676	223.8	33.45	2.267	133.8	0.1856	0.1152	2259.49	2377.0	7.869
5317.7	5212.6	-0.208	51.7367	34.673	223.7	33.69	2.273	134.7	0.2241	0.1298	2261.94	2376.6	7.871

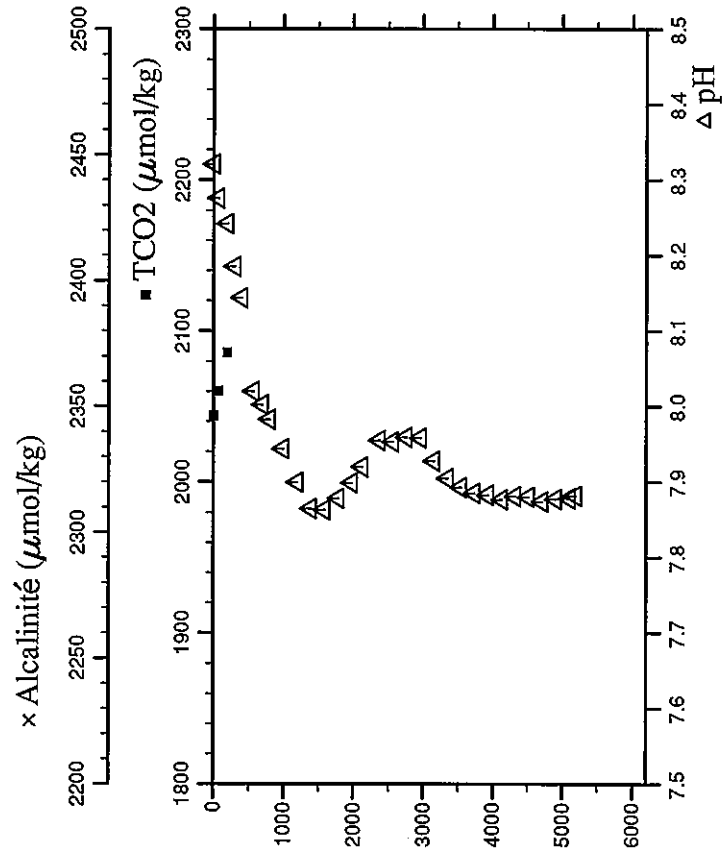
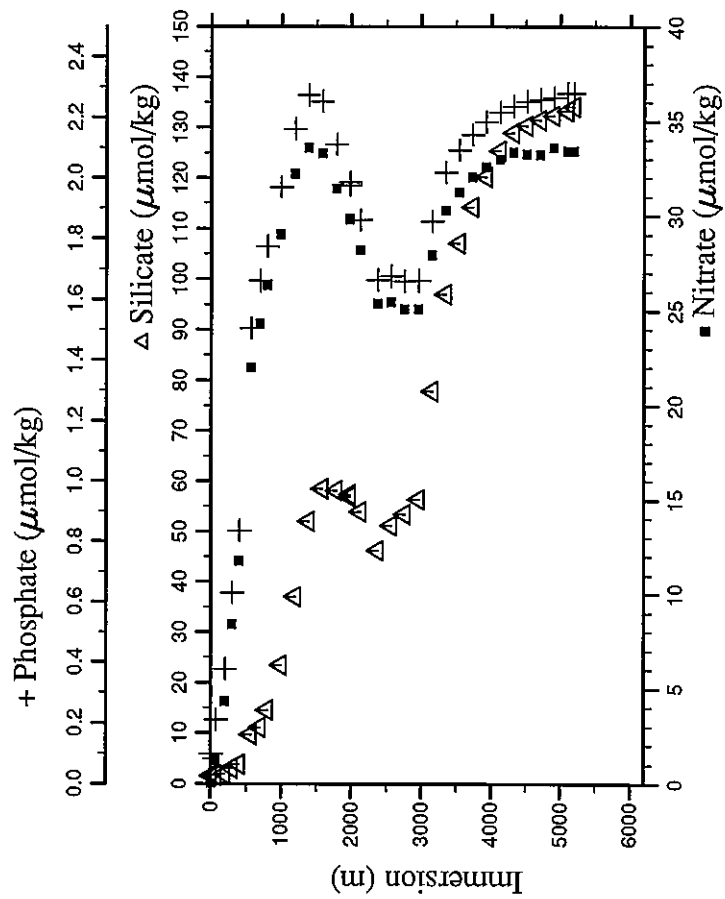
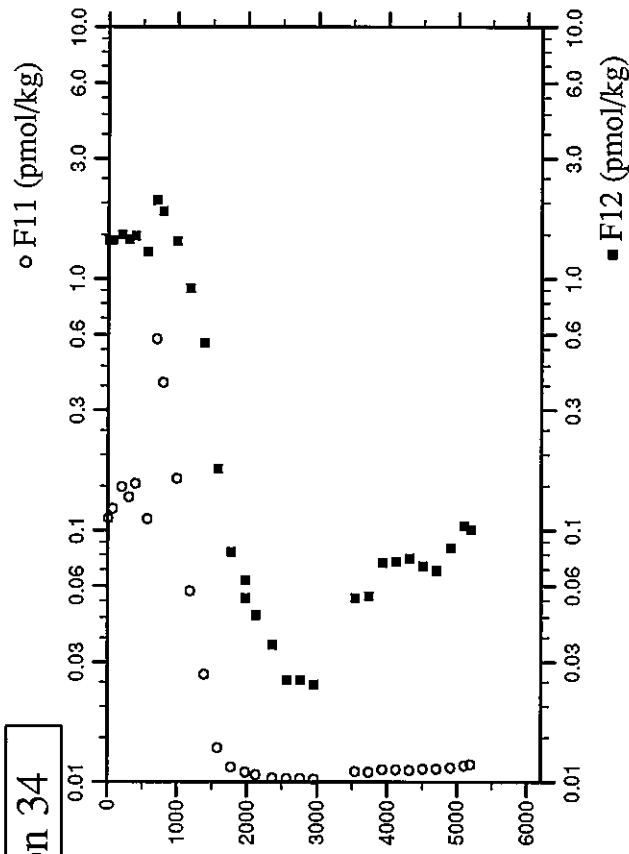
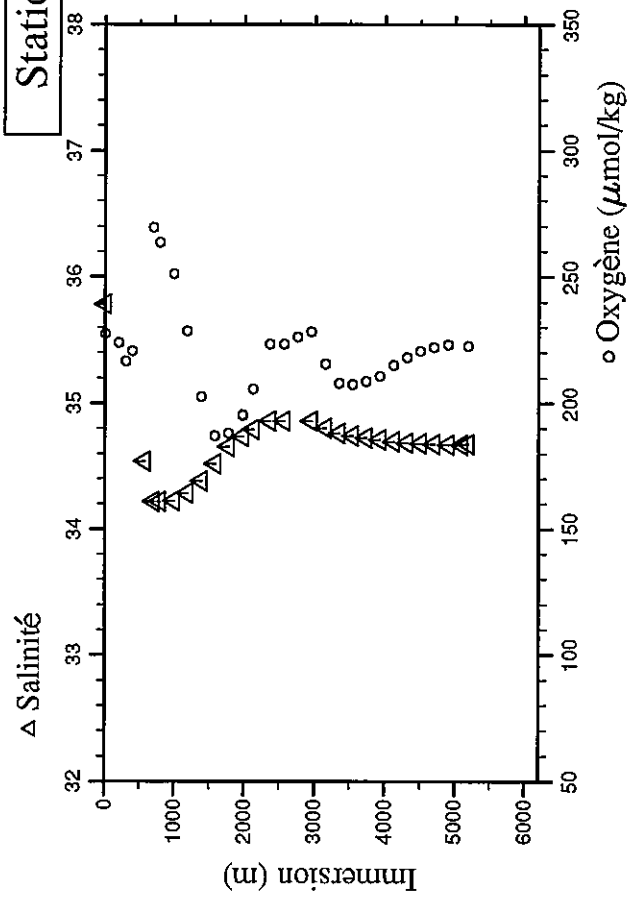
# Station 33



Station : 34 Campagne : CITHRER 2  
 Date : 19-01-94 Heure : 3 h 31 mn  
 Position : S 38 55.34 W 46 44.81  
 Dernier niveau à : 5299  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.5	4.5	19.568	25.4939	35.785	227.4	0.04	0.099	1.6	2.4483	1.4210	2043.63		8.321
69.5	69.0	17.637	26.3752	35.978	216.8	r	0.211	1.7	2.5374	1.4306	2060.25		8.276
200.2	198.6	15.833	27.3319	35.853	223.9	r	0.377	2.0	2.7361	1.4960	2085.62		8.242
301.9	299.4	14.015	27.8619	35.458	216.6	r	0.631	3.1	2.6439	1.4379			8.185
399.4	396.0	12.345	28.4279	35.157	220.5	r	0.835	3.9	2.7667	1.4792			8.144
570.8	565.7	7.794	29.5238	34.539	219.4	r	1.506	9.7	2.4428	1.2759			8.020
700.1	693.6	5.057	30.2656	34.221	269.5		1.662	11.1	4.1097	2.0485			8.002
801.4	793.8	4.619	30.7809	34.217	263.6		1.775	14.5	3.7054	1.8532			7.983
1000.6	990.6	3.786	31.8036	34.224	251.0		1.969	23.5	2.8148	1.4138			7.944
1200.7	1188.2	3.019	32.8562	34.283	228.5		2.161	37.1	1.7689	0.9168			7.900
1400.9	1385.6	2.690	33.8914	34.384	202.6		2.274	52.1	0.9964	0.5545			7.865
1599.0	1580.8	2.778	34.8815	34.521	187.0		2.252	58.5	0.3151	0.1757			7.863
1800.6	1779.3	2.884	35.8840	34.656	188.0		2.110	58.2	0.1386	0.0820			7.879
1999.3	1974.7	2.860	36.8376	34.738	195.4		1.975	56.9	0.0904	0.0537			7.899
1999.6	1975.0	2.839	36.8423	34.736	195.2		1.986	57.4	0.0913	0.0634			7.899
2151.5	2124.3	2.886	37.5575	34.792	205.5		1.861	54.0	0.0653	0.0459			7.920
2399.7	2368.0	2.884	38.7166	34.861	223.3		1.663	46.2	0.0401	0.0351			7.955
2600.6	2565.0	2.659	39.6366	34.859	223.5		1.677	51.2	0.0306	0.0254			7.953
2799.7	2760.2	2.470	40.5479	34.850	226.3	r	1.660	53.5	0.0301	0.0254			7.959
3001.0	2957.2	2.282	41.4589	34.858	228.3		1.661	56.3	0.0301	0.0254			7.958
3201.2	3153.1	1.861	42.3652	34.805	215.4		1.857	77.8	0.0278	0.0244			7.928
3399.1	3346.5	1.425	43.2715	34.763	207.8		2.018	97.0					7.905
3600.0	3542.6	1.129	44.1816	34.744	207.4		2.091	107.1	0.0976	0.0537			7.893
3800.6	3738.3	0.871	45.0846	34.727	208.6		2.142	114.2	0.0900	0.0547			7.885
3999.0	3931.7	0.598	45.9787	34.710	210.7		2.185	120.2	0.1150	0.0742			7.883
4199.8	4127.2	0.317	46.8840	34.696	215.1		2.216	125.4	0.1172	0.0752			7.877
4397.1	4319.2	0.113	47.7643	34.686	218.0		2.236	128.9	0.1109	0.0771			7.881
4596.6	4513.2	-0.018	48.6395	34.680	220.5		2.253	130.4	0.1179	0.0722			7.880
4797.8	4708.6	-0.094	49.5117	34.675	222.0		2.259	131.5	0.1209	0.0693			7.874
4999.6	4904.4	-0.144	50.3789	34.674	223.1		2.265	132.4	0.1340	0.0849			7.878
5200.6	5099.3	-0.172	51.2365	34.672	223.1		2.280	133.3	0.1528	0.1044			7.879
5297.9	5193.6	-0.175	51.6482	34.677	222.5		2.280	134.1	0.1606	0.1005			7.882

# Station 34

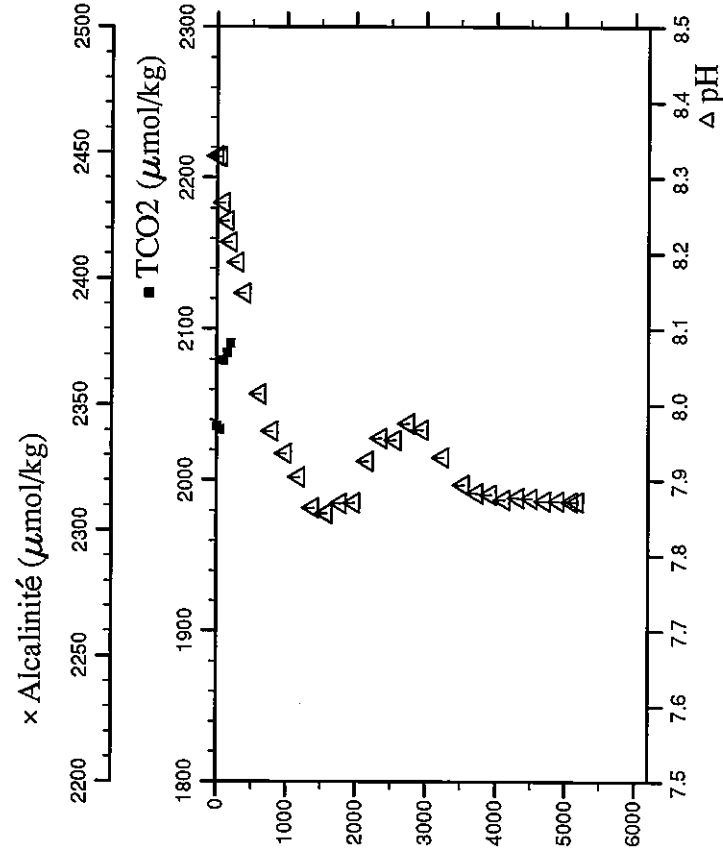
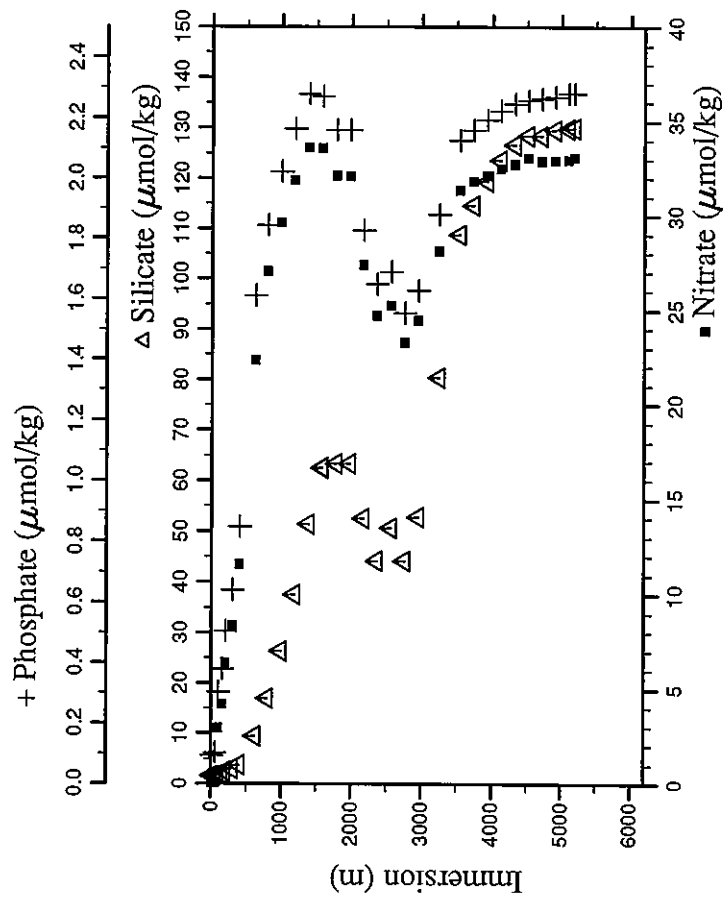
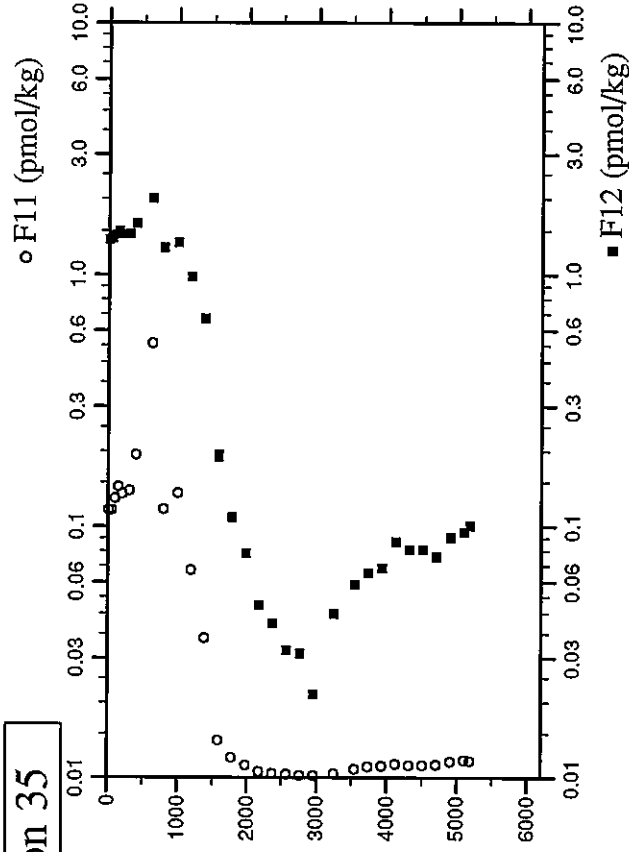
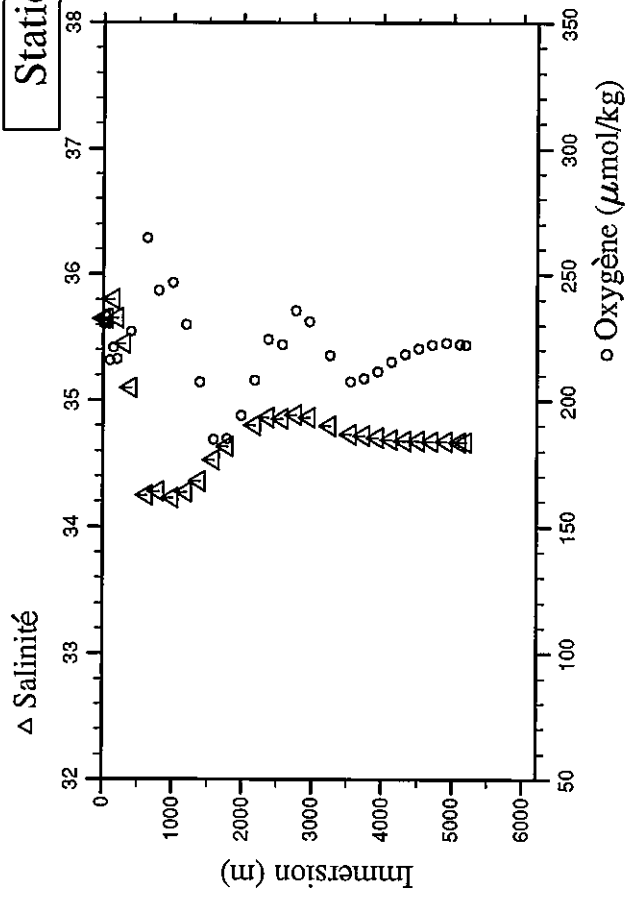


Station : 35 Campagne : CITHER 2  
 Date : 19-01-94 Heure : 10 h 36 mn  
 Position : S 38 30.22 W 46 22.28  
 Dernier niveau à : 5283  
 Nb prélèvements : 32

PRESSON CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.0	6.9	19.332	25.4585	35.646	230.3	0.04	0.093	1.6	2.4859	1.3792	2035.86		8.329
50.1	49.7	19.223	25.6748	35.649	230.7	0.04	0.102	1.6	2.4891	1.3909	2033.53		8.328
99.5	98.7	17.039	26.6743	35.948	215.8	2.95	0.303	1.8	2.5953	1.4413	2079.31		8.267
150.9	149.7	15.901	27.0482	35.800	220.9	4.20	0.380	2.0	2.6995	1.4882	2084.02		8.243
200.7	199.1	15.103	27.3339	35.653	216.2	6.40	0.505	2.5	2.6372	1.4426	2090.41		8.215
300.1	297.6	13.982	27.8606	35.450	216.4	8.37	0.641	3.0	2.6627	1.4486			8.188
399.9	396.5	12.037	28.4335	35.099	227.1	11.59	0.848	3.7	2.9973	1.5954			8.147
625.4	619.8	5.524	29.8829	34.250	264.4	22.35	1.610	9.5	4.0311	2.0065			8.014
800.8	793.2	4.811	30.8047	34.282	243.4	27.04	1.844	16.9	2.4953	1.2800			7.965
1001.5	991.6	3.498	31.8464	34.228	246.4	29.62	2.023	26.4	2.6419	1.3338			7.935
1198.8	1186.4	2.914	32.8569	34.277	230.0	31.89	2.164	37.5	1.9282	0.9734			7.904
1399.1	1383.9	2.577	33.8753	34.360	207.0	33.62	2.279	51.4	1.2952	0.6668			7.863
1599.3	1581.2	2.675	34.9048	34.530	184.5	33.61	2.270	62.6	0.3453	0.1884			7.856
1599.3	1581.2	2.675	34.9039	34.529	184.5	33.61	2.270	62.5	0.3486	0.1923			7.857
1798.7	1777.5	2.727	35.8816	34.637	184.7	32.12	2.160	63.3	0.1851	0.1083			7.869
1998.3	1973.8	2.769	36.8381	34.638	194.0	32.11	2.160	63.3	0.1136	0.0781			7.870
2198.0	2170.1	2.879	37.7781	34.802	207.8	27.40	1.827	52.5	0.0554	0.0488			7.925
2397.0	2365.4	2.912	38.7034	34.864	224.2	24.72	1.649	44.1	0.0358	0.0410			7.956
2601.2	2565.7	2.651	39.6376	34.854	222.1	25.27	1.689	50.7	0.0345	0.0322			7.953
2799.3	2759.9	2.593	40.5467	34.886	235.6	23.30	1.554	44.1	0.0219	0.0312			7.975
2999.1	2955.5	2.306	41.4537	34.865	231.2	24.47	1.628	52.8	0.0214	0.0215			7.967
3297.2	3247.0	1.672	42.8122	34.798	217.8	28.13	1.880	80.4	0.0361	0.0449			7.930
3598.2	3541.0	1.027	44.1828	34.731	207.4	31.34	2.125	108.8	0.0785	0.0586			7.894
3799.2	3737.1	0.770	45.0902	34.722	208.7	31.83	2.160	114.6	0.1004	0.0654			7.883
3997.4	3930.3	0.551	45.9777	34.707	211.4	32.12	2.194	119.4	0.1094	0.0683			7.881
4197.2	4124.9	0.291	46.8783	34.693	215.3	32.51	2.223	123.6	0.1290	0.0869			7.874
4397.0	4319.3	0.090	47.7657	34.684	218.4	32.76	2.246	126.6	0.1131	0.0810			7.877
4598.1	4514.8	-0.016	48.6454	34.680	220.7	33.10	2.258	128.4	0.1153	0.0810			7.876
4796.7	4707.7	-0.090	49.5071	34.677	222.0	32.90	2.264	129.5	0.1223	0.0761			7.873
4997.8	4902.9	-0.140	50.3706	34.675	222.9	32.94	2.269	128.6	0.1251	0.0908			7.873
5199.0	5098.0	-0.171	51.2292	34.673	222.4	32.99	2.281	129.8	0.1645	0.0947			7.872
5282.1	5178.5	-0.171	51.5800	34.674	222.0	33.13	2.281	130.0	0.1579	0.1005			7.872



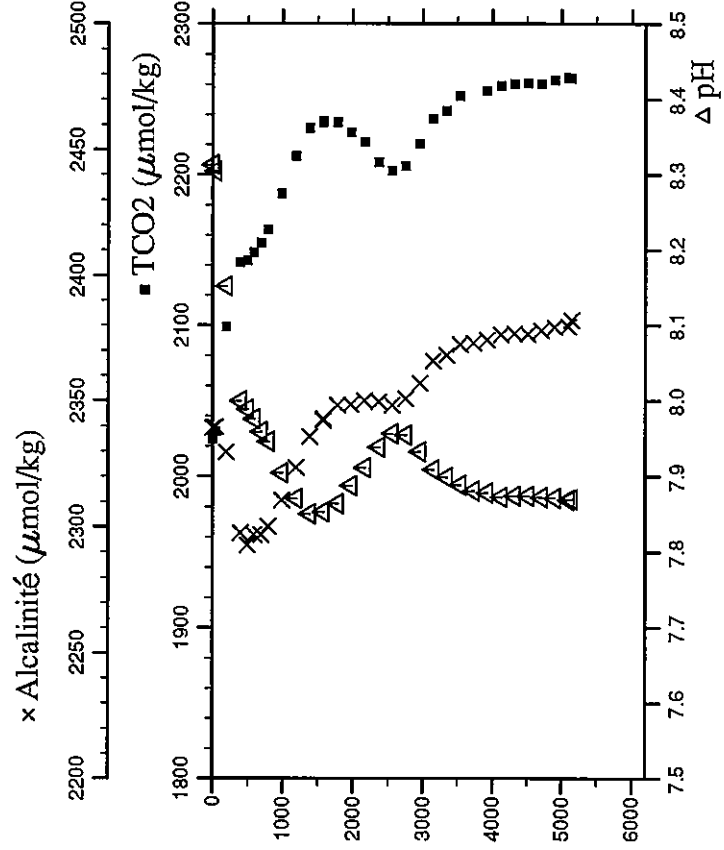
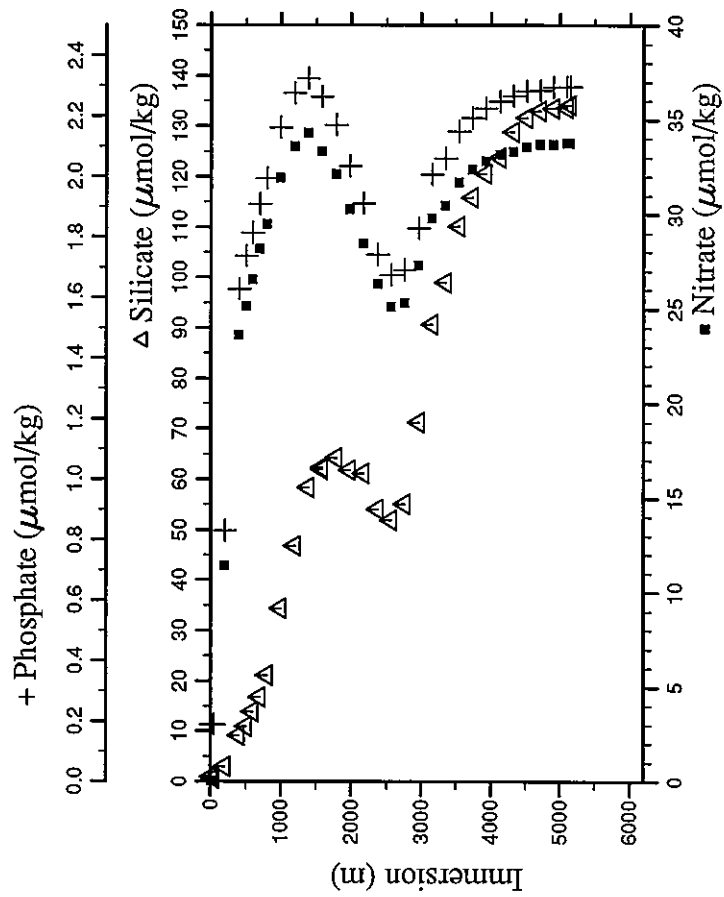
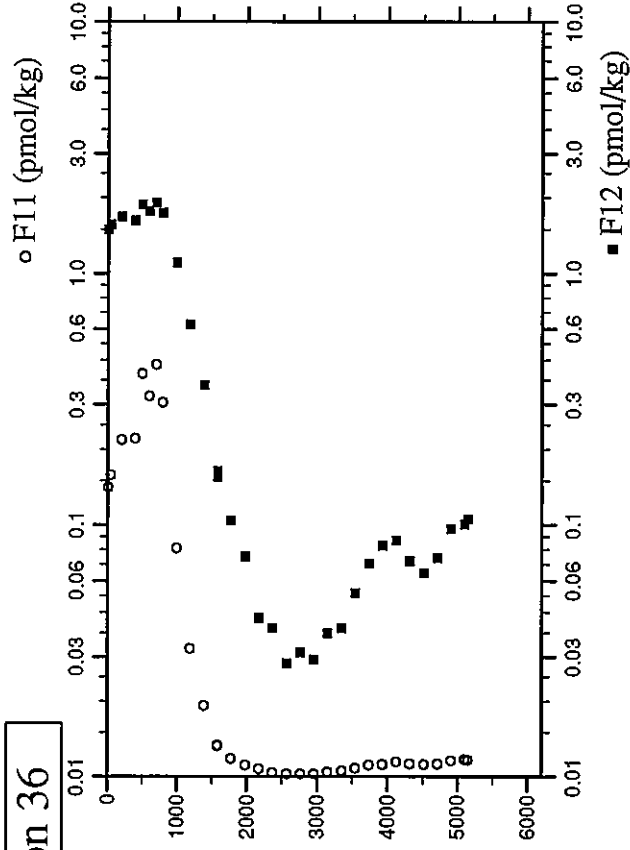
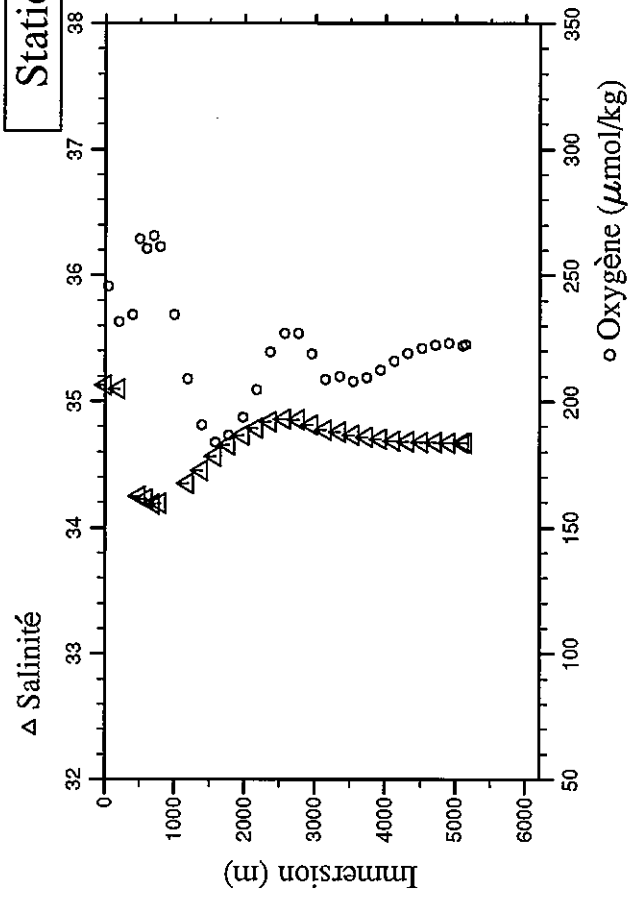
# Station 35



Station : 36 Campagne : CITHER 2  
 Date : 19-01-94 Heure : 17 h 34 mn  
 Position : S 38 5.33 W 46 1.58  
 Dernier niveau à : 5253  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.9	5.9	18.871	25.1772	35.130	238.5	0.04	0.190	1.0	2.6807	1.4958	2024.75	2339.2	8.313
41.3	41.0	17.744	25.6275	35.163	245.6	0.04	0.190	0.5	2.7964	1.5660	2029.88	2339.5	8.305
200.4	198.8	12.027	27.5553	35.100	231.6	11.43	0.831	3.0	3.1226	1.6773	2098.94	2329.5	8.152
400.2	396.8	6.763	28.8075	34.396	234.4	23.64	1.628	9.2	3.1342	1.6187	2141.48	2297.5	8.000
501.5	497.1	5.217	29.3612	34.250	264.3	25.15	1.738	11.0	3.7336	1.8786	2142.95	2292.7	7.989
600.0	594.6	4.631	29.8696	34.228	260.6	26.53	1.815	13.9	3.5240	1.7751	2148.30	2296.7	7.976
700.4	694.0	3.930	30.3837	34.189	265.7	28.17	1.909	16.8	3.8178	1.9099	2154.70	2296.7	7.959
800.3	792.8	3.521	30.8953	34.191	261.2	29.50	1.994	21.1	3.4651	1.7429	2163.61	2300.1	7.946
1000.1	990.2	3.037	31.9204	34.253	234.3	31.93	2.162	34.4	2.1205	1.1013	2187.53	2310.6	7.905
1201.7	1189.3	2.752	32.9506	34.353	209.0	33.61	2.276	46.8	1.1873	0.6258	2212.33	2323.5	7.871
1401.4	1386.2	2.611	33.9556	34.453	190.5	34.30	2.326	58.4	0.6632	0.3593	2230.88	2335.7	7.851
1598.3	1580.3	2.692	34.9252	34.565	183.8	33.32	2.264	62.4	0.2909	0.1552	2235.58	2342.8	7.853
1599.2	1581.2	2.692	34.9298	34.565	183.6	33.32	2.264	61.9	0.2872	0.1540	2234.95	2342.0	7.853
1800.1	1778.9	2.688	35.9061	34.655	186.4	32.14	2.171	64.3	0.1681	0.1044	2234.86	2348.1	7.864
1999.8	1975.4	2.719	36.8588	34.731	193.7	30.26	2.034	61.8	0.1081	0.0752	2228.16	2348.4	7.888
2199.2	2171.3	2.603	37.8133	34.791	204.5	28.48	1.911	61.2	0.0715	0.0429	2221.68	2349.9	7.912
2399.3	2367.8	2.601	38.7437	34.841	219.5	26.31	1.742	54.1	0.0347	0.0390	2208.35	2349.4	7.939
2598.8	2563.5	2.494	39.6580	34.859	227.0	25.12	1.674	51.9	0.0274	0.0283	2202.60	2348.1	7.957
2799.3	2760.0	2.320	40.5661	34.855	226.9	25.32	1.692	55.1	0.0242	0.0312	2205.62	2350.8	7.955
2999.7	2956.2	1.936	41.4792	34.816	218.9	27.30	1.830	71.2	0.0275	0.0293	2220.30	2356.7	7.933
3198.3	3150.5	1.531	42.3815	34.771	208.7	29.78	2.007	90.7	0.0446	0.0371	2236.98	2365.8	7.909
3400.3	3347.9	1.260	43.2986	34.757	210.0	30.48	2.061	99.0	0.0563	0.0390	2242.47	2367.9	7.899
3597.9	3540.8	0.935	44.1951	34.730	207.9	31.71	2.149	110.2	0.0816	0.0537	2252.09	2372.3	7.889
3796.9	3735.0	0.716	45.0856	34.715	209.3	32.36	2.194	115.8	0.1099	0.0703	2260.99	2372.8	7.881
3998.8	3931.8	0.456	45.9961	34.702	212.5	32.83	2.226	120.5	0.1133	0.0830	2255.53	2374.1	7.879
4198.9	4126.7	0.238	46.8917	34.688	216.0	33.16	2.248	123.7	0.1404	0.0869	2258.95	2376.2	7.873
4396.9	4319.3	0.069	47.7689	34.681	219.1	33.31	2.265	128.8	0.1179	0.0722	2260.47	2376.6	7.874
4599.6	4516.4	-0.032	48.6539	34.678	221.0	33.56	2.282	131.6	0.1127	0.0644	2260.91	2376.5	7.874
4799.6	4710.7	-0.105	49.5212	34.675	222.3	33.71	2.285	133.0	0.1217	0.0742	2260.15	2377.9	7.873
4997.9	4903.1	-0.153	50.3725	34.673	223.1	33.71	2.296	133.5	0.1507	0.0966	2262.71	2379.2	7.872
5197.8	5097.0	-0.172	51.2235	34.671	222.0	33.76	2.297	133.7	0.1635	0.1005	2264.44	2379.5	7.869
5249.9	5147.5	-0.172	51.4445	34.672	222.5	33.77	2.297	134.2	0.1568	0.1054	2264.03	2381.9	7.870

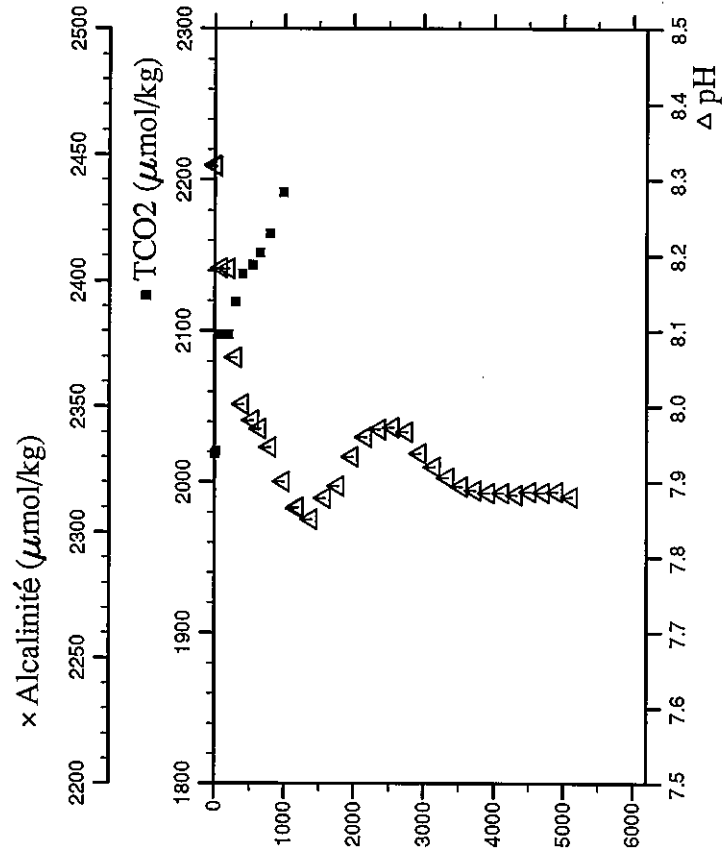
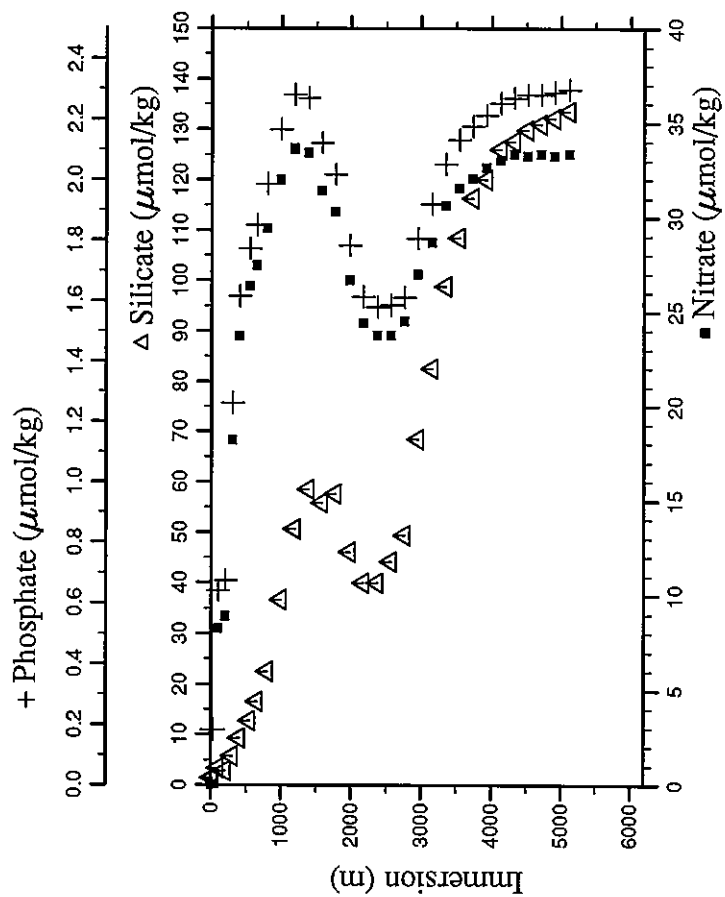
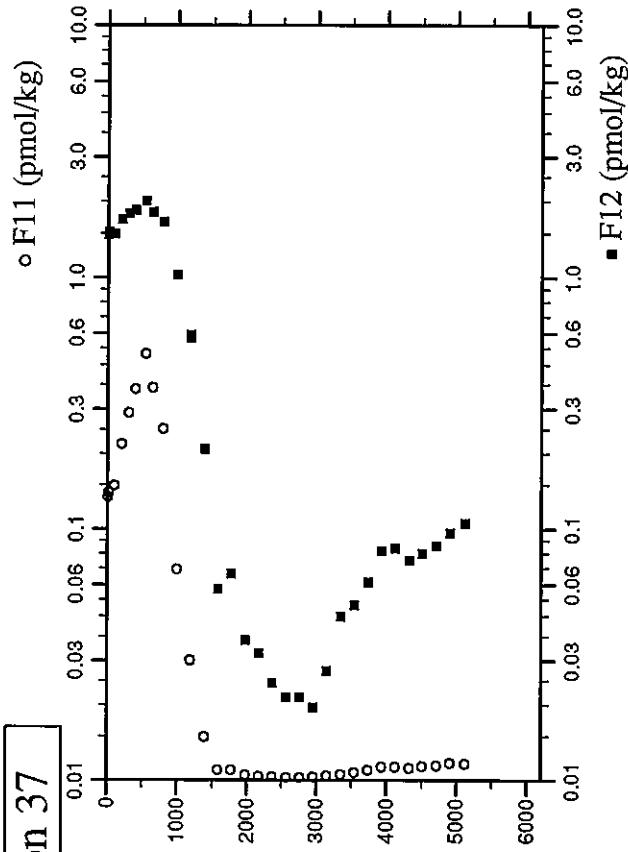
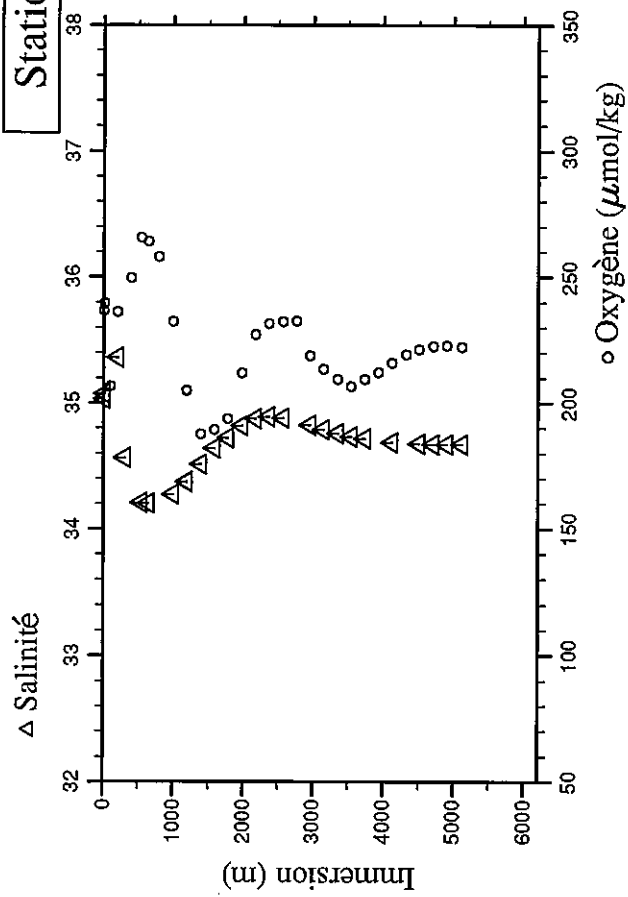
# Station 36



Station : 37 Campagne : CITHER 2  
 Date : 20-01-94 Heure : 0 h 14 mn  
 Position : S 37 40.19 W 45 39.05  
 Dernier niveau à : 5218  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.5	5.5	19.302	24.9951	35.032	236.7	0.04	0.184	1.4	2.6276	1.4784	2018.90		8.319
20.6	20.4	18.865	25.2036	35.075	239.6	0.04	0.184	1.4	2.6715	1.5095	2020.46		8.318
101.4	100.6	14.665	26.8264	35.420	206.6	8.28	0.640	3.3	2.7340	1.4906	2097.63		8.184
200.3	198.7	13.104	27.5421	35.361	236.2	8.90	0.675	2.9	3.1223	1.7043	2097.64		8.183
301.4	298.9	8.666	28.1966	34.566	238.6	r	1.261	5.8	3.4140	1.7883	2119.19		8.065
399.5	396.1	6.129	28.8280	34.313	249.7	23.73	1.615	9.3	3.6350	1.8443	2137.78		8.003
550.4	545.6	4.674	29.6189	34.207	265.5	26.36	1.771	12.7	3.9603	2.0056	2143.93		7.982
650.5	644.6	4.189	30.1333	34.202	264.1	27.45	1.850	16.6	3.6438	1.8132	2151.76		7.982
801.3	793.8	3.524	30.9079	34.196	257.9	29.44	1.987	22.5	3.2667	1.6589	2164.76		7.946
1000.3	990.5	2.967	31.9409	34.274	232.3	32.01	2.167	36.7	1.9608	1.0223	2151.76		7.946
1199.9	1187.5	2.675	32.9677	34.375	205.1	33.65	2.280	50.6	1.1118	0.5750	2191.84		7.901
1200.4	1188.0	2.675	32.9698	34.374	204.8	33.60	2.280	50.7	1.1194	0.5877			7.865
1400.5	1385.4	2.731	33.9810	34.512	187.6	33.41	2.271	58.5	0.4066	0.2079			7.867
1598.9	1580.9	2.889	34.9597	34.639	189.4	31.43	2.121	55.8	0.0976	0.0576			7.851
1797.6	1776.6	2.872	35.9199	34.722	193.7	30.29	2.017	57.6	0.0967	0.0664			7.879
1999.3	1975.0	3.037	36.8774	34.819	212.0	26.68	1.782	46.1	0.0481	0.0361			7.895
2199.8	2172.0	3.051	37.8146	34.874	227.2	24.40	1.614	40.0	0.0395	0.0322			7.934
2397.9	2366.5	2.927	38.7221	34.888	231.5	23.75	1.579	40.0	0.0319	0.0244			7.960
2598.3	2563.1	2.708	39.6389	34.882	232.4	23.75	1.585	44.1	0.0283	0.0215			7.973
2799.1	2759.9	2.488	40.5520	34.866	232.6	24.50	1.610	49.4	0.0261	0.0215			7.967
2998.9	2955.5	2.057	41.4596	34.822	218.9	26.99	1.807	68.4	0.0296	0.0195			7.938
3198.6	3150.9	1.715	42.3683	34.789	213.5	28.67	1.921	82.5	0.0453	0.0273			7.920
3398.1	3345.9	1.336	43.2765	34.757	209.3	30.66	2.052	98.8	0.0583	0.0449			7.906
3597.5	3540.6	1.005	44.1855	34.735	206.6	31.55	2.132	108.5	0.0722	0.0498			7.894
3799.2	3737.4	0.757	45.0916	34.719	209.3	32.08	2.177	116.4	0.0990	0.0615			7.889
3998.9	3932.0	0.503	45.9892	34.696	212.3	32.65	2.212	120.1	0.1240	0.0820			7.885
4198.4	4126.3	0.232	46.8899	34.689	216.0	33.05	2.252	126.0	0.1263	0.0839			7.885
4399.8	4322.3	0.063	47.7817	34.670	219.3	33.35	2.269	127.6	0.1174	0.0752			7.883
4598.1	4515.1	-0.046	48.6495	34.677	221.3	33.25	2.281	129.9	0.1296	0.0800			7.887
4798.0	4709.3	-0.111	49.5141	34.674	222.7	33.35	2.280	131.0	0.1366	0.0859			7.886
4998.0	4903.4	-0.153	50.3729	34.674	223.0	33.26	2.289	132.1	0.1601	0.0966			7.887
5218.8	5117.5	-0.172	51.3121	34.670	222.3	33.36	2.298	133.5	0.1586	0.1054			7.880

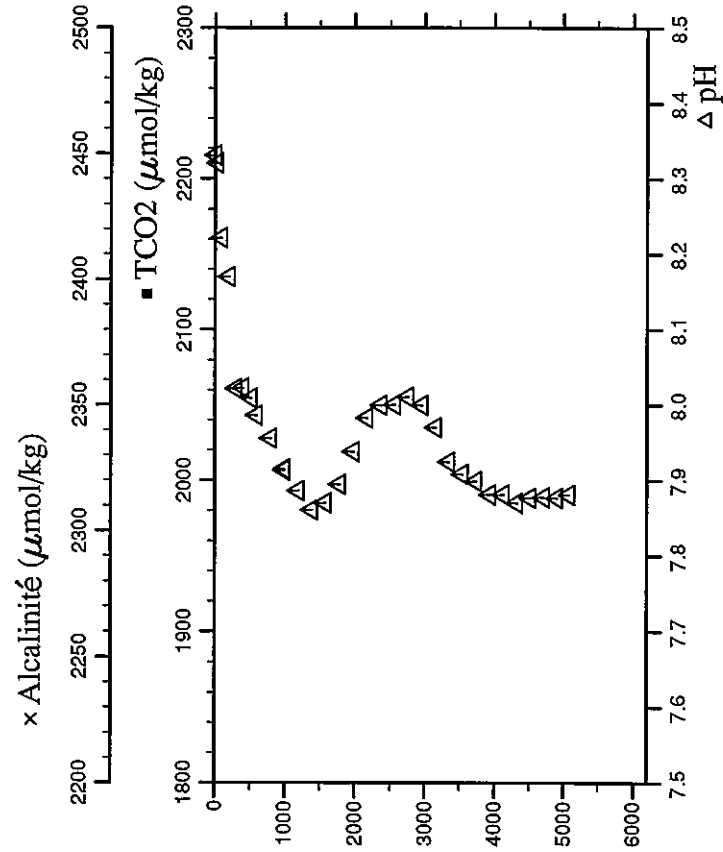
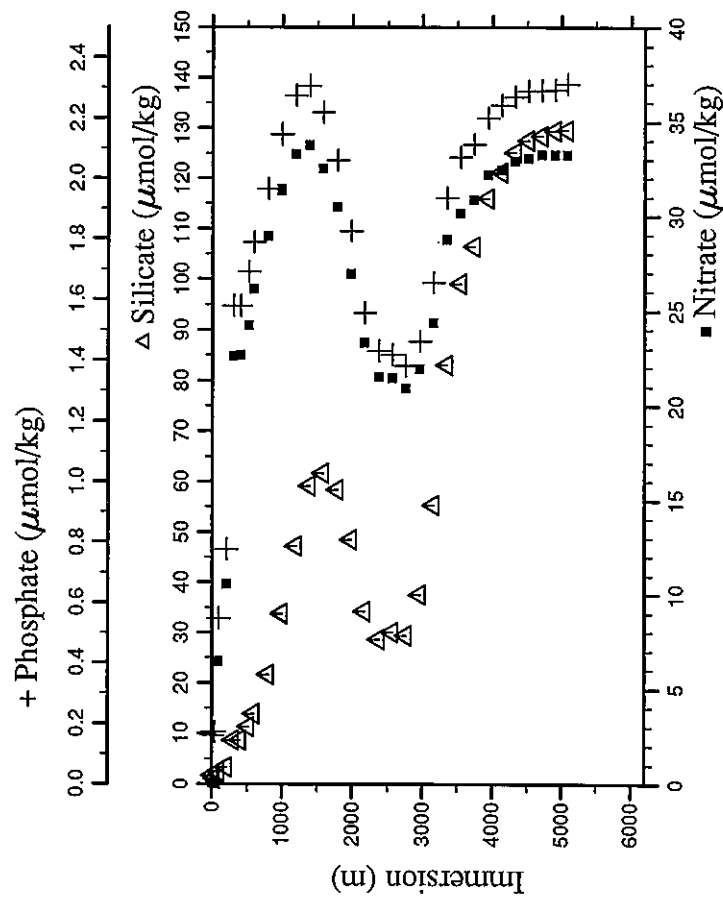
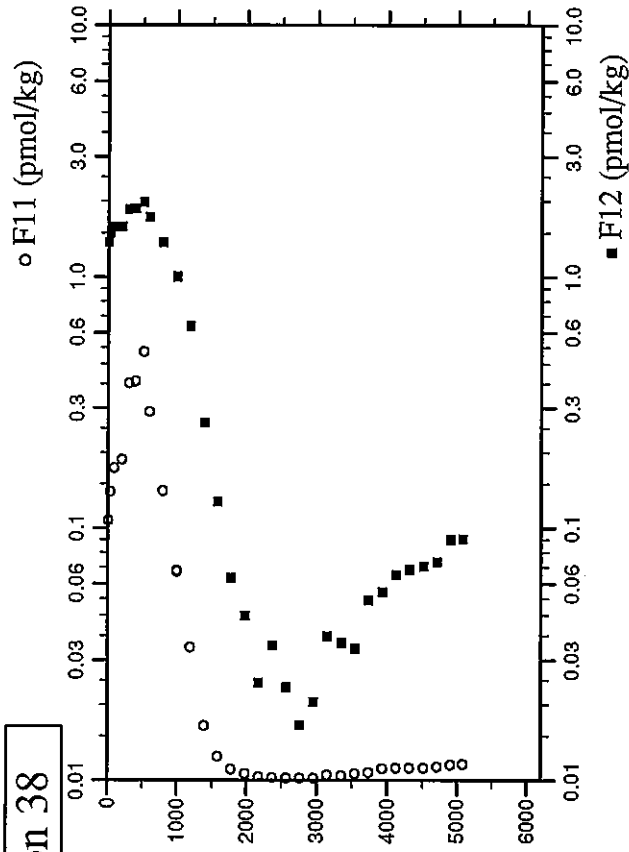
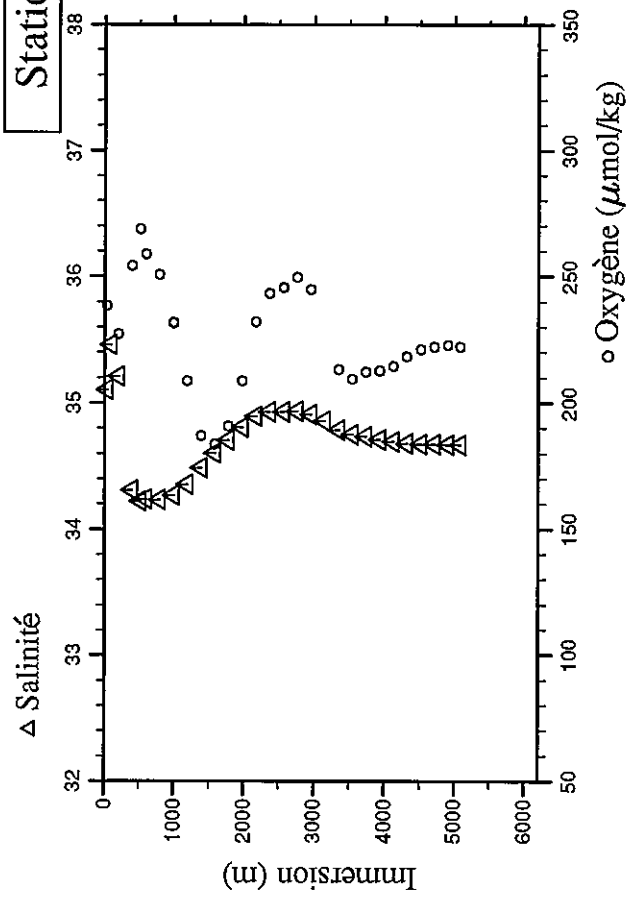
# Station 37



Station : 38 Campagne : CITHER 2  
 Date : 20-01-94 Heure : 7 h 14 mn  
 Position : S 37 15.21 W 45 19.17  
 Dernier niveau à : 5179  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.2	4.2	20.649	24.7164	35.139	228.7	0.08	0.161	1.7	2.4067	1.3758			8.331
30.7	30.5	18.415	25.3853	35.105	238.4	0.04	0.173	1.1	2.6716	1.4939			8.321
91.1	90.4	14.904	26.7468	35.458	218.2	6.49	0.548	2.5	2.8901	1.5823			8.222
200.4	198.8	12.559	27.5342	35.213	227.3	10.58	0.777	3.3	2.9684	1.5874			8.170
300.7	298.3	8.880	28.1801	34.310	254.1	22.61	1.579	8.7	3.6807	1.8546			8.022
400.2	396.8	6.178	28.8135	34.309	254.1	22.69	1.579	8.7	3.6968	1.8707			8.023
520.2	515.7	4.944	29.4572	34.222	268.6	24.25	1.691	11.4	3.9702	1.9850			8.009
600.6	595.3	4.746	29.8631	34.238	258.8	26.14	1.788	13.9	3.4151	1.7263			7.986
800.5	793.0	3.868	30.8851	34.233	250.7	28.92	1.964	21.6	2.6803	1.3660			7.956
1000.0	990.2	3.124	31.9164	34.270	231.9	31.42	2.147	33.8	1.9407	1.0037			7.915
1000.2	990.4	3.115	31.9191	34.271	231.5	31.31	2.144	33.7	1.9327	1.0008			7.913
1200.6	1188.3	2.775	32.9461	34.356	208.6	33.30	2.275	47.2	1.2272	0.6375			7.886
1400.1	1385.1	2.655	33.9692	34.487	187.0	33.76	2.306	59.1	0.5058	0.2626			7.861
1600.4	1582.5	2.715	34.9621	34.604	183.8	32.51	2.220	61.7	0.2218	0.1269			7.870
1799.4	1778.4	2.826	35.9257	34.706	190.9	30.48	2.061	58.4	0.1037	0.0634			7.895
1999.5	1975.2	2.994	36.8770	34.810	208.6	26.95	1.824	48.5	0.0584	0.0449			7.938
2199.6	2171.9	3.173	37.8120	34.897	232.0	23.33	1.556	34.2	0.0332	0.0244			7.983
2400.0	2368.6	3.143	38.7302	34.929	243.2	21.52	1.430	28.7	0.0264	0.0342			8.000
2599.8	2564.6	2.970	39.6401	34.929	245.6	21.45	1.418	30.1	0.0218	0.0234			8.001
2799.0	2759.9	2.850	40.5400	34.935	249.7	20.90	1.383	29.4	0.0172	0.0166			8.011
3000.1	2956.8	2.600	41.4450	34.910	244.7	21.92	1.462	37.6	0.0193	0.0205			8.000
3199.6	3152.0	2.170	42.3478	34.858	231.8	24.38	1.655	55.3	0.0520	0.0371			7.970
3398.5	3346.4	1.629	43.2542	34.791	213.2	28.76	1.936	83.1	0.0454	0.0351			7.924
3598.1	3541.3	1.197	44.1695	34.754	209.5	30.15	2.071	99.1	0.0625	0.0332			7.908
3799.7	3738.0	0.927	45.0799	34.738	212.2	30.85	2.113	106.5	0.0719	0.0517			7.899
3999.7	3933.0	0.597	45.9834	34.714	212.7	32.17	2.200	116.0	0.1092	0.0556			7.881
4198.7	4126.8	0.337	46.8769	34.698	214.6	32.45	2.242	121.2	0.1149	0.0654			7.881
4398.6	4321.3	0.106	47.7715	34.684	218.4	32.90	2.271	125.2	0.1156	0.0683			7.870
4599.2	4516.4	-0.041	48.6546	34.679	221.1	33.05	2.288	127.5	0.1122	0.0703			7.877
4797.2	4708.7	-0.105	49.5107	34.677	222.2	33.25	2.291	128.4	0.1254	0.0732			7.878
4998.4	4904.0	-0.147	50.3743	34.674	222.9	33.25	2.294	129.5	0.1450	0.0898			7.877
5178.4	5078.6	-0.168	51.1419	34.673	222.0	33.25	2.312	129.6	0.1519	0.0908			7.881

# Station 38

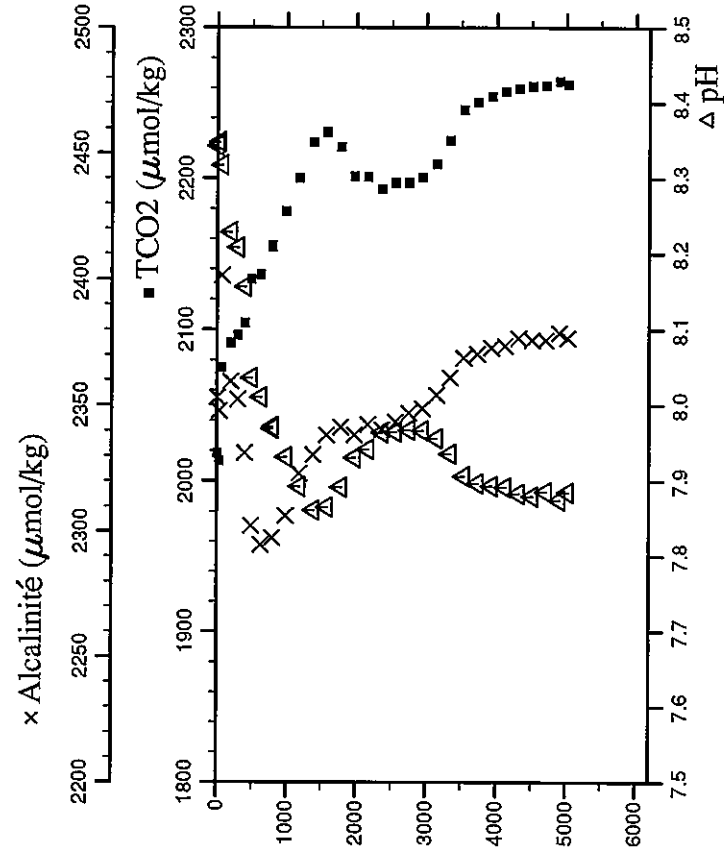
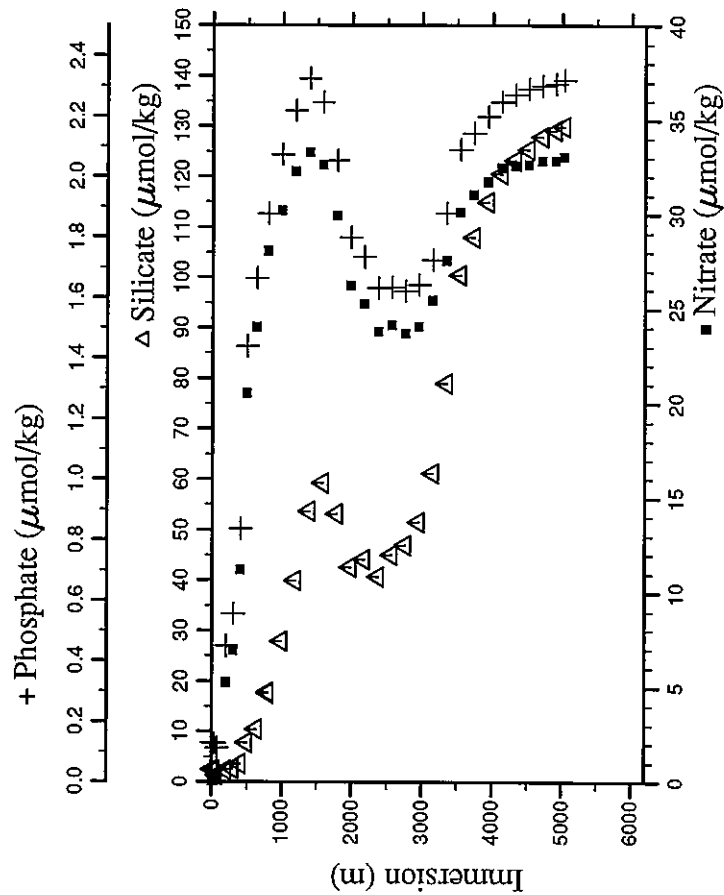
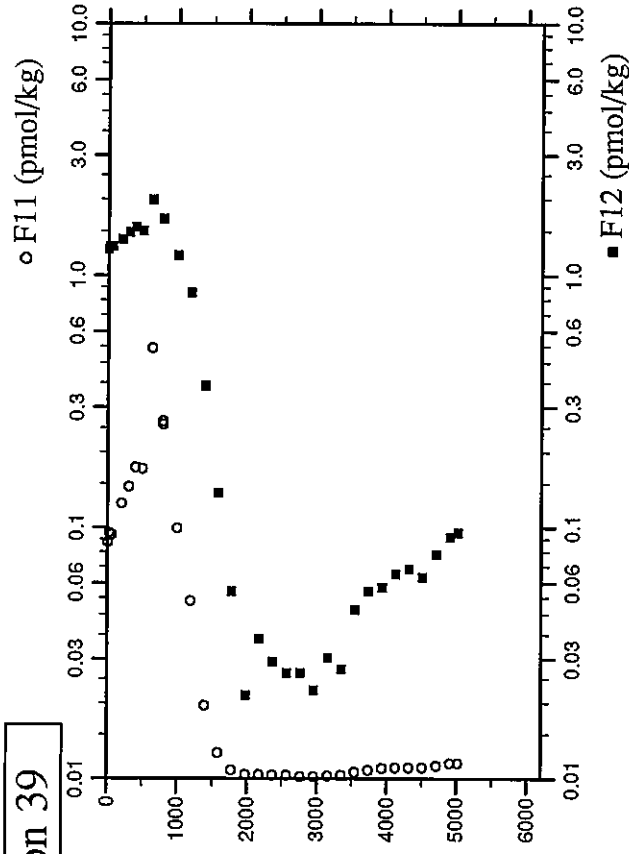
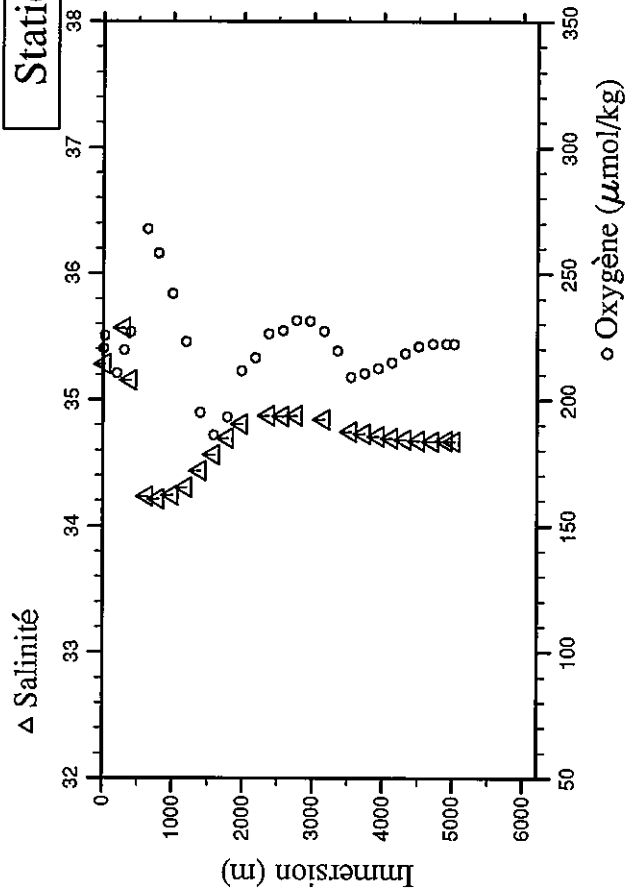


Station : 39 Campagne : CIPHER 2  
 Date : 20-01-94 Heure : 13 h 44 mn  
 Position : S 36 50.02 W 44 57.13  
 Dernier niveau à : 5122  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI-NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
6.4	6.4	22.704	24.3552	35.403	220.2	0.04	0.131	2.4	2.1991	1.2692	2018.42	2352.9	8.343
30.2	30.0	21.485	24.7065	35.280	225.2	0.04	0.128	2.2	2.2878	1.2977	2013.48	2347.7	8.348
65.2	64.7	20.721	25.9791	36.465	209.6	±	0.114	1.3	2.2682	1.2975	2074.65	2401.3	8.318
200.9	199.3	15.828	27.2423	35.743	210.5	±	0.450	2.3	2.5585	1.3860	2091.25	2359.3	8.229
300.8	298.4	14.521	27.8379	35.567	219.7	6.94	0.556	2.6	2.7108	1.4790	2096.43	2352.2	8.208
400.7	397.4	12.223	28.4416	35.155	226.8	11.23	0.838	3.6	2.8911	1.5527	2104.20	2331.2	8.157
496.5	496.5	7.848	29.1844	34.537	226.2	±	1.440	7.8	2.8793	1.4918	2133.18	2302.2	8.036
635.9	630.2	5.081	29.9770	34.235	267.7	24.03	1.663	10.5	3.9926	1.9944	2136.33	2294.6	8.011
800.3	792.9	4.233	30.8258	34.216	258.3	28.10	1.879	17.6	3.3155	1.6661	2154.35	2297.4	7.972
800.7	793.3	4.225	30.8294	34.216	257.9	28.02	1.878	17.8	3.2861	1.6612	2155.46	2297.2	7.969
1000.5	990.7	3.451	31.8594	34.242	241.9	30.21	2.073	27.9	2.3262	1.1961	2178.20	2306.1	7.932
1400.4	1385.4	2.871	32.8861	34.303	223.0	32.26	2.219	40.0	1.6485	0.8511	2200.20	2323.0	7.893
1599.2	1581.3	2.764	33.9195	34.437	194.9	33.30	2.325	53.7	0.6777	0.3654	2223.78	2330.4	7.862
1798.7	1777.8	2.775	34.9174	34.566	186.0	32.61	2.247	59.3	0.2371	0.1368	2230.55	2338.3	7.866
1999.6	1975.4	2.974	35.8918	34.698	193.2	29.92	2.054	53.2	0.0807	0.0557	2220.93	2341.3	7.892
1999.9	1975.4	3.157	36.8536	34.809	211.4	26.24	1.800	42.6	0.0348	0.0215	2201.27	2338.2	7.931
2199.9	2172.3	3.032	37.7899	34.834	216.5	25.24	1.736	44.1	0.0404	0.0361	2200.91	2342.3	7.942
2398.4	2367.2	2.998	38.7023	34.875	226.0	23.79	1.633	40.7	0.0329	0.0293	2193.02	2340.2	7.964
2599.6	2564.5	2.782	39.6258	34.870	227.3	24.15	1.635	45.0	0.0309	0.0264	2197.00	2343.4	7.965
2799.0	2760.0	2.592	40.5372	34.876	231.3	23.71	1.622	47.0	0.0221	0.0264	2197.03	2347.0	7.968
2998.8	2955.6	2.376	41.4425	34.873	230.9	24.06	1.643	51.5	0.0180	0.0225	2200.51	2348.7	7.957
3200.3	3152.8	2.080	42.3542	34.842	226.9	25.45	1.726	61.2	0.0273	0.0303	2209.29	2354.0	7.957
3399.0	3347.0	1.657	43.2625	34.790	219.3	27.55	1.881	79.0	0.0306	0.0273	2225.18	2361.0	7.936
3598.7	3542.0	1.188	44.1722	34.750	208.9	30.14	2.089	100.5	0.0598	0.0469	2245.41	2368.7	7.907
3798.7	3737.2	0.904	45.0758	34.732	210.4	31.04	2.146	108.0	0.0789	0.0557	2250.62	2370.4	7.897
3999.4	3932.8	0.619	45.9805	34.714	212.4	31.74	2.201	115.0	0.0972	0.0576	2254.49	2372.9	7.894
4198.4	4126.7	0.350	46.8753	34.697	214.8	32.46	2.248	120.5	0.1027	0.0654	2257.58	2373.6	7.892
4398.7	4321.6	0.115	47.7697	34.685	218.3	32.59	2.273	123.2	0.1026	0.0684	2259.53	2376.6	7.884
4597.0	4514.4	-0.034	48.6437	34.677	221.1	32.65	2.291	125.4	0.1031	0.0635	2261.24	2375.8	7.880
4797.9	4709.6	-0.136	49.5186	34.674	222.2	32.85	2.302	127.9	0.1220	0.0781	2261.61	2375.9	7.886
4999.1	4904.9	-0.166	50.3798	34.675	222.0	32.85	2.308	129.2	0.1443	0.0918	2264.36	2378.7	7.875
5117.8	5020.0	-0.166	50.8851	34.673	222.0	33.05	2.320	130.0	0.1429	0.0957	2262.32	2376.6	7.885



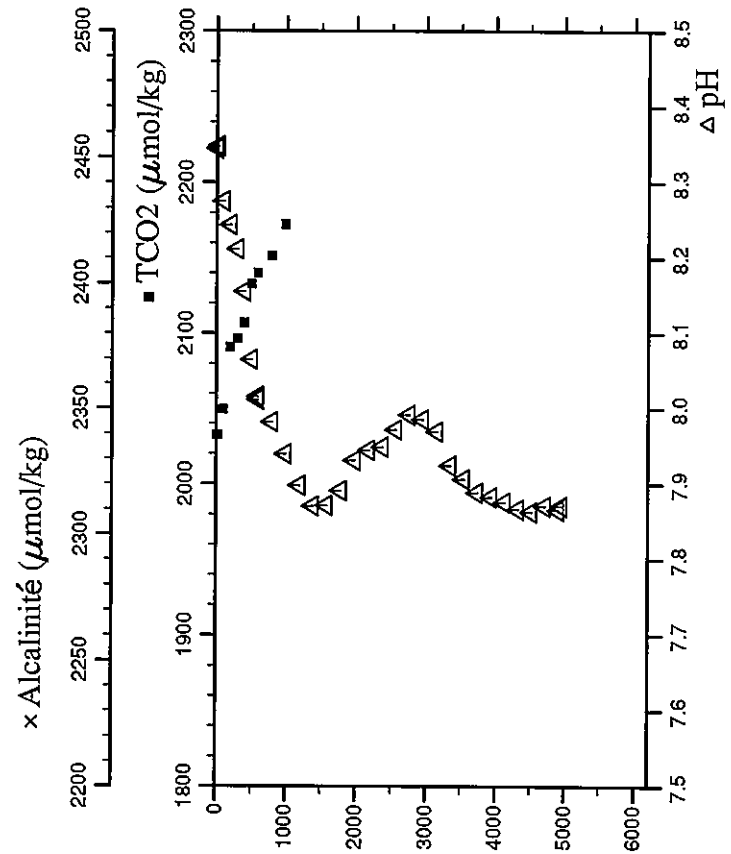
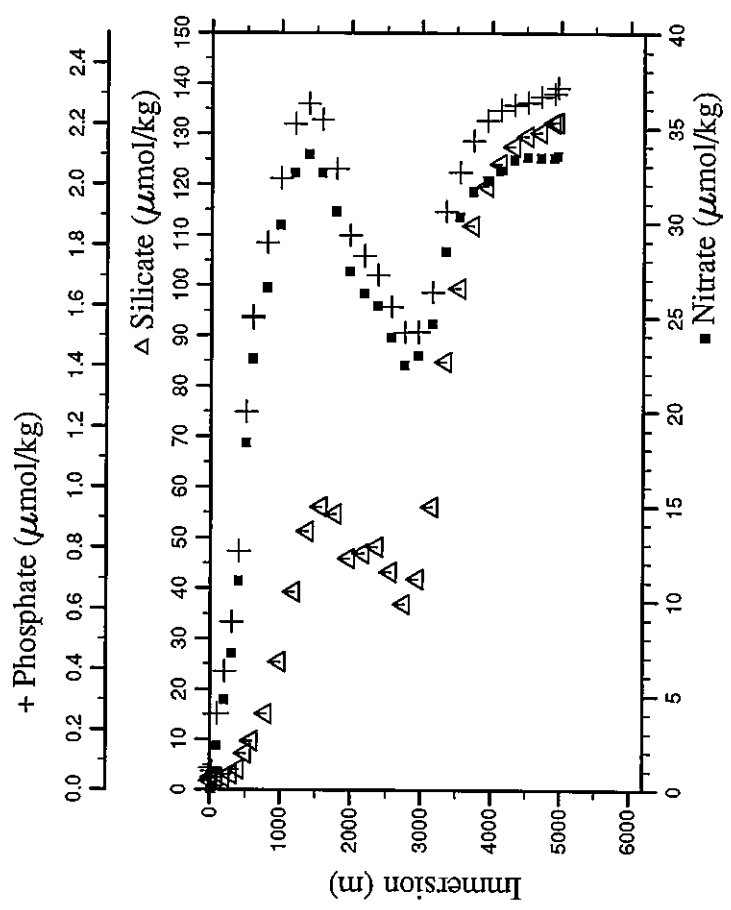
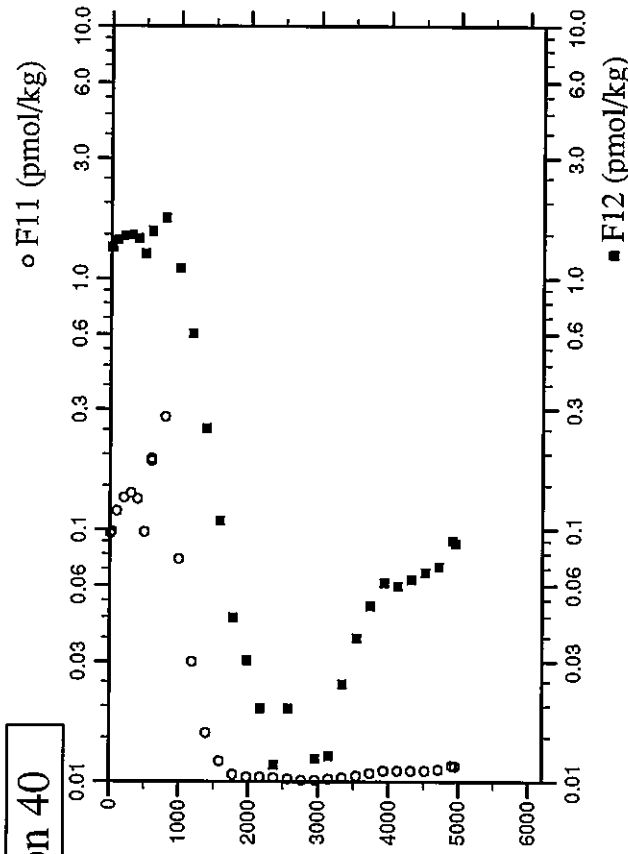
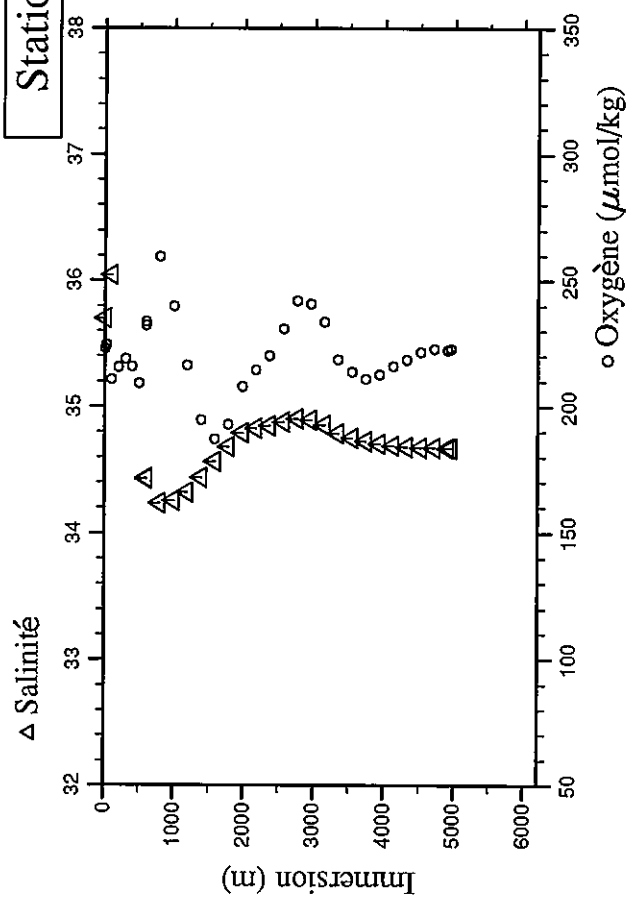
# Station 39



Station : 40 Campagne : CITHER 2  
 Date : 20-01-94 Heure : 19 h 54 mn  
 Position : S 36 25.21 W 44 36.79  
 Dernier niveau à : 5053  
 Nb prélèvements : 32

PRESSTON CHIMIE	IMMERSSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
6.3	6.3	21.667	24.8689	35.699	222.9	0.04	0.072	1.8	2.2970	1.3305	2032.38		8.345
25.9	25.7	21.096	25.1191	35.705	224.5	0.04	0.063	2.4	2.3131	1.3314	2032.16		8.348
100.2	99.4	17.801	26.5551	36.045	210.6	2.33	0.252	2.3	2.5039	1.4228	2049.49		8.275
201.1	199.5	16.069	27.2506	35.826	215.4	4.77	0.393	2.5	2.6315	1.4748	2090.68		8.244
301.0	298.6	14.521	27.8358	35.553	218.8	7.22	0.555	3.1	2.6694	1.4858	2096.30		8.212
400.5	397.2	12.806	28.3965	35.236	215.7	11.04	0.790	4.1	2.6192	1.4461	2106.84		8.156
501.3	497.0	9.818	29.0656	34.778	209.1	18.33	1.248	7.3	2.3108	1.2522	2132.80		8.065
600.2	594.9	7.042	29.6895	34.430	232.0	22.79	1.565	9.7	2.9669	1.5320	2139.98		8.012
600.3	595.0	7.029	29.6909	34.428	233.6	22.75	1.559	9.8	2.9908	1.5457	2139.99		8.016
800.8	793.4	4.574	30.7987	34.232	259.6	26.53	1.809	15.2	3.3769	1.7423	2151.53		7.982
999.9	990.2	3.797	31.8237	34.253	239.6	29.87	2.020	25.5	2.0589	1.0934	2172.10		7.940
1200.6	1188.4	3.104	32.8763	34.321	216.3	32.60	2.199	39.3	1.1105	0.6029			7.898
1399.8	1384.9	2.885	33.9020	34.438	194.6	33.60	2.267	51.3	0.4530	0.2521			7.871
1599.8	1582.0	2.884	34.9041	34.565	187.1	32.62	2.215	56.1	0.1920	0.1084			7.872
1799.6	1778.7	2.900	35.8946	34.681	192.9	30.56	2.052	54.7	0.0664	0.0449			7.891
1999.8	1975.7	3.103	36.8500	34.794	207.9	27.43	1.834	45.9	0.0458	0.0303			7.931
2201.6	2174.0	2.978	37.7991	34.830	214.5	26.23	1.766	47.0	0.0452	0.0195			7.945
2398.3	2367.2	2.825	38.7107	34.849	220.1	25.59	1.703	48.2	0.0383	0.0117			7.949
2598.1	2563.2	2.778	39.6255	34.880	230.8	23.90	1.597	43.3	0.0268	0.0195			7.972
2798.0	2759.1	2.724	40.5365	34.907	241.9	22.44	1.511	36.9	0.0153	0.0098			7.991
2997.2	2954.2	2.516	41.4361	34.897	240.6	22.95	1.513	41.9	0.0135	0.0124			7.985
3198.3	3150.9	2.142	42.3477	34.857	233.5	24.64	1.644	56.1	0.0230	0.0127			7.969
3396.7	3344.9	1.556	43.2604	34.790	218.6	28.48	1.911	84.8	0.0379	0.0244			7.924
3599.2	3542.6	1.167	44.1827	34.755	213.6	30.32	2.041	99.4	0.0544	0.0371			7.907
3798.1	3736.7	0.808	45.0845	34.727	211.0	31.62	2.144	111.9	0.0813	0.0498			7.889
3998.9	3932.5	0.492	45.9934	34.708	212.8	32.21	2.213	119.7	0.1052	0.0615			7.883
4198.3	4126.7	0.246	46.8881	34.693	216.1	32.76	2.247	124.1	0.1035	0.0596			7.876
4398.4	4321.4	0.082	47.7744	34.684	218.6	33.31	2.264	129.6	0.1013	0.0635			7.867
4599.3	4516.8	-0.040	48.6550	34.678	221.5	33.46	2.273	127.6	0.1035	0.0674			7.863
4799.2	4711.0	-0.121	49.5212	34.675	222.8	33.41	2.291	130.4	0.1174	0.0713			7.871
4999.5	4905.4	-0.167	50.3814	34.672	222.4	33.41	2.302	132.2	0.1511	0.0908			7.866
5047.1	4951.6	-0.167	50.5844	34.672	222.8	33.51	2.320	132.4	0.1468	0.0879			7.871

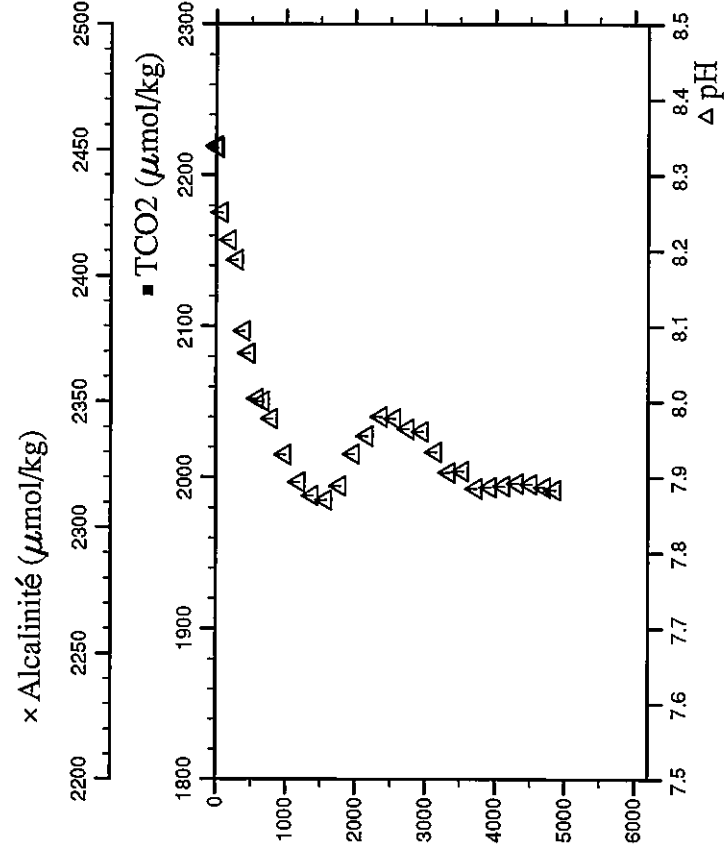
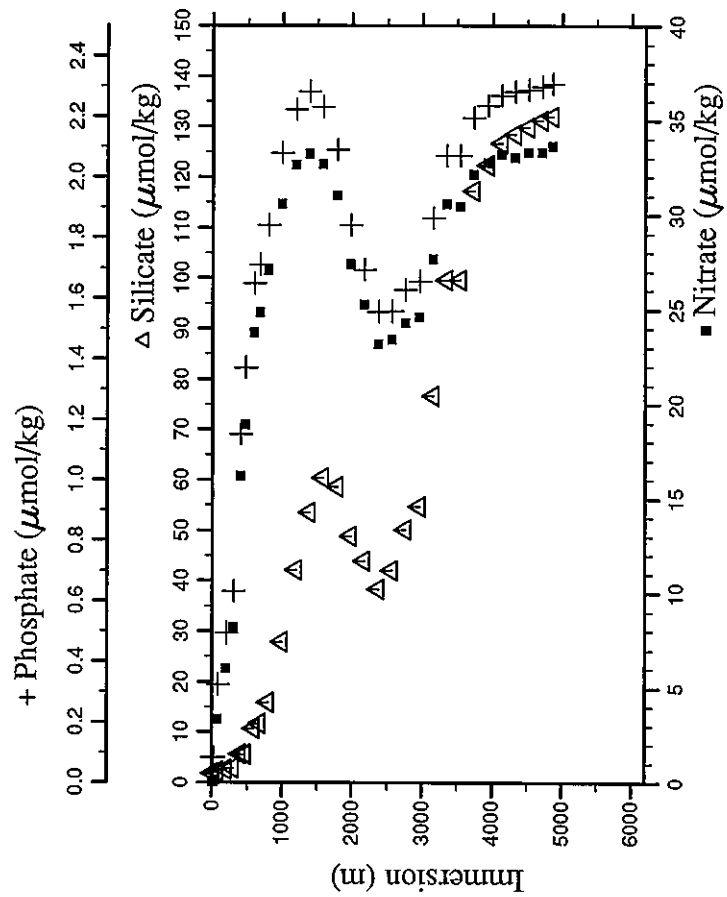
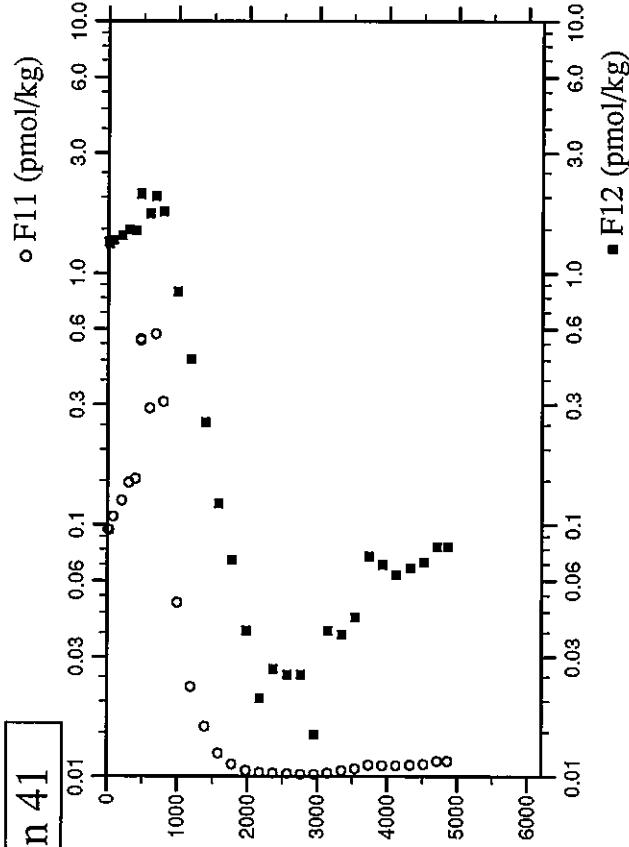
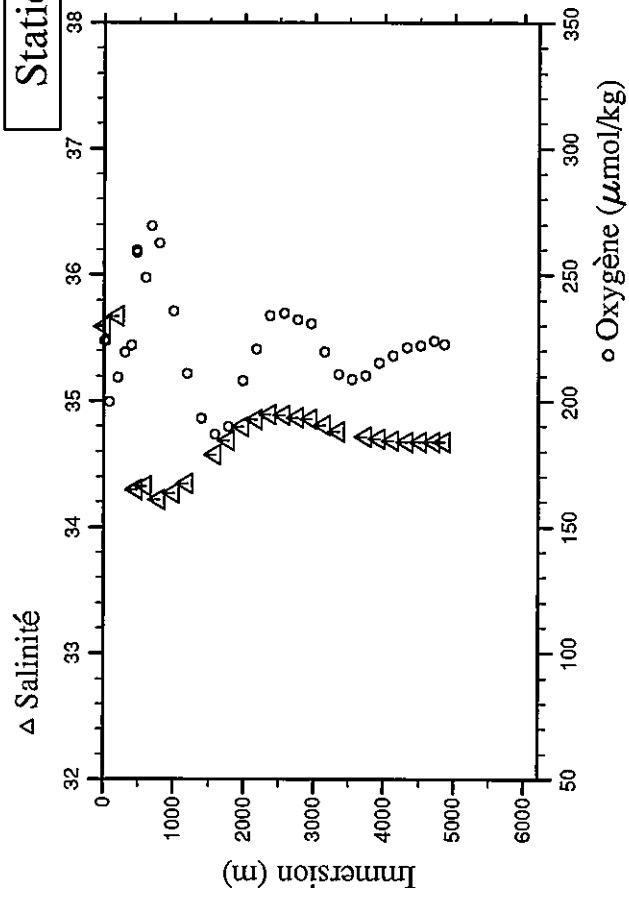
**Station 40**



Station : 41 Campagne : CITHRER 2  
 Date : 21-01-94 Heure : 2 h 0 mn  
 Position : S 36 0.13 W 44 15.01  
 Dernier niveau à : 4957  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI-	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
3.4	3.4	21.505	24.8191	35.592	223.9	0.04	0.084	1.8	2.2944	1.3267			8.339
25.3	25.1	21.405	24.9282	35.583	223.8	0.04	0.084	1.7	2.2873	1.3032			8.336
80.9	80.3	18.147	26.3689	36.006	199.7	3.35	0.326	2.2	2.4121	1.3555			8.251
201.5	199.9	15.524	27.2562	35.671	209.4	6.04	0.495	2.6	2.5571	1.4076			8.214
301.1	298.7	13.953	27.8722	35.445	219.4	8.21	0.633	2.9	2.7258	1.4898			8.188
401.1	397.8	10.353	28.5388	34.794	222.2	16.21	1.152	5.6	2.7616	1.4671			8.094
471.7	467.7	7.307	28.9660	34.298	258.8	18.90	1.371	5.6	4.0396	2.0461			8.064
473.8	469.8	7.307	28.9756	34.295	259.7	18.90	1.371	5.5	4.0516	2.0627			8.064
601.1	595.8	6.077	29.7578	34.325	248.7	23.79	1.649	10.7	3.4140	1.7207			8.004
681.1	675.0	4.891	30.1932	34.220	269.4	24.85	1.710	11.8	4.1025	2.0199			8.001
800.9	793.5	4.378	30.8118	34.219	262.6	27.05	1.843	16.0	3.4741	1.7472			7.978
1000.8	991.1	3.675	31.8541	34.269	235.7	30.58	2.080	27.9	1.6128	0.8443			7.930
1200.8	1188.6	3.112	32.8951	34.344	210.9	32.63	2.224	42.1	0.8304	0.4534			7.894
1399.6	1384.7	2.811	33.9150	34.452	193.2	33.22	2.283	53.6	0.4644	0.2550			7.876
1599.6	1581.8	2.768	34.9296	34.575	186.9	32.68	2.232	60.4	0.2178	0.1211			7.870
1799.3	1778.5	2.847	35.9031	34.686	189.7	31.01	2.090	58.6	0.1134	0.0723			7.889
1999.3	1975.3	3.026	36.8629	34.797	208.2	27.40	1.843	48.8	0.0556	0.0381			7.931
2198.4	2170.9	3.013	37.7966	34.854	220.5	25.26	1.693	43.9	0.0351	0.0205			7.955
2398.5	2367.4	2.973	38.7243	34.895	233.9	23.20	1.555	38.3	0.0297	0.0268			7.980
2599.3	2564.4	2.742	39.6441	34.889	234.8	23.44	1.558	42.0	0.0245	0.0254			7.978
2798.8	2760.0	2.469	40.5508	34.870	232.3	24.31	1.629	50.1	0.0214	0.0254			7.964
3000.2	2957.2	2.261	41.4613	34.862	230.8	24.61	1.656	54.7	0.0194	0.0147			7.961
3199.3	3152.0	1.801	42.3704	34.807	219.6	27.65	1.865	76.7	0.0323	0.0381			7.934
3400.3	3348.5	1.280	43.2950	34.756	210.6	30.59	2.070	99.6	0.0570	0.0368			7.907
3599.7	3543.3	0.961	44.2006	34.755	208.7	30.44	2.070	99.6	0.0758	0.0430			7.908
3799.7	3738.4	0.660	45.1063	34.715	210.2	32.14	2.196	117.2	0.1074	0.0752			7.885
3998.8	3932.5	0.390	46.0069	34.700	215.2	32.73	2.236	122.4	0.1000	0.0694			7.887
4199.5	4128.0	0.131	46.9090	34.686	218.0	33.18	2.271	126.7	0.1057	0.0635			7.889
4399.5	4322.7	-0.030	47.7952	34.677	221.3	33.03	2.283	128.4	0.1079	0.0674			7.892
4599.2	4516.9	-0.102	48.6627	34.679	222.0	33.28	2.288	129.8	0.1148	0.0713			7.891
4798.2	4710.2	-0.156	49.5225	34.677	224.0	33.29	2.300	131.2	0.1424	0.0821			7.887
4953.9	4861.3	-0.169	50.1893	34.675	222.7	33.63	2.309	132.0	0.1451	0.0821			7.884

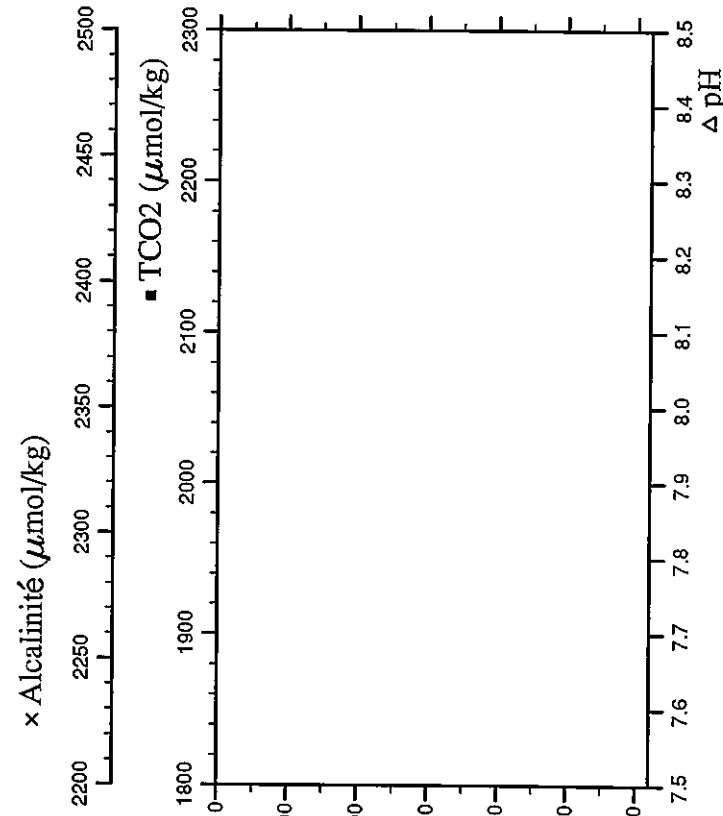
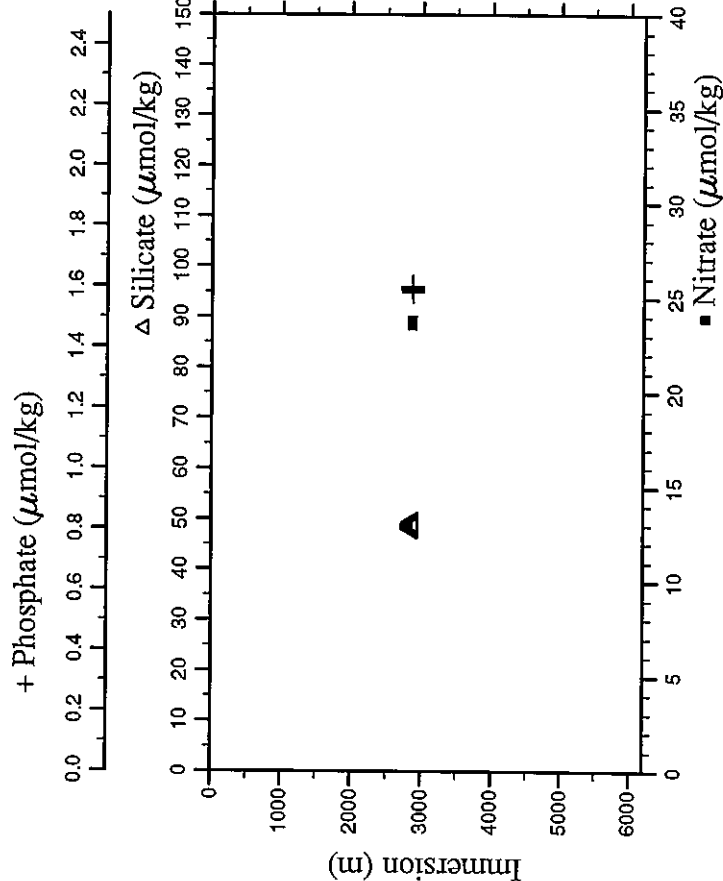
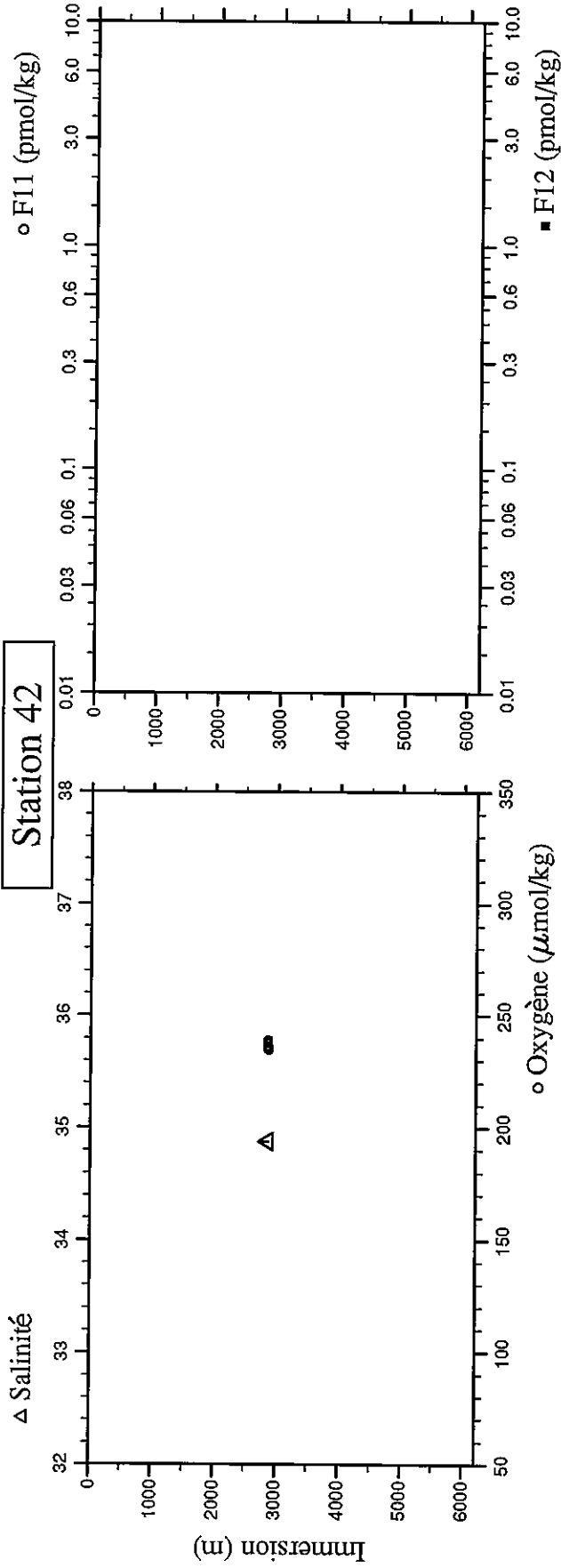
# Station 41



Station : 42 Campagne : CITHER 2  
 Date : 21-01-94 Heure : 10 h 4 mn  
 Position : S 35 30.92 W 45 3.65  
 Dernier niveau à : 2900  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
2903.3	2862.5	2.451	41.0212	34.881	239.0	23.62	1.595	48.3					
2903.9	2863.1	2.451	41.0236	34.881	237.7	23.77	1.595	48.1					
2904.4	2863.5	2.450	41.0257	34.879	235.9	23.65	1.595	48.2					
2904.4	2863.5	2.451	41.0256	34.880	235.2	23.73	1.600	48.7					
2904.6	2863.7	2.450	41.0274	34.879		23.65	1.595	48.3					
2905.0	2864.1	2.450	41.0290	34.880	235.5	23.73	1.588	48.3					
2905.0	2864.1	2.451	41.0281	34.880	235.0	23.73	1.594	49.0					
2905.0	2864.1	2.451	41.0281	34.879	235.4		1.594	48.9					
2905.5	2864.6	2.451	41.0301	34.880	235.0	23.73	1.593	49.4					
2905.5	2864.6	2.451	41.0310	34.879	235.9	23.61	1.597	48.3					
2905.6	2864.7	2.451	41.0314	34.878	235.6	23.65	1.588	48.3					
2905.7	2864.8	2.451	41.0318	34.880	237.8	23.57	1.591	48.3					
2905.9	2865.0	2.451	41.0326	34.881	236.3	23.65	1.593	48.3					
2906.6	2865.7	2.451	41.0355	34.879	235.1	23.65	1.593	48.9					
2906.8	2865.9	2.451	41.0363	34.878	235.2	23.57	1.590	48.2					
2907.1	2866.2	2.450	41.0376	34.881	235.3	23.61	1.592	49.1					
2907.1	2866.2	2.450	41.0376	34.879	237.8	23.70	1.592	48.9					
2907.2	2866.3	2.450	41.0380	34.879	238.4	23.61	1.592	48.9					
2907.3	2866.4	2.451	41.0383	34.876	234.9	23.61	1.593	48.9					
2907.5	2866.6	2.450	41.0392	34.879	235.2	23.61	1.589	48.9					
2907.5	2866.6	2.449	41.0402	34.879	234.8	23.76	1.589	48.9					
2907.6	2866.7	2.449	41.0396	34.879	235.2	23.61	1.592	48.7					
2907.7	2866.8	2.447	41.0411	34.879	235.0	23.73	1.592	48.7					
2908.1	2867.2	2.447	41.0418	34.879	234.9	23.69	1.589	48.9					
2908.3	2867.4	2.450	41.0434	34.881	234.9	23.84	1.585	48.9					
2908.4	2867.5	2.449	41.0438	34.879	235.0	23.80	1.592	48.7					
2908.4	2867.5	2.449	41.0438	34.877	255.0		1.588	48.3					
2908.4	2867.5	2.450	41.0438	34.879	235.0	23.64	1.591	48.9					
2908.4	2867.5	2.450	41.0428	34.880	235.8	23.80	1.585	48.6					
2908.5	2867.6	2.449	41.0442	34.879	234.9	23.62	1.589	48.5					
2908.6	2867.7	2.448	41.0447	34.880	235.4	23.76	1.582	48.6					
2908.7	2867.8	2.450	41.0450	34.879	234.7	23.65	1.582	48.6					

# Station 42



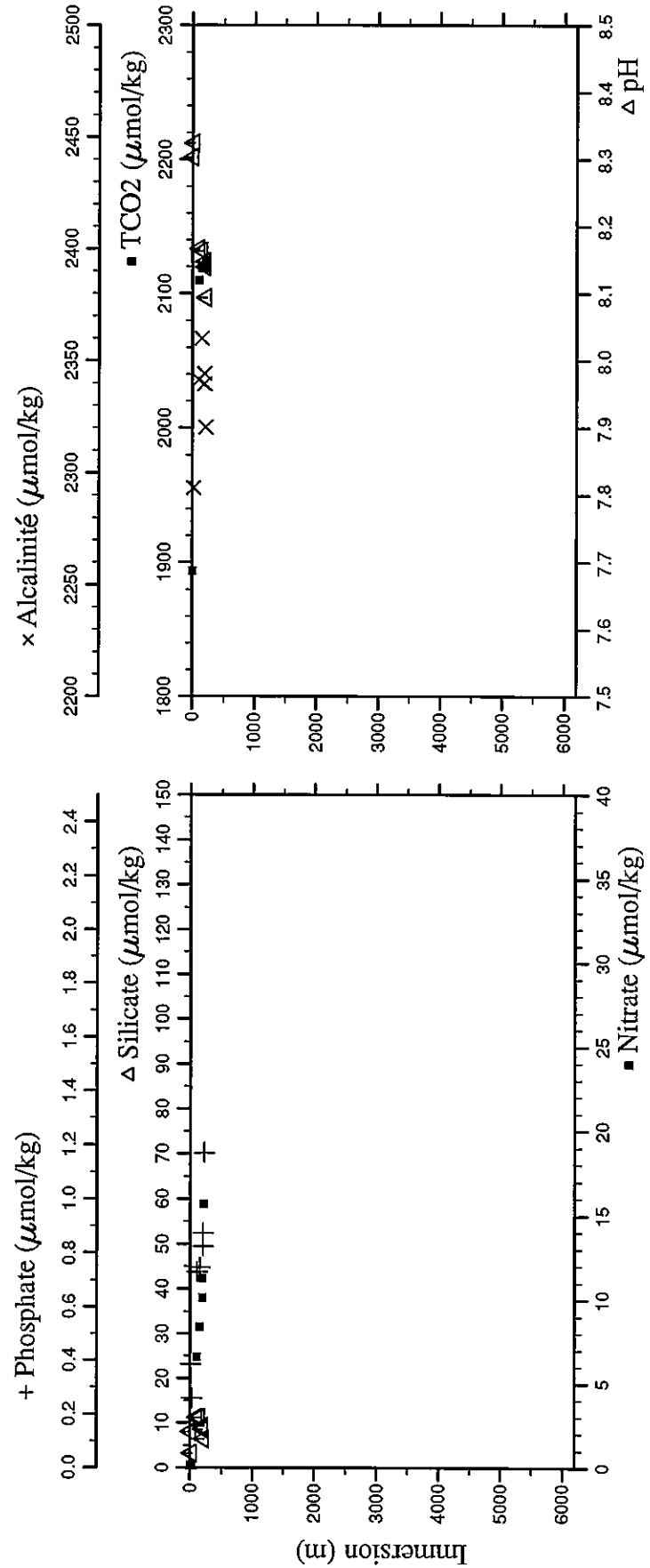
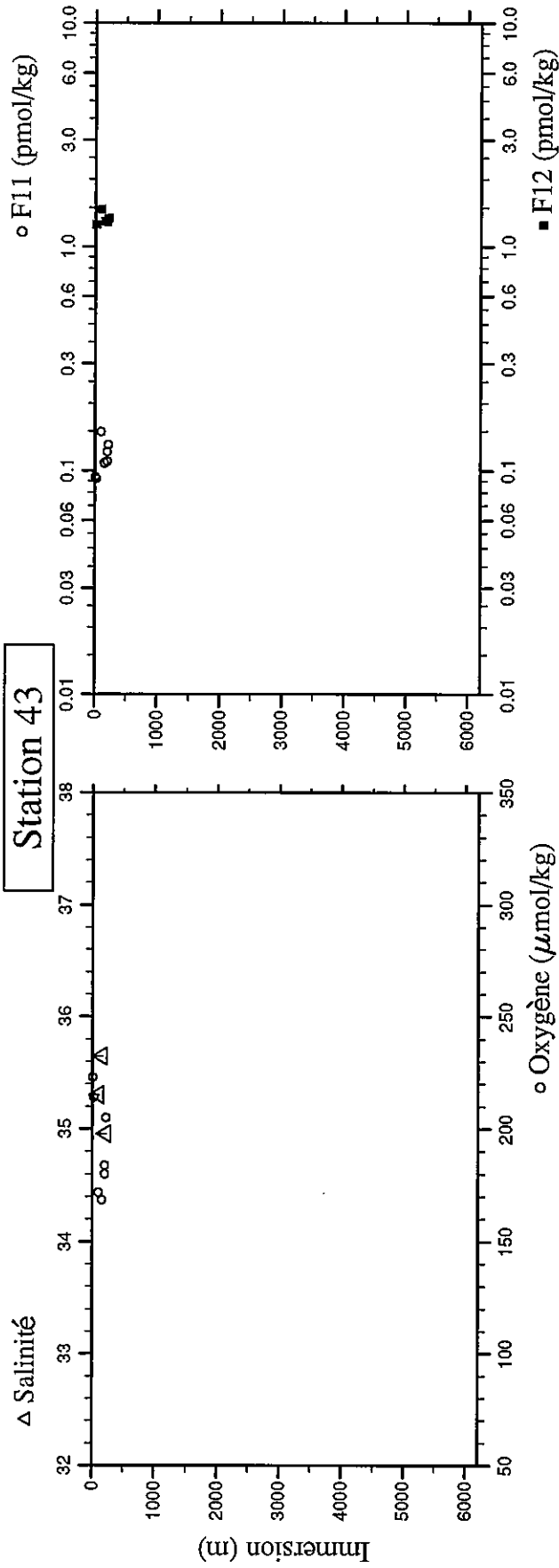
Δ pH

Station : 43 Campagne : CITHER 2  
 Date : 22-01-94 Heure : 17 h 13 mn  
 Position : S 32 21.16 W 50 13.06  
 Dernier niveau à : 219  
 Nb prélèvements : 9

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
6.3	6.3	23.329	21.0863	31.336	223.0	0.12	0.387	8.0	2.2693	1.2576	1893.73		8.303
25.2	25.0	23.559	23.1133	34.148	214.1	0.12	0.260	3.2	2.2491	1.2512	1853.51 d		8.324
101.7	101.0	16.115	26.3927	35.301	171.7	6.61	0.729	11.2	2.7390	1.4697	2109.93		8.167
151.6	150.5	16.085	26.8887	35.646	168.5	8.39	0.747	11.2	2.4119	1.2955	2118.84		8.163
201.7	200.2	14.006	27.3340	35.375	183.8	11.29	0.874	8.6	2.5279	1.3388	2118.60		8.140
202.4	200.9	14.807	27.2727	35.467	179.9	10.14	0.826	9.2	2.4286	1.2811	2344.0		8.147
216.3	214.7	11.184	27.6731	34.956	204.9	15.69	1.170	6.4	2.5983	1.3411	2124.06		8.094



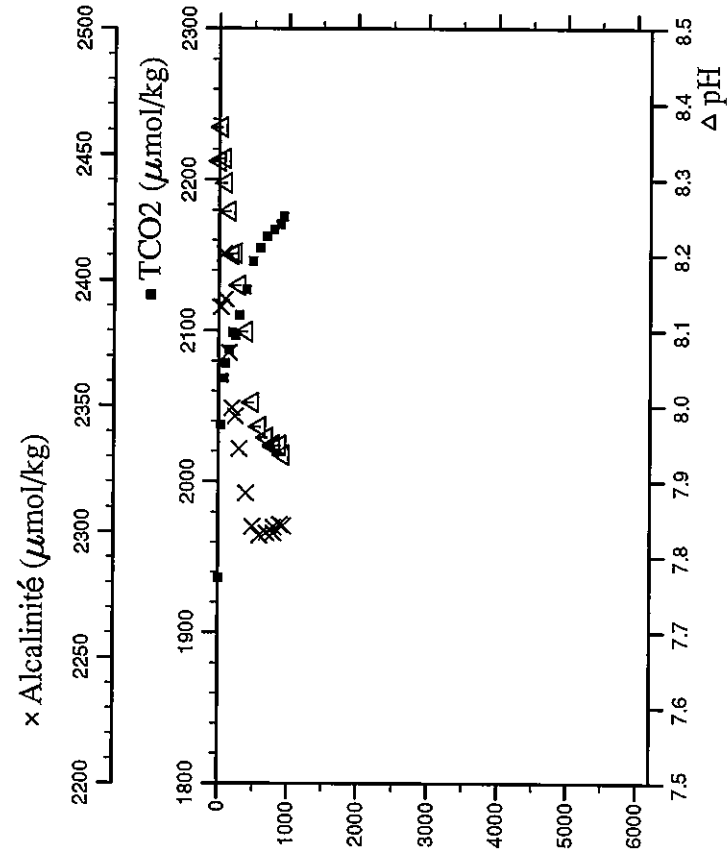
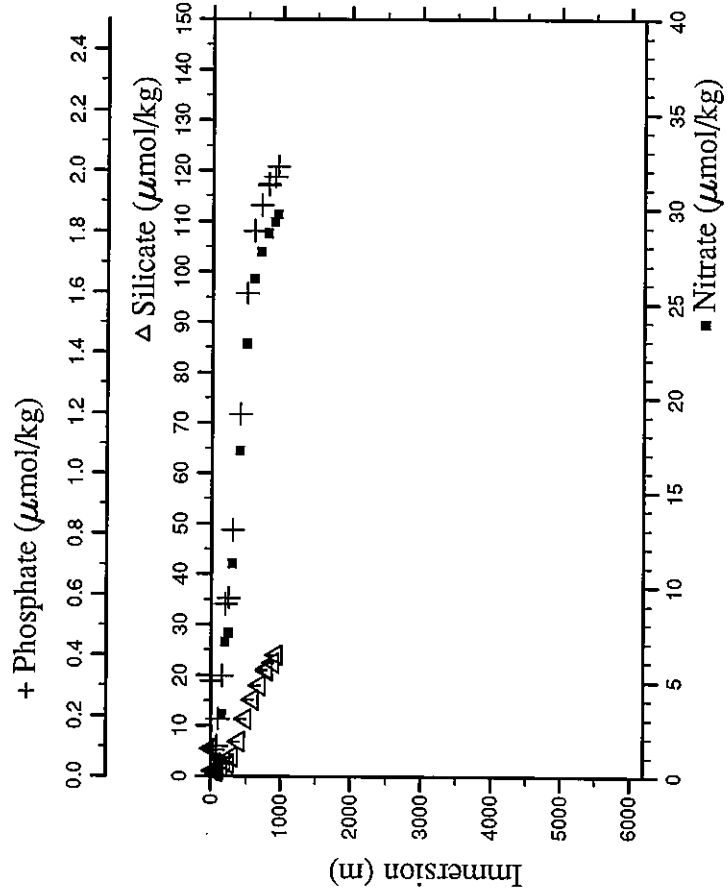
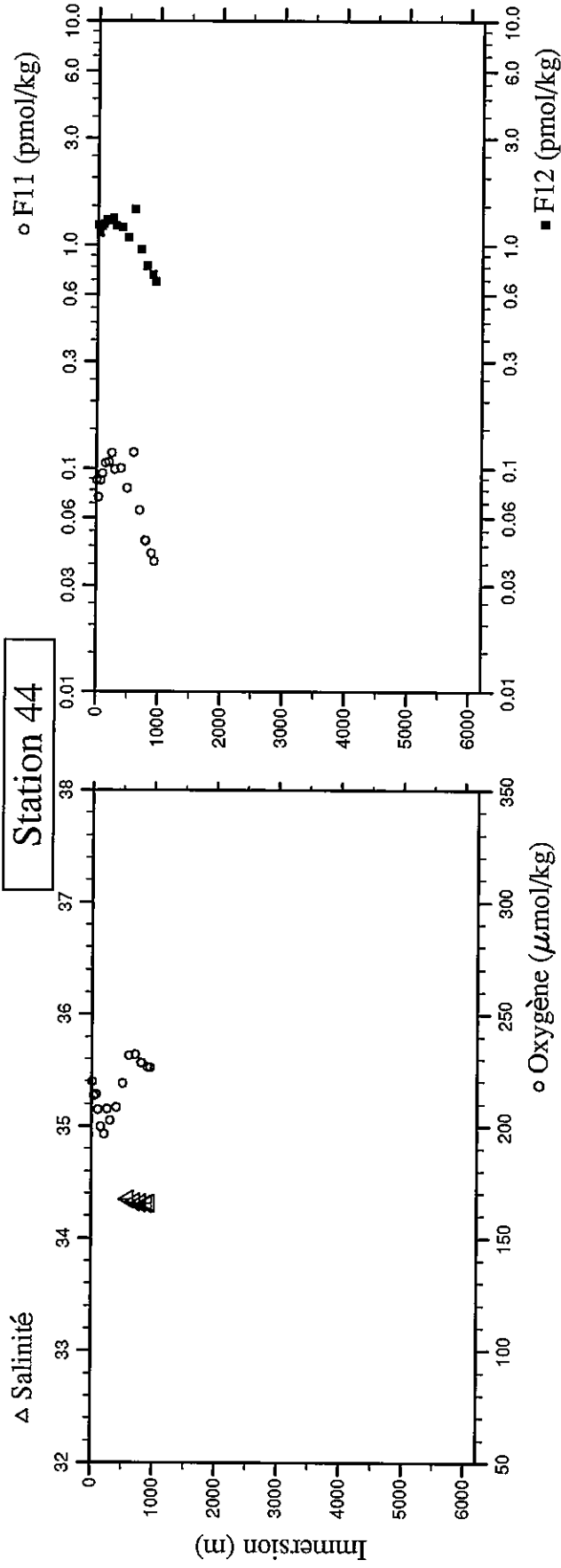
# Station 43



Station : 44 Campagne : CITHER 2  
 Date : 22-01-94 Heure : 18 h 38 mn  
 Position : S 32 25.50 W 50 6.45  
 Dernier niveau à : 954  
 Nb prélèvements : 16

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.7	5.7	23.465	21.5404	32.709	r 219.8	0.22	0.315	5.5	2.2097	1.2227	1936.20		8.324
30.8	30.6	24.524	24.4311	36.204	r 213.5	0.12	0.088	1.1	2.0285	1.1273	2037.62	2389.3	8.369
75.9	75.4	21.713	25.8243	36.570	r 214.3	0.12	0.101	1.0	2.2084	1.2127	2068.57	2410.4	8.328
100.4	99.7	20.352	26.1360	36.323	r 207.3	0.98	0.190	1.3	2.2796	1.2383	2078.33	2392.4	8.296
148.9	147.8	18.236	26.6763	35.966	r 199.8	3.28	0.332	1.8	2.3866	1.2951	2087.43	2371.2	8.258
201.0	199.5	15.626	27.1685	35.571	r 196.5	7.09	0.569	3.0	2.3993	1.2741	2098.85	2349.2	8.201
247.8	245.9	14.701	27.5408	35.511	r 207.5	7.57	0.587	2.5	2.4907	1.3132	2097.01	2346.0	8.202
299.2	296.9	13.145	27.9008	35.252	r 202.5	11.21	0.812	3.9	2.3198	1.2158	2110.37	2332.8	8.160
401.7	398.5	10.266	28.5867	34.860	r 208.3	17.18	1.195	6.9	2.3330	1.1957	2127.09	2315.3	8.099
499.5	495.4	7.381	29.2636	34.521	r 219.0	22.86	1.596	11.3	2.1277	1.0768	2145.78	2302.1	8.005
599.9	594.8	5.556	29.8404	34.347	r 231.4	26.31	1.801	15.2	2.4974	1.4453	2154.63	2298.7	7.973
702.5	696.4	5.026	30.3581	34.323	r 232.0	27.73	1.887	18.0	1.8943	0.9499	2162.60	2299.5	7.958
800.1	793.0	4.698	30.8409	34.313	r 228.1	28.70	1.956	21.1	1.5808	0.8033		2299.7	7.946
802.4	795.2	4.698	30.8514	34.314	r 228.1	28.69	1.953	20.9	1.5767	0.8101	2167.13	2301.8	7.949
899.5	891.3	4.502	31.3164	34.305	r 226.5	29.30	1.979	22.4	1.4446	0.7359	2170.36	2303.0	7.948
947.3	938.5	4.367	31.5493	34.308	r 226.1	29.70	2.013	23.9	1.3597	0.6860	2175.56	2302.4	7.935

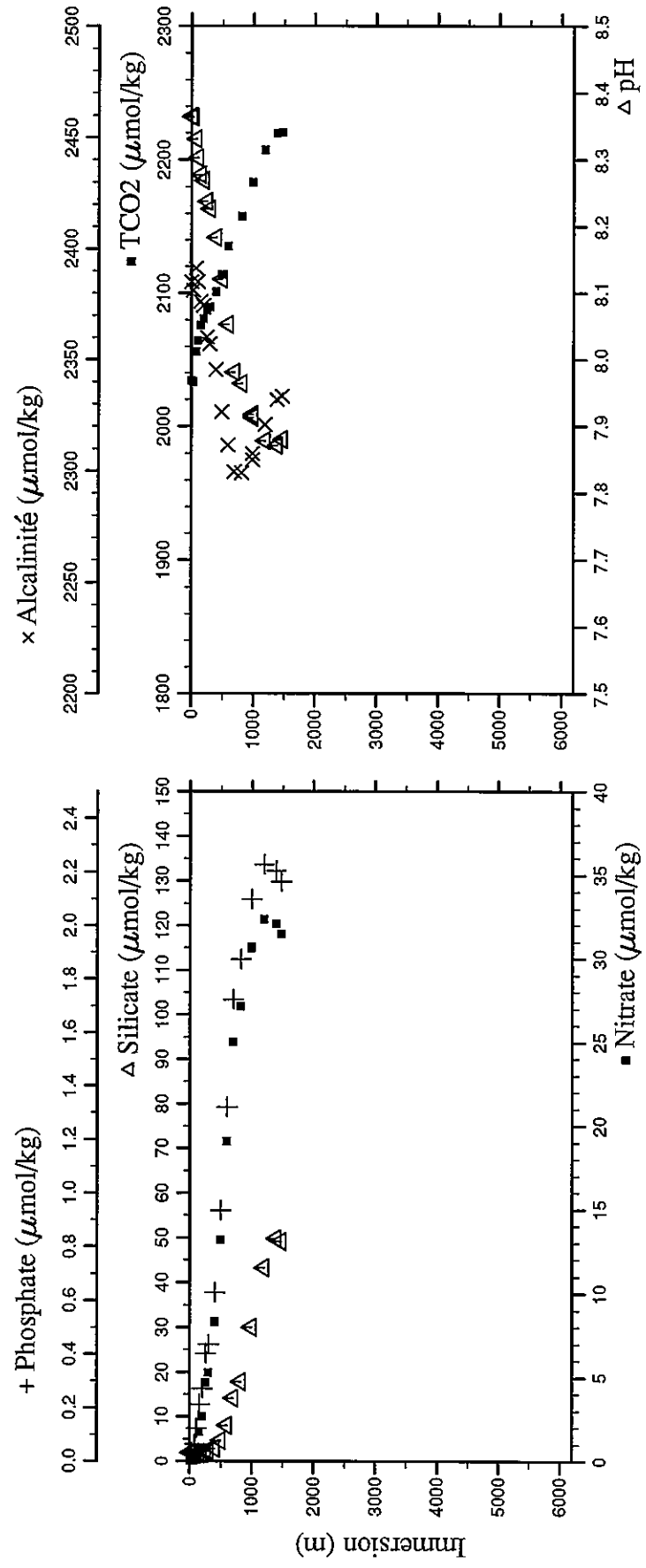
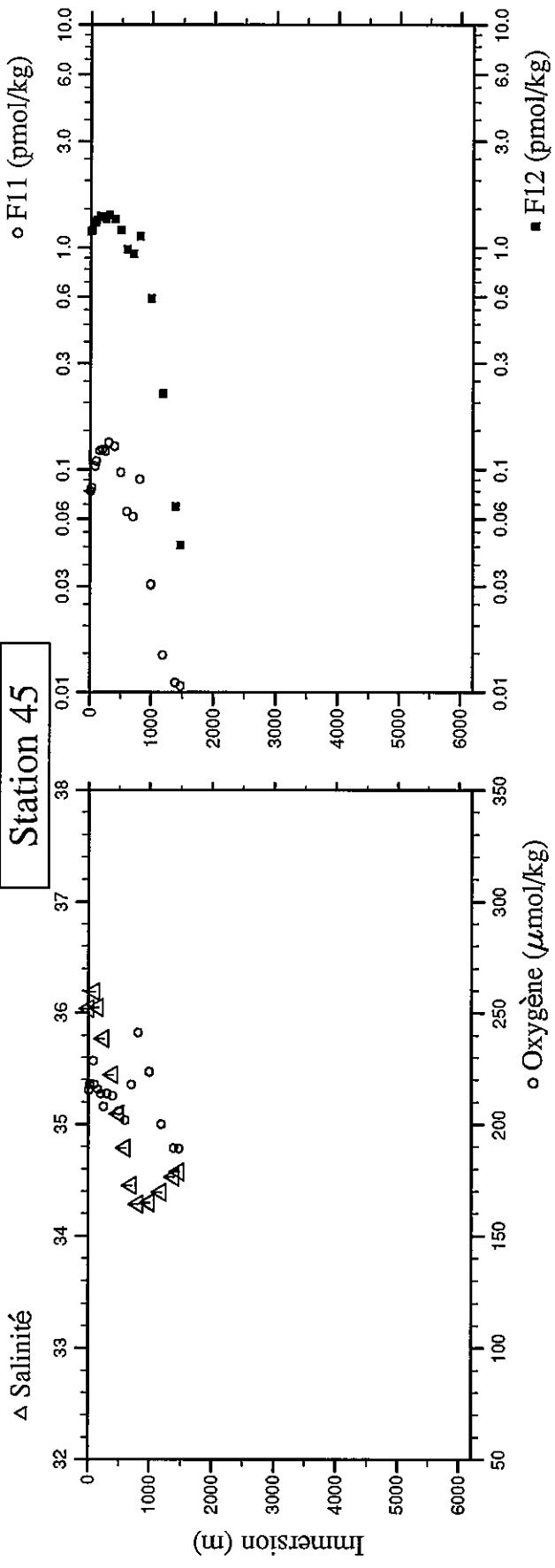
# Station 44



Station : 45 Campagne : CITHER 2  
 Date : 22-01-94 Heure : 21 h 43 mn  
 Position : S 32 36.58 W 49 46.58  
 Dernier niveau à : 1490  
 Nb prélèvements : 18

PRESSION CHIMIE	IMMERSION SONDE	TEMP.POT. deg.cels.	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	PH
dbar	metres				um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.1	4.1	23.518	24.5891	36.038	215.3	0.04	0.035	1.9	2.1094	1.1849	2033.89	2385.0	8.365
29.2	29.0	23.304	24.7695	36.043	218.0	0.04	0.035	1.9	2.1463	1.1936	2033.26	2381.3	8.364
76.8	76.2	20.499	25.9338	36.298	228.5	0.04	0.065	1.5	2.3669	1.3018	2056.28	2391.2	8.331
102.5	101.8	19.220	26.3145	36.193	217.8	0.28	0.124	1.6	2.4226	1.3302	2064.48	2385.1	8.303
153.8	152.7	17.807	26.7967	36.050	215.5	1.77	0.213	1.6	2.5274	1.3849	2076.02	2376.2	8.278
200.5	199.0	17.384	27.0836	36.018	213.7	2.66	0.273	1.7	2.5410	1.3811	2080.85	2374.3	8.269
250.7	248.8	16.229	27.3815	35.772	207.8	4.72	0.403	2.2	2.5252	1.3433	2086.88	2360.1	8.238
301.4	299.1	15.562	27.7028	35.705	213.8	5.28	0.438	2.3	2.6176	1.4000	2089.45	2357.0	8.227
400.4	397.2	14.036	28.2844	35.444	212.7	8.35	0.631	2.9	2.5755	1.3475	2100.92	2345.3	8.184
500.8	496.7	12.002	28.8874	35.092	205.8	13.18	0.935	4.6	2.3065	1.1984	2113.80	2326.4	8.121
599.3	594.2	9.661	29.5297	34.786	201.9	19.07	1.321	8.1	1.8957	0.9808	2135.32	2311.6	8.053
699.4	693.3	6.488	30.2385	34.453	217.8	25.02	1.723	14.1	1.8414	0.9361	2015.50 d	2299.6	7.981
820.3	812.9	4.736	30.9049	34.287	241.3	27.15	1.874	17.8	2.2301	1.1209	2157.81	2299.1	7.964
999.8	990.4	3.743	31.8615	34.295	223.6	30.64	2.099	30.0	1.1335	0.5893	2305.0	2305.0	7.918
1001.0	991.6	3.744	31.8684	34.299	223.5	30.70	2.099	30.1	1.1315	0.5893	2183.10	2307.8	7.913
1200.8	1188.9	3.266	32.9121	34.394	200.1	32.37	2.228	43.3	0.3921	0.2189	2207.35	2320.7	7.879
1400.7	1386.2	3.098	33.9423	34.528	189.4	32.11	2.205	49.7	0.1005	0.0684	2219.61	2332.0	7.872
1486.4	1470.7	3.101	34.3718	34.575	189.1	31.49	2.164	49.1	0.0648	0.0459	2220.67	2333.3	7.880

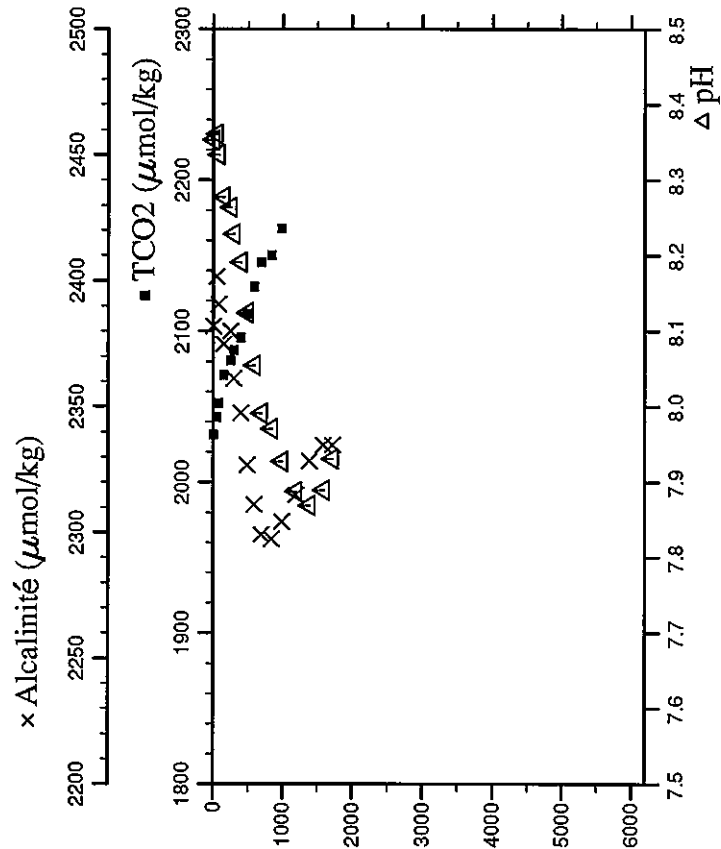
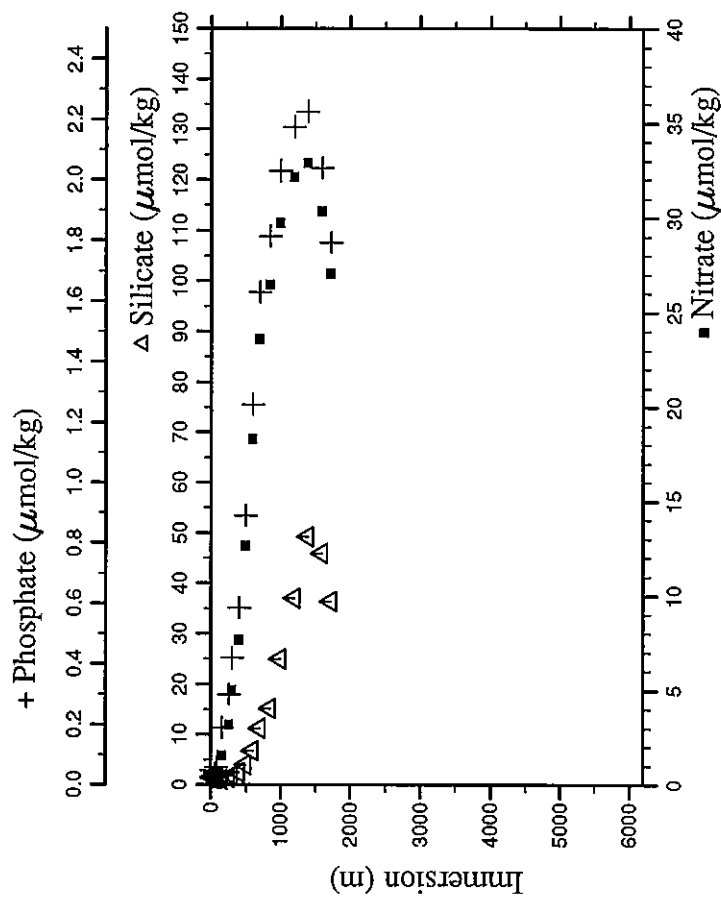
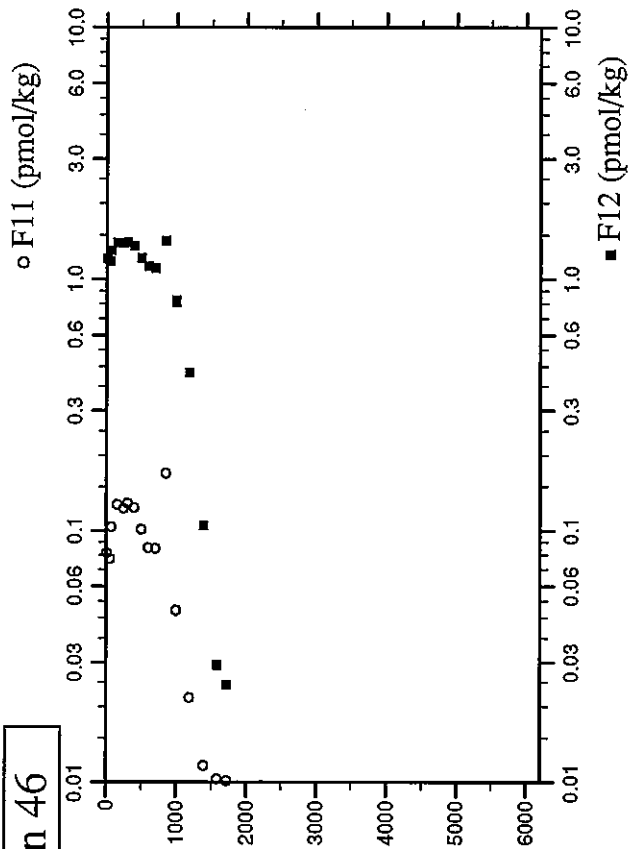
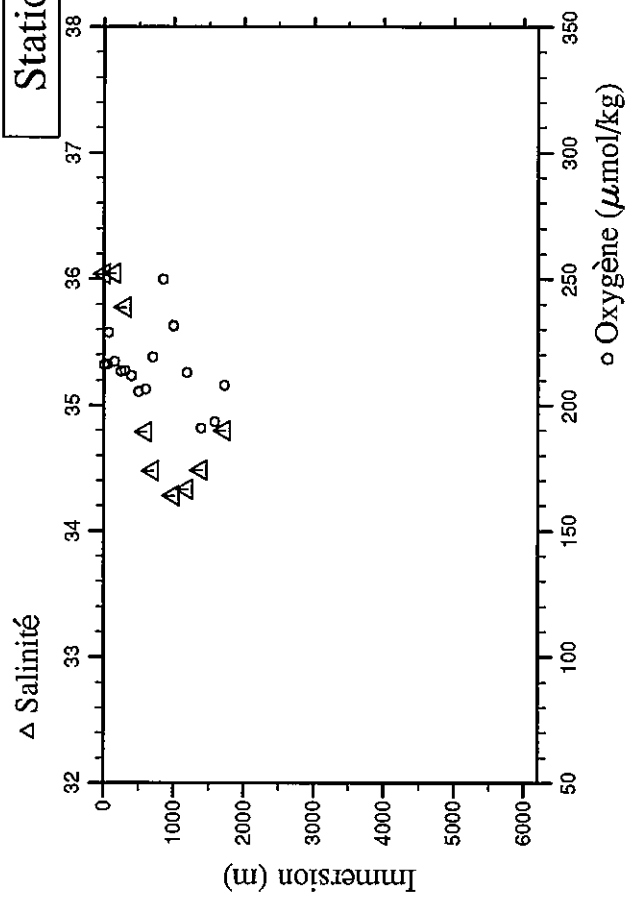
Station 45



Station : 46 Campagne : CITHER 2  
 Date : 23-01-94 Heure : 1 h 7 mn  
 Position : S 32 48.41 W 49 27.08  
 Dernier niveau à : 1736  
 Nb prélèvements : 19

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI-NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.1	4.1	23.397	24.6256	36.039	215.9	0.28	0.047	1.5	2.1239	1.2005	2031.39	2382.0	8.353
49.5	49.1	23.476	25.0814	36.409	216.2	0.12	0.039	1.2	2.0743	1.1728	2042.81	2401.5	8.361
75.8	75.3	20.517	25.9196	36.261	228.7	0.04	0.059	1.2	2.3698	1.2979	2052.28	2390.7	8.334
152.7	151.6	17.859	26.7723	36.045	217.4	1.57	0.189	1.1	2.5739	1.3957	2070.98	2374.9	8.278
252.5	250.6	17.405	27.3457	36.073	213.5	3.17	0.299	1.4	2.5394	1.3830	2080.85	2379.9	8.264
301.4	299.1	15.916	27.6839	35.777	213.7	5.02	0.420	1.8	2.5889	1.3989	2087.53	2361.2	8.229
401.3	398.1	14.463	28.2529	35.507	211.6	7.67	0.585	2.4	2.5495	1.3523	2095.86	2347.4	8.191
499.7	495.6	12.375	28.8520	35.144	205.4	12.65	0.891	4.0	2.3473	1.2140	2111.46	2326.9	8.124
599.7	594.6	9.792	29.5115	34.786	206.3	18.32	1.259	6.8	2.1714	1.1235	2129.26	2311.0	8.055
700.8	694.7	7.084	30.1804	34.478	219.1	23.58	1.631	11.2	2.1672	1.1003	2145.42	2299.2	7.991
849.6	841.9	4.785	31.0173	34.276	249.9	26.49	1.815	15.2	2.8672	1.4200	2150.15	2297.4	7.971
1000.1	990.7	4.021	31.8175	34.280	231.3	29.68	2.029	25.0	1.5921	0.8063	2167.82	2304.1	7.928
1002.3	992.9	4.012	31.8268	34.281	231.4	29.74	2.030	25.0	1.5951	0.8209			7.928
1201.9	1190.0	3.345	32.8604	34.331	212.9	32.13	2.175	37.0	0.7859	0.4251			7.888
1402.2	1387.7	3.104	33.9202	34.483	190.9	32.89	2.225	49.2	0.1584	0.1046			7.869
1601.4	1584.1	3.285	34.9471	34.665	193.4	30.35	2.038	46.0	0.0293	0.0293			7.890
1735.2	1715.9	3.468	35.6190	34.800	207.8	27.06	1.794	36.4	0.0163	0.0244			7.931

# Station 46

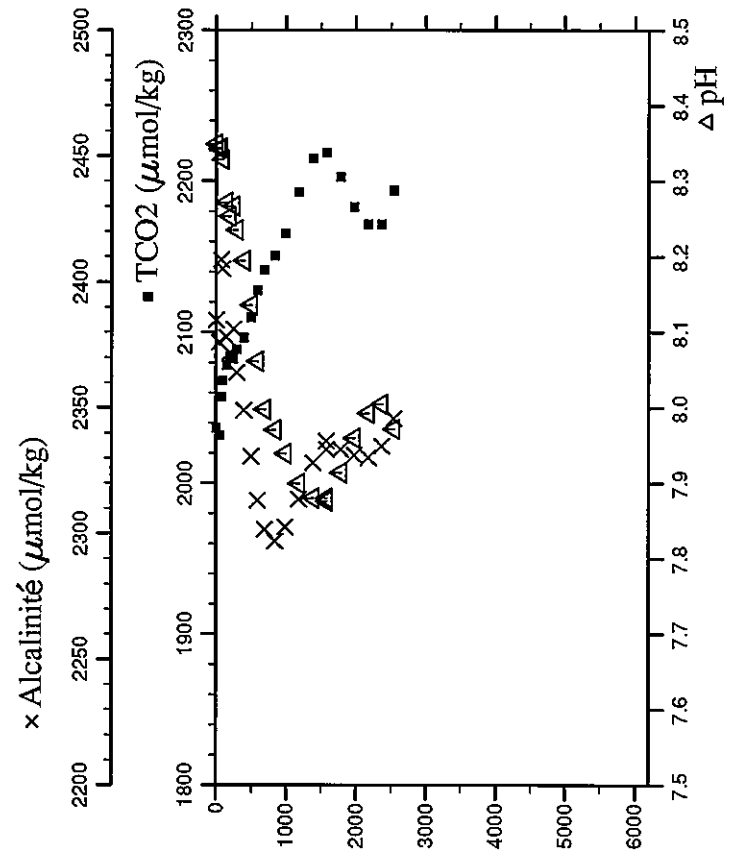
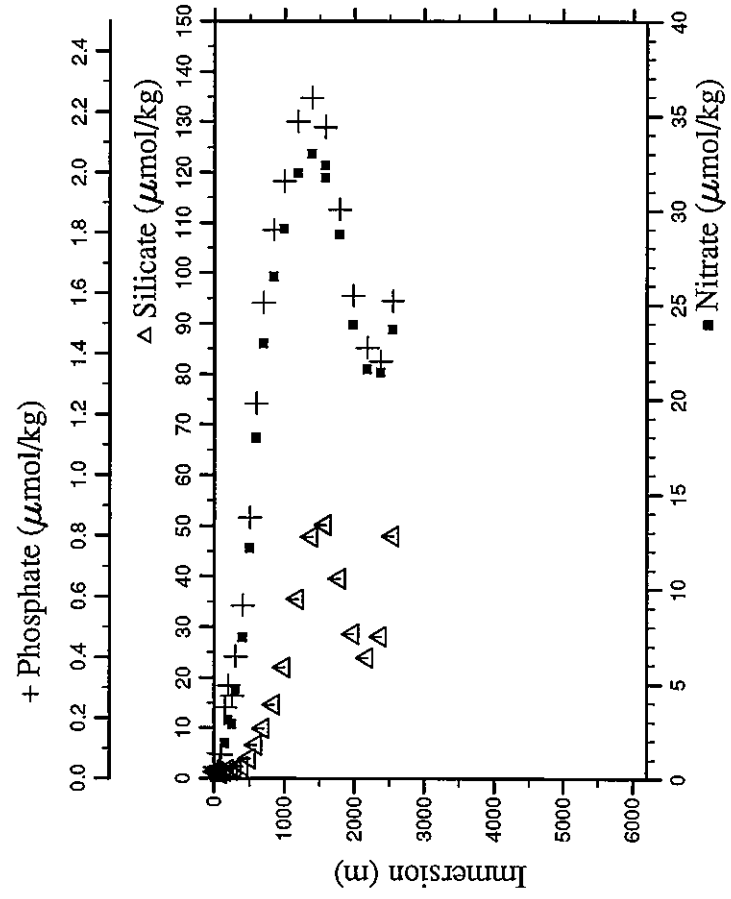
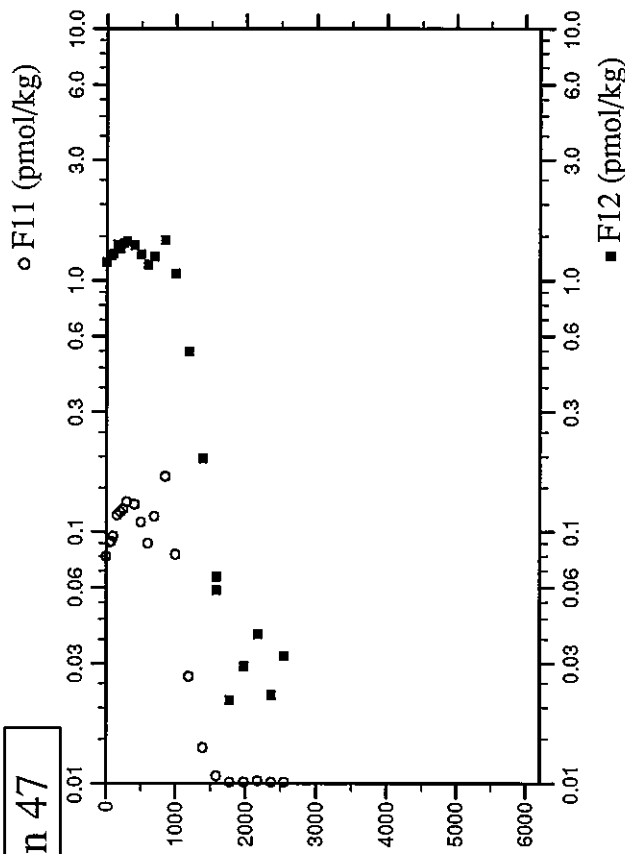
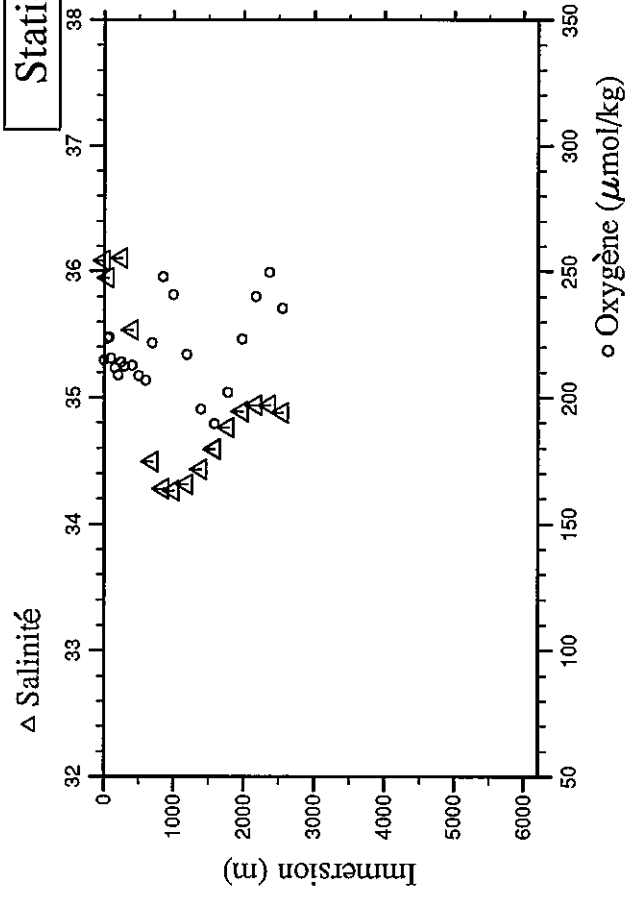


Station : 47 Campagne : CITHER 2  
 Date : 23-01-94 Heure : 4 h 52 mn  
 Position : S 33 0.61 W 49 7.99  
 Dernier niveau à : 2587  
 Nb prélèvements : 23

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGÈNE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI-	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
2.3	2.3	23.533	24.6086	36.084	214.8	0.04	0.036	1.3	2.1070	1.1800	2036.48	2384.7	8.349
50.1	49.7	22.469	25.0184	35.949	223.5	0.04	0.027	1.3	2.2359	1.2572	2031.77	2376.0	8.343
75.8	75.3	21.754	25.7738	36.558 r	224.0	0.04	0.042	1.1	2.2462	1.2566	2057.18	2408.8	8.344
101.4	100.7	20.833	26.1077	36.530 r	215.6	0.04	0.080	1.1	2.2926	1.2752	2067.88	2405.0	8.329
151.8	150.7	18.219	26.6301	36.035 r	211.8	1.85	0.237	1.5	2.4870	1.3850	2078.24	2377.8	8.272
203.1	201.6	17.392	27.0529	35.964 r	209.0	3.09	0.308	1.8	2.5163	1.3382	2083.79	2371.8	8.253
251.2	249.3	17.540	27.3257	36.106	214.0	2.89	0.275	1.6	2.5462	1.4034	2082.41	2381.2	8.267
299.3	297.0	16.193	27.6490	35.824 r	212.5	4.70	0.403	2.0	2.6104	1.4301	2088.79	2363.9	8.235
404.8	401.6	14.532	28.2640	35.535	212.7	7.44	0.571	2.5	2.5905	1.3738	2096.46	2348.9	8.195
502.8	498.6	12.455	28.8680	35.171 r	208.6	12.18	0.861	4.0	2.4229	1.2677	2109.77	2330.6	8.136
598.3	593.2	9.975	29.4879	34.803 r	206.9	17.97	1.236	6.7	2.2393	1.1566	2127.83	2313.1	8.062
698.4	692.3	7.360	30.1349	34.495	221.7	22.96	1.569	10.0	2.4755	1.2380	2141.24	2301.4	7.998
851.6	843.9	4.959	31.0126	34.279	247.8	26.46	1.811	14.7	2.8490	1.4444	2150.52	2296.9	7.971
1000.5	991.1	4.117	31.7905	34.265	240.8	29.00	1.972	22.1	2.1238	1.0653	2165.25	2302.4	7.940
1199.3	1187.4	3.378	32.8314	34.318	217.0	31.95	2.168	35.5	0.9939	0.5199	2192.72	2313.7	7.900
1399.2	1384.7	3.028	33.8757	34.434	195.3	32.97	2.247	47.9	0.3315	0.1964	2215.02	2328.2	7.880
1598.8	1581.5	3.068	34.8949	34.590	189.6	31.73	2.147	50.1	0.0713	0.0664	2218.85	2333.3	7.876
1599.3	1582.0	3.067	34.8988	34.596	189.5	32.36	2.151	50.3	0.0751	0.0586	2236.7	2336.7	7.880
1800.1	1779.7	3.406	35.8875	34.762	202.0	28.70	1.877	39.6	0.0164	0.0215	2202.70	2333.3	7.914
2002.3	1978.7	3.612	36.8592	34.889	223.1	23.93	1.592	28.6	0.0140	0.0293	2182.93	2331.1	7.960
2200.2	2173.3	3.511	37.7965	34.942	239.8	21.60	1.421	23.9	0.0229	0.0391	2171.39	2330.0	7.993
2398.4	2368.9	2.986	38.7600	34.942	249.5	21.44	1.376	28.1	0.0148	0.0225	2171.17	2334.6	8.005
2579.3	2545.5	2.422	39.5987	34.881	235.4	23.69	1.575	48.0	0.0167	0.0322	2193.66	2345.6	7.972



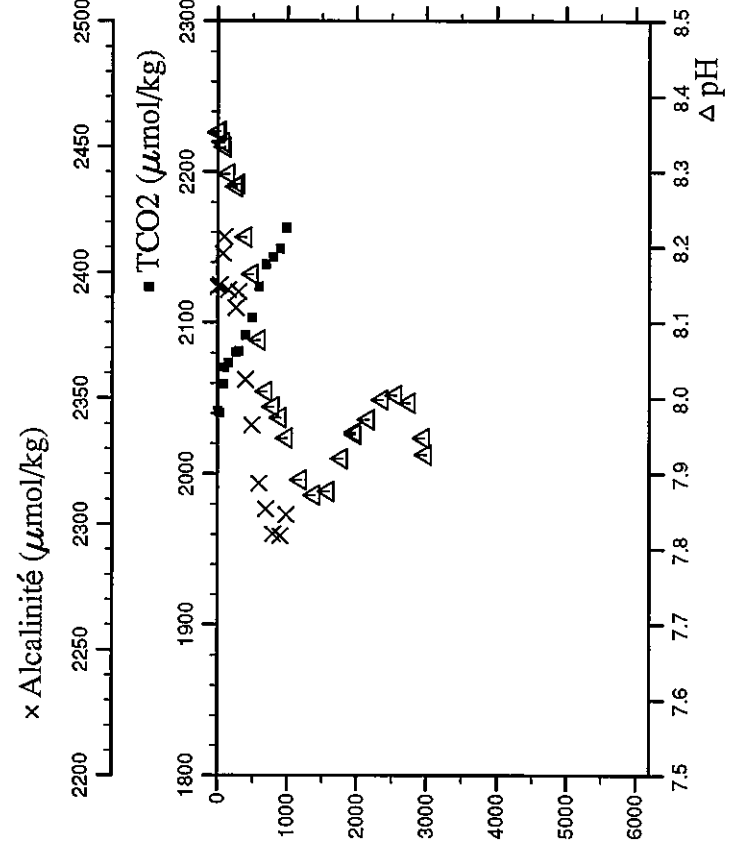
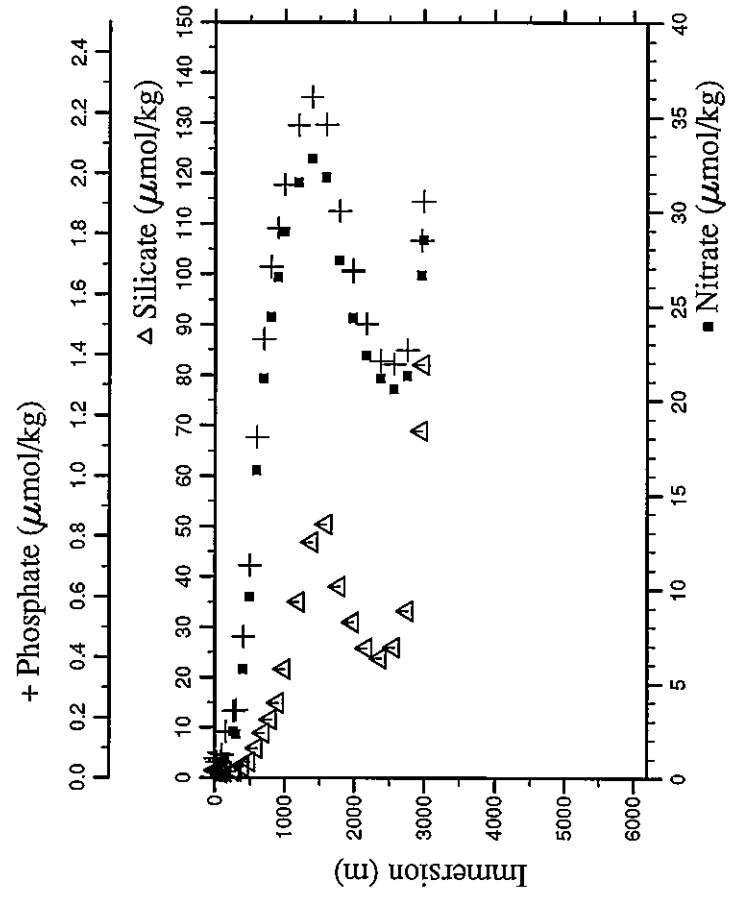
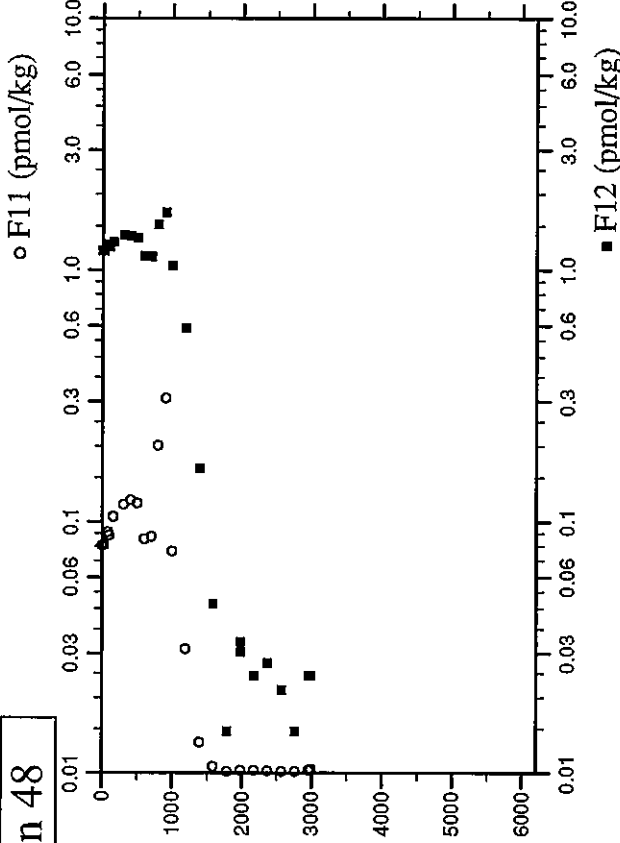
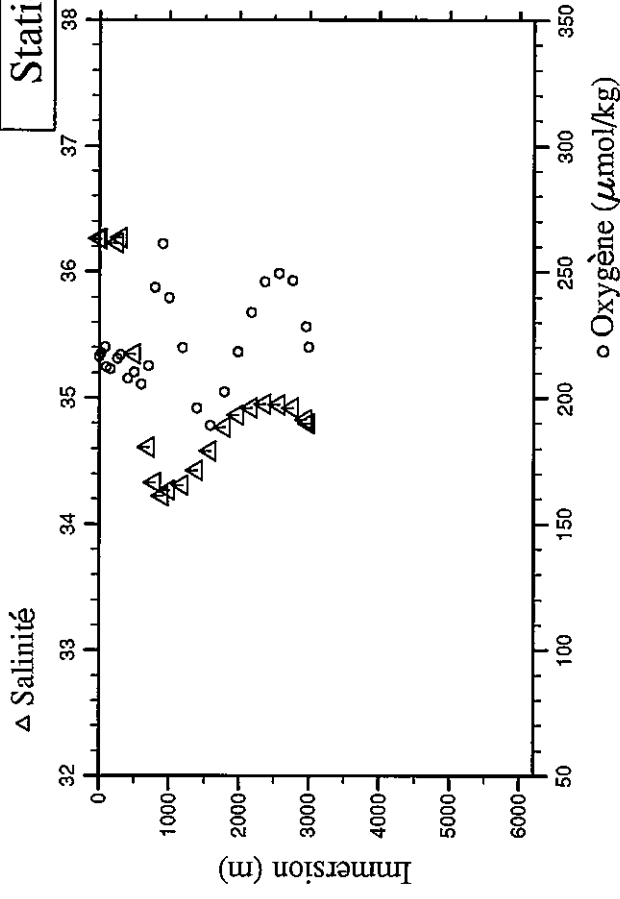
Station 47



Station : 48 Campagne : CITHR 2  
 Date : 23-01-94 Heure : 9 h 0 mn  
 Position : S 33 12.10 W 48 48.57  
 Dernier niveau à : 3039  
 Nb prélèvements : 27

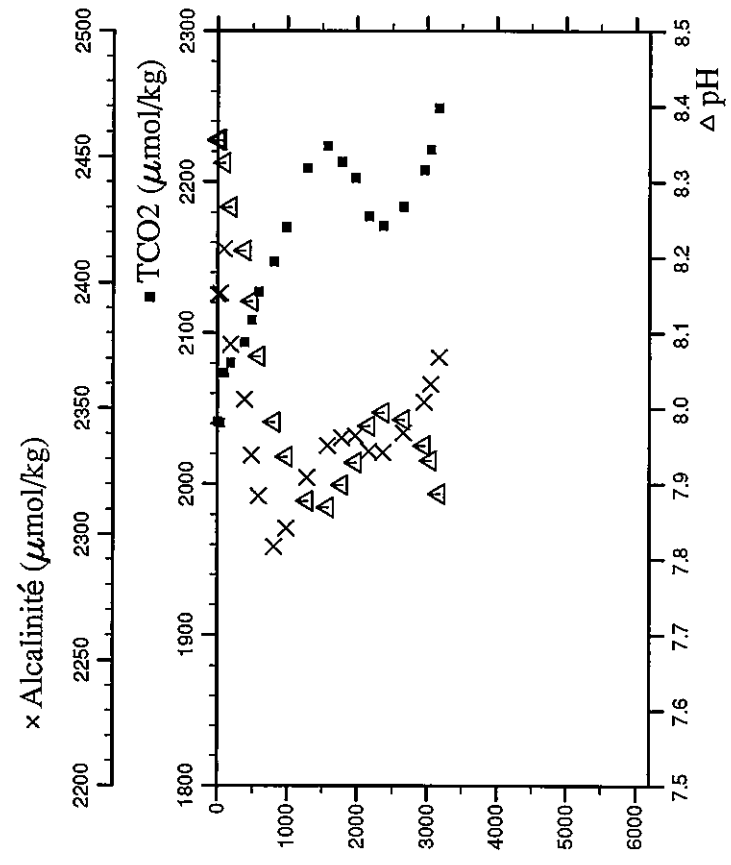
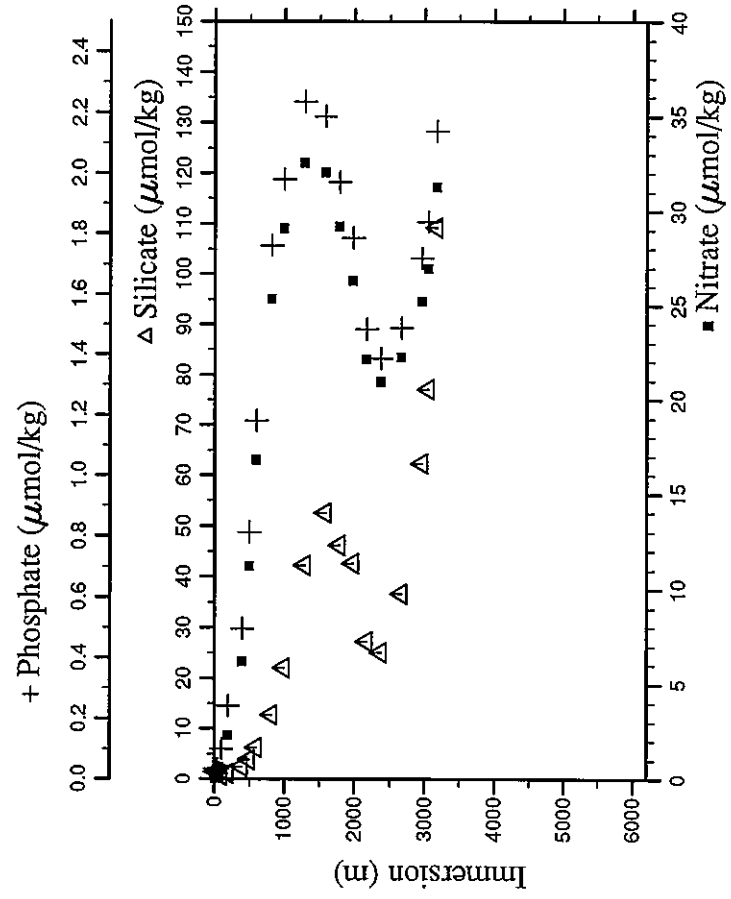
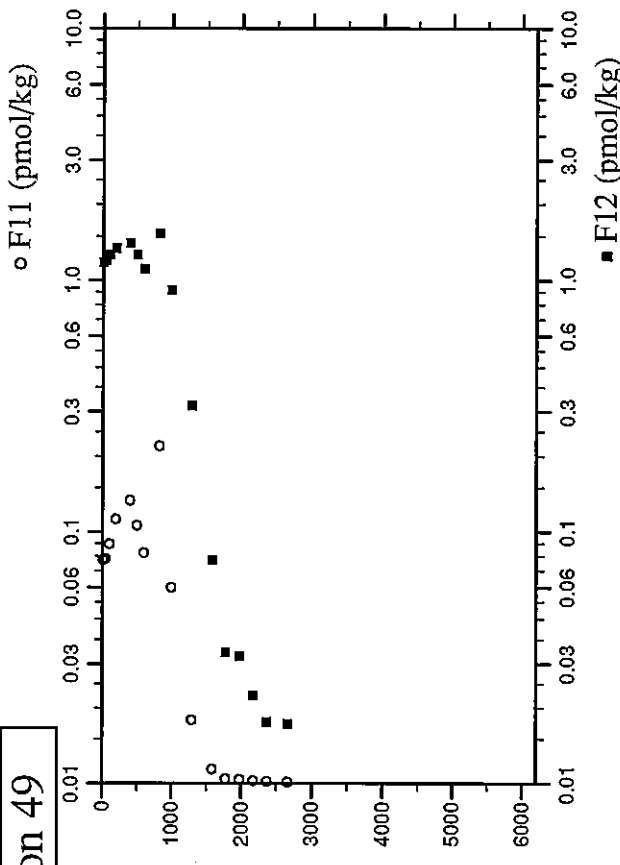
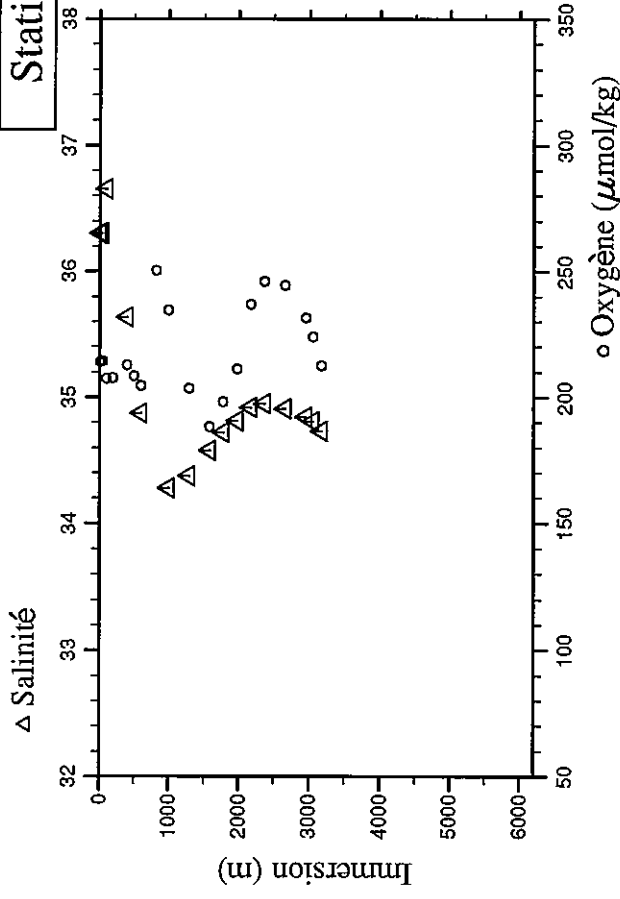
PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
2.0	2.0	23.082	24.8764	36.263	216.2	0.20	0.065	1.5	2.1127	1.1866	2041.69	2394.3	8.352
29.9	29.7	23.058	24.9981	36.257	217.9	0.12	0.053	1.3	2.1179	1.1896	2040.50	2395.0	8.354
78.0	77.4	21.687	25.8242	36.547	220.1	0.04	0.053	1.1	2.2374	1.2595	2059.40	2407.3	8.339
101.4	100.7	21.543	26.0567	36.672	212.1	0.12	0.077	1.0	2.2067	1.2341	2070.33	2414.1	8.333
151.0	149.9	19.584	26.4973	36.303	211.4	1.09	0.154	1.2	2.3813	1.2940	2073.34	2392.9	8.297
260.3	258.3	17.997	27.3397	36.226	215.5	2.46	0.222	1.3			2080.19	2385.9	8.280
300.6	298.3	18.092	27.5246	36.270	217.1	2.30	0.225	1.3	2.4957	1.3789	2080.94	2392.1	8.284
403.9	400.7	15.513	28.1220	35.679	207.7	5.76	0.468	2.2	2.5337	1.3639	2091.70	2357.3	8.213
500.7	496.6	13.534	28.7588	35.346	210.1	9.59	0.705	3.2	2.5065	1.3398	2103.15	2339.2	8.164
601.5	596.4	10.597	29.4428	34.902	205.4	16.32	1.128	5.9	2.1745	1.1380	2123.90	2316.2	8.077
702.3	696.2	8.258	30.0941	34.610	212.8	21.16	1.453	9.0	2.1997	1.1285	2138.80	2305.9	8.009
799.5	792.3	5.848	30.6960	34.330	243.7	24.42	1.691	11.6	3.0379	1.5167	2143.21	2296.0	7.989
909.6	901.2	4.493	31.2976	34.226	261.1	26.51	1.819	14.9	3.4761	1.6908	2148.74	2295.2	7.974
1002.1	992.6	4.231	31.7882	34.271	239.6	28.91	1.962	21.6	2.0626	1.0379	2162.89	2303.6	7.947
1200.4	1188.5	3.349	32.8363	34.312	219.8	31.51	2.160	35.0	1.1538	0.5864			7.892
1399.9	1385.3	3.106	33.8617	34.429	196.0	32.79	2.254	46.8	0.2872	0.1622			7.872
1602.6	1585.2	3.078	34.9038	34.579	189.1	31.78	2.162	50.4	0.0629	0.0469			7.877
1801.0	1780.6	3.468	35.8878	34.770	202.3	27.40	1.876	38.1	0.0137	0.0147			7.920
1998.8	1975.2	3.581	36.8290	34.863	218.1	24.35	1.675	31.0	0.0235	0.0303			7.952
2000.8	1977.2	3.567	36.8397	34.867	218.4	24.36	1.680	31.1	0.0274	0.0332			7.955
2199.4	2172.4	3.539	37.7715	34.922	233.7	22.38	1.503	25.9	0.0228	0.0244			7.972
2399.0	2368.5	3.342	38.7099	34.951	245.9	21.15	1.380	23.8	0.0213	0.0274			7.998
2600.9	2566.6	3.092	39.6380	34.947	249.2	20.56	1.369	26.0	0.0163	0.0215			8.004
2798.5	2760.4	2.761	40.5433	34.922	246.5	21.29	1.417	33.2	0.0159	0.0147			7.994
3000.0	2957.7	1.797	41.5106	34.828	228.2	26.61	1.778	68.9	0.0264	0.0244			7.947
3033.2	2990.2	1.531	41.6743	34.797	220.1	28.47	1.908	82.1	0.0384	0.0244			7.925

Station 48





# Station 49



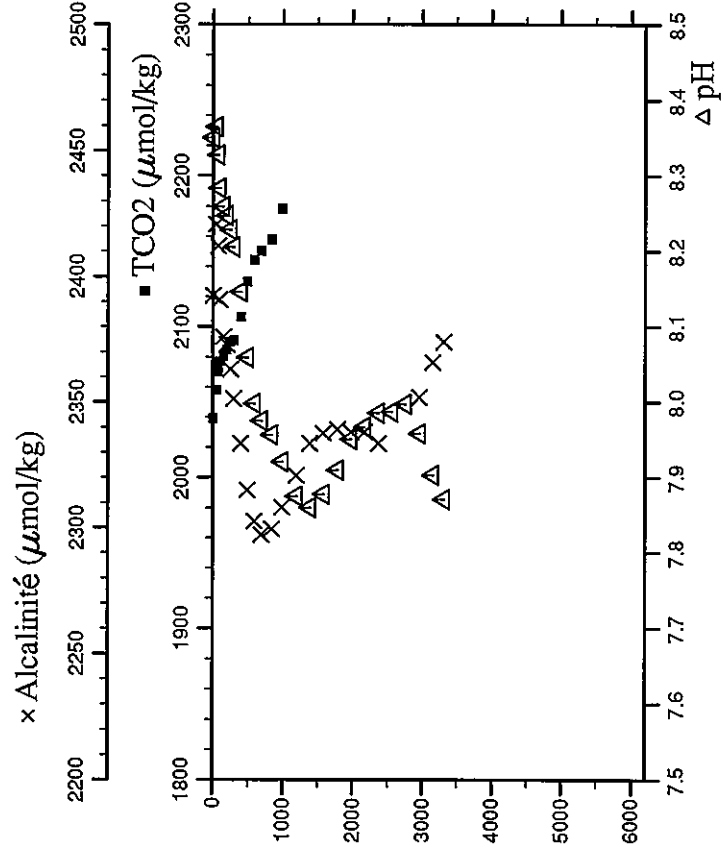
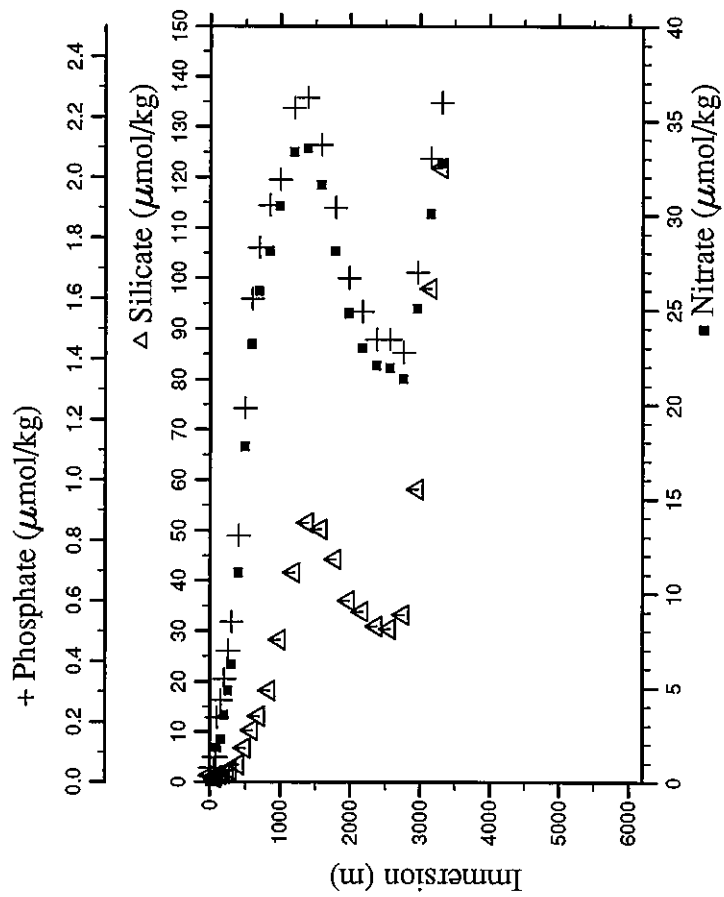
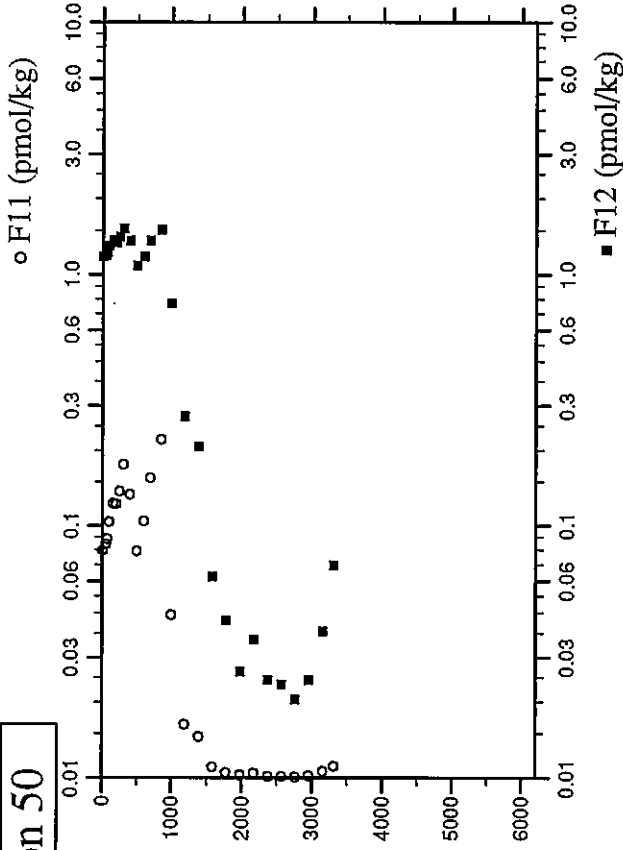
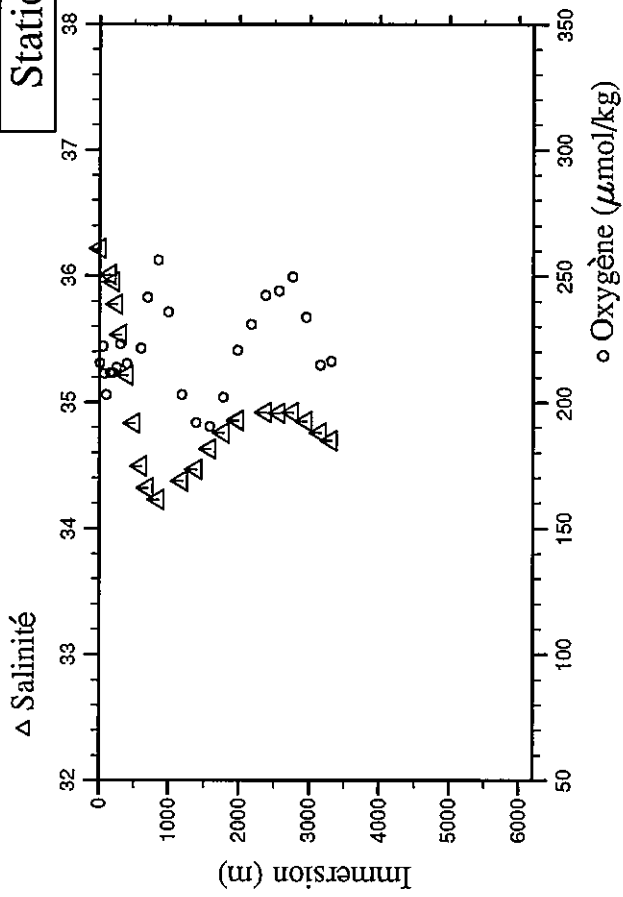
Station : 49 Campagne : CITHER 2  
 Date : 23-01-94 Heure : 13 h 2 mn  
 Position : S 33 24.33 W 48 28.01  
 Dernier niveau à : 3226  
 Nb prélèvements : 19

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.3	5.3	23.477	24.8015	36.303	214.1	0.04	0.035	1.4	2.0735	1.1788	2041.39	2395.1	8.356
41.2	40.9	23.407	24.9744	36.303	214.2	0.04	0.035	1.3	2.0832	1.1954	2040.21	2395.7	8.356
100.4	99.7	21.326	26.0948	36.657	207.4	0.53	0.101	0.7	2.2210	1.2624	2073.58	2413.2	8.325
191.5	190.1	18.014	26.8844	36.047	207.6	r	0.243	1.1	2.4548	1.3381	2080.10	2375.3	8.267
394.7	391.5	15.204	28.1525	35.639	212.7	6.19	0.497	2.4	2.6234	1.3981	2093.60	2353.5	8.209
500.0	495.9	12.921	28.8204	35.243	208.3	r	0.812	3.8	2.3942	1.2617	2108.49	2331.3	8.142
600.7	595.6	10.395	29.4679	34.876	204.6		1.181	6.3	2.1375	1.1068	2127.11	2315.0	8.069
821.0	813.6	5.160	30.8399	34.288	250.4	r	1.762	12.8	3.1298	1.5295	2147.23	2294.9	7.982
1000.6	991.1	4.234	31.7873	34.281	234.7		1.980	22.1	1.8167	0.9128	2170.04	2302.4	7.936
1299.3	1286.1	3.134	33.3626	34.375	203.5		2.237	42.3	0.5884	0.3166	2209.11	2322.4	7.869
1599.6	1582.2	2.959	34.9041	34.578	188.3		2.187	52.6	0.1344	0.0772	2224.00	2335.2	7.899
1799.1	1778.7	3.200	35.8842	34.724	198.2		1.971	46.2	0.0446	0.0332	2213.10	2338.2	7.929
1998.7	1975.1	3.167	36.8526	34.816	211.2		1.787	42.6	0.0349	0.0322	2202.78	2339.0	7.977
2198.8	2171.8	3.408	37.7890	34.923	236.8		1.483	27.2	0.0236	0.0225	2177.15	2332.8	7.995
2399.0	2368.5	3.258	38.7192	34.951	246.0		1.387	25.1	0.0175	0.0176	2170.73	2332.3	7.985
2698.9	2662.7	2.727	40.1020	34.911	244.6		1.488	36.7	0.0117		2183.56	2340.4	7.951
2999.3	2957.0	1.986	41.4918	34.844	231.5		1.719	62.4			2207.98	2352.6	7.931
3098.2	3053.8	1.645	41.9551	34.810	224.0		1.839	77.1			2221.53	2359.5	7.887
3223.8	3176.7	0.849	42.5720	34.732	212.5		2.138	109.3			2248.91	2370.2	

Station : 50 Campagne : CITHER 2  
 Date : 23-01-94 Heure : 17 h 57 mn  
 Position : S 33 36.15 W 48 9.34  
 Dernier niveau à : 3372  
 Nb prélèvements : 27

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.1	7.0	23.282	24.8037	36.217	215.6	0.04	0.047	1.3	2.1048	1.1789	2039.00	2392.3	8.351
50.0	49.6	23.061	25.4755	36.750	r 222.2	0.04	0.047	1.0	2.1619	1.1930	2057.70	2420.6	8.365
76.7	76.1	21.468	25.9560	36.667	r 211.5	0.12	0.083	1.0	2.2071	1.2273	2069.96	2412.0	8.328
100.1	99.4	19.490	26.2989	36.285	r 203.1	1.82	0.215	1.3	2.3708	1.2998	2076.98	2390.5	8.284
152.0	150.9	17.685	26.7850	36.010	211.8	2.27	0.271	1.5	2.5427	1.3694	2080.09	2375.9	8.259
199.9	198.4	17.038	27.1087	35.955	211.6	3.56	0.342	1.7	2.5350	1.3411	2085.06	2372.9	8.247
251.5	249.6	15.968	27.4514	35.775	213.6	4.83	0.436	2.0	2.6518	1.4106	2090.03	2363.0	8.229
302.3	299.9	14.689	27.7805	35.534	223.1	6.23	0.530	2.3	2.9052	1.5192	2090.73	2351.2	8.206
400.9	397.7	12.740	28.3939	35.217	215.3	11.10	0.816	3.5	2.6230	1.3643	2106.33	2333.4	8.146
500.7	496.5	10.120	29.0460	34.836	204.1	r 17.76	1.238	6.8	2.0970	1.0804	2129.88	2314.9	8.059
599.7	594.6	7.284	29.7001	34.492	221.4	23.19	1.598	10.3	2.3748	1.1765	2144.03	2302.3	7.998
698.8	692.7	5.523	30.2702	34.320	241.4	25.98	1.767	13.2	2.7799	1.3594	2150.19	2297.0	7.975
849.7	841.9	4.142	31.0699	34.227	256.3	28.11	1.907	18.2	3.1326	1.5031	2157.72	2299.4	7.957
999.4	989.9	3.671	31.8542		235.7	30.47	1.993	28.3	1.5102	0.7652	2178.22	2308.0	7.921
1199.9	1188.0	3.223	32.9003	34.375	203.0	33.31	2.230	41.6	0.4963	0.2717		2320.7	7.875
1400.3	1385.7	2.887	33.9242	34.467	191.8	33.54	2.264	51.5	0.3828	0.2062		2333.3	7.860
1600.7	1583.3	3.050	34.9360	34.632	190.3	31.59	2.106	50.3	0.1038	0.0625		2337.6	7.878
1800.1	1779.6	3.178	35.9151	34.760	202.1	28.09	1.899	44.3	0.0480	0.0420		2339.1	7.910
2000.7	1977.0	3.281	36.8783	34.858	220.6	24.78	1.668	36.0	0.0301	0.0264		2338.0	7.951
2001.3	1977.6	3.286	36.8806	34.857	220.6	24.81	1.667	36.0	0.0265	0.0264			7.951
2198.2	2171.2	3.180	37.8016	34.904	230.7	22.99	1.557	33.8	0.0432	0.0352		2337.9	7.967
2400.4	2369.8	3.042	38.7410	34.921	242.1	22.07	1.465	31.0	0.0154	0.0244		2333.4	7.985
2599.0	2564.7	2.818	39.6525	34.916	244.0	21.93	1.465	30.4	0.0109	0.0234			7.987
2799.9	2761.6	2.666	40.5661	34.922	249.5	21.34	1.422	33.2	0.0063	0.0205			7.997
2998.2	2955.9	2.021	41.4840	34.851	233.6	25.05	1.686	58.1	0.0213	0.0244		2351.8	7.958
3199.6	3153.0	1.146	42.4362	34.756	214.7	30.07	2.063	97.9	0.0620	0.0381		2365.6	7.903
3364.7	3314.4	0.278	43.2477	34.695	216.3	32.76	2.246	121.8	0.1100	0.0694		2373.9	7.871

# Station 50

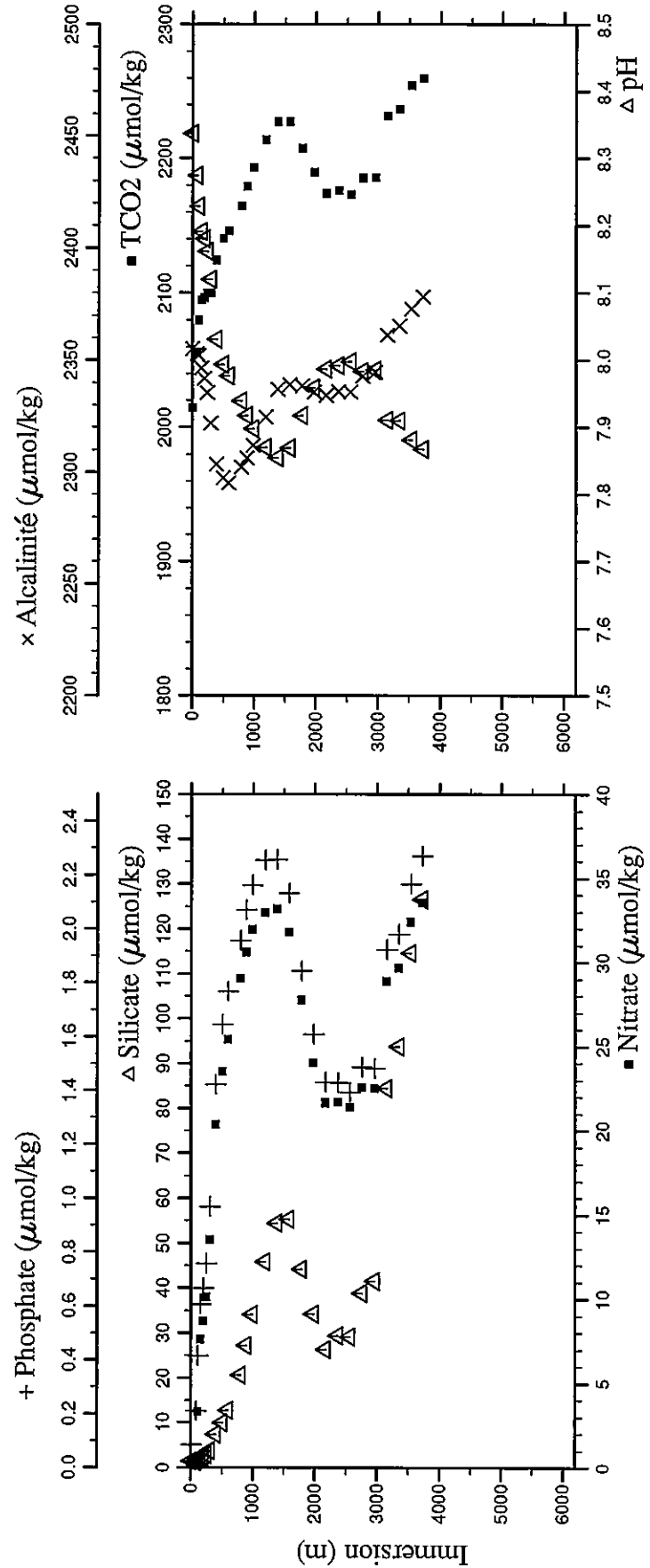
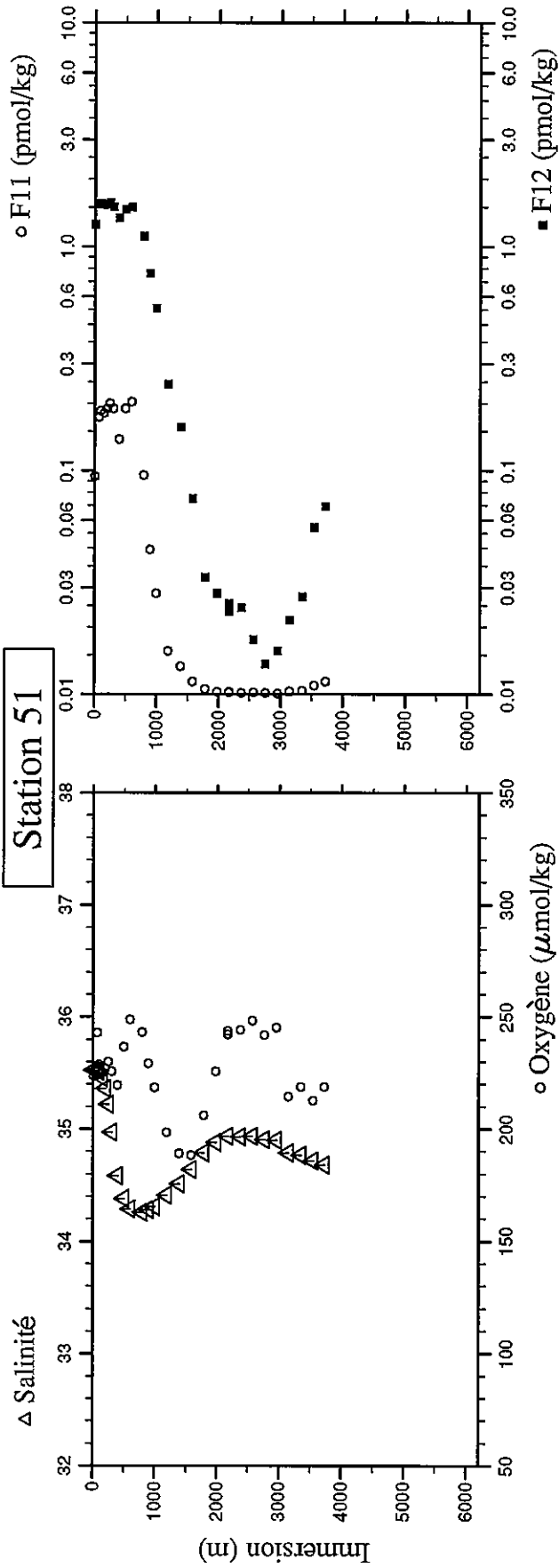




Station : 51 Campagne : CITHER 2  
 Date : 23-01-94 Heure : 22 h 20 mn  
 Position : S 33 48.32 W 47 51.05  
 Dernier niveau à : 3799  
 Nb prélèvements : 29

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
6.6	6.6	21.922	24.6649	35.526	223.7	0.21	0.085	1.5	2.2755	1.2556	2014.64	2355.1	8.337
76.6	76.0	16.621	26.3389	35.522	242.9	0.12	0.210	1.3	2.8901	1.5388	2056.18	2352.8	8.274
102.1	101.3	15.345	26.7365	35.513	228.7	3.33	0.417	1.7	2.9575	1.5573	2079.95	2352.1	8.229
152.2	151.1	13.992	27.2081	35.453	225.1	7.62	0.607	2.3	2.9331	1.5311	2094.54	2346.4	8.191
201.8	200.3	13.391	27.4894	35.365	227.0	8.70	0.666	2.5	2.9776	1.5360	2096.30	2341.8	8.180
249.8	247.9	12.633	27.7504	35.223	229.9	10.12	0.758	2.8	3.0312	1.5645	2099.75	2335.5	8.162
299.9	297.5	11.211	28.0600	34.972	225.7	13.54	0.968	3.7	2.9798	1.5052	2099.53	2321.8	8.120
398.4	395.2	8.437	28.6877	34.586	219.6	20.37	1.422	7.4	2.6578	1.3347	2124.44	2303.4	8.031
501.2	497.0	6.457	29.2895	34.382	236.6	23.54	1.645	10.0	2.9817	1.4629	2140.54	2297.3	7.994
602.4	597.2	5.295	29.8408	34.292	248.9	25.42	1.768	12.7	3.0530	1.4952	2145.92	2294.9	7.977
801.1	793.9	4.200	30.8668	34.262	243.1	29.05	1.957	20.6	2.2878	1.1102	2164.53	2302.1	7.940
898.1	889.8	3.817	31.3757	34.284	229.2	30.61	2.071	27.2	1.5086	0.7562	2178.91	2306.2	7.918
999.7	990.2	3.438	31.9090	34.313	218.5	31.96	2.161	34.1	1.0499	0.5295	2192.84	2311.9	7.898
1201.2	1189.2	3.069	32.9502	34.410	198.5	32.94	2.256	45.8	0.4558	0.2442	2213.61	2324.5	7.870
1399.6	1385.0	2.814	33.9646	34.516	189.1	33.20	2.258	54.5	0.2956	0.1563	2227.43	2336.9	7.855
1600.7	1583.2	2.882	34.9714	34.643	188.4	31.78	2.133	55.4	0.1344	0.0752	2227.12	2339.1	7.869
1800.5	1780.0	3.150	35.9447	34.788	206.1	27.76	1.844	44.1	0.0552	0.0332	2207.17	2338.4	7.918
1999.6	1975.9	3.282	36.8868	34.879	225.8	24.03	1.609	34.3	0.0254	0.0283	2189.54	2335.7	7.959
2198.0	2171.0	3.308	37.8102	34.936	242.3	21.64	1.431	26.3	0.0228	0.0234	2173.95	2334.1	7.987
2199.8	2172.7	3.306	37.8186	34.935	243.6	21.68	1.430	26.4	0.0225	0.0254	2173.95	2334.1	7.987
2401.2	2370.5	3.070	38.7428	34.930	244.3	21.68	1.428	29.4	0.0140	0.0244	2176.01	2335.9	7.992
2600.1	2565.7	2.917	39.6509	34.936	248.4	21.39	1.393	29.1	0.0193	0.0176	2173.05	2335.8	7.998
2800.4	2762.1	2.608	40.5600	34.907	241.9	22.58	1.487	38.8	0.0118	0.0137	2185.19	2342.8	7.984
2999.9	2957.5	2.396	41.4694	34.898	245.2	22.52	1.481	41.5	0.0095	0.0156	2185.60	2344.7	7.985
3197.1	3150.5	1.596	42.3756	34.787	214.4	28.88	1.923	84.4	0.0314	0.0215	2231.40	2361.1	7.911
3399.8	3348.7	1.202	43.3141	34.767	218.8	29.65	1.979	93.7	0.0273	0.0273	2236.54	2365.1	7.910
3595.5	3539.8	0.640	44.2191	34.718	212.7	32.40	2.166	114.6	0.0901	0.0557	2254.28	2372.9	7.881
3787.9	3727.6	0.054	45.1296	34.682	218.7	33.55	2.270	126.5	0.1298	0.0693	2259.97	2378.2	7.868

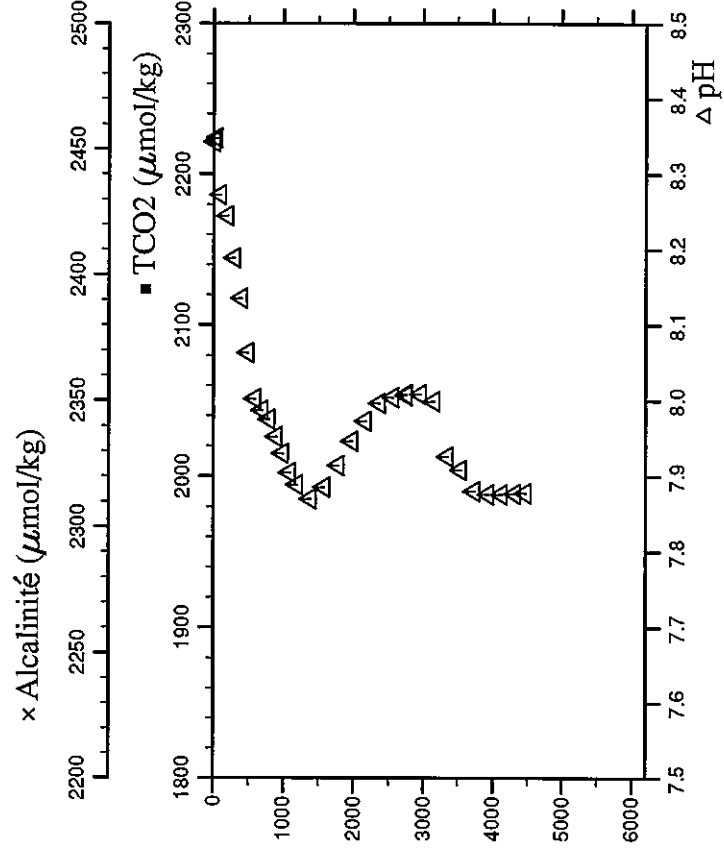
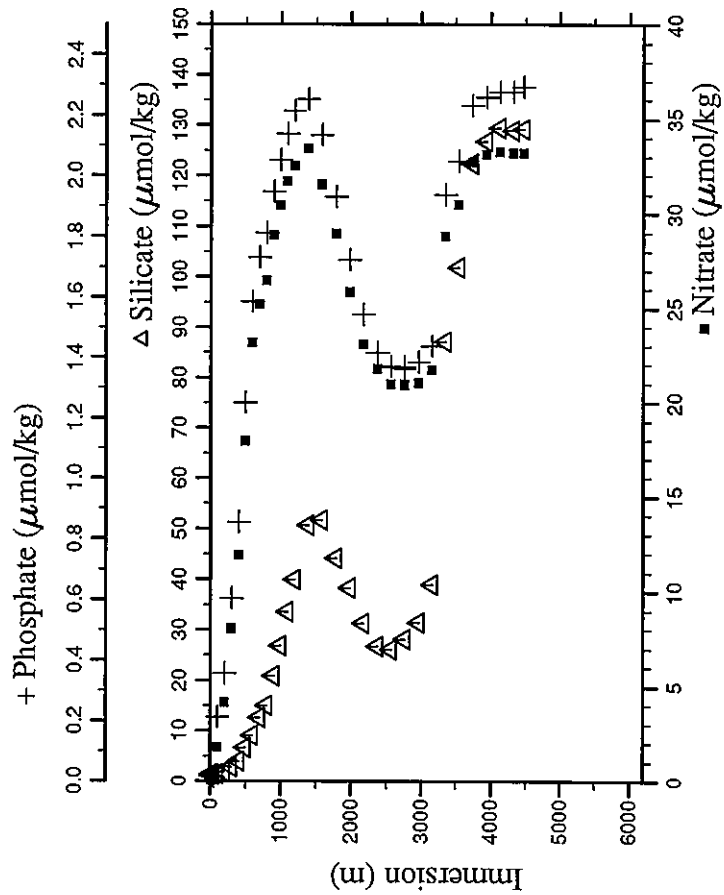
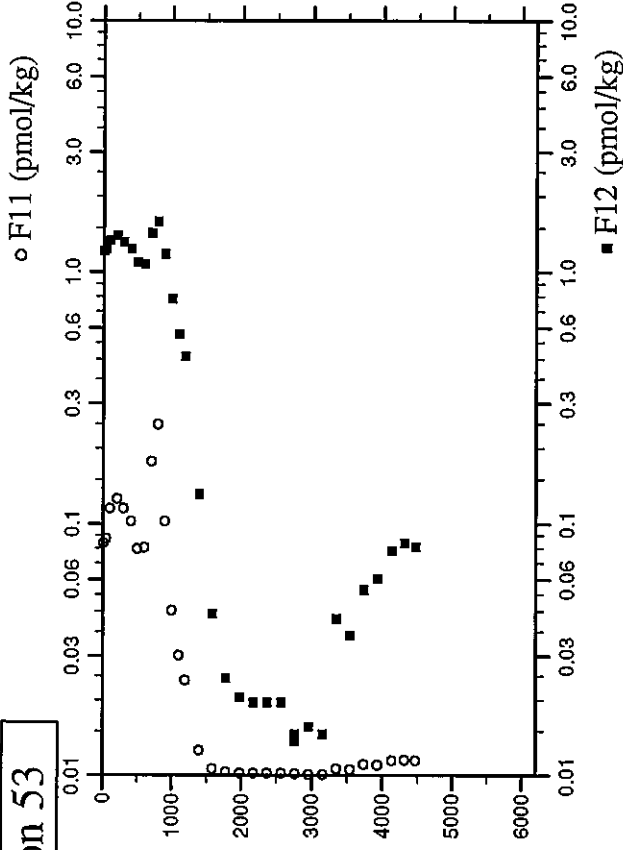
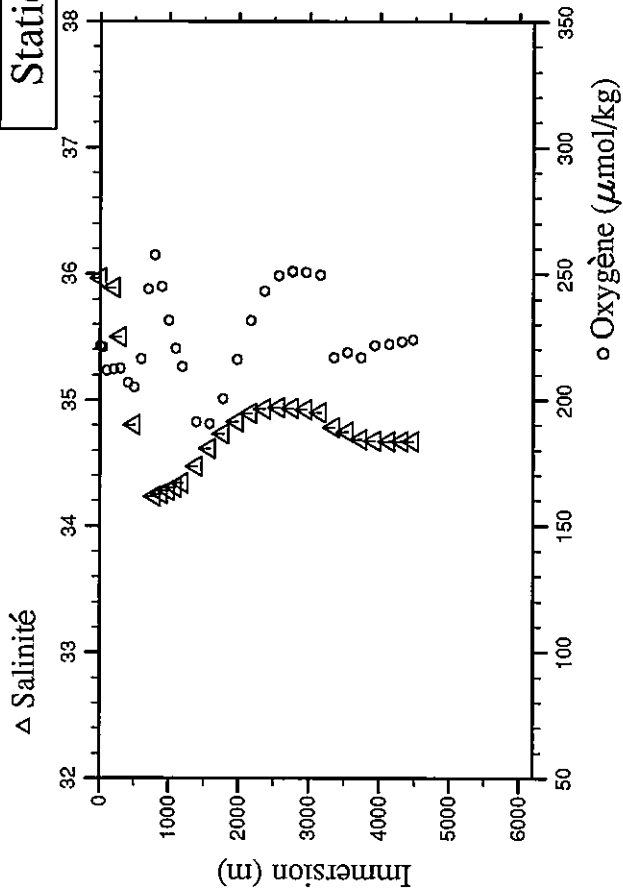
# Station 51



Station : 55 Campagne : CITHER 2  
 Date : 25-01-94 Heure : 0 h 46 mn  
 Position : S 34 53.95 W 46 2.40  
 Dernier niveau à : 4811  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
2.8	2.8	21.064	25.0251	35.705	226.1	r 0.00	0.054	1.4	2.3739	1.3176			8.329
30.4	30.2	20.965	25.1705	35.718	r 228.1	r 0.00	0.054	1.4	2.3851	1.3234			8.329
110.1	109.3	17.865	26.6764	36.163	213.4		0.251	1.2	2.5636	1.3981			8.270
200.5	199.0	16.057	27.2335	35.807	213.7	4.62	0.406	1.8	2.6167	1.4112			8.232
300.6	298.2	15.212	27.7873	35.703	221.5	5.47	0.460	2.0	2.7181	1.4513			8.220
400.3	397.0	13.548	28.3431	35.376	215.9	8.87	0.686	2.9	2.6455	1.3921			8.169
501.2	497.0	10.850	28.9705	34.912	210.3	15.28	1.093	5.1	2.4557	1.2715			8.092
602.5	597.3	8.021	29.6521	34.561	217.8	21.14	1.485	8.7					8.019
701.6	695.4	6.052	30.2461	34.361	235.8	r 24.11	1.704	11.7	2.5261	1.2827			7.984
800.9	793.6	5.187	30.7632	34.292	245.7	r 25.59	1.784	13.7	2.8029	1.3844			7.975
901.3	892.9	4.677	31.2605	34.257	251.9	r 26.38	1.842	15.6	2.9169	1.4284			7.968
1000.4	990.8	4.111	31.7625	34.224	258.9	27.18	1.895	17.9	3.1794	1.5535			7.960
1199.8	1187.7	3.439	32.8113	34.292	225.2	31.09	2.130	31.9	1.3481	0.6819			7.911
1401.1	1386.3	2.865	33.8689	34.384	203.5	32.89	2.256	47.1	0.8219	0.4250			7.870
1601.4	1583.8	2.694	34.8870	34.495	187.4	33.21	2.288	57.8	0.4684	0.2462			7.855
1800.4	1779.7	2.729	35.8709	34.616	185.6	32.10	2.201	60.1	0.2251	0.1201			7.863
1999.9	1976.0	3.165	36.8427	34.792	207.8	26.98	1.836	43.2	0.0488	0.0342			7.924
2201.5	2174.2	3.260	37.7937	34.879	226.0	23.58	1.607	34.3	0.0355	0.0283			7.959
2400.0	2369.1	3.042	38.7236	34.900	234.6	22.81	1.543	35.0	0.0312	0.0215			7.974
2598.9	2564.3	2.800	39.6362	34.889	234.7	22.82	1.553	39.2	0.0265	0.0205			7.973
2600.1	2565.5	2.797	39.6413	34.891	234.7	22.22	1.553	39.0	0.0258	0.0186			7.981
2799.6	2761.0	2.651	40.5499	34.901	241.5	22.90	1.500	38.2	0.0203	0.0186			7.975
2998.5	2955.8	2.418	41.4487	34.884	239.4	22.91	1.556	44.4	0.0230	0.0156			7.967
3200.1	3153.1	2.071	42.3719	34.857	235.5	23.80	1.638	54.7	0.0248	0.0234			7.909
3399.2	3347.8	1.298	43.2940	34.761	213.0	29.64	2.017	93.8	0.0541	0.0332			7.889
3599.6	3543.5	0.909	44.2069	34.731	208.4	31.23	2.137	107.5	0.0900	0.0479			7.889
3800.1	3739.2	0.647	45.1115	34.712	211.2	31.87	2.186	114.2	0.1030	0.0615			7.881
3998.4	3932.5	0.300	46.0149	34.690	215.1	32.51	2.233	121.2	0.1196	0.0684			7.880
4198.9	4127.8	0.073	46.9144	34.681	219.2	32.83	2.260	124.2	0.1180	0.0713			7.877
4397.4	4321.0	-0.050	47.7886	34.678	221.9	32.83	2.274	126.8	0.1194	0.0703			7.872
4597.9	4516.0	-0.125	48.6615	34.675	223.0	32.94	2.274	128.5	0.1355	0.0762			7.880
4808.1	4720.3	-0.167	49.5674	34.673	222.9	33.15	2.293	129.6	0.1509	0.0850			7.875

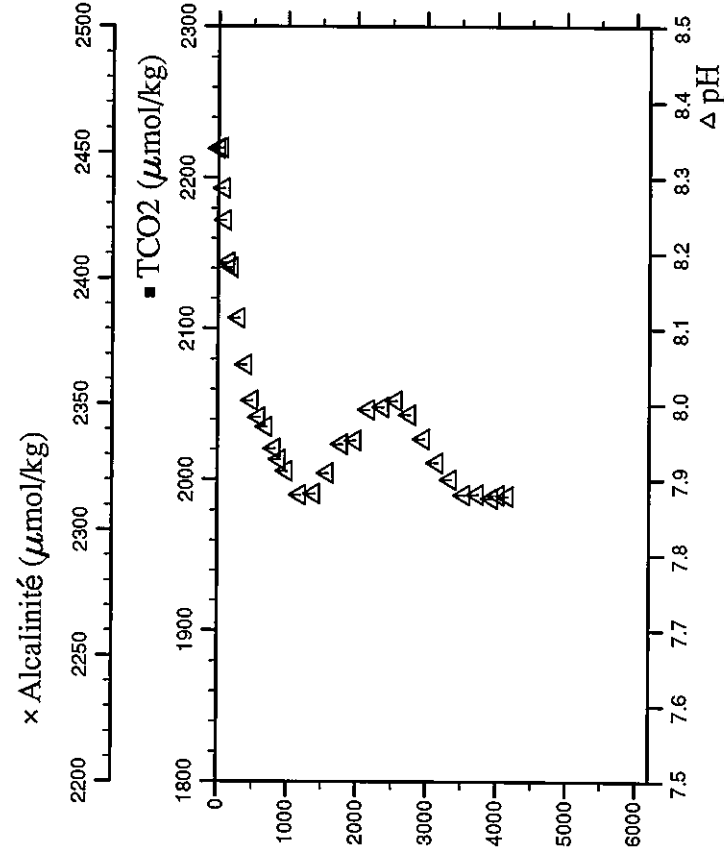
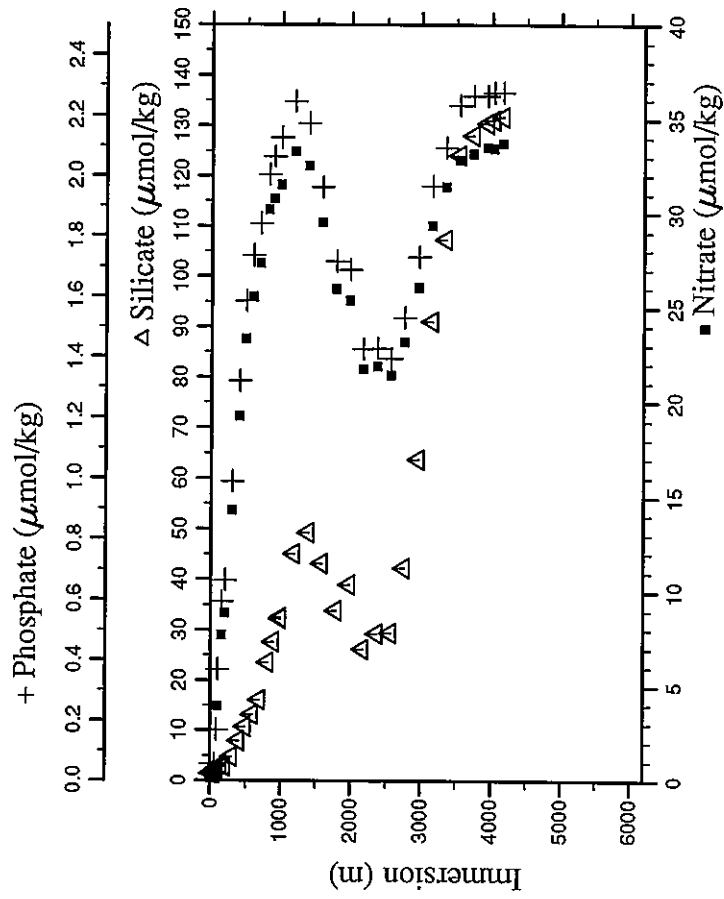
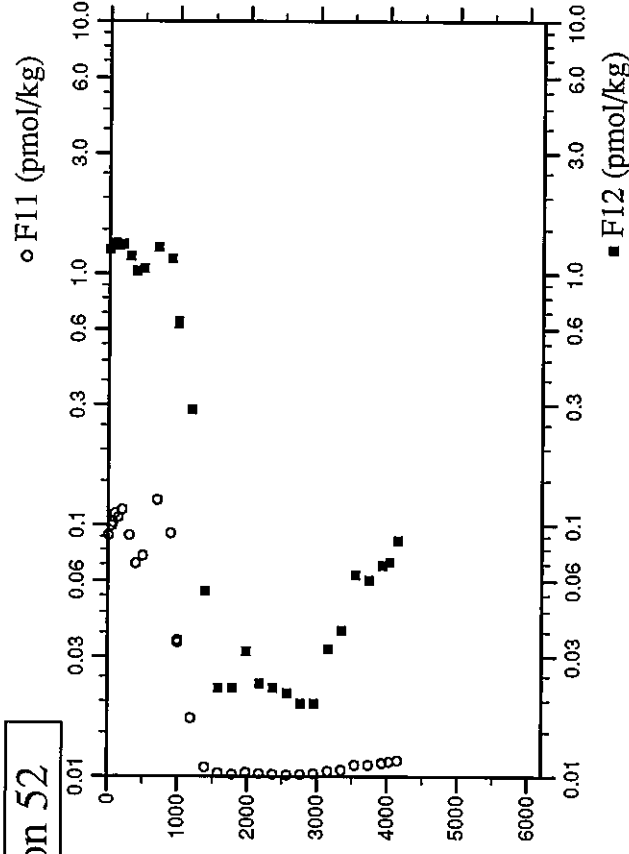
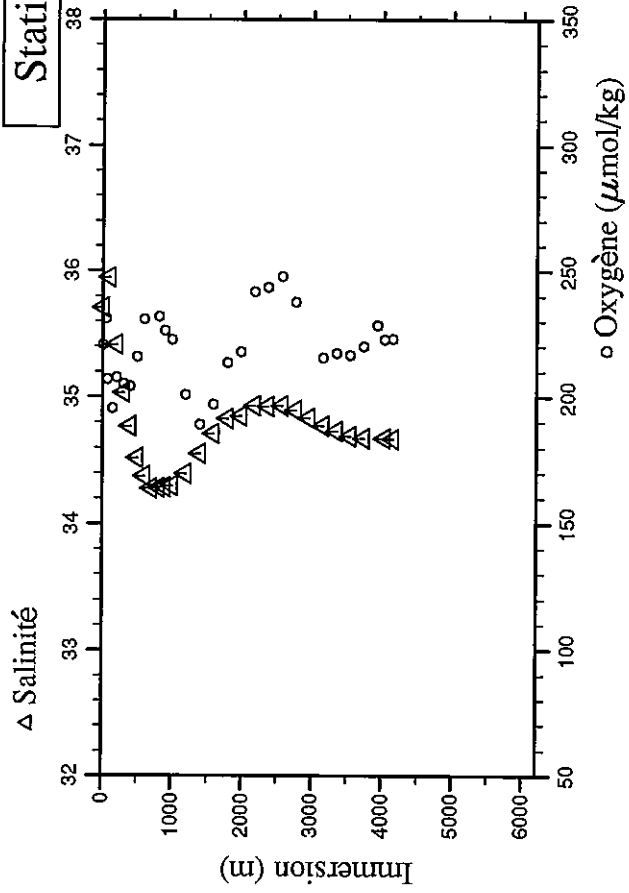
# Station 53



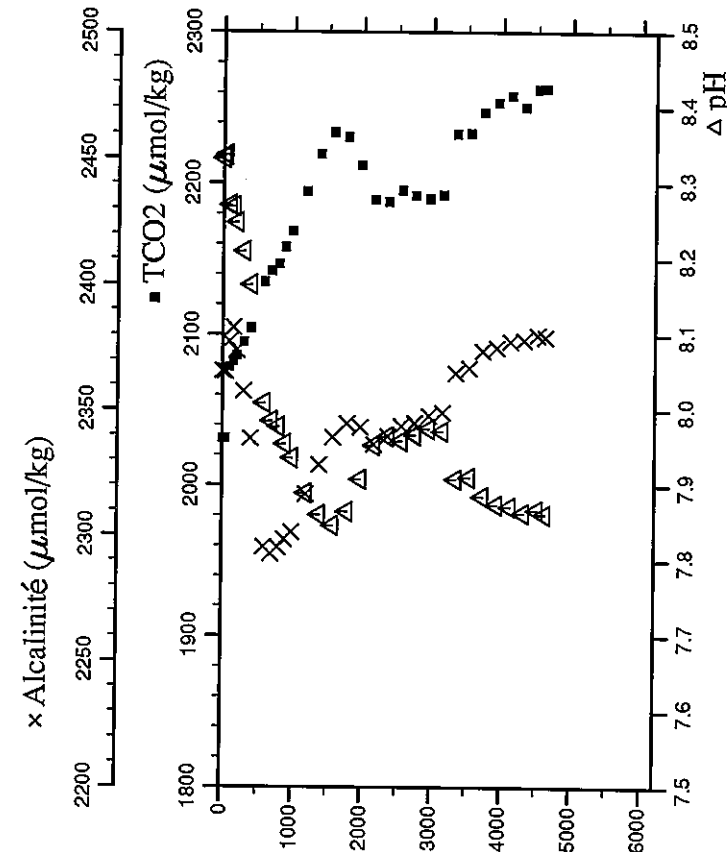
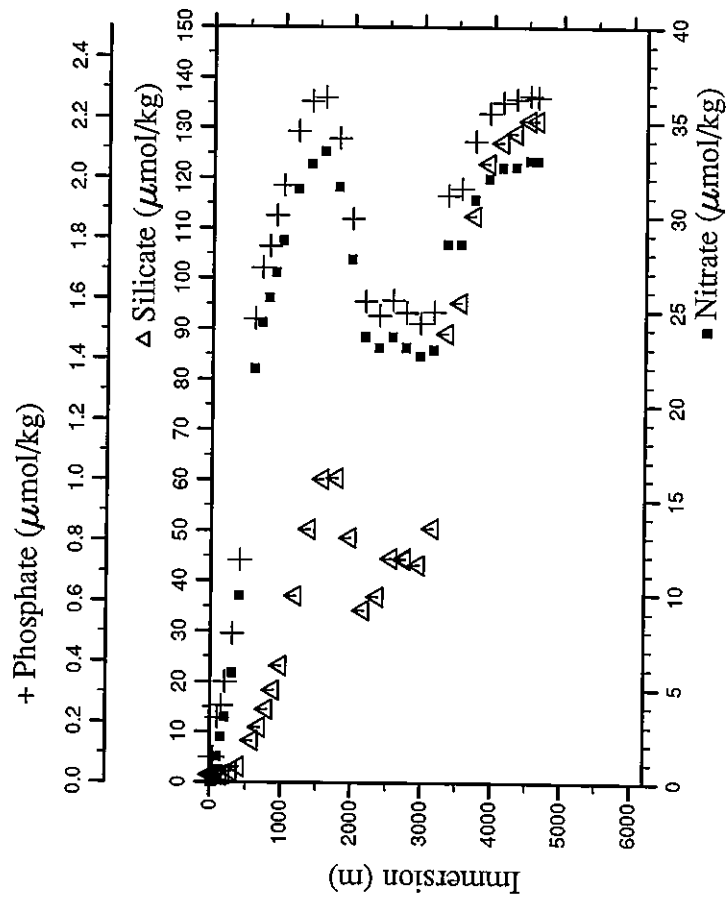
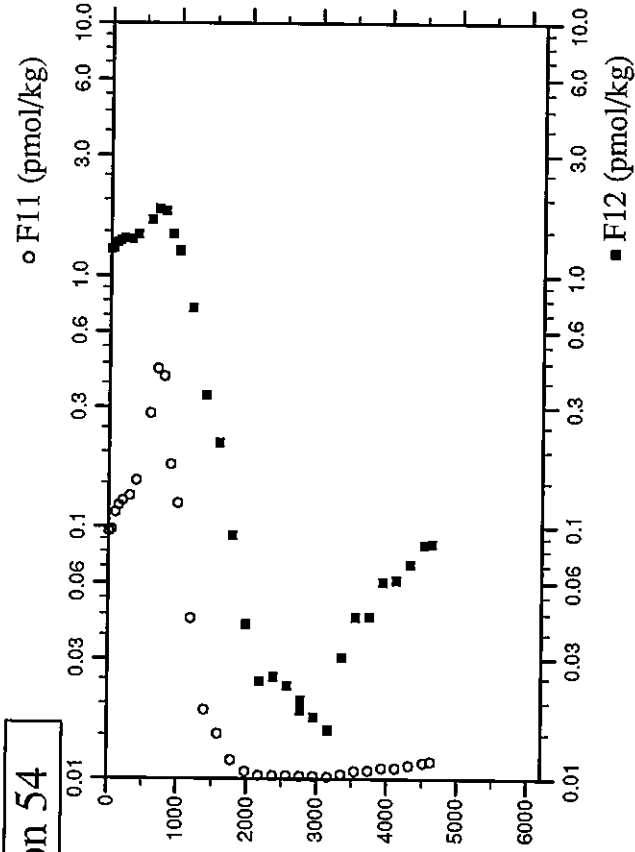
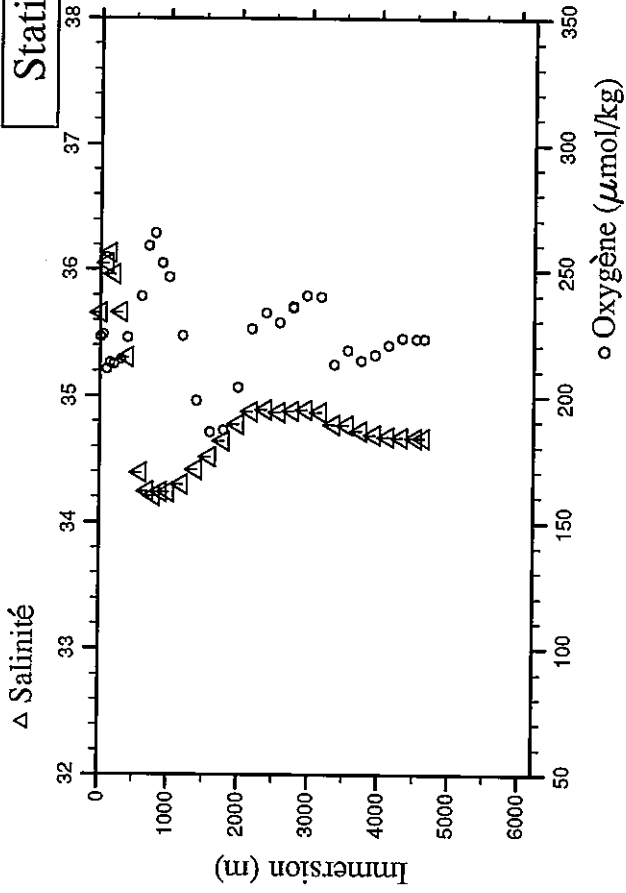
Station : 53 Campagne : CITHER 2  
 Date : 24-01-94 Heure : 10 h 22 mn  
 Position : S 34 21.05 W 46 56.25  
 Dernier niveau à : 4554  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg. cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.4	5.4	22.819	24.7426	35.970	221.3	0.04	0.016	1.3	2.1552	1.2119			8.343
42.1	41.8	21.992	25.3056	36.052	220.8	0.04	0.013	1.3	2.1945	1.2303			8.348
100.8	100.1	18.240	26.4660	36.052	211.8	1.80	0.212	1.4	2.4784	1.3367			8.273
201.1	199.6	16.524	27.1845	35.891	212.3	4.18	0.357	1.8	2.5619	1.3916			8.245
299.0	296.6	14.518	27.7804	35.502	212.5	8.08	0.604	2.8	2.4786	1.3129			8.189
402.3	399.0	12.429	28.4206	35.178	206.8	11.92	0.854	4.0	2.3588	1.2322			8.135
500.8	496.6	9.965	29.0504	34.806	205.1	17.97	1.250	6.7	2.1031	1.0899			8.063
600.4	595.2	7.373	29.7016	34.517	216.3	23.17	1.585	9.1	2.1160	1.0696			8.002
701.8	695.6	5.421	30.2854	34.315	244.1	25.23	1.731	12.6	2.9060	1.4274			7.987
798.8	791.6	4.592	30.7883	34.236	257.5	26.48	1.812	15.0	3.2559	1.5896			7.975
902.3	893.9	4.150	31.3307	34.255	244.9	28.87	1.947	20.9	2.3573	1.1734			7.952
1001.7	992.1	3.828	31.8432	34.282	231.5	30.44	2.052	26.9	1.5353	0.7806			7.930
1100.7	1089.9	3.445	32.3639	34.305	220.4	31.69	2.139	33.6	1.1160	0.5657			7.905
1200.3	1188.3	3.165	32.8835	34.340	213.3	32.52	2.214	40.0	0.8885	0.4621			7.889
1399.7	1385.0	2.981	33.9151	34.474	191.3	33.41	2.254	50.7	0.2330	0.1309			7.870
1600.0	1582.5	3.022	34.9271	34.614	190.7	31.54	2.134	51.6	0.0633	0.0440			7.885
1798.4	1777.9	3.181	35.8912	34.735	200.6	28.94	1.932	44.2	0.0309	0.0244			7.914
2000.7	1976.9	3.260	36.8589	34.830	215.9	25.87	1.723	38.3	0.0201	0.0205			7.946
2200.0	2172.8	3.297	37.7903	34.893	231.6	23.08	1.544	31.3	0.0198	0.0195			7.973
2399.7	2369.0	3.231	38.7153	34.931	243.3	21.81	1.417	26.7	0.0180	0.0195			7.996
2598.6	2564.1	3.072	39.6261	34.940	249.3	20.97	1.370	26.1	0.0186	0.0195			8.004
2798.5	2760.1	2.886	40.5316	34.937	251.2	20.97	1.369	28.1	0.0128	0.0146			8.008
2799.2	2760.8	2.883	40.5356	34.938	250.8	20.93	1.363	28.1	0.0127	0.0137			8.007
2999.0	2956.5	2.661	41.4410	34.925	250.6	21.06	1.384	31.5	0.0106	0.0156			8.008
3201.8	3154.9	2.314	42.3688	34.901	249.7	21.73	1.438	38.9	0.0106	0.0146			7.999
3398.6	3347.3	1.414	43.2807	34.782	216.9	28.80	1.938	87.1	0.0639	0.0420			7.926
3598.1	3542.2	0.923	44.2119	34.746	218.9	30.47	2.047	101.9	0.0559	0.0361			7.908
3799.5	3737.8	0.252	45.1502	34.689	216.7	32.71	2.231	122.3	0.1028	0.0547			7.880
3999.4	3933.7	-0.023	46.0608	34.677	221.6	33.13	2.260	126.8	0.0991	0.0606			7.876
4201.0	4130.1	-0.134	46.9506	34.673	222.1	33.24	2.277	129.5	0.1384	0.0781			7.876
4397.3	4321.2	-0.156	47.8011	34.669	223.1	33.19	2.277	128.9	0.1420	0.0840			7.877
4554.1	4473.7	-0.161	48.4764	34.673	223.9	33.19	2.294	129.2	0.1389	0.0811			7.878

# Station 52



# Station 54

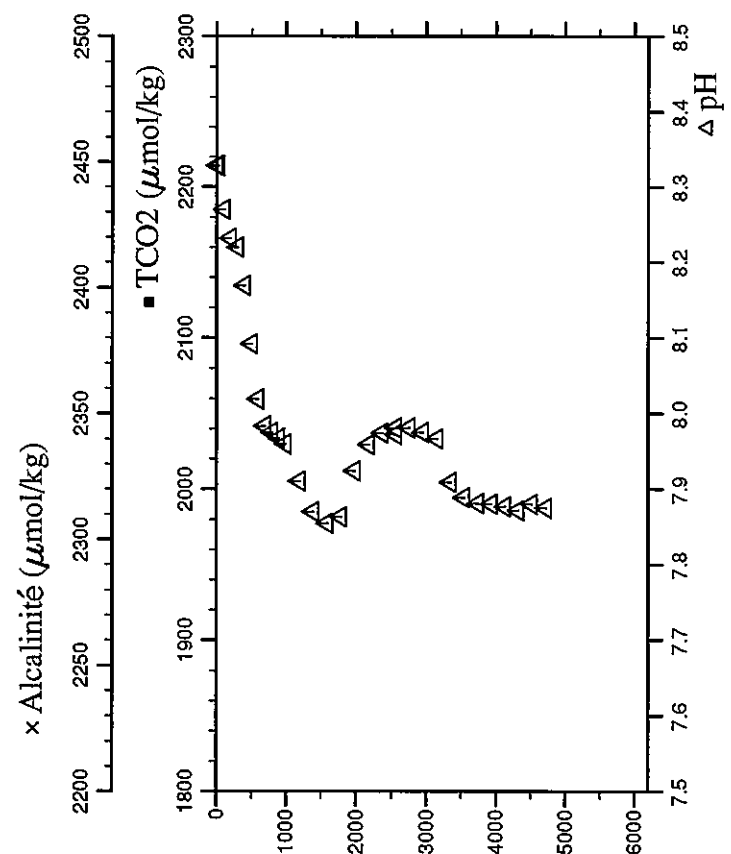
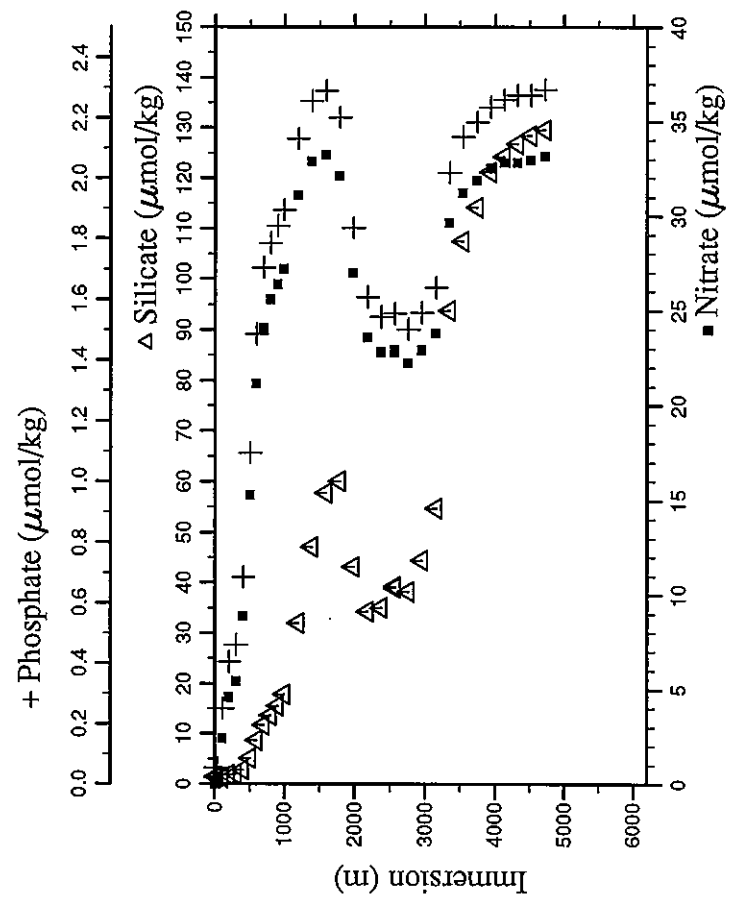
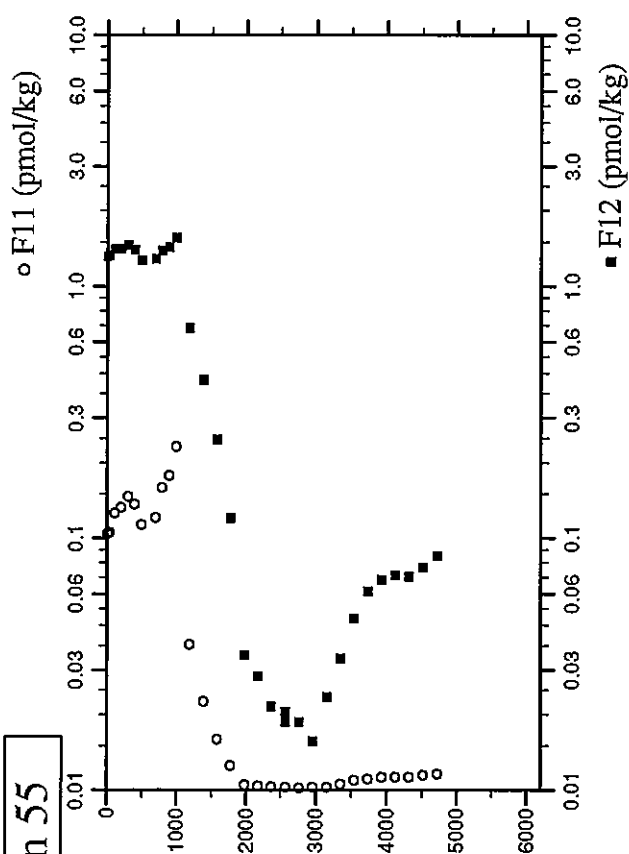
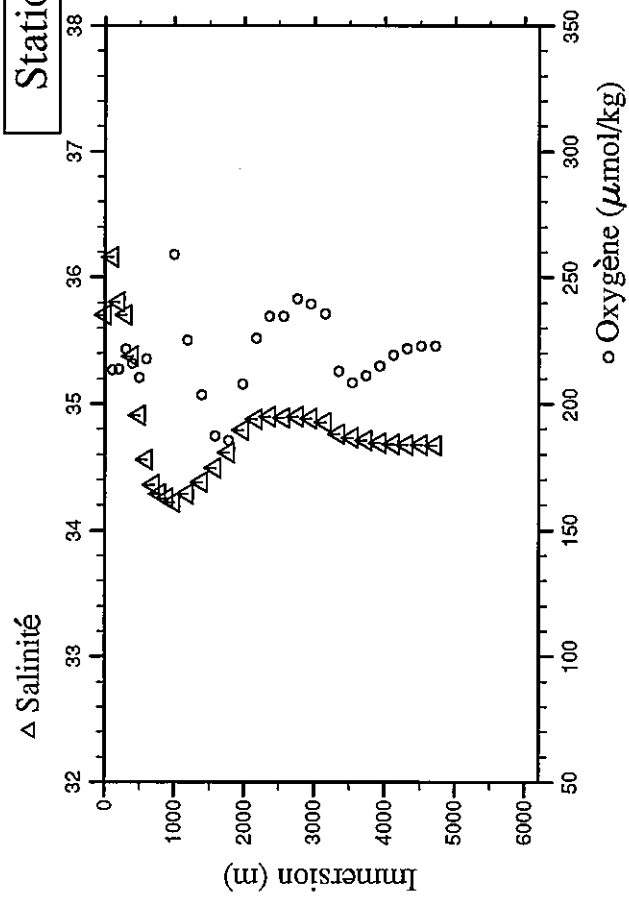


Station : 54 Campagne : CIPHER 2  
 Date : 24-01-94 Heure : 18 h 59 mn  
 Position : S 34 37.63 W 46 29.57  
 Dernier niveau à : 4715  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	PH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.8	7.7	21.516	24.8828	35.657	223.5	0.00	0.084	1.4	2.2932	1.2786	2031.02	2365.5	8.333
42.2	41.9	21.232	25.0771	35.661	224.5	0.00	0.084	1.4	2.3099	1.2903	2031.19	2365.1	8.337
100.2	99.5	18.398	26.4151	36.050	210.7	1.35	0.214	1.4	2.4724	1.3543	2078.61	2377.1	8.271
150.0	148.9	17.803	26.8389	36.131	213.2	2.41	0.256	1.3	2.5351	1.3806	2082.47	2382.7	8.269
200.9	199.4	16.932	27.1487	35.962	212.8	3.47	0.333	1.6	2.5781	1.3993	2086.24	2373.7	8.248
299.7	297.3	15.293	27.7364	35.663	214.4	5.80	0.493	2.2	2.6251	1.3937	2094.99	2357.3	8.210
400.8	397.5	12.996	28.4074	35.305	223.1	9.86	0.735	3.1	2.7686	1.4488	2104.24	2338.6	8.166
598.7	593.5	6.888	29.6821	34.393	239.4	21.89	1.532	8.3	3.3905	1.6627	2134.73	2295.2	8.009
701.2	695.0	5.207	30.2734	34.246	259.4	24.35	1.702	11.0	3.8073	1.8397	2142.26	2292.6	7.985
800.5	793.2	4.476	30.7918	34.209	264.6	25.61	1.774	14.6	3.7319	1.7988	2146.68	2295.0	7.978
899.3	890.9	4.263	31.2930	34.238	252.7	26.98	1.875	18.3	2.9144	1.4597	2157.86	2298.3	7.955
1000.3	990.7	3.773	31.8176	34.237	247.0	28.67	1.976	23.2	2.5511	1.2545	2168.29	2301.1	7.936
1199.9	1187.8	3.085	32.8568	34.302	223.8	31.42	2.156	37.1	1.4856	0.7464	2194.82	2316.3	7.890
1399.6	1384.9	2.855	33.8912	34.419	198.2	32.74	2.256	50.2	0.6390	0.3331	2219.18	2328.2	7.861
1601.0	1583.4	2.662	34.9056	34.519	185.8	33.42	2.268	60.2	0.4192	0.2169	2233.81	2339.0	7.846
1800.1	1779.5	2.779	35.8875	34.644	186.5	31.53	2.132	60.4	0.1721	0.0928	2230.83	2344.6	7.865
1999.8	1976.0	3.008	36.8500	34.776	203.5	27.68	1.866	48.6	0.0663	0.0410	2212.16	2343.1	7.908
2200.2	2173.0	3.217	37.7914	34.878	226.7	23.60	1.592	34.2	0.0341	0.0244	2189.06	2336.1	7.953
2400.9	2370.1	3.038	38.7224	34.893	233.1	23.00	1.545	36.9	0.0302	0.0254	2188.03	2339.4	7.965
2598.5	2564.0	2.746	39.6280	34.873	229.3	23.60	1.597	44.5	0.0291	0.0234	2195.40	2343.7	7.959
2799.1	2760.6	2.618	40.5403	34.887	235.1	23.06	1.553	44.3	0.0253	0.0186	2191.95	2344.8	7.968
2799.7	2761.2	2.617	40.5437	34.886	235.7	23.01	1.556	44.5	0.0229	0.0205	2344.7	2344.7	7.967
2999.9	2957.3	2.496	41.4474	34.893	240.0	22.59	1.519	43.3	0.0238	0.0176	2190.18	2347.6	7.975
3199.5	3152.6	2.229	42.3539	34.877	239.5	22.93	1.558	50.5	0.0189	0.0156	2192.58	2349.0	7.972
3397.6	3346.3	1.526	43.2599	34.772	212.7	28.50	1.944	89.2	0.0444	0.0303	2232.60	2364.7	7.908
3599.2	3543.2	1.171	44.1885	34.774	218.3	28.50	1.967	95.2	0.0738	0.0439	2233.29	2366.6	7.911
3798.1	3737.3	0.713	45.0994	34.725	214.3	30.87	2.123	112.6	0.0796	0.0440	2247.20	2373.7	7.885
3998.9	3933.1	0.287	46.0212	34.696	216.4	31.99	2.216	123.0	0.1011	0.0606	2253.36	2374.8	7.874
4197.9	4127.0	0.008	46.9200	34.681	220.4	32.58	2.254	127.2	0.1042	0.0615	2258.31	2377.5	7.872
4397.3	4321.1	-0.106	47.7957	34.677	223.2	32.62	2.263	129.0	0.1238	0.0713	2250.64	2377.9	7.863
4598.6	4516.8	-0.163	48.6714	34.673	223.0	32.94	2.275	131.5	0.1512	0.0850	2262.61	2380.0	7.868
4714.0	4629.0	-0.172	49.1663	34.673	222.8	32.95	2.271	131.5	0.1604	0.0860	2262.74	2379.2	7.862



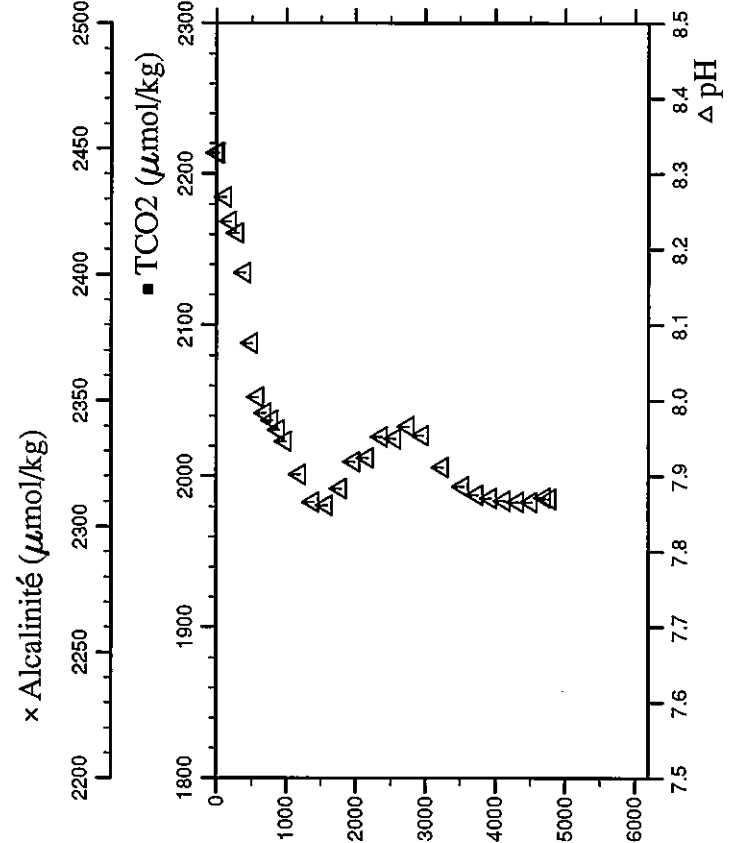
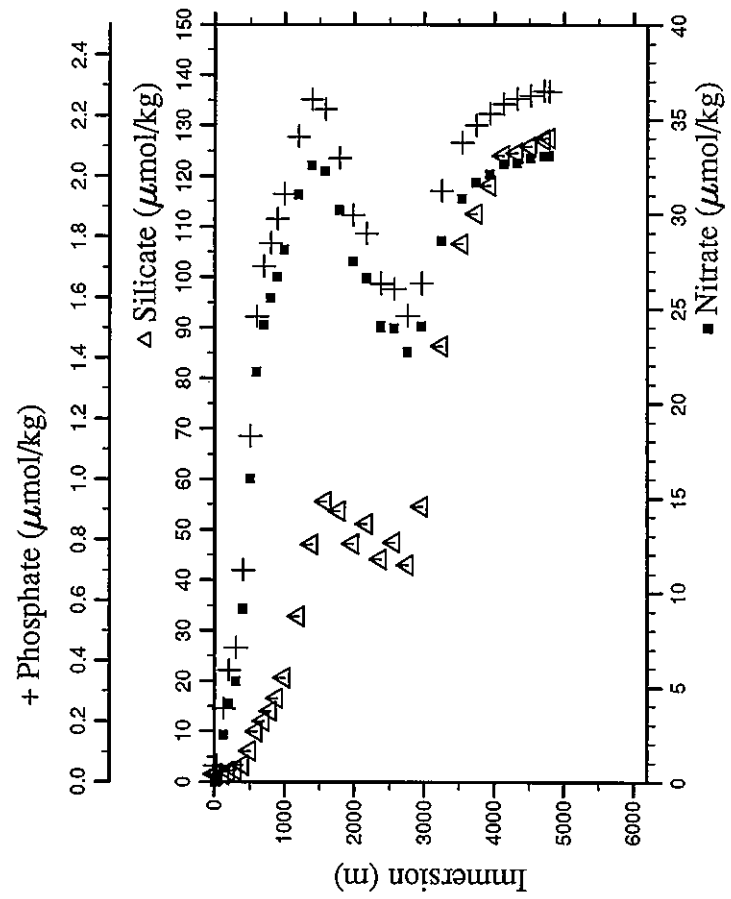
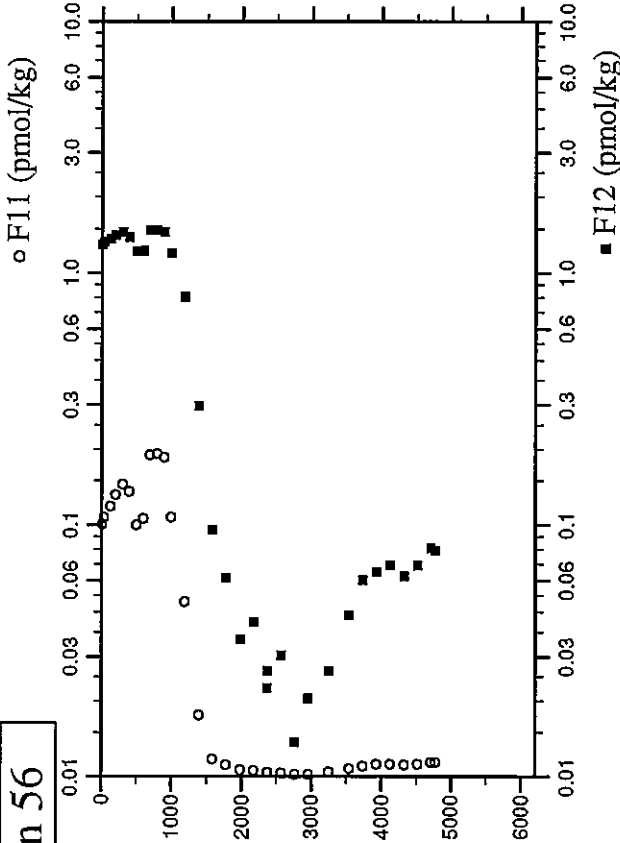
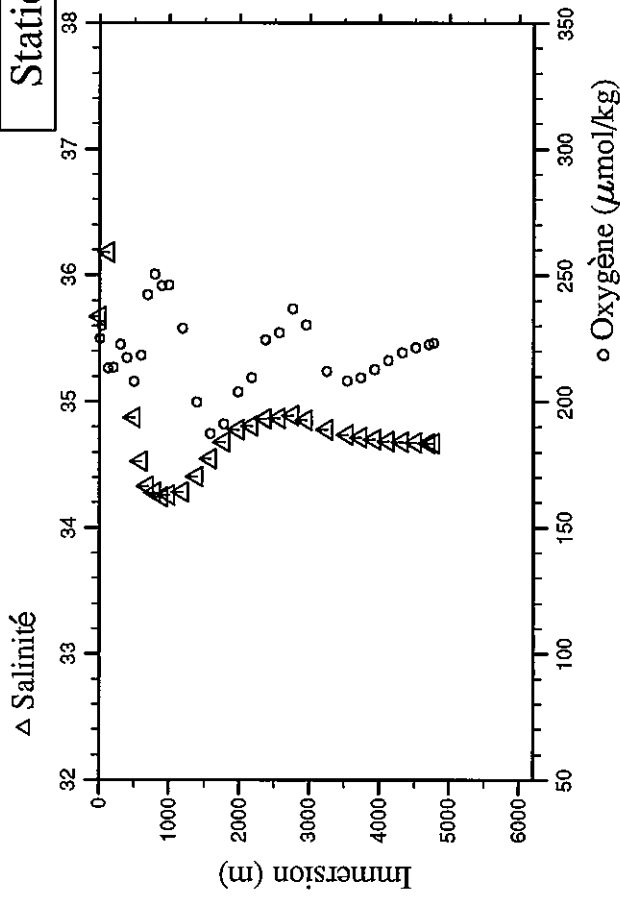
# Station 55



Station : 56 Campagne : CITHER 2  
 Date : 25-01-94 Heure : 6 h 44 mn  
 Position : S 35 10.56 W 45 35.63  
 Dernier niveau à : 4873  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
3.4	3.4	21.129	24.9847	35.673	224.9	0.00	0.054	1.6	2.3369	1.2987			8.338
36.1	35.8	20.578	25.3475	35.723	230.0	0.00	0.054	1.6	2.4070	1.3328			8.328
124.6	123.7	17.885	26.7474	36.182	213.2	2.46	0.243	1.5	2.5067	1.3704			8.269
199.9	198.4	16.442	27.2061	35.887	213.5	4.12	0.369	2.1	2.6152	1.4068			8.237
299.7	297.3	15.283	27.7840	35.720	222.6	5.32	0.444	2.3	2.7062	1.4479			8.222
400.8	397.5	13.411	28.3574	35.348	217.3	9.15	0.701	3.4	2.6411	1.3849			8.169
501.5	497.3	10.557	29.0002	34.876	207.8	16.04	1.143	6.1	2.3339	1.2204			8.076
600.4	595.2	7.694	29.6751	34.531	218.3	21.67	1.536	9.9	2.3942	1.2285			8.005
698.8	692.6	5.825	30.2433	34.333	242.3	24.13	1.703	12.0	2.9827	1.4787			7.984
800.4	793.1	5.088	30.7631	34.279	250.3	25.57	1.779	14.0	2.9939	1.4739			7.974
900.4	891.9	4.507	31.2707	34.246	245.8	26.68	1.858	16.6	2.9544	1.4515			7.962
1001.1	991.5	4.170	31.7799	34.258	245.9	28.11	1.942	20.7	2.4072	1.1995			7.946
1200.1	1188.0	3.318	32.8147	34.287	229.1	31.03	2.131	32.8	1.6189	0.8019			7.902
1399.9	1385.1	2.998	33.8686	34.409	199.7	32.57	2.252	47.1	0.5696	0.2969			7.866
1600.3	1582.6	2.831	34.9044	34.550	187.3	32.26	2.222	55.6	0.1636	0.0957			7.862
1799.7	1779.0	2.957	35.8863	34.681	191.0	30.19	2.061	53.7	0.1082	0.0615			7.884
1999.8	1975.9	3.084	36.8417	34.780	203.9	27.49	1.871	47.2	0.0607	0.0351			7.919
2199.7	2172.4	2.875	37.7910	34.811	209.5	26.60	1.811	51.1	0.0580	0.0410			7.924
2399.6	2368.7	2.899	38.7168	34.867	224.5	24.11	1.648	44.2	0.0357	0.0225			7.952
2599.0	2564.3	2.898	38.7204	34.864	224.5	24.00	1.645	44.1	0.0366	0.0264			7.952
2799.6	2761.0	2.674	39.6362	34.871	227.1	23.96	1.628	47.5	0.0288	0.0303			7.950
2999.2	2956.5	2.602	40.5506	34.891	236.7	22.72	1.538	43.0	0.0175	0.0137			7.966
3298.4	3249.2	2.273	41.4551	34.857	230.3	24.07	1.646	54.6	0.0222	0.0205			7.954
3599.8	3543.6	1.590	42.8178	34.780	212.0	28.58	1.952	86.4	0.0416	0.0264			7.912
3800.2	3739.2	1.031	44.1932	34.737	208.1	30.81	2.111	106.6	0.0748	0.0439			7.886
3999.0	3933.0	0.729	45.0997	34.719	209.4	31.66	2.168	112.5	0.0958	0.0605			7.875
4197.3	4126.2	0.459	45.9971	34.702	212.6	32.09	2.207	118.1	0.1159	0.0654			7.871
4398.5	4322.0	0.221	46.8880	34.688	216.3	32.63	2.239	124.1	0.1151	0.0693			7.868
4597.7	4515.7	0.069	47.7765	34.681	219.2	32.71	2.255	124.6	0.1102	0.0625			7.866
4798.6	4710.9	-0.054	48.6504	34.678	221.4	32.95	2.265	125.9	0.1162	0.0693			7.866
4869.8	4780.1	-0.130	49.5214	34.674	222.5	33.06	2.280	127.3	0.1324	0.0810			7.872
		-0.133	49.8246	34.674	223.1	33.07	2.279	127.5	0.1351	0.0791			7.870

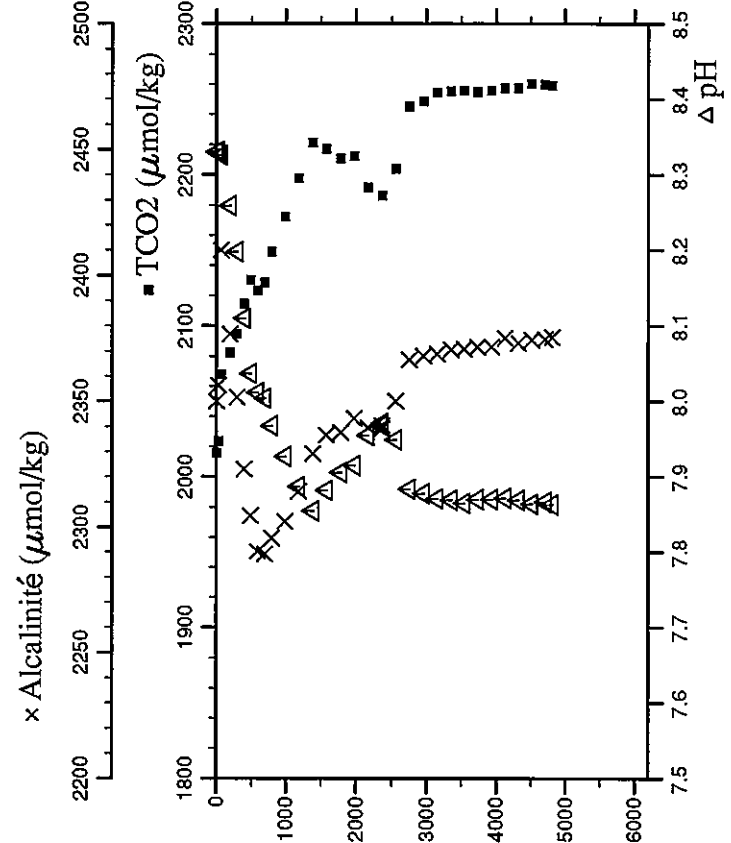
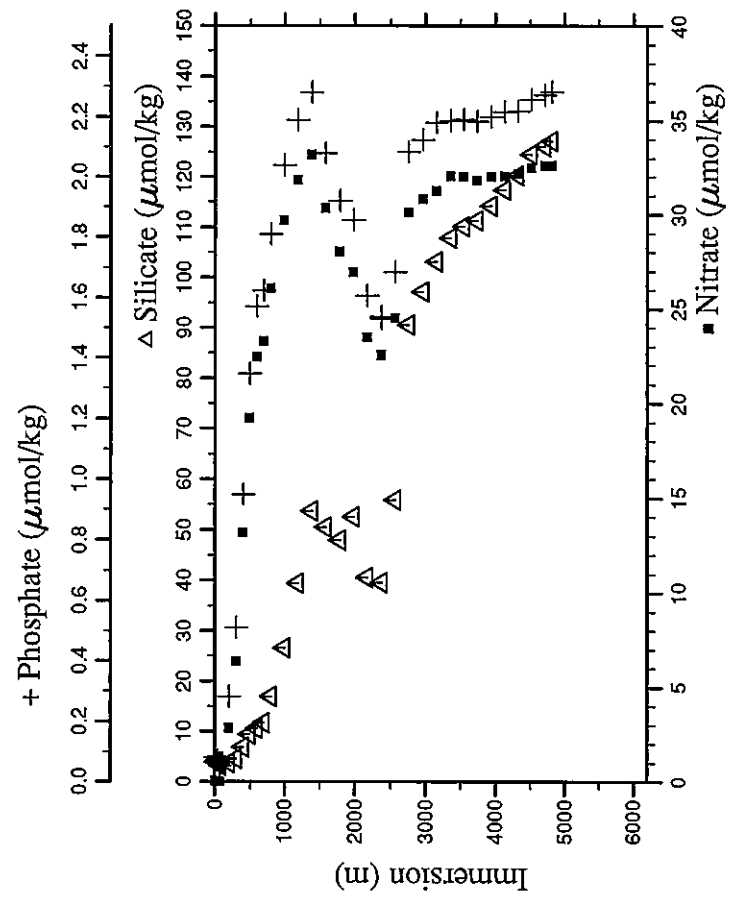
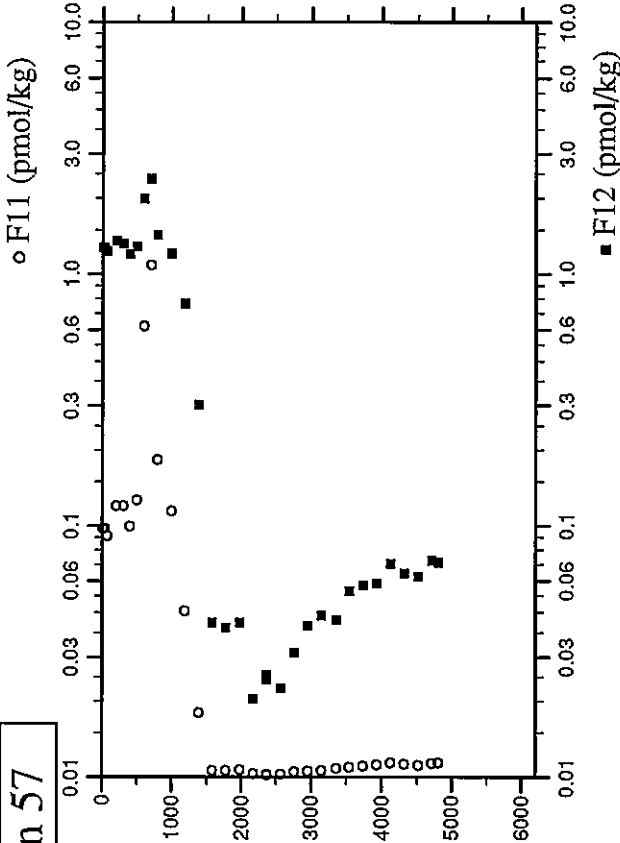
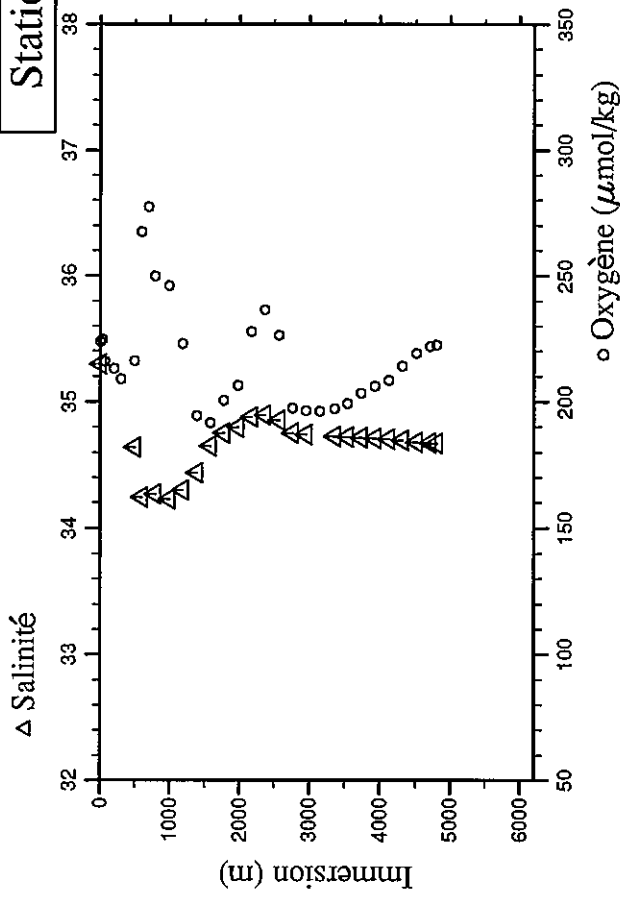
Station 56



Station : 57 Campagne : CIPHER 2  
 Date : 25-01-94 Heure : 12 h 52 mn  
 Position : S 35 26.83 W 45 8.31  
 Dernier niveau à : 4899  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
8.8	8.7	21.447	24.6349	35.297	223.6	0.04	0.082	4.0	2.3097	1.2747	2015.66	2350.0	8.330
35.0	34.7	21.349	24.8775	35.471	224.7	0.00	0.070	3.8	2.3105	1.2697	2023.43	2356.3	8.331
70.4	69.9	21.387	25.8993	36.573	215.8	0.00	0.053	3.2	2.2373	1.2344	2067.80	2410.0	8.326
200.6	199.0	17.489	27.0948	36.067	213.0	2.86	0.283	3.7	2.5187	1.3529	2082.18	2376.6	8.259
300.7	298.3	15.028	27.7338	35.600	208.9	6.36	0.511	4.6	2.5181	1.3242	2094.53	2351.5	8.198
401.3	398.0	11.862	28.4651	35.075	206.3	13.20	0.950	6.9	2.3277	1.1997	2114.75	2323.1	8.110
500.9	496.7	8.818	29.1229	34.643	216.0	19.22	1.349	9.4	2.5715	1.2870	2130.20	2304.5	8.037
601.6	596.4	5.617	29.7577	34.242	267.3	22.43	1.570	10.6	4.1863	1.9955	2123.62	2290.2	8.012
700.3	694.0	4.981	30.2610	34.187	277.2	23.29	1.623	11.8	4.7499	2.3853	2128.46	2289.2	8.004
800.0	792.7	4.876	30.7815	34.268	249.8	26.09	1.811	16.9	2.9438	1.4261	2149.03	2295.6	7.968
1000.3	990.7	3.502	31.8454	34.230	246.1	29.71	2.038	26.6	2.4707	1.2014	2172.07	2302.1	7.927
1199.7	1187.6	2.943	32.8771	34.302	223.0	31.84	2.190	39.4	1.5399	0.7609	2197.78	2314.2	7.887
1399.9	1385.1	2.767	33.9177	34.439	194.3	33.17	2.281	53.7	0.5966	0.3028	2221.34	2329.1	7.855
1599.9	1582.2	3.080	34.9461	34.650	191.6	30.35	2.080	50.5	0.0632	0.0410	2217.31	2336.4	7.882
1799.2	1778.5	3.105	35.9231	34.754	200.5	28.02	1.920	48.0	0.0602	0.0391	2210.70	2337.4	7.906
1999.6	1975.6	2.881	36.8843	34.797	206.4	26.96	1.856	52.5	0.0657	0.0410	2212.35	2343.2	7.915
2199.4	2172.0	2.993	37.8251	34.878	227.7	23.48	1.607	40.6	0.0340	0.0205	2191.81	2339.6	7.955
2399.1	2368.1	2.805	38.7543	34.897	236.4	22.59	1.530	39.6	0.0227	0.0254	2185.99	2339.0	7.971
2599.5	2565.4	2.805	38.7559	34.896	236.4	22.50	1.536	39.6	0.0233	0.0244	2204.06	2340.3	7.968
2800.2	2565.4	2.329	39.6856	34.853	226.3	24.52	1.686	55.8	0.0278	0.0225	2245.09	2350.0	7.949
2999.7	2956.9	1.667	40.5888	34.753	197.5	30.11	2.084	90.5	0.0465	0.0312	2248.44	2366.5	7.884
3197.5	3150.4	1.483	41.4928	34.744	196.4	30.81	2.124	97.2	0.0574	0.0400	2248.44	2368.0	7.878
3412.5	3360.6	1.178	42.3819	34.718	196.2	31.24	2.182	103.2	0.0617	0.0439	2254.46	2368.7	7.871
3599.3	3543.0	1.055	43.3413	34.725	197.3	32.04	2.187	107.8	0.0792	0.0420	2255.22	2370.6	7.869
3799.4	3738.0	0.901	44.1750	34.723	199.3	31.99	2.192	110.1	0.0904	0.0547	2255.56	2370.9	7.865
3999.7	3933.6	0.751	45.0694	34.718	203.2	31.78	2.186	111.3	0.1023	0.0576	2254.89	2371.6	7.870
4198.3	4127.1	0.615	45.9578	34.712	206.2	32.00	2.200	114.2	0.1175	0.0586	2255.75	2371.6	7.870
4397.4	4320.8	0.461	46.8343	34.709	208.4	32.05	2.217	117.4	0.1347	0.0703	2257.23	2375.2	7.872
4598.5	4516.4	0.361	47.7294	34.695	214.0	32.17	2.219	120.3	0.1225	0.0644	2257.27	2373.0	7.869
4798.1	4710.3	-0.058	48.6367	34.683	219.0	32.49	2.257	124.5	0.1097	0.0625	2260.19	2374.4	7.864
4898.0	4807.3	-0.100	49.5134	34.675	221.9	32.60	2.272	126.1	0.1249	0.0723	2259.80	2374.5	7.867
		-0.132	49.9460	34.672	222.3	32.60	2.283	127.2	0.1318	0.0713	2259.14	2375.3	7.863

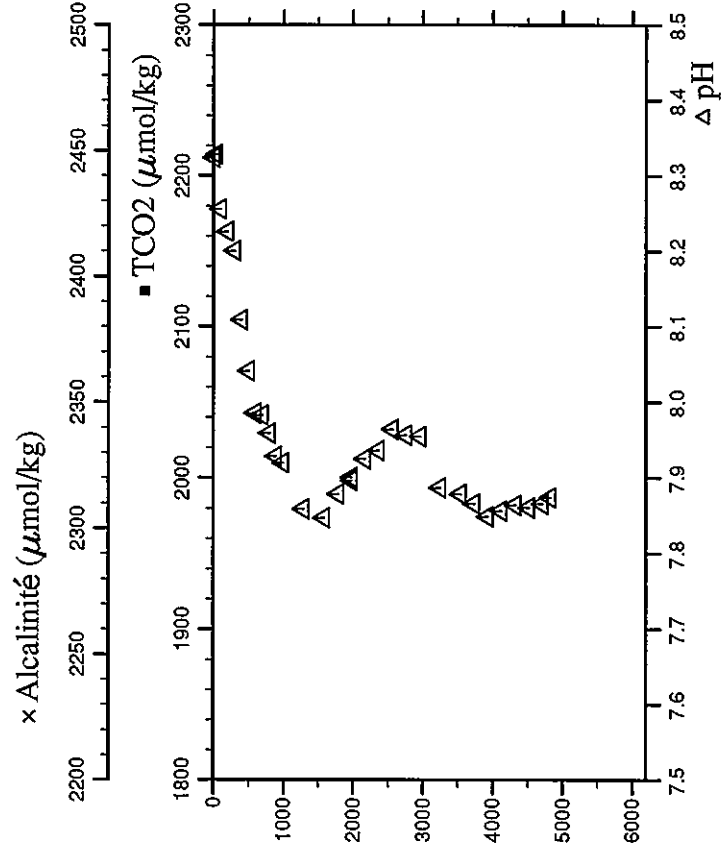
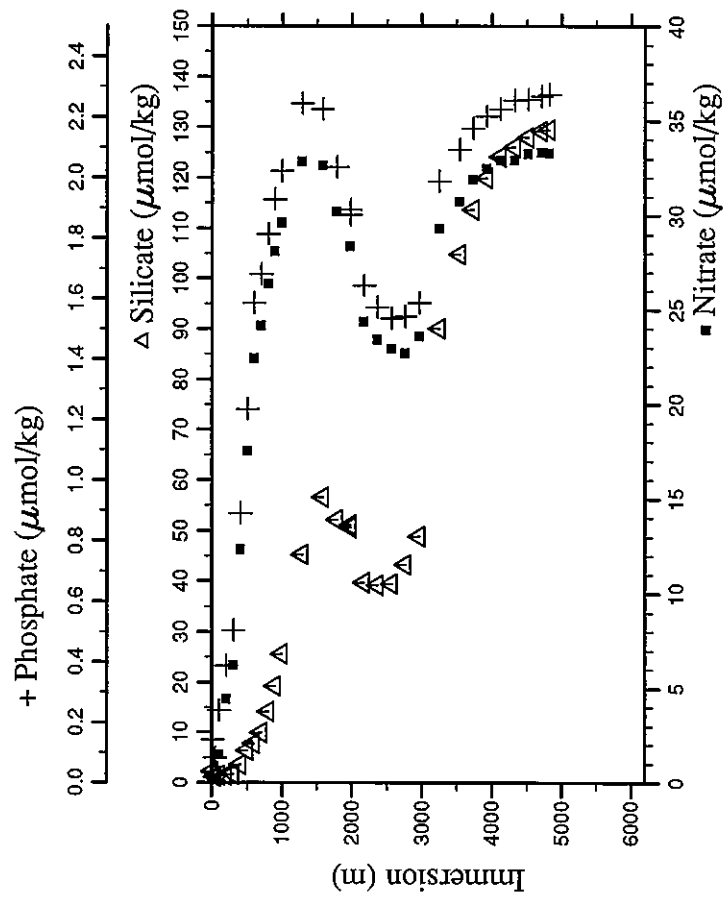
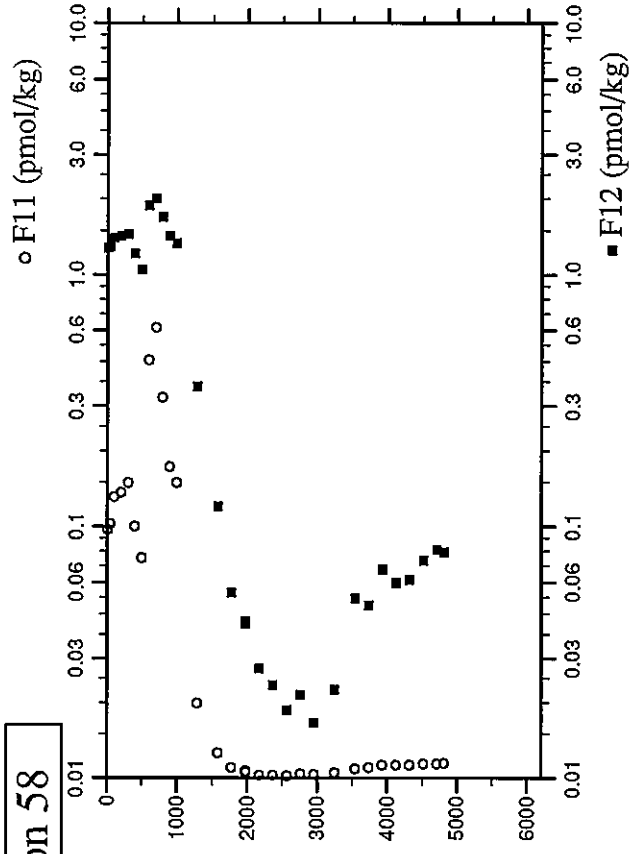
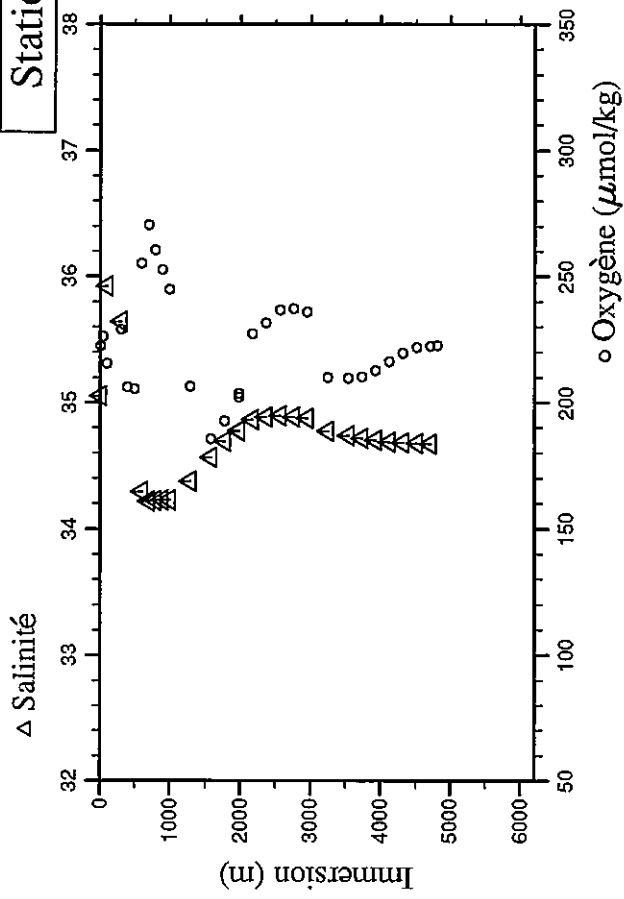
Station 57



Station : 58 Campagne : CITHER 2  
 Date : 25-01-94 Heure : 19 h 25 mn  
 Position : S 35 43.63 W 44 42.12  
 Dernier niveau à : 4913  
 Nb prélèvements : 31

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.2	7.1	21.808	24.3427	35.054	222.3	0.25	0.143	2.2	2.3038	1.2770			8.324
41.4	41.1	21.548	25.5430	36.080	226.3	0.13	0.084	1.2	2.3555	1.2914			8.329
101.6	100.8	17.868	26.4517	35.924	215.5	1.50	0.240	1.5	2.6087	1.4011			8.256
199.5	198.0	16.274	27.1924	35.817	215.9	4.43	0.389	1.4	2.6474	1.4148			8.226
303.1	300.7	14.813	27.8424	35.644	229.0	6.24	0.506	1.7	2.7364	1.4453			8.201
399.6	396.3	12.365	28.4180	35.151	206.0	12.35	0.891	3.6	2.3337	1.2135			8.109
501.4	497.1	10.064	29.0765	34.840	205.4	17.52	1.233	6.4	2.0436	1.0458			8.041
601.6	596.4	6.075	29.7392	34.296	255.1	22.44	1.586	7.8	3.8688	1.8756			7.985
701.2	694.9	4.976	30.2758	34.219	270.5	24.18	1.680	10.0	4.1742	2.0056			7.983
799.8	792.4	4.494	30.7958	34.224	260.5	26.38	1.815	14.1	3.5263	1.6940			7.959
900.1	891.6	4.064	31.3166	34.231	252.6	28.11	1.929	19.2	2.8848	1.4253			7.929
1001.7	992.0	3.637	31.8287	34.231	244.8	29.62	2.023	25.6	2.7356	1.3306			7.920
1301.5	1288.0	2.951	33.4014	34.378	206.4	32.85	2.245	45.3	0.6970	0.3585			7.859
1601.0	1583.3	2.796	34.9239	34.565	185.5	32.65	2.225	56.6	0.2311	0.1201			7.847
1799.2	1778.4	2.958	35.8973	34.694	192.5	30.19	2.034	52.2	0.0942	0.0547			7.879
1999.9	1975.9	2.924	36.8626	34.773	202.1	28.38	1.894	51.2	0.0645	0.0420			7.896
2000.3	1976.3	2.929	36.8622	34.779	203.5	28.36	1.877	50.7	0.0575	0.0410			7.901
2200.1	2172.7	3.070	37.8042	34.864	227.1	24.37	1.643	39.7	0.0285	0.0273			7.925
2397.4	2366.4	2.909	38.7194	34.885	231.5	23.43	1.571	39.2	0.0273	0.0234			7.936
2599.0	2564.2	2.788	39.6391	34.893	236.5	22.96	1.535	39.4	0.0222	0.0186			7.964
2798.4	2759.7	2.575	40.5480	34.887	237.2	22.70	1.542	43.3	0.0350	0.0215			7.957
2999.3	2956.4	2.331	41.4592	34.875	235.9	23.58	1.586	48.9	0.0327	0.0166			7.955
3298.8	3249.4	1.512	42.8262	34.771	209.8	29.31	1.989	90.0	0.0477	0.0225			7.887
3597.9	3541.6	1.036	44.1863	34.739	209.7	30.73	2.091	104.8	0.0864	0.0518			7.879
3796.2	3735.1	0.737	45.0824	34.719	210.2	31.89	2.162	113.7	0.0982	0.0488			7.866
3997.7	3931.6	0.467	45.9906	34.700	212.8	32.47	2.202	119.9	0.1197	0.0674			7.849
4195.6	4124.3	0.221	46.8802	34.688	216.3	32.91	2.225	124.1	0.1193	0.0596			7.857
4397.8	4321.1	0.037	47.7777	34.681	219.6	32.90	2.256	126.0	0.1181	0.0615			7.864
4598.5	4516.3	-0.067	48.6560	34.675	221.8	33.26	2.258	127.9	0.1300	0.0732			7.861
4798.6	4710.7	-0.132	49.5225	34.673	222.4	33.32	2.267	129.2	0.1346	0.0811			7.866
4910.3	4819.1	-0.142	49.9991	34.689	222.6	33.28	2.274	129.4	0.1394	0.0791			7.874

### Station 58

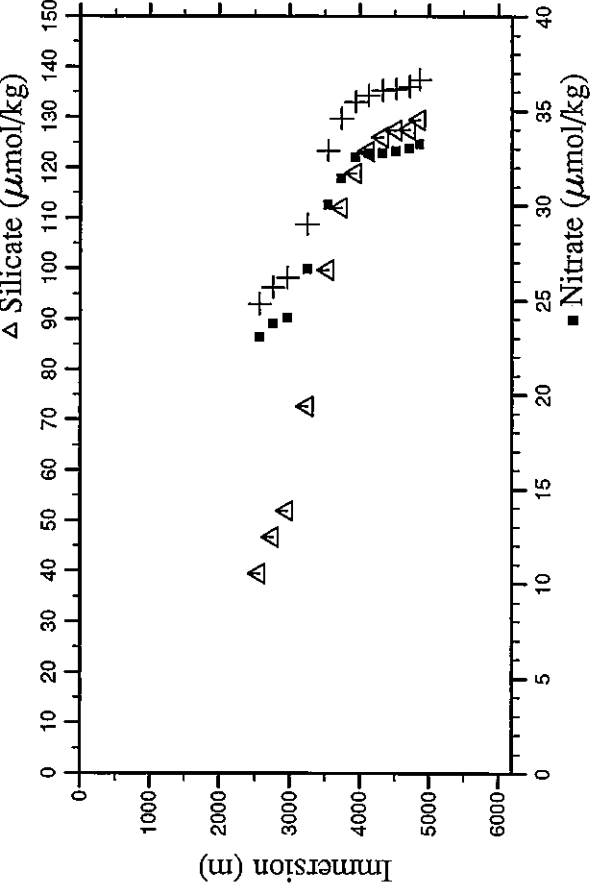
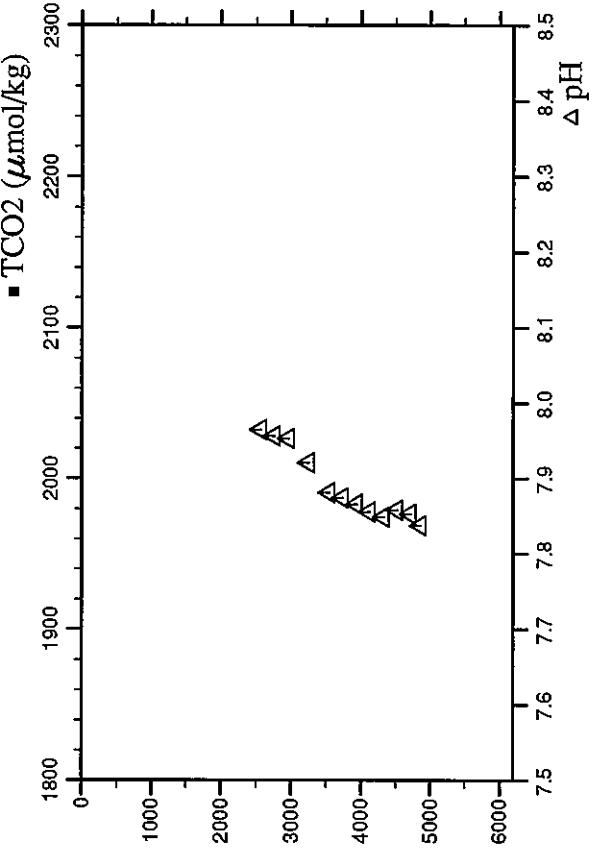
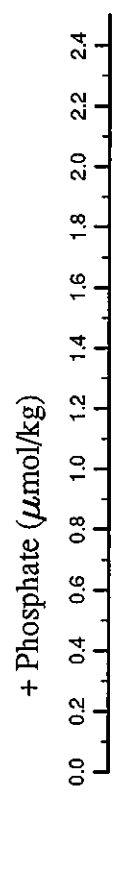
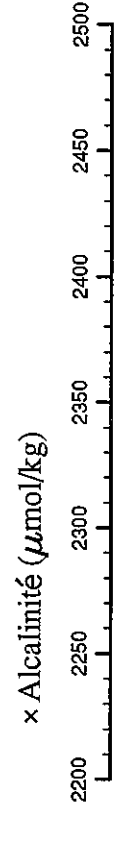
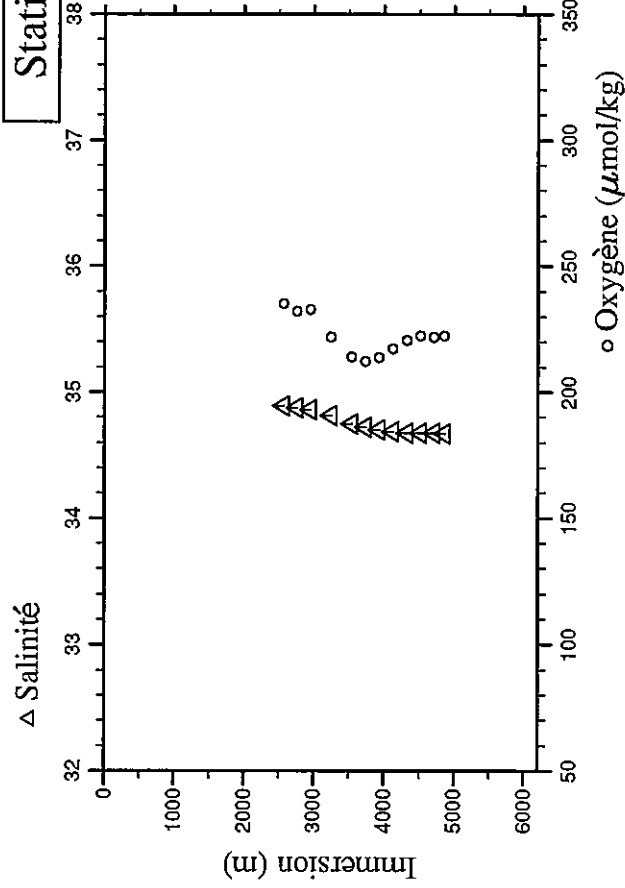
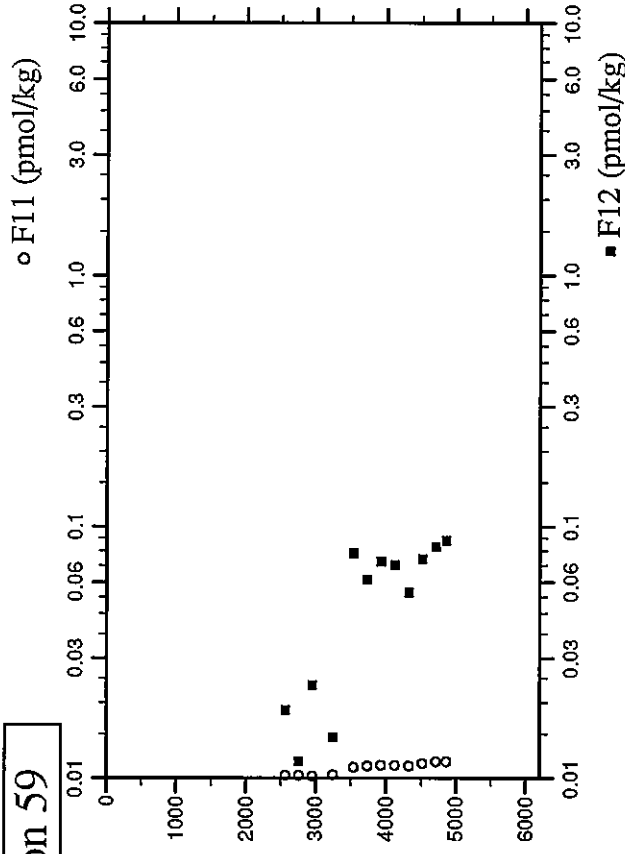


Station : 59 Campagne : CITHER 2  
 Date : 26-01-94 Heure : 14 h 14 mn  
 Position : S 36 0.37 W 44 14.51  
 Dernier niveau à : 4957  
 Nb prélèvements : 12

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
2603.1	2568.2	2.816	39.6500	34.890	235.1	23.06	1.549	39.4	0.0261	0.0186			7.965
2800.7	2761.9	2.536	40.5502	34.873	232.0	23.76	1.604	46.7	0.0240	0.0117			7.957
3001.4	2958.4	2.317	41.4602	34.862	232.8	24.06	1.636	51.9	0.0191	0.0234			7.953
3298.4	3248.9	1.764	42.8146	34.814	221.8	26.66	1.812	72.6	0.0316	0.0146			7.921
3600.4	3543.9	1.072	44.1984	34.750	213.9	30.02	2.056	99.7	0.1051	0.0781			7.881
3798.4	3737.1	0.685	45.0972	34.723	212.1	31.44	2.162	112.0	0.1168	0.0615			7.874
3998.5	3932.2	0.390	46.0025	34.700	213.7	32.53	2.217	118.9	0.1227	0.0723			7.866
4195.9	4124.5	0.164	46.8876	34.685	217.3	32.76	2.238	123.2	0.1185	0.0703			7.856
4399.2	4322.4	-0.009	47.7901	34.679	220.5	32.77	2.256	126.0	0.1163	0.0547			7.849
4598.4	4516.1	-0.104	48.6593	34.676	222.3	32.89	2.259	127.4	0.1359	0.0742			7.858
4800.1	4712.0	-0.161	49.5301	34.675	221.8	33.01	2.268	127.5	0.1558	0.0830			7.853
4954.6	4862.0	-0.168	50.1908	34.672	222.3	33.24	2.292	129.5	0.1557	0.0879			7.838



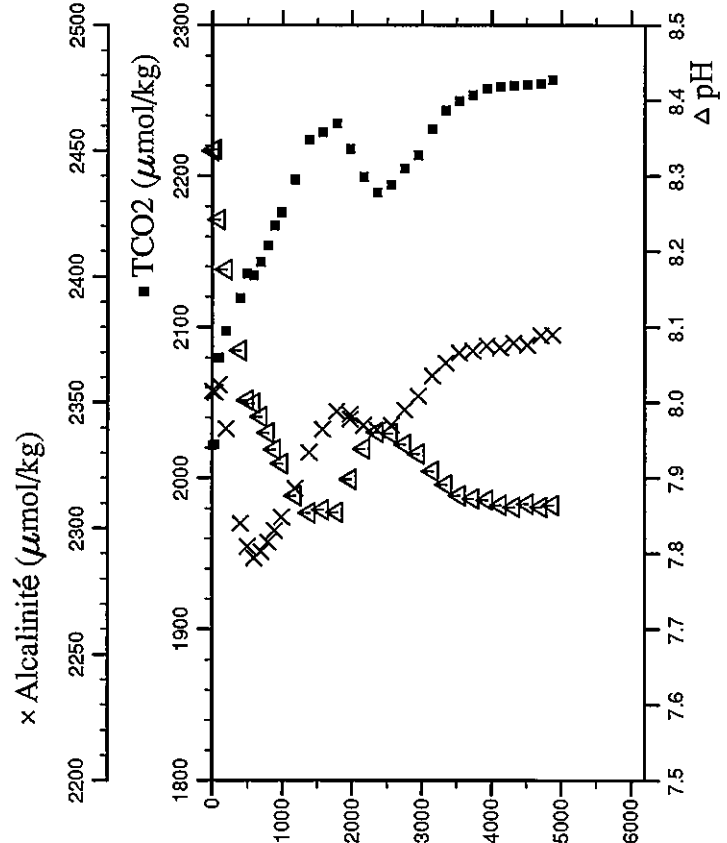
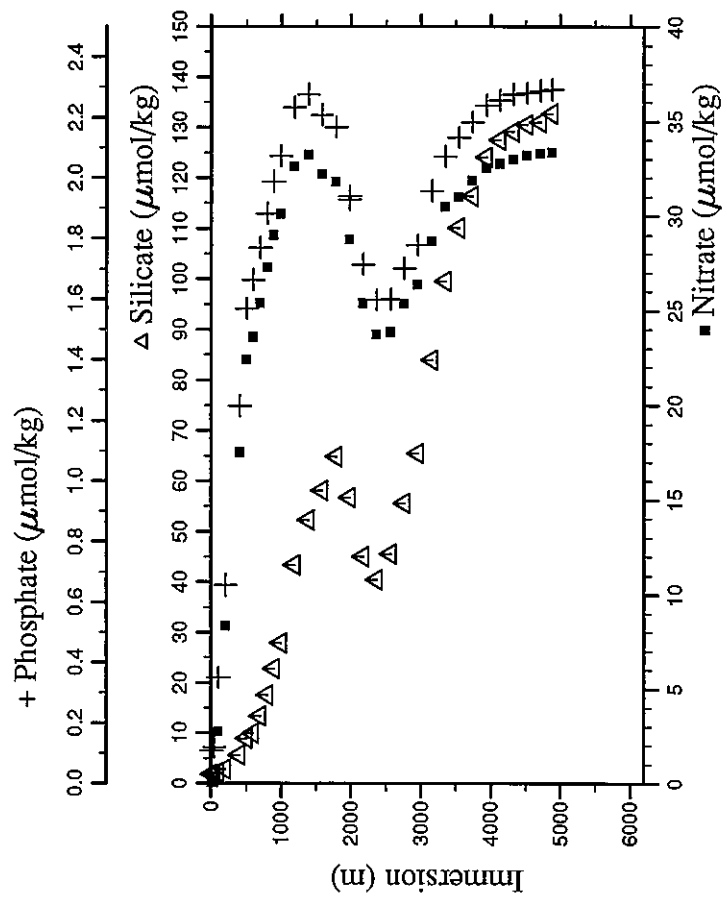
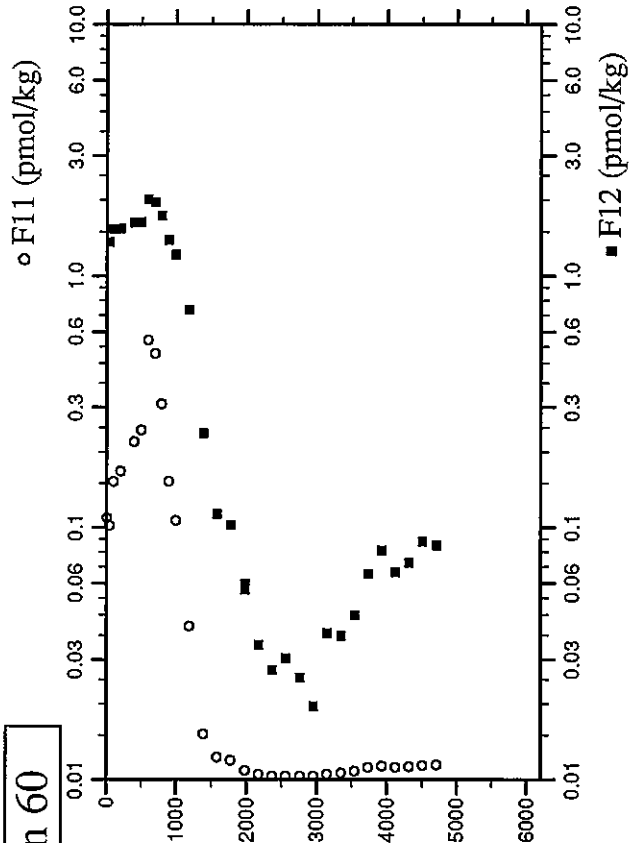
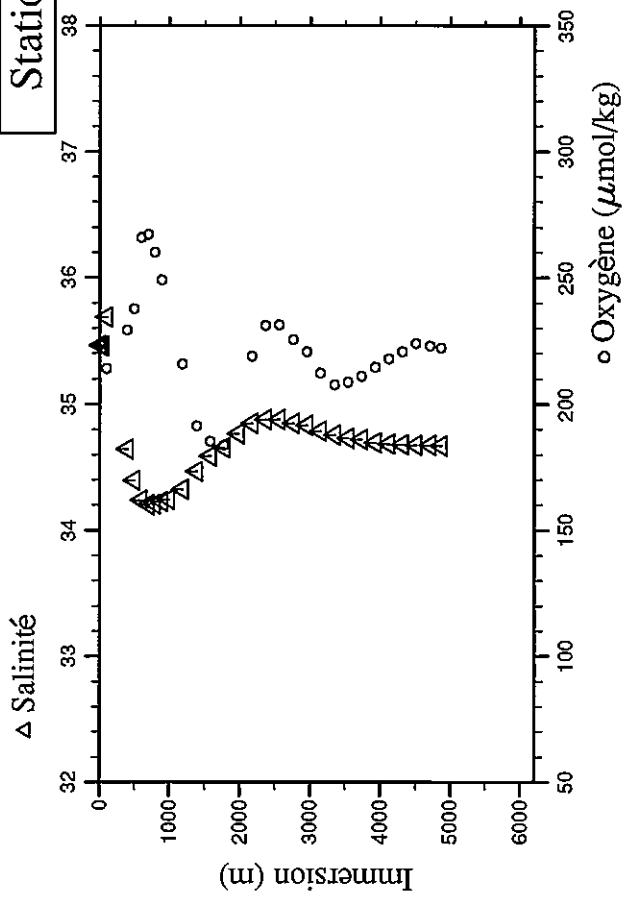
# Station 59



Station : 60 Campagne : CITHER 2  
 Date : 27-01-94 Heure : 23 h 5 mn  
 Position : S 35 35.76 W 43 53.39  
 Dernier niveau à : 4967  
 Nb prélèvements : 32

PRESSION CHEMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	PH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.2	7.1	21.210	24.8169	35.464	223.5	0.04	0.108	1.8	2.4210		2021.65	2354.5	8.334
40.5	40.2	21.192	24.9640	35.459	224.4	0.04	0.120	1.8	2.3492	1.3584	2022.06	2354.0	8.335
100.5	99.7	16.749	26.5383	35.687	214.0	2.75	0.351	2.2	2.7602	1.5280	2079.65	2357.0	8.242
199.8	198.3	13.926	27.3822	35.395	215.2	8.34	0.658	2.9	2.8540	1.5430	2097.62	2339.5	8.176
398.9	395.6	9.156	28.6122	34.648	229.2	17.52	1.249	5.7	3.1264	1.6258	2119.33	2301.9	8.069
502.6	498.3	6.793	29.2617	34.399	237.6	22.39	1.569	9.0	3.2368	1.6369	2135.45	2292.7	8.003
599.8	594.6	5.244	29.7942	34.239	265.8	23.59	1.665	10.0	4.0707	2.0161	2133.99	2288.2	7.999
701.8	695.5	4.553	30.3268	34.206	267.1	25.40	1.770	13.4	3.9495	1.9536	2142.90	2290.7	7.981
800.8	793.4	4.085	30.8390	34.211	259.9	27.29	1.882	17.6	3.4803	1.7289	2154.07	2294.5	7.960
899.8	891.3	3.761	31.3511	34.229	249.1	28.99	1.989	22.8	2.7633	1.3841	2167.08	2299.2	7.938
1001.1	991.4	3.378	31.8685	34.243	242.4	30.09	2.073	27.9	2.3983	1.2141	2176.08	2304.5	7.919
1199.3	1187.2	2.843	32.9081	34.327	215.8	32.61	2.234	43.4	1.4213	0.7325	2197.74	2315.9	7.877
1401.0	1386.1	2.803	33.9395	34.470	191.3	33.21	2.276	52.3	0.4239	0.2363	2223.89	2330.0	7.854
1600.6	1582.9	2.796	34.9424	34.591	185.2	32.19	2.209	58.2	0.2099	0.1133	2229.17	2339.2	7.858
1800.5	1779.7	2.640	35.9159	34.656	183.8	31.80	2.168	64.9	0.1827	0.1025	2234.76	2346.3	7.855
1998.0	1974.0	2.823	36.8621	34.767	199.8	28.73	1.929	56.7	0.0866	0.0566	2343.3	2343.3	7.899
1999.2	1975.2	2.822	36.8680	34.768	199.9	28.73	1.939	56.8	0.0864	0.0596	2218.15	2345.1	7.898
2198.7	2171.3	2.958	37.8016	34.848	218.7	25.40	1.714	45.0	0.0487	0.0342	2199.25	2340.7	7.939
2397.2	2366.2	2.897	38.7203	34.882	231.0	23.72	1.598	40.5	0.0342	0.0273	2189.27	2339.0	7.961
2597.5	2562.8	2.663	39.6383	34.879	231.2	23.88	1.601	45.5	0.0290	0.0303	2194.40	2340.9	7.959
2797.5	2758.8	2.367	40.5470	34.851	225.4	25.37	1.703	55.6	0.0343	0.0254	2204.95	2346.8	7.945
2998.0	2955.2	2.083	41.4564	34.832	220.7	26.37	1.779	65.5	0.0292	0.0195	2213.81	2352.4	7.932
3197.6	3150.5	1.666	42.3668	34.791	212.3	28.66	1.956	83.9	0.0502	0.0381	2230.90	2360.5	7.909
3400.0	3348.3	1.254	43.2934	34.756	207.6	30.46	2.070	99.6	0.0605	0.0371	2243.32	2365.8	7.891
3599.5	3543.2	0.927	44.2035	34.732	208.7	30.97	2.135	110.2	0.0793	0.0449	2249.84	2369.8	7.877
3796.3	3735.2	0.634	45.0951	34.720	210.9	31.87	2.186	116.4	0.1150	0.0654	2253.54	2370.5	7.873
3998.6	3932.5	0.348	46.0090	34.699	214.5	32.53	2.241	124.1	0.1244	0.0810	2257.98	2372.6	7.871
4197.7	4126.4	0.134	46.9005	34.685	217.7	32.73	2.258	127.6	0.1149	0.0664	2258.99	2371.9	7.864
4397.2	4320.6	-0.024	47.7836	34.681	220.7	33.98	2.276	129.2	0.1233	0.0723	2259.83	2373.5	7.862
4596.4	4514.3	-0.099	48.6502	34.678	223.9	33.19	2.280	130.6	0.1298	0.0879	2260.54	2372.8	7.866
4797.2	4709.4	-0.147	49.5170	34.676	222.9	33.29	2.288	131.1	0.1408	0.0850	2261.23	2376.7	7.862
4966.6	4873.8	-0.168	50.2422	34.672	222.0	33.34	2.294	132.8			2263.58	2376.8	7.864

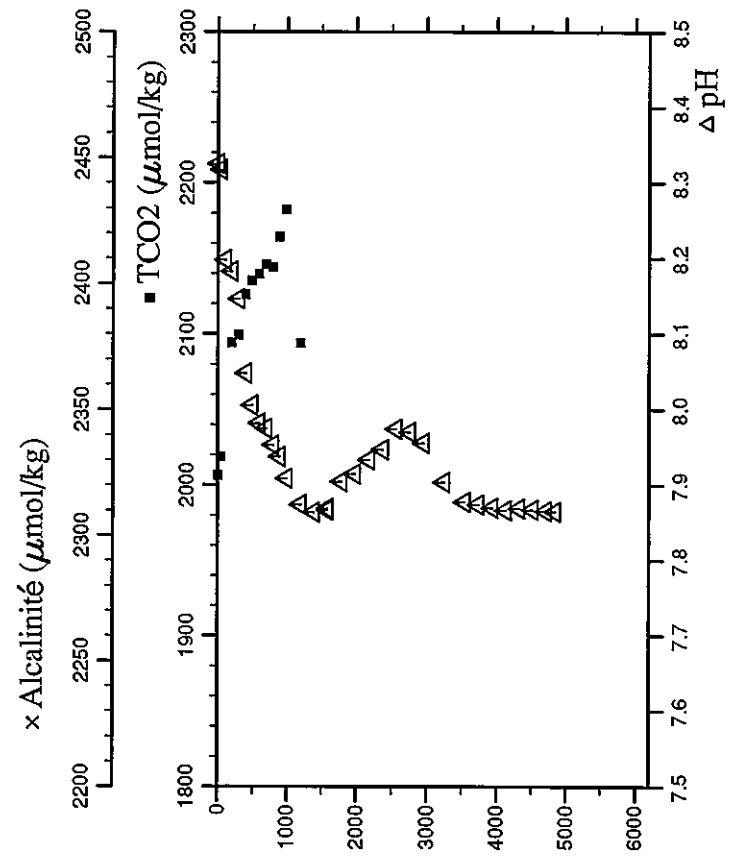
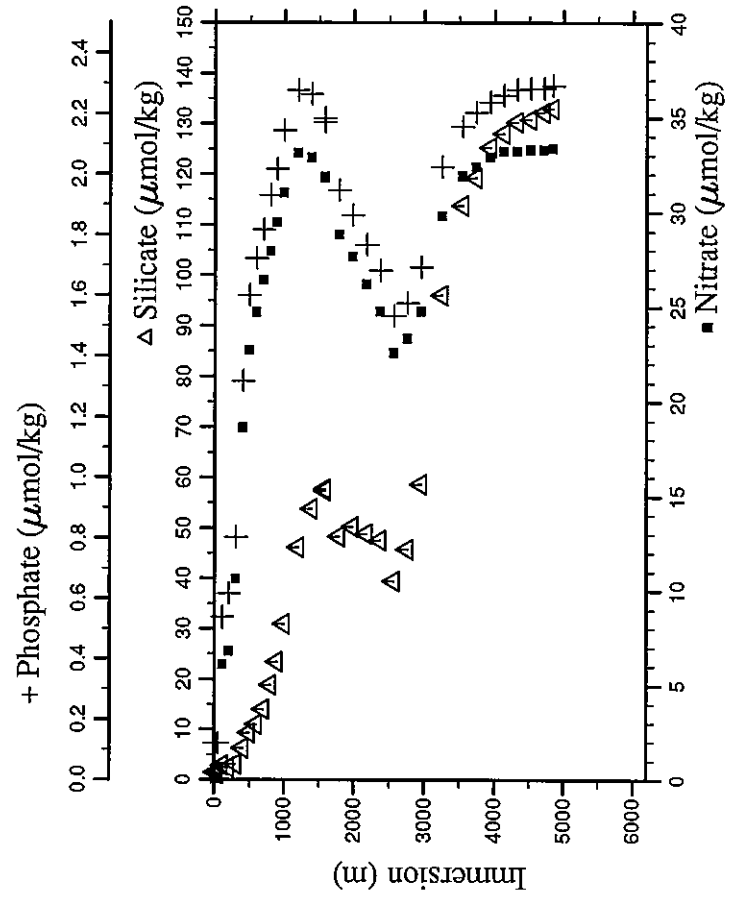
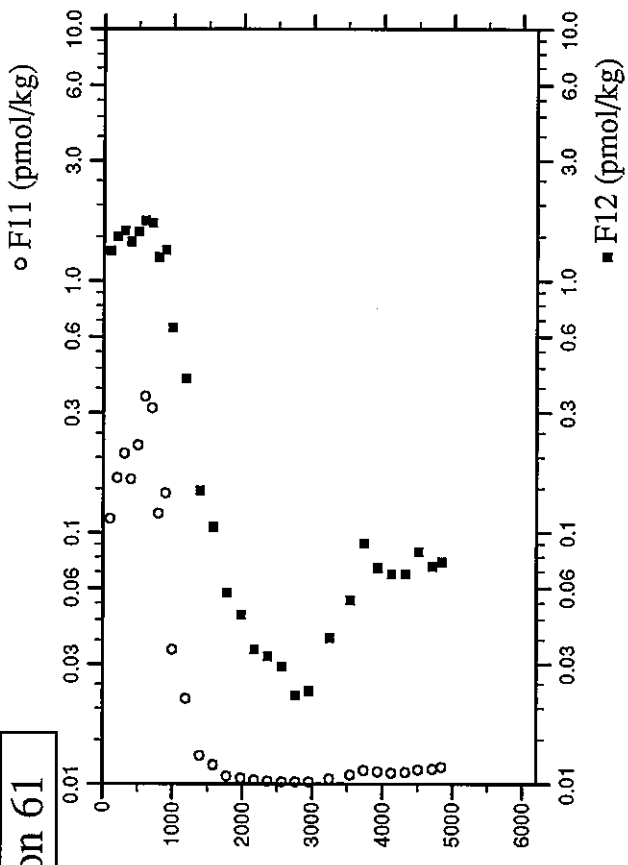
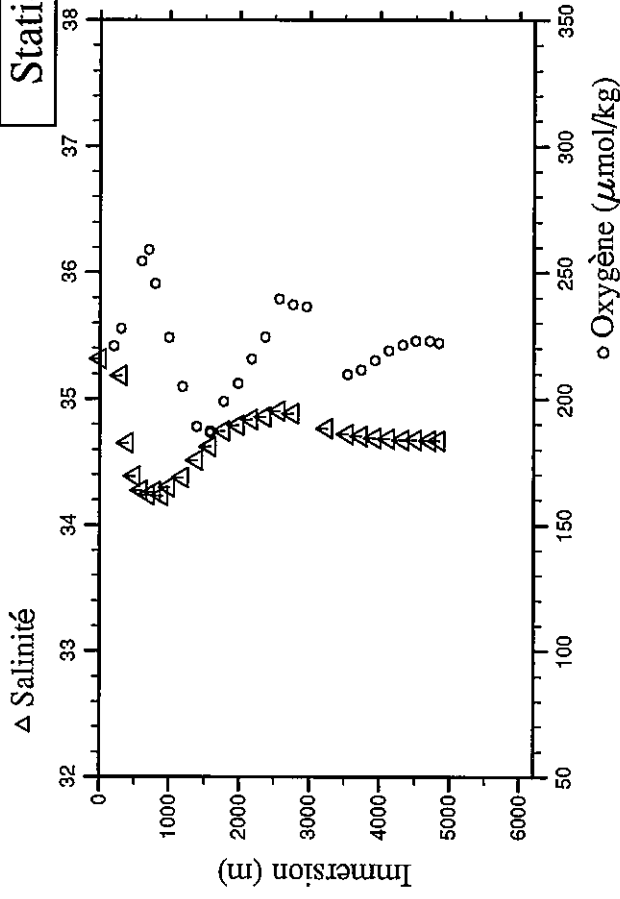
# Station 60



Station : 61 Campagne : CITHER 2  
 Date : 28-01-94 Heure : 5 h 29 mn  
 Position : S 35 12.66 W 43 33.18  
 Dernier niveau à : 4933  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.3	4.3	20.795	24.8084	35.319	226.3	r 0.04	0.121	1.5			2006.64		8.325
36.9	36.6	20.508	24.9939	35.322	r 231.9	r 0.04	0.122	1.3			2018.71		8.318
101.7	100.9	15.933	26.6991	35.646	r 195.9	r 6.10	0.538	2.8	2.4662	1.3173			8.198
200.8	199.2	14.217	27.4079	35.482	r 220.9	r 6.82	0.617	2.5	2.8429	1.4989	2094.03		8.183
301.9	299.5	12.377	28.0012	35.184	227.8	10.64	0.804	3.1	3.0714	1.5774	2099.10		8.146
400.4	397.1	9.043	28.6411	34.652	220.8	r 18.63	1.319	6.3	2.8323	1.4296	2125.87		8.048
500.8	496.6	6.708	29.2650	34.387	239.9	r 22.70	1.601	9.3	3.1479	1.5636	2135.41		8.006
600.3	595.1	5.437	29.8017	34.277	254.4	24.70	1.724	11.0	3.5964	1.7298	2139.47		7.982
700.6	694.4	4.731	30.3240	34.239	259.0	26.40	1.819	14.0	3.4890	1.6879	2145.87		7.975
800.9	793.6	4.451	30.8382	34.264	245.6	27.94	1.930	18.8	2.5090	1.2405	2144.39		7.953
899.8	891.4	3.712	31.3553	34.232	249.2	r 29.46	2.017	23.5	2.6990	1.3216	2164.30		7.938
999.8	990.2	3.616	31.8764	34.298	224.1	31.02	2.145	31.0	1.2498	0.6495	2182.44		7.909
1200.3	1188.2	2.916	32.9379	34.375	204.9	33.13	2.278	46.2	0.7903	0.4102	2093.96		7.874
1399.5	1384.7	2.901	33.9524	34.512	189.1	32.88	2.266	53.8	0.2613	0.1475			7.864
1599.0	1581.4	2.863	34.9489	34.625	187.2	31.86	2.173	57.4	0.1723	0.1045			7.867
1599.5	1581.9	2.860	34.9510	34.622	186.6	31.84	2.185	57.7	0.1773	0.1055			7.869
1799.8	1779.1	3.121	35.9159	34.747	199.1	28.80	1.947	48.3	0.0712	0.0576			7.905
1999.3	1975.4	2.974	36.8690	34.795	206.2	27.65	1.866	50.2	0.0550	0.0469			7.915
2201.6	2174.2	2.875	37.8177	34.837	215.7	26.21	1.767	48.9	0.0403	0.0342			7.934
2398.7	2367.8	2.767	38.7294	34.860	224.3	24.76	1.684	47.6	0.0285	0.0322			7.947
2598.2	2563.5	2.732	39.6472	34.903	239.3	22.59	1.532	39.5	0.0200	0.0293			7.974
2798.8	2760.2	2.497	40.5574	34.886	237.0	23.31	1.576	45.8	0.0191	0.0225			7.970
2998.1	2955.4	2.129	41.4670		236.4	24.73	1.693	58.7	0.0219	0.0234			7.956
3297.9	3248.7	1.351	42.8410	34.768	209.0	r 29.81	2.025	96.0	0.0476	0.0381			7.904
3599.0	3542.8	0.827	44.2122	34.722	209.6	31.90	2.158	113.0	0.0836	0.0537			7.878
3797.9	3736.9	0.558	45.1096	34.709	211.4	32.36	2.204	119.3	0.1285	0.0908			7.874
3999.1	3933.1	0.294	46.0193	34.694	215.2	32.92	2.239	125.3	0.1137	0.0723			7.870
4198.1	4126.9	-0.058	46.9106	34.685	219.1	33.22	2.262	128.1	0.1037	0.0684			7.867
4399.1	4322.6	-0.075	47.7971	34.678	221.4	33.23	2.280	130.3	0.1080	0.0684			7.869
4597.0	4515.0	-0.131	48.6576	34.676	222.9	33.29	2.283	130.8	0.1349	0.0840			7.868
4797.5	4709.8	-0.162	49.5198	34.674	223.0	33.29	2.285	132.2	0.1392	0.0732			7.866
4930.5	4839.0	-0.179	50.0890	34.673	222.1	33.35	2.294	133.0	0.1556	0.0762			7.865

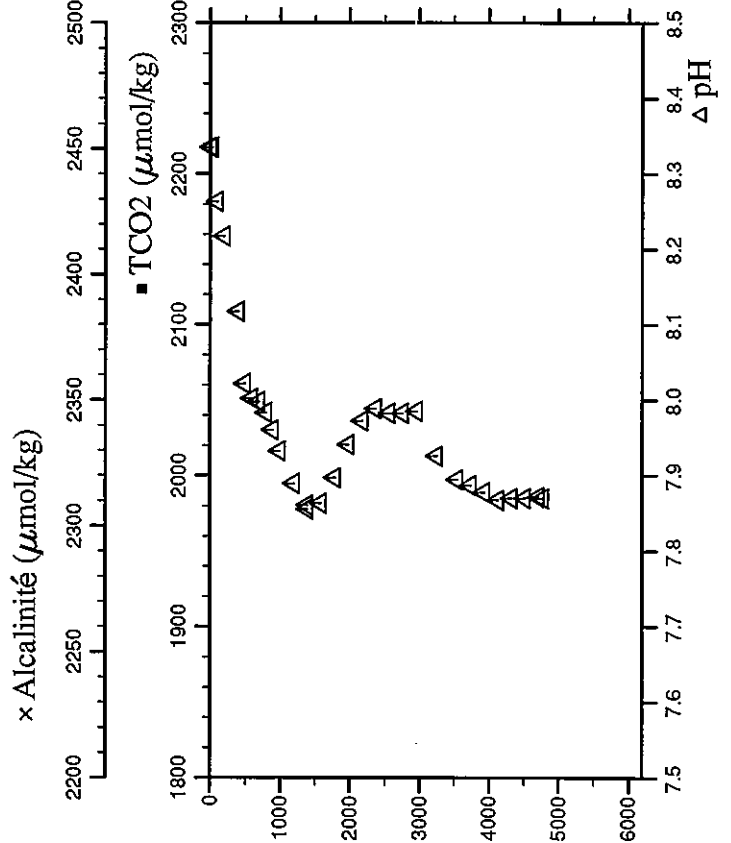
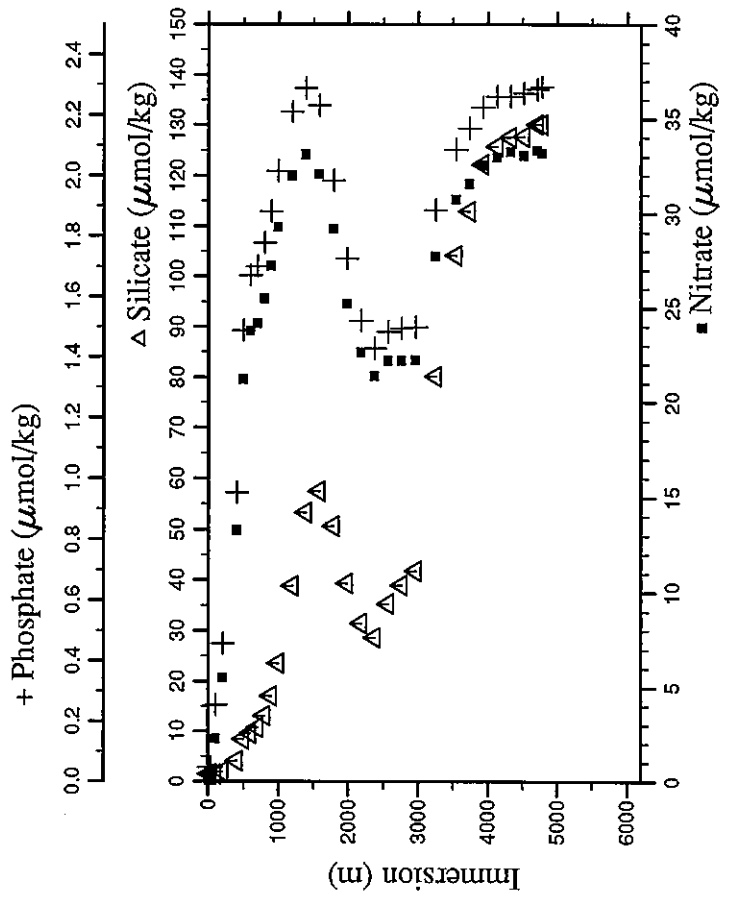
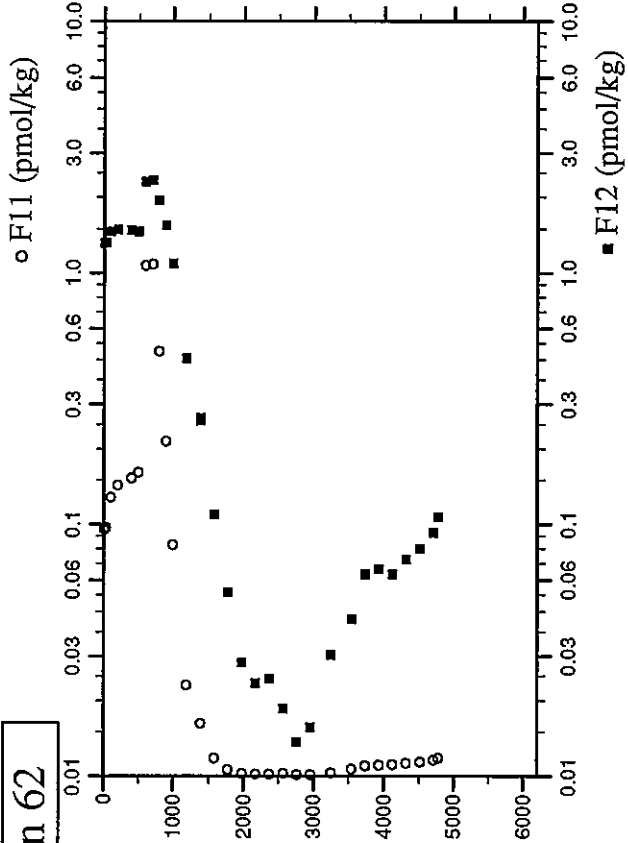
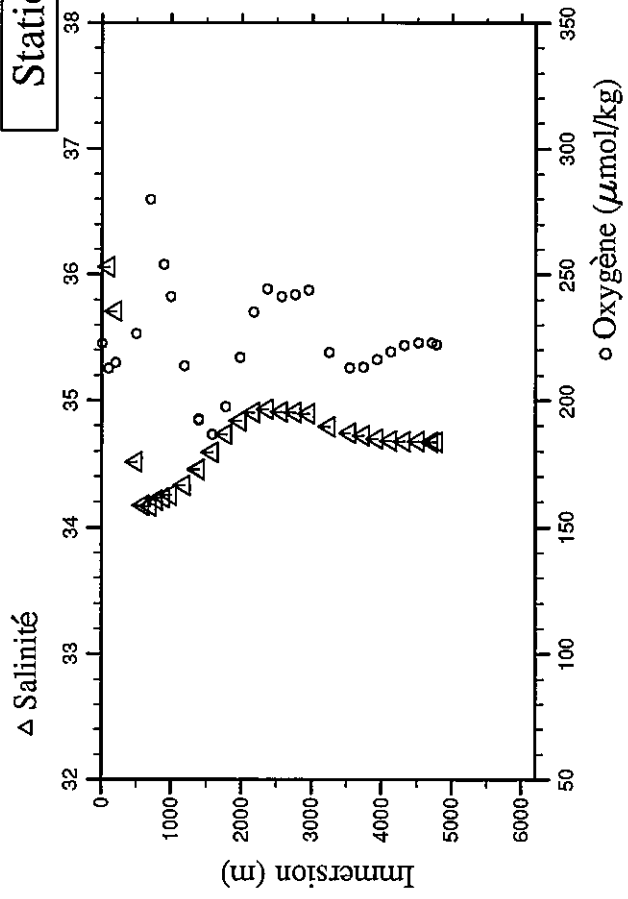
**Station 61**



Station : 62 Campagne : CITHER 2  
 Date : 28-01-94 Heure : 11 h 55 mn  
 Position : S 34 49.09 W 43 12.33  
 Dernier niveau à : 4864  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.3	7.2	21.792	24.8905	35.773	r 222.7	0.04	0.048	1.4	2.2883	1.3123			8.335
36.0	35.7	21.719	25.0365	35.779	r 222.6	r 0.04	0.048	1.4	2.3065	1.3230			8.335
99.3	98.6	17.663	26.5954	36.061	212.7	2.26	0.254	1.5	2.5798	1.4573			8.263
198.6	197.1	15.516	27.2720	35.708	214.9	5.53	0.459	2.0	2.6941	1.4831			8.218
401.0	397.7	11.542	28.4958	35.034	r 219.9	r 13.29	0.954	4.1	2.7584	1.4740			8.118
499.5	495.3	7.808	29.1861	34.515	226.5	21.21	1.489	8.4	2.8115	1.4570			8.022
600.4	595.2	4.940	29.7861	34.175	275.2	r 23.80	1.670	9.6	4.7383	2.3033			8.002
701.0	694.8	4.647	30.2794	34.169	279.9	24.18	1.699	10.7	4.7477	2.3278			7.998
800.0	792.7	4.646	30.7648	34.213	268.0	r 25.49	1.779	13.1	3.9378	1.9477			7.984
899.9	891.5	4.355	31.2809	34.236	254.0	27.21	1.882	17.1	3.1055	1.5453			7.961
999.0	989.4	3.927	31.8028	34.257	241.1	29.28	2.016	23.6	2.1463	1.0891			7.933
1199.8	1187.7	3.176	32.8723	34.332	213.7	32.00	2.210	38.8	0.8463	0.4551			7.890
1399.2	1384.5	2.805	33.9206	34.455	192.6	33.08	2.290	53.3	0.4884	0.2588			7.856
1399.5	1384.8	2.811	33.9237	34.457	192.2	33.13	2.290	53.3	0.4866	0.2637			7.861
1598.8	1581.2	2.803	34.9330	34.591	186.4	32.07	2.232	57.5	0.1679	0.1094			7.863
1798.4	1777.8	3.003	35.9137	34.732	197.5	29.20	1.983	50.6	0.0642	0.0537			7.897
1997.3	1973.5	3.191	36.8610	34.837	217.1	25.23	1.725	39.3	0.0230	0.0283			7.941
2202.8	2175.5	3.214	37.8236	34.906	235.2	22.63	1.519	31.5	0.0177	0.0234			7.973
2400.3	2369.4	3.133	38.7315	34.929	244.2	21.38	1.428	28.6	0.0179	0.0244			7.989
2598.9	2564.3	2.859	39.6381	34.910	241.2	22.19	1.483	35.3	0.0240	0.0185			7.983
2797.3	2758.8	2.624	40.5450	34.906	241.9	22.20	1.495	39.0	0.0160	0.0137			7.983
2999.1	2956.4	2.431	41.4582	34.897	243.7	22.24	1.499	41.8	0.0158	0.0156			7.985
3299.4	3250.2	1.624	42.8274	34.796	219.1	27.73	1.887	80.1	0.0337	0.0303			7.926
3598.7	3542.6	0.969	44.1998	34.743	212.9	30.76	2.086	104.2	0.0669	0.0420			7.895
3796.5	3735.7	0.649	45.0954	34.722	213.2	31.55	2.156	112.9	0.0987	0.0635			7.887
3996.7	3930.9	0.287	46.0099	34.695	216.3	32.54	2.226	122.2	0.1029	0.0664			7.878
4196.7	4125.7	0.059	46.9055	34.681	219.4	32.95	2.262	125.8	0.1115	0.0635			7.868
4397.7	4321.4	-0.060	47.7906	34.675	221.8	33.26	2.261	127.6	0.1178	0.0723			7.870
4597.4	4515.6	-0.129	48.6582	34.675	222.9	33.06	2.273	127.7	0.1320	0.0801			7.870
4800.2	4712.6	-0.171	49.5328	34.671	222.8	33.32	2.284	130.1	0.1520	0.0928			7.872
4864.0	4774.6	-0.176	49.8067	34.672	222.0	33.18	2.293	130.1	0.1661	0.1064			7.870

**Station 62**

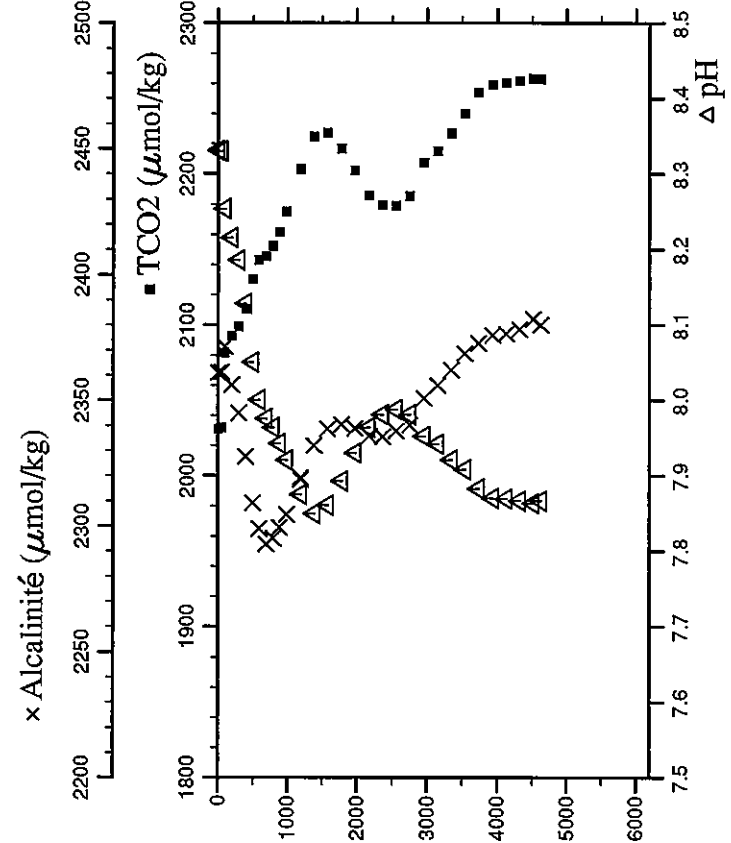
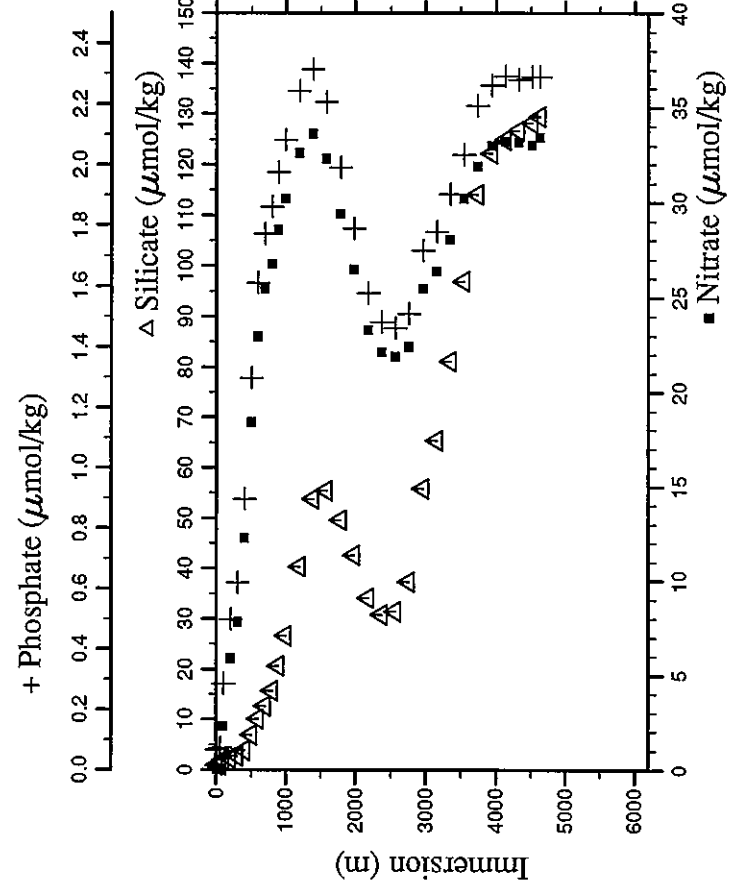
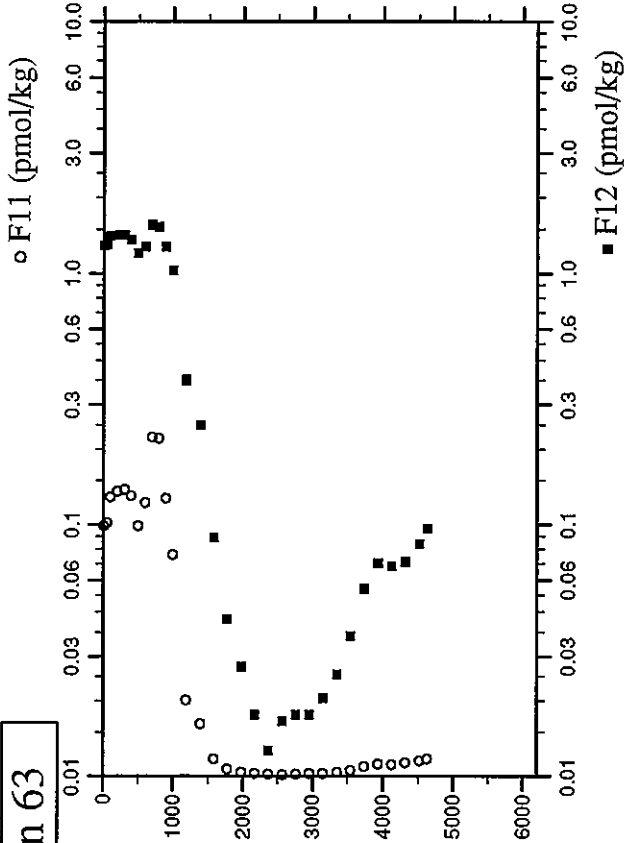
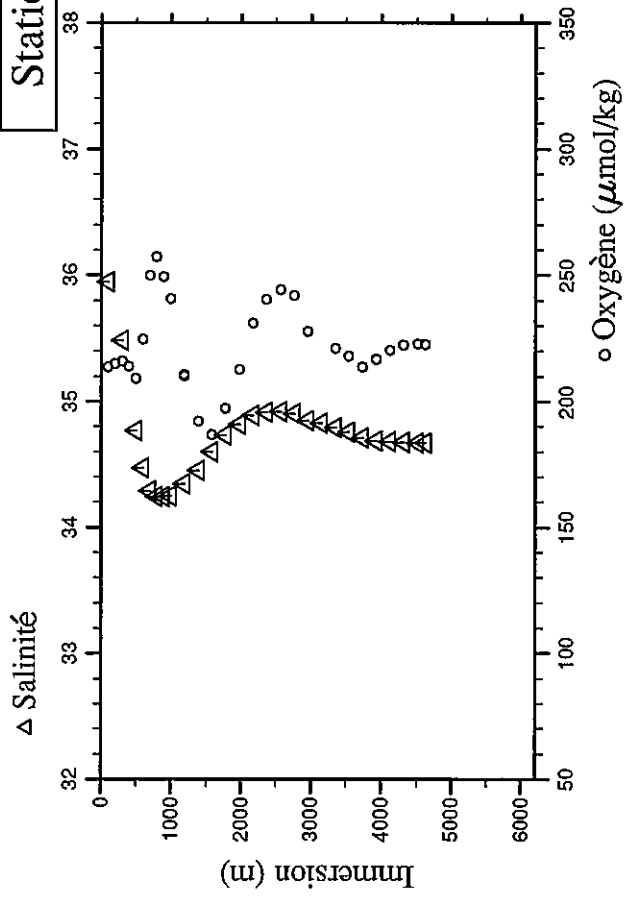


Station : 63 Campagne : CITHER 2  
 Date : 28-01-94 Heure : 18 h 4 mn  
 Position : S 34 25.14 W 42 51.12  
 Dernier niveau à : 4716  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
8.1	8.0	21.454	24.9071	35.674	224.6	0.04	0.066	1.0	2.3226	1.2919	2030.89	2360.8	8.331
51.1	50.7	21.158	25.2027	35.688	226.1	0.04	0.072	1.0	2.3539	1.3104	2032.13	2361.2	8.330
100.9	100.2	17.438	26.5810	35.949	213.6	2.31	0.285	1.9	2.5872	1.4126	2081.31	2371.4	8.254
202.5	200.9	15.289	27.3153	35.685	215.1	5.89	0.498	2.3	2.6415	1.4158	2092.61	2356.1	8.216
301.2	298.8	14.170	27.8490	35.487	216.0	7.84	0.619	2.7	2.6617	1.4150	2098.78	2344.9	8.186
401.2	397.9	12.182	28.4319	35.140	213.9	12.27	0.898	3.9	2.5981	1.3588	2110.79	2327.6	8.129
501.9	497.7	9.656	29.0773	34.768	209.2	18.40	1.297	6.9	2.3223	1.2019	2130.09	2309.1	8.051
601.0	595.8	7.143	29.7108	34.472	224.6	22.95	1.611	10.1	2.5329	1.2794	2142.84	2298.9	8.001
701.1	694.9	5.339	30.2851	34.288	249.9	25.45	1.773	12.6	3.1433	1.5559	2145.69	2292.8	7.976
801.0	793.7	4.579	30.8053	34.245	257.3	26.76	1.862	15.7	3.1340	1.5286	2152.19	2295.1	7.964
900.1	891.7	4.027	31.3249	34.242	249.4	28.53	1.976	20.7	2.5746	1.2796	2161.79	2299.3	7.943
999.6	990.0	3.586	31.8440	34.250	240.8	30.20	2.081	26.6	2.0546	1.0266	2175.32	2304.5	7.921
1199.8	1187.8	3.123	32.8896	34.345	210.2	32.82	2.243	40.4	0.7097	0.3731	2203.12	2319.1	7.875
1200.3	1188.3	3.133	32.8897	34.346	210.6	32.62	2.243	40.4	0.7051	0.3770	2318.4	2318.4	7.875
1400.6	1385.9	2.760	33.9353	34.451	192.2	33.63	2.314	53.8	0.4887	0.2490	2224.53	2331.8	7.850
1599.1	1581.6	2.861	34.9324	34.598	186.9	32.32	2.206	55.5	0.1601	0.0889	2227.43	2338.4	7.861
1800.2	1779.6	3.020	35.9197	34.732	197.1	29.39	1.991	49.6	0.0661	0.0420	2216.71	2340.4	7.893
1999.2	1975.4	3.100	36.8696	34.821	212.8	26.46	1.790	42.6	0.0346	0.0273	2202.26	2338.8	7.930
2200.6	2173.4	3.160	37.8126	34.892	231.0	23.28	1.577	34.1	0.0244	0.0176	2185.83	2335.8	7.964
2397.9	2367.2	3.104	38.7177	34.918	240.3	22.14	1.482	30.8	0.0204	0.0127	2179.22	2335.5	7.981
2598.5	2564.0	2.961	39.6330	34.921	244.2	21.90	1.463	31.5	0.0146	0.0166	2179.18	2337.8	7.988
2799.6	2761.2	2.684	40.5466	34.907	241.9	22.42	1.510	37.3	0.0207	0.0176	2185.23	2340.1	7.981
2998.9	2956.4	2.263	41.4462	34.851	227.8	25.45	1.717	55.9	0.0228	0.0176	2207.34	2350.7	7.952
3198.7	3151.9	1.963	42.3558	34.829	224.3	26.36	1.778	65.4	0.0277	0.0205	2214.91	2355.7	7.942
3398.4	3347.1	1.505	43.2776	34.793	221.0	28.02	1.904	81.2	0.0404	0.0254	2226.88	2361.9	7.921
3596.5	3540.6	1.045	44.1903	34.759	218.1	30.20	2.032	96.9	0.0575	0.0361	2240.11	2368.5	7.908
3798.2	3737.5	0.570	45.1133	34.713	213.7	31.91	2.194	114.1	0.0883	0.0557	2254.13	2372.5	7.883
3999.7	3933.9	0.196	46.0341	34.688	216.7	32.97	2.261	122.2	0.1149	0.0703	2259.14	2376.0	7.870
4197.2	4126.4	0.006	46.9148	34.681	220.3	33.23	2.291	124.9	0.1059	0.0684	2260.27	2376.5	7.869
4397.0	4320.8	-0.102	47.7939	34.678	222.3	33.18	2.280	126.6	0.1237	0.0713	2261.40	2378.1	7.867
4598.1	4516.4	-0.158	48.6668	34.674	223.0	33.03	2.289	128.2	0.1420	0.0840	2263.10	2382.2	7.863
4712.5	4627.6	-0.177	49.1591	34.673	222.6	33.43	2.288	129.4	0.1605	0.0967	2262.67	2379.9	7.867



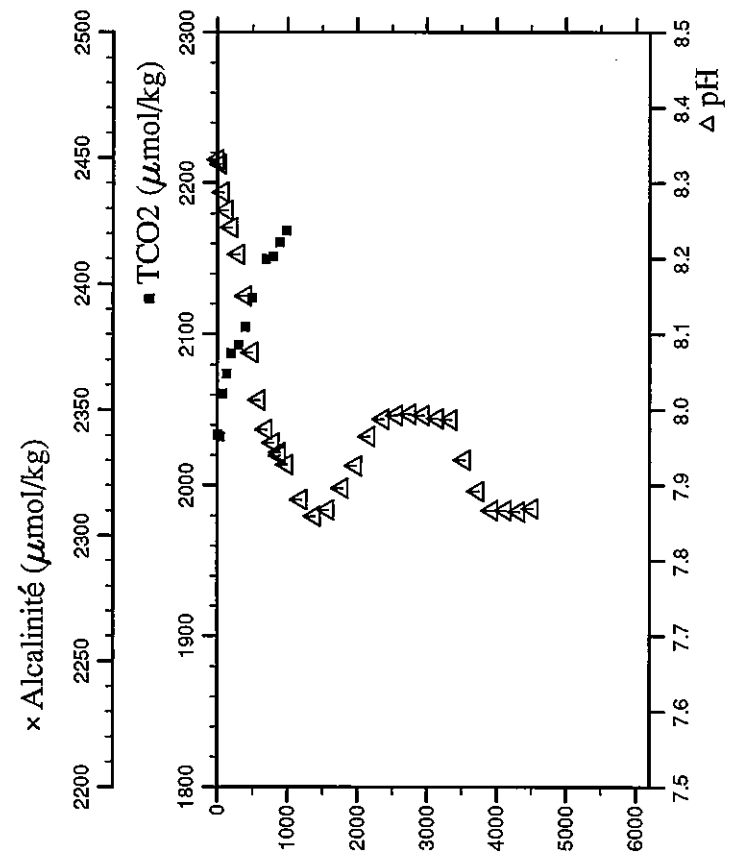
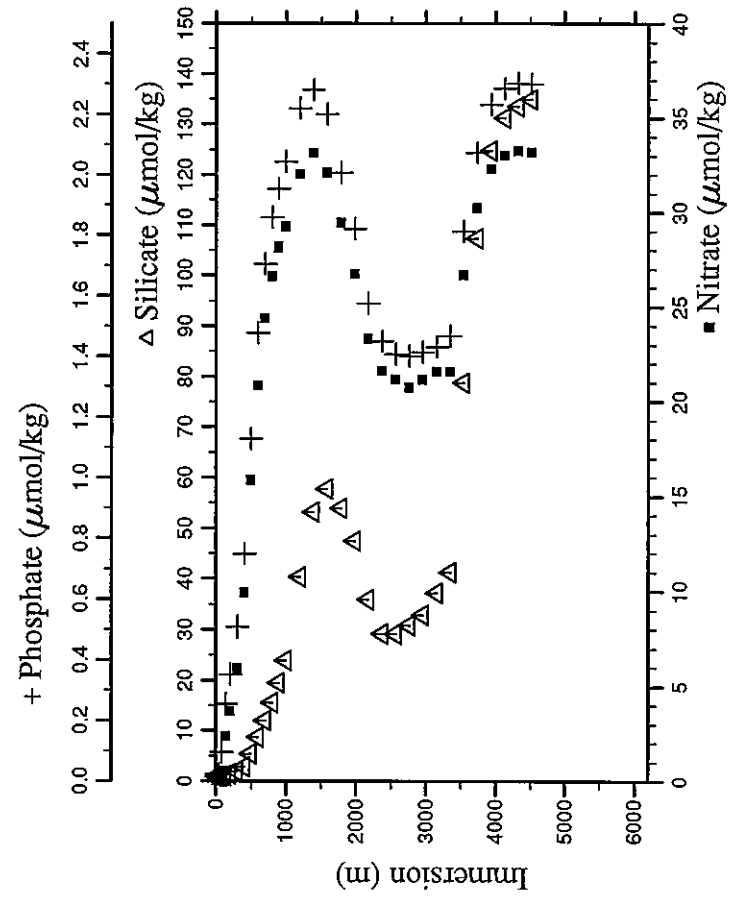
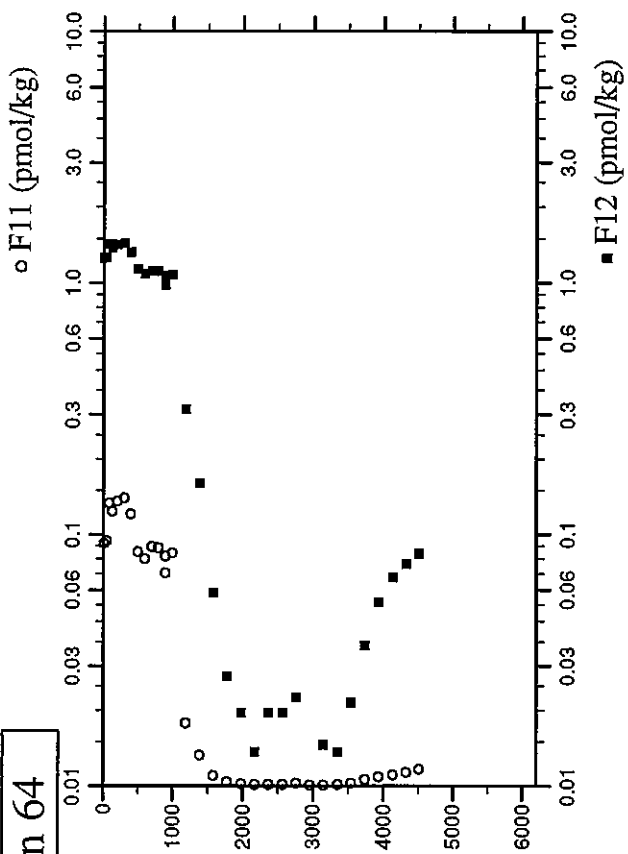
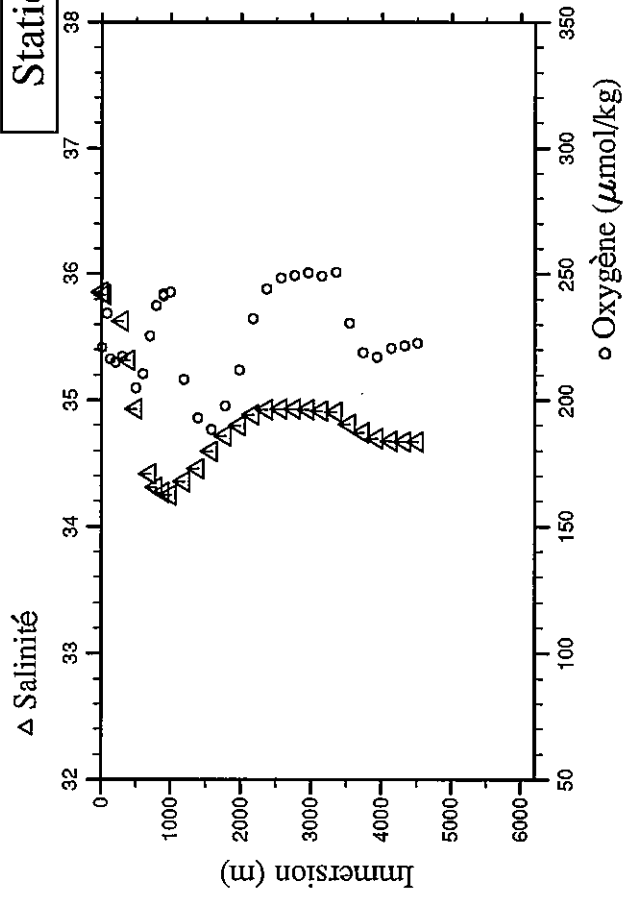
**Station 63**



Station : 64 Campagne : CITHER 2  
 Date : 28-01-94 Heure : 23 h 52 mn  
 Position : S 34 1.49 W 42 30.27  
 Dernier niveau à : 4597  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.6	5.6	21.949	24.9041	35.855	220.9	0.04	0.024	1.0	2.2533	1.2569	2033.62		8.331
40.1	39.8	21.803	25.0770	35.836	221.6	0.04	0.024	1.0	2.2734	1.2638	2032.46		8.325
81.4	80.8	17.760	26.4161	35.966	234.2	0.04	0.097	0.9	2.6264	1.4247	2060.57		8.288
130.6	129.6	17.537	26.7773	36.082	216.3	2.37	0.255	1.1	2.5480	1.3797	2074.04		8.264
200.0	198.5	16.573	27.1932	35.902	215.0	3.69	0.352	1.5	2.6429	1.4159	2087.40		8.241
300.2	297.8	14.968	27.7774	35.628	217.2	5.98	0.509	2.0	2.6740	1.4357	2092.97		8.206
400.1	396.9	13.284	28.3441	35.315	211.5	9.92	0.749	2.9	2.5255	1.3209	2104.65		8.151
500.1	495.9	10.843	28.9806	34.932	204.7	15.87	1.127	5.4	2.1738	1.1338	2123.88		8.076
598.6	593.5	8.419	29.6257	34.628	210.3	20.85	1.477	8.7	2.1060	1.0832			8.013
699.7	693.5	6.440	30.2291	34.418	225.3	24.41	1.705	12.0	2.2197	1.1186	2149.65		7.974
799.9	792.7	5.122	30.7797	34.311	237.4	26.61	1.858	15.6	2.2113	1.1079	2151.46		7.957
899.9	891.5	4.360	31.3055	34.270	241.9	28.19	1.955	19.5	1.9747	0.9790	2160.63		7.940
900.0	891.6	4.384	31.3026	34.269	241.1	28.11	1.955	19.5	2.1340	1.0640			7.944
999.8	990.3	3.781	31.8176	34.248	242.6	29.27	2.043	24.0	2.1604	1.0796	2168.45		7.928
1201.0	1189.0	3.246	32.8890	34.356	208.2	32.03	2.219	40.3	0.5849	0.3146			7.881
1399.7	1385.1	2.823	33.9254	34.460	193.0	33.14	2.281	53.2	0.2874	0.1602			7.859
1599.5	1582.0	2.761	34.9412	34.593	188.2	32.09	2.200	57.8	0.0973	0.0586			7.868
1798.9	1778.4	2.876	35.9248	34.717	197.8	29.45	2.008	54.0	0.0356	0.0273			7.896
1999.6	1975.9	2.916	36.8807	34.800	211.9	26.75	1.821	47.5	0.0219	0.0195			7.926
2198.2	2171.1	3.078	37.8083	34.883	232.2	23.31	1.575	35.9	0.0133	0.0137			7.965
2398.4	2367.7	3.087	38.7261	34.927	244.1	21.61	1.449	29.2	0.0144	0.0195			7.988
2599.1	2564.7	2.969	39.6378	34.931	248.3	21.17	1.408	29.2	0.0124	0.0195			7.993
2799.6	2761.2	2.828	40.5415	34.930	249.4	20.73	1.402	30.8	0.0244	0.0225			7.995
2997.9	2955.5	2.688	41.4306	34.924	250.4	21.14	1.413	32.8	0.0098	0.0088			7.993
3198.3	3151.6	2.489	42.3318	34.914	249.1	21.59	1.431	37.2	0.0101	0.0146			7.989
3398.2	3347.0	2.249	43.2337	34.903	250.6	21.59	1.468	41.2	0.0137	0.0137			7.987
3599.1	3543.3	1.493	44.1672	34.810	230.4	26.69	1.812	78.8	0.0280	0.0215			7.934
3797.6	3737.0	0.843	45.0895	34.742	218.8	30.25	2.072	107.3	0.0592	0.0361			7.892
3997.8	3932.2	0.294	46.0151	34.697	217.0	32.31	2.231	124.7	0.0872	0.0537			7.867
4199.4	4128.6	-0.032	46.9314	34.679	220.7	33.02	2.284	131.3	0.1031	0.0674			7.867
4399.2	4323.1	-0.153	47.8111	34.673	221.7	33.27	2.302	133.5	0.1293	0.0762			7.865
4596.3	4514.8	-0.163	48.6588	34.672	222.5	33.18	2.299	134.9	0.1579	0.0840			7.869

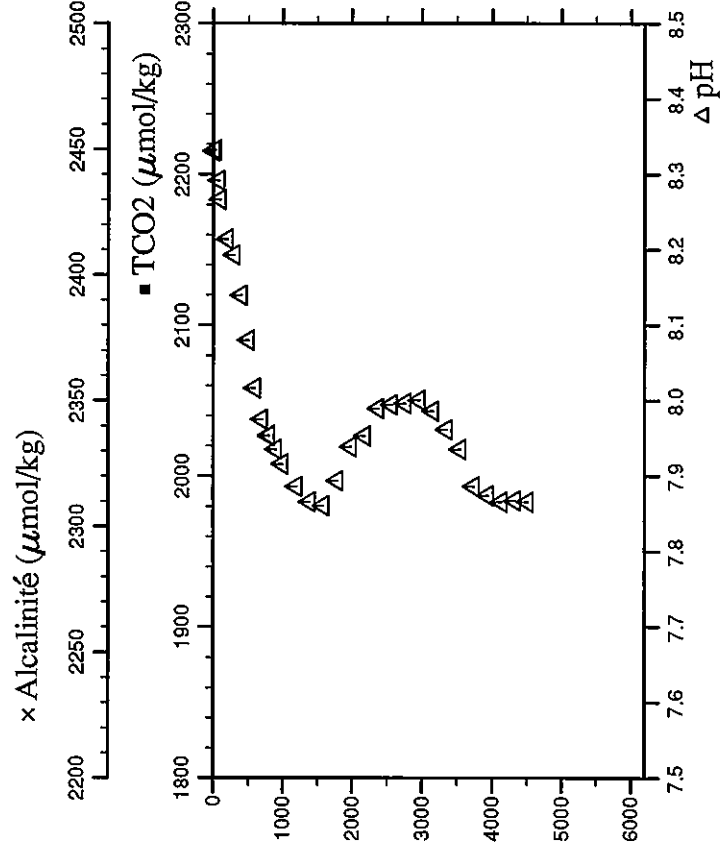
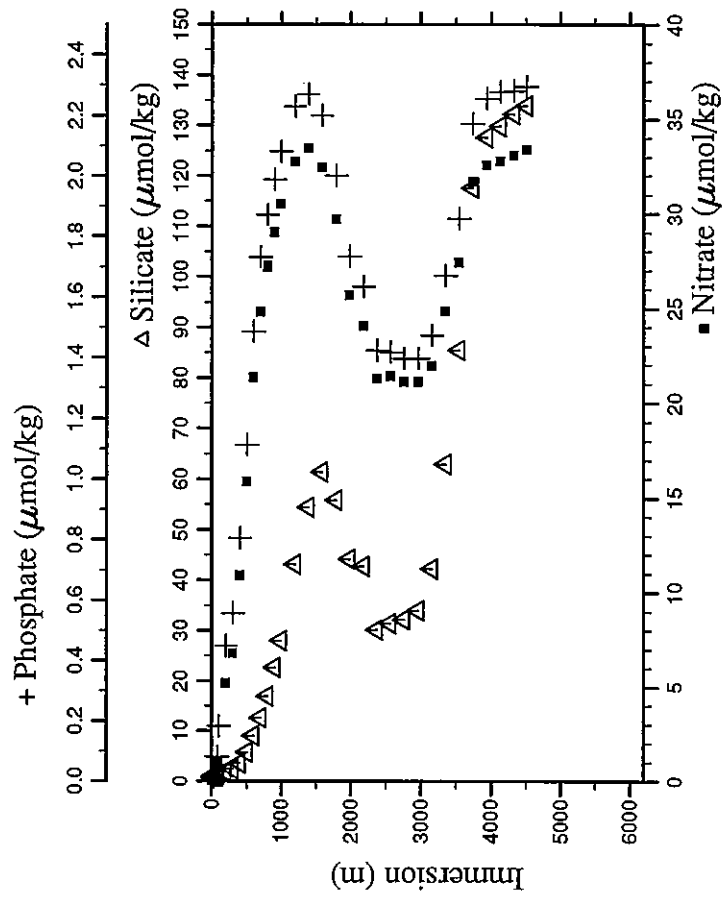
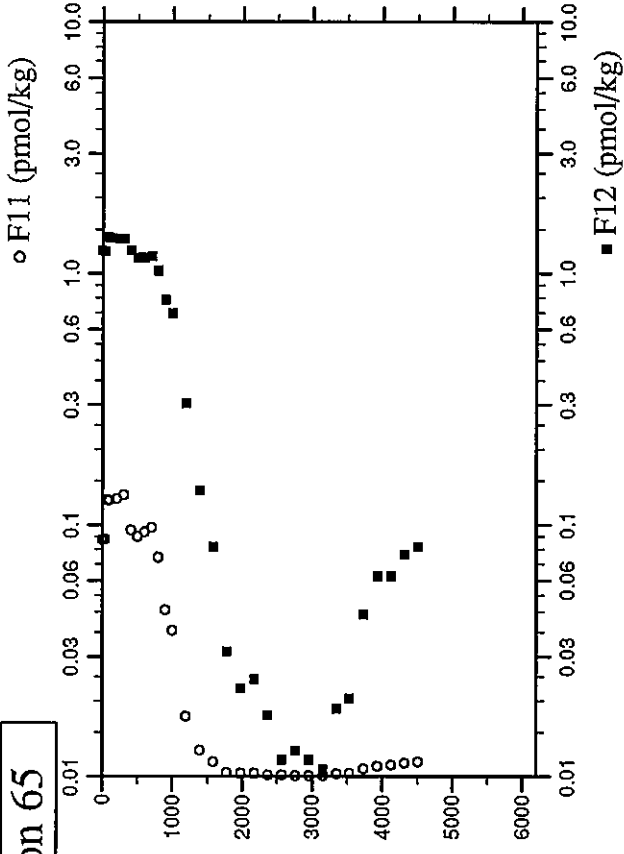
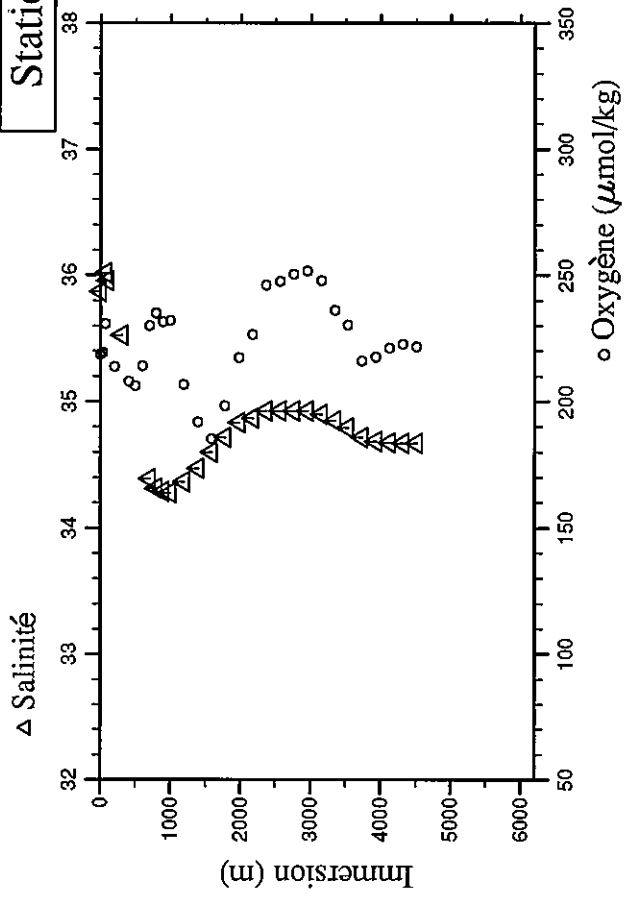
Station 64



Station : 65 Campagne : CITHER 2  
 Date : 29-01-94 Heure : 5 h 47 mn  
 Position : S 33 37.93 W 42 9.48  
 Dernier niveau à : 4590  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT. NITE	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
2.3	2.3	22.329	24.7964	35.874	218.5	0.04	0.012	0.9	2.1995	1.2325			8.331
35.5	35.2	22.332	24.9398	35.883	219.2	0.04	0.012	0.9	2.2055	1.2286			8.333
75.5	74.9	18.337	26.2961	36.019	230.7	0.04	0.081	1.0	2.5637	1.4031			8.292
100.0	99.3	17.653	26.5308	35.959	220.0	1.01	0.182	1.3	2.5636	1.3846			8.267
201.6	200.1	15.606	27.2243	35.645	223.7	5.21	0.449	2.0	2.5782	1.3772			8.214
301.6	299.2	14.613	27.7916	35.526	213.1	6.82	0.558	2.4	2.6101	1.3675			8.193
402.6	399.4	12.904	28.3773	35.229	207.8	10.90	0.806	3.6	2.2879	1.2321			8.140
501.5	497.3	10.730	29.0027	34.933	206.0	15.87	1.114	5.8	2.2286	1.1562			8.080
599.7	594.6	8.214	29.6402	34.595	213.9	21.37	1.486	9.1	2.2702	1.1575			8.017
702.2	696.0	6.195	30.2446	34.391	230.0	24.82	1.732	12.6	2.3100	1.1723			7.975
800.1	792.9	5.113	30.7872	34.318	235.0	27.19	1.872	16.9	2.0354	1.0297			7.953
800.3	793.1	5.100	30.7894	34.318	234.8	27.24	1.872	16.9	2.0315	1.0229			7.954
901.7	893.4	4.351	31.3306	34.292	231.5	29.01	1.989	22.7	1.5465	0.7875			7.935
1001.6	992.1	3.776	31.8521	34.279	232.0	30.52	2.082	28.0	1.3528	0.6947			7.916
1199.9	1187.9	3.157	32.9040	34.367	206.6	32.74	2.229	43.2	0.5580	0.3048			7.886
1399.5	1384.9	2.832	33.9283	34.471	191.9	33.45	2.269	54.5	0.2473	0.1368			7.866
1600.3	1582.9	2.749	34.9570	34.600	185.3	32.45	2.199	61.5	0.1389	0.0820			7.861
1800.4	1779.9	2.801	35.9347	34.716	198.1	29.69	2.001	55.9	0.0367	0.0313			7.894
1999.6	1975.9	3.049	36.8937	34.834	217.3	25.68	1.734	44.1	0.0329	0.0225			7.939
2201.7	2174.6	2.959	37.8334	34.872	226.5	24.06	1.634	42.7	0.0320	0.0244			7.953
2399.6	2369.0	3.026	38.7461	34.928	246.1	21.28	1.424	30.2	0.0121	0.0176			7.990
2598.6	2564.3	2.867	39.6486	34.926	247.6	21.41	1.419	31.5	0.0127	0.0117			7.995
2800.2	2761.9	2.718	40.5620	34.927	250.3	21.13	1.398	32.2	0.0071	0.0127			7.996
2999.7	2957.3	2.580	41.4561	34.924	251.5	21.13	1.397	34.0	0.0095	0.0117			8.001
3200.6	3153.9	2.324	42.3599	34.899	247.9	21.95	1.473	42.3	0.0089	0.0107			7.986
3397.9	3346.9	1.851	43.2570	34.848	236.1	24.84	1.670	63.0	0.0250	0.0186			7.962
3593.4	3537.8	1.282	44.1668	34.795	230.3	27.42	1.859	85.5	0.0314	0.0205			7.935
3797.5	3737.0	0.562	45.1156	34.716	215.9	31.71	2.172	117.7	0.0750	0.0440			7.886
3997.6	3932.2	0.172	46.0292	34.687	217.5	32.57	2.255	127.7	0.0970	0.0625			7.874
4196.5	4126.0	-0.041	46.9200	34.677	221.1	32.78	2.279	129.8	0.1104	0.0625			7.866
4397.7	4321.8	-0.134	47.8016	34.674	222.5	33.08	2.281	132.2	0.1241	0.0762			7.868
4587.3	4506.2	-0.165	48.6201	34.673	221.6	33.39	2.296	133.9	0.1402	0.0820			7.866

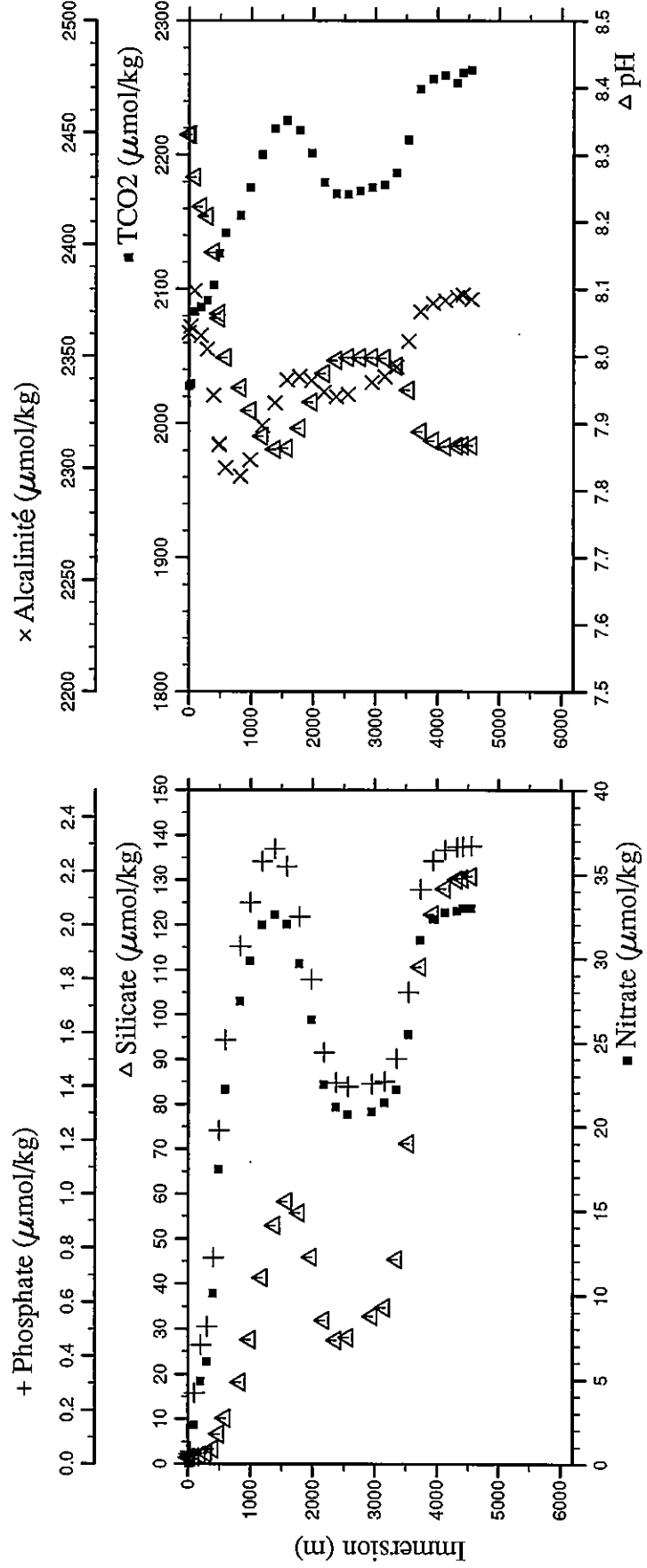
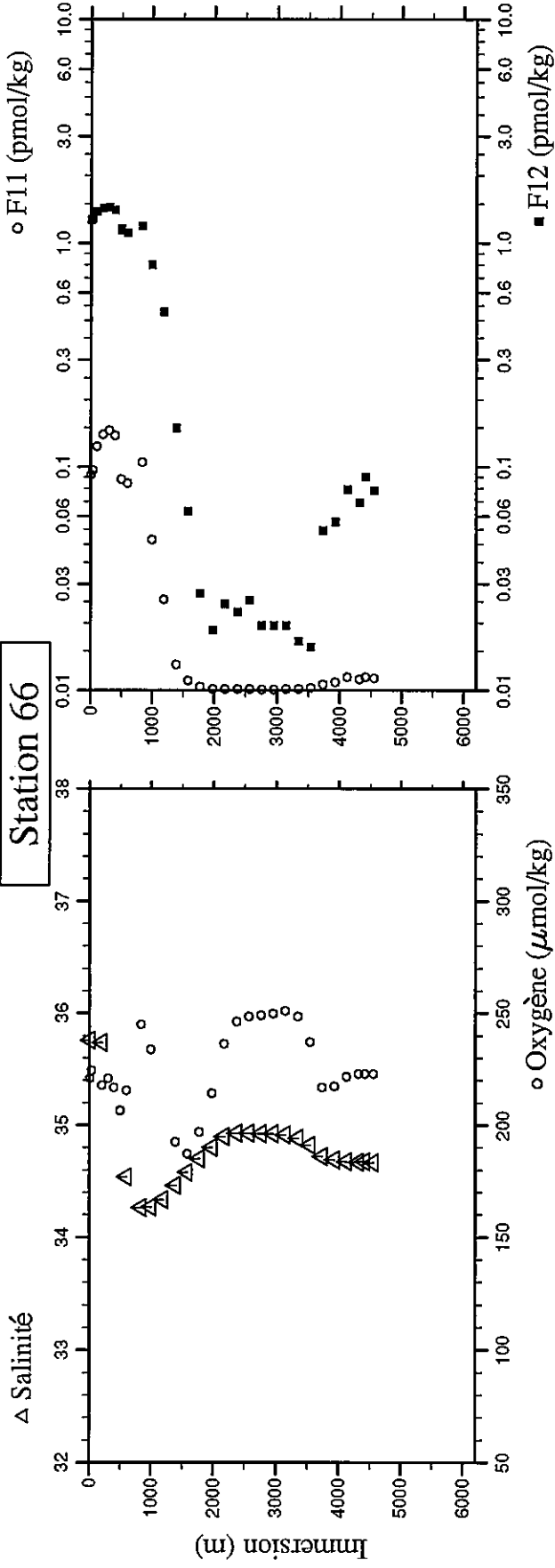
# Station 65



Station : 66 Campagne : CITHER 2  
 Date : 29-01-94 Heure : 11 h 33 mn  
 Position : S 33 14.26 W 41 48.27  
 Dernier niveau à : 4637  
 Nb prélèvements : 30

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT, NITE	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.8	5.8	22.103	24.7910	35.761	220.9	0.04	0.036	1.4	2.2517	1.2668	2027.55	2360.4	8.330
35.5	35.2	21.989	24.9510	35.781	r	0.04	0.045	1.4	2.2966	1.2824	2029.47	2363.1	8.330
100.6	99.9	17.670	26.6472	36.111	r	r	0.263	1.6	2.5480	1.3855	2083.04	2379.3	8.267
199.3	197.8	15.577	27.2877	35.739	r	4.91	0.442	2.0	2.6703	1.4278	2086.44	2359.2	8.223
299.7	297.4	14.742	27.8211	35.625	r	6.05	0.509	2.3	2.7131	1.4475	2091.60	2353.1	8.208
400.2	397.0	12.937	28.3906	35.266	r	10.10	0.764	3.3	2.6582	1.4010	2103.11	2332.3	8.155
499.8	495.7	10.145	29.0440	34.823	r	17.46	1.235	6.6	2.2043	1.1407	2126.49	2310.2	8.057
499.9	495.8	10.161	29.0359	34.821	r	17.45	1.235	6.6	2.2054	1.1543	2310.8	2310.8	8.063
600.8	595.7	7.710	29.6794	34.540	r	22.21	1.573	10.2	2.1624	1.1097	2141.47	2300.0	7.998
840.7	833.1	4.529	31.0115	34.267	r	27.45	1.920	18.2	2.3796	1.1890	2155.01	2296.3	7.953
999.1	989.7	3.718	31.8425	34.272	r	29.88	2.083	27.6	1.5713	0.7972	2175.40	2303.7	7.919
1198.8	1186.9	3.042	32.8886	34.334	r	32.01	2.237	41.3	0.9530	0.4904	2200.26	2318.9	7.881
1400.5	1385.9	2.847	33.9267	34.462	r	32.62	2.282	52.9	0.2689	0.1485	2219.51	2329.0	7.862
1598.8	1581.4	2.746	34.9348	34.582	r	32.02	2.218	58.3	0.1042	0.0635	2225.62	2339.2	7.863
1799.1	1778.7	2.780	35.9280	34.700	r	29.70	2.031	55.7	0.0390	0.0273	2218.39	2340.8	7.893
1999.0	1975.4	2.944	36.8801	34.804	r	26.37	1.798	46.0	0.0149	0.0186	2201.25	2338.9	7.932
2200.1	2173.1	3.161	37.8197	34.899	r	22.52	1.526	32.0	0.0159	0.0244	2179.42	2334.0	7.974
2400.2	2369.7	3.130	38.7368	34.933	r	21.14	1.414	27.5	0.0143	0.0225	2170.81	2332.0	7.994
2597.8	2563.6	2.979	39.6338	34.932	r	20.70	1.400	28.2	0.0112	0.0254	2170.64	2333.0	7.998
2799.1	2760.9	2.814	40.5421	34.927	r	249.0	249.0		0.0071	0.0195	2173.24	2333.0	7.998
2998.0	2955.8	2.655	41.4357	34.925	r	20.87	1.410	32.8	0.0073	0.0195	2175.59	2338.3	7.998
3197.9	3151.4	2.493	42.3318	34.915	r	21.44	1.418	34.8	0.0114	0.0195	2177.81	2340.7	7.997
3398.4	3347.5	2.162	43.2433	34.887	r	22.21	1.504	45.4	0.0116	0.0166	2186.61	2345.1	7.985
3598.4	3542.8	1.526	44.1695	34.824	r	25.50	1.750	71.2	0.0246	0.0156	2211.27	2356.6	7.950
3798.0	3737.7	0.666	45.1067	34.723	r	31.07	2.132	110.7	0.0628	0.0518	2248.68	2369.9	7.888
3999.0	3933.7	0.259	46.0247	34.693	r	32.34	2.238	122.4	0.0877	0.0566	2256.45	2373.7	7.874
4197.9	4127.5	0.001	46.9197	34.678	r	32.75	2.279	128.0	0.1355	0.0791	2259.09	2374.9	7.866
4395.5	4319.8	-0.118	47.7894	34.672	r	32.81	2.288	130.1	0.1147	0.0693	2253.49	2376.4	7.867
4498.0	4419.5	-0.155	48.2362	34.675	r	32.97	2.291	130.4	0.1390	0.0899	2261.24	2377.4	7.868
4637.2	4554.9	-0.158	48.8343	34.665	r	32.97	2.294	130.9	0.1288	0.0781	2263.45	2375.3	7.868

# Station 66

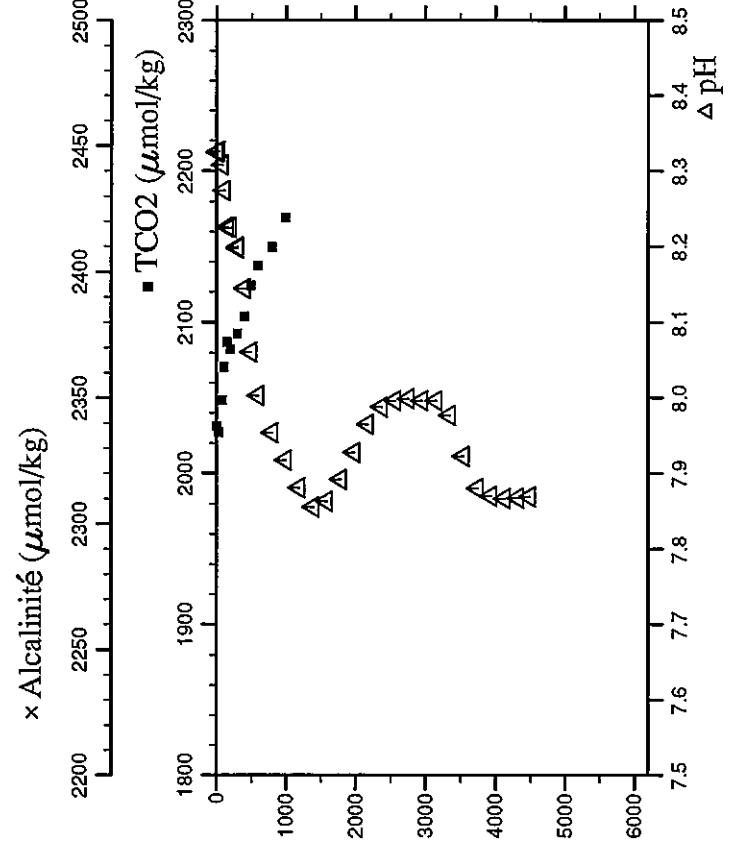
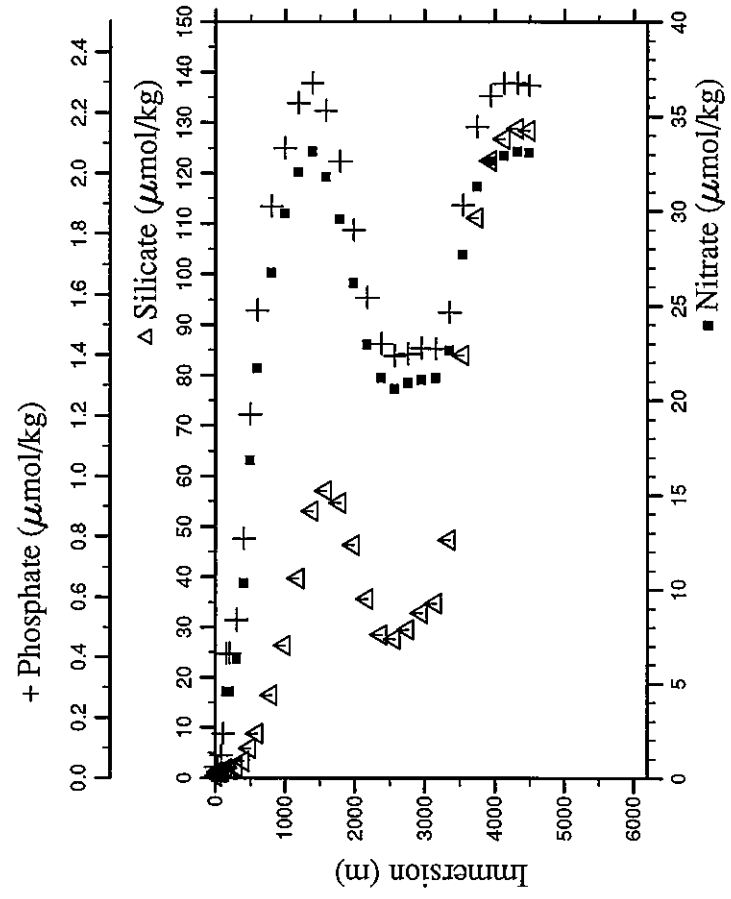
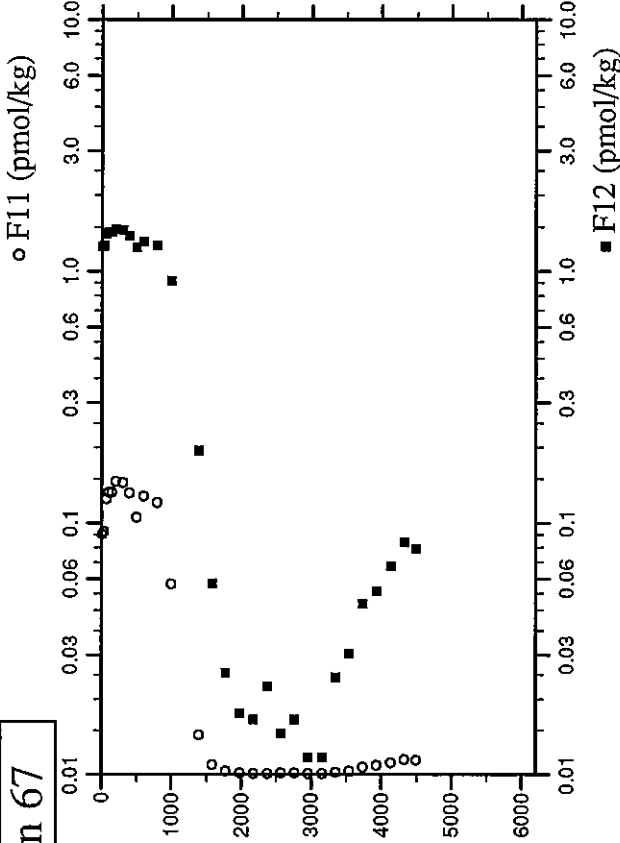
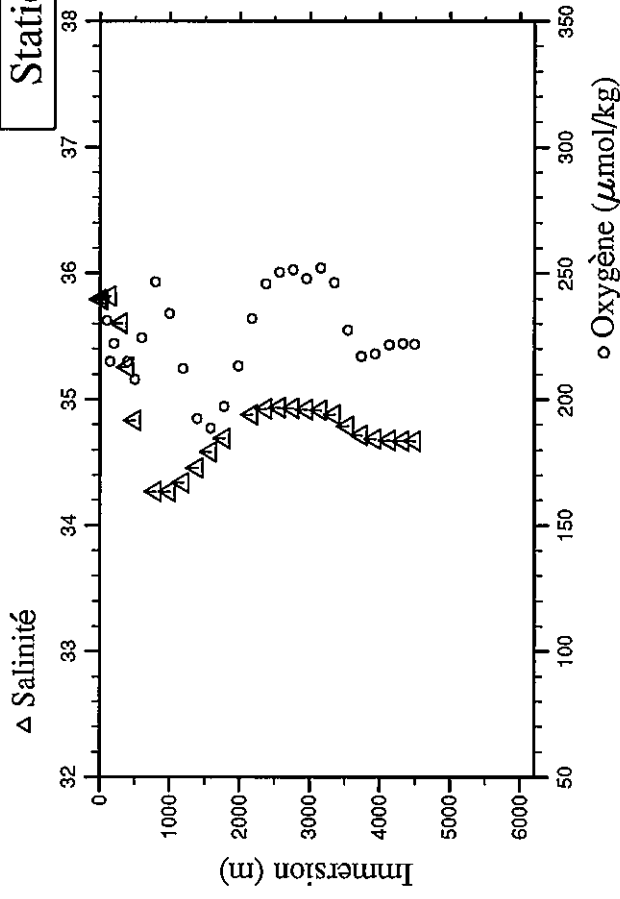


Station : 67 Campagne : CITHER 2  
 Date : 29-01-94 Heure : 18 h 6 mn  
 Position : S 32 50.88 W 41 27.73  
 Dernier niveau à : 4572  
 Nb prélèvements : 31

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
d'bar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.0	7.0	22.403	24.7372	35.795	220.3	0.04	0.036	0.4	2.2319	1.2560	2030.98		8.325
30.6	30.4	22.219	24.8871	35.789	221.2	0.04	0.036	1.2	2.2548	1.2638	2027.09		8.326
75.4	74.9	19.020	26.0921	35.957	239.7	0.04	0.075	1.1	2.5587	1.4032	2048.39		8.308
101.6	100.9	17.433	26.6263	35.998	231.2	0.37	0.148	1.3	2.6180	1.4236	2070.53		8.274
150.5	149.4	16.071	27.0251	35.823	215.0	4.58	0.412	1.8	2.6167	1.4258	2086.88		8.226
201.8	200.3	15.686	27.3102	35.782	222.0	4.58	0.415	1.7	2.7182	1.4668	2082.26		8.225
300.7	298.4	14.745	27.8133	35.605	220.1	6.30	0.521	2.0	2.7071	1.4543			8.200
300.8	298.5	14.723	27.8179	35.600	220.7	6.30	0.527	2.2	2.7085	1.4553	2092.43		8.198
401.0	397.8	12.824	28.3993	35.256	215.1	10.34	0.794	3.3	2.6126	1.3766	2103.83		8.145
500.8	496.7	10.241	29.0268	34.835	208.0	16.84	1.205	5.9	2.3849	1.2393	2124.27		8.061
601.1	596.0	7.594	29.6878	34.516	224.4	21.70	1.547	8.8	2.5828	1.3090	2137.26		8.003
800.7	793.5	4.690	30.8084	34.269	246.4	26.75	1.891	16.5	2.5249	1.2594	2149.79		7.954
1000.8	991.4	3.736	31.8456	34.269	234.0	29.87	2.084	26.4	1.7713	0.9125	2169.02		7.918
1197.7	1185.9	3.127	32.8752	34.339	212.2	32.08	2.232	39.7					7.881
1400.0	1385.5	2.804	33.9296	34.457	192.4	33.14	2.298	53.0	0.3723	0.1934			7.856
1599.4	1582.1	2.753	34.9419	34.587	188.6	31.81	2.206	57.1	0.0916	0.0576			7.863
1799.0	1778.7	2.766	35.9241	34.694	197.1	29.57	2.038	54.7	0.0300	0.0254			7.892
1998.1	1974.6	2.874	36.8721	34.801	213.1	26.21	1.813	46.3	0.0160	0.0176			7.928
2199.6	2172.7	3.024	37.8211	34.878	232.1	22.94	1.590	35.6	0.0095	0.0166			7.965
2400.4	2369.9	3.067	38.7408	34.927	245.8	22.94	1.438	28.5	0.0108	0.0225			7.988
2597.6	2563.5	2.967	39.6355	34.936	250.4	20.61	1.396	27.6	0.0115	0.0146			7.996
2799.4	2761.3	2.807	40.5464	34.931	251.3	20.93	1.403	29.6	0.0117	0.0166			7.999
2997.7	2955.6	2.636	41.4375	34.922	247.9	21.09	1.422	32.8	0.0088	0.0117			7.996
3199.7	3153.3	2.466	42.3444	34.916	252.0	21.17	1.421	34.7	0.0071	0.0117			7.996
3397.7	3346.9	2.124	43.2370	34.882	246.2	22.64	1.542	47.4	0.0173	0.0244			7.977
3599.2	3543.7	1.317	44.1830	34.789	227.5	27.70	1.895	84.0	0.0304	0.0303			7.923
3800.1	3739.8	0.609	45.1218	34.718	217.1	31.30	2.153	111.2	0.0660	0.0479			7.880
3999.4	3934.2	0.174	46.0364	34.687	218.0	32.65	2.256	122.5	0.0855	0.0537			7.870
4199.6	4129.2	-0.061	46.9349	34.676	221.6	32.90	2.295	126.8	0.1075	0.0674			7.867
4399.2	4323.6	-0.157	47.8112	34.670	222.0	33.15	2.297	128.8	0.1359	0.0840			7.868
4571.5	4491.2	-0.157	48.5529	34.671	221.9	33.07	2.290	128.5	0.1311	0.0791			7.869



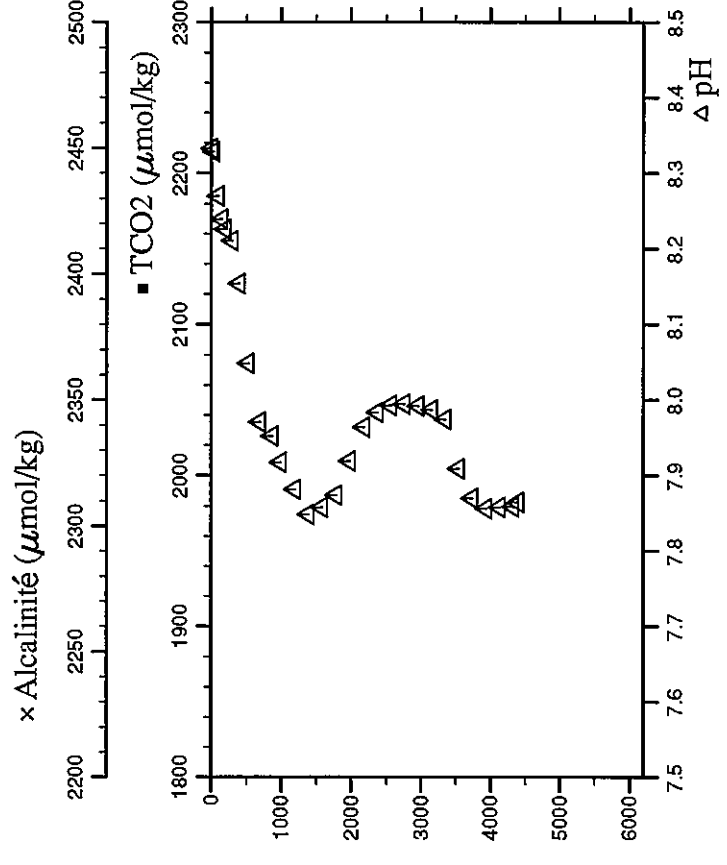
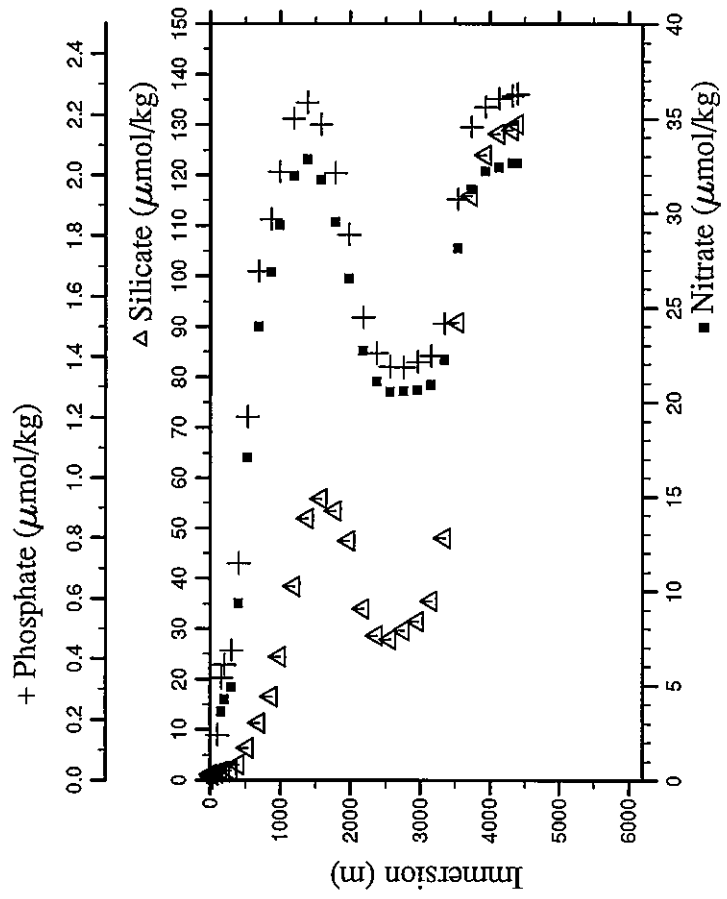
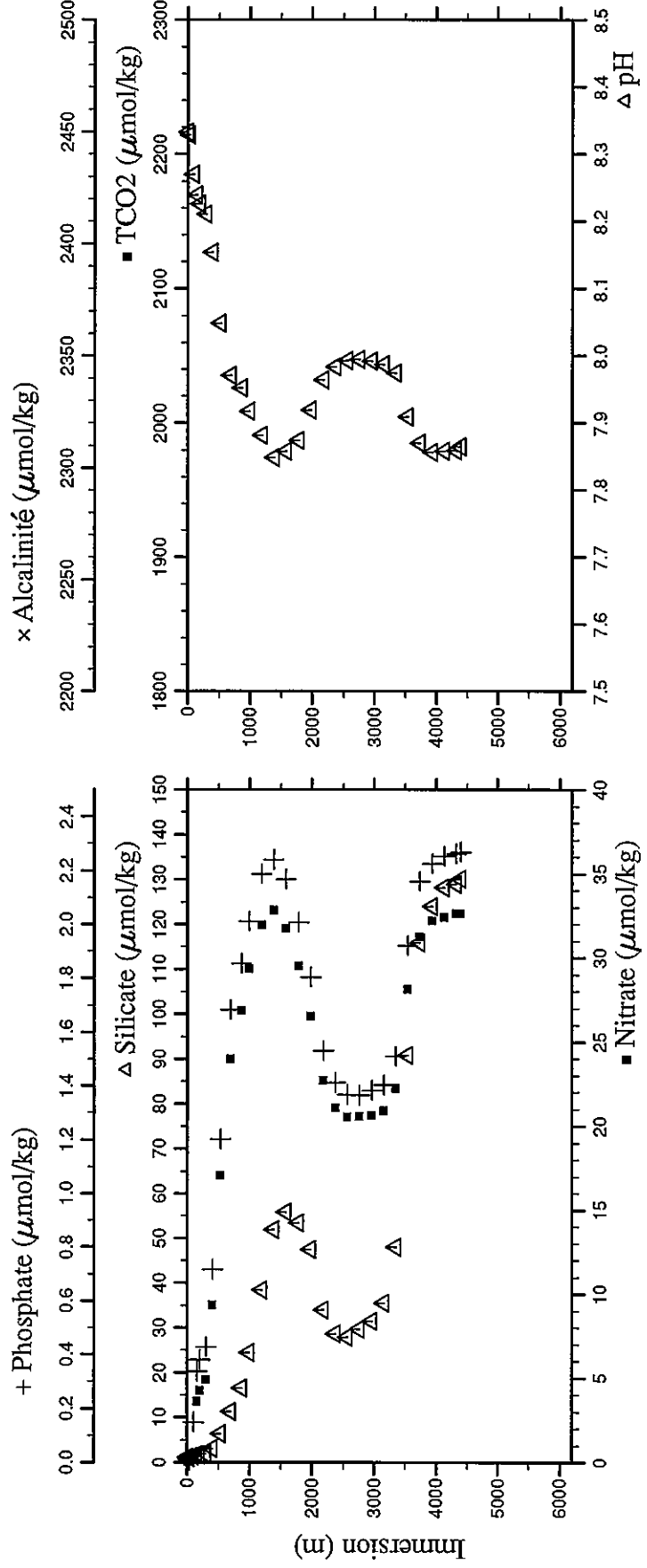
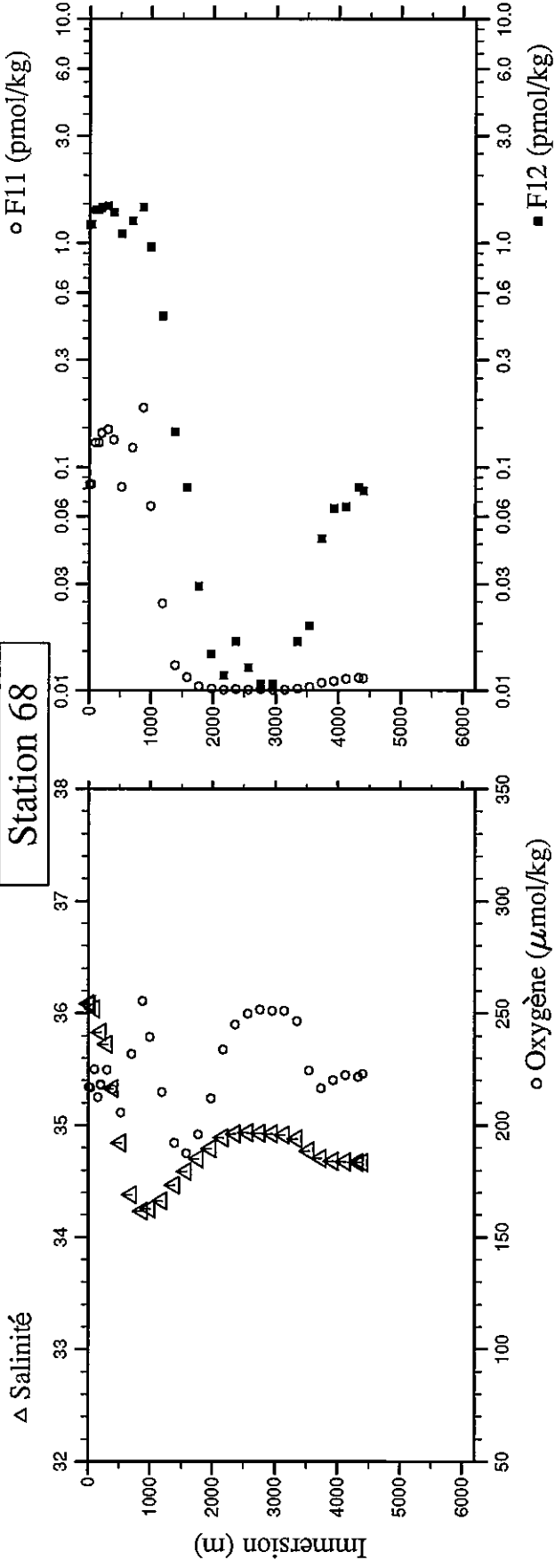
# Station 67



Station : 68 Campagne : CITHER 2  
 Date : 29-01-94 Heure : 23 h 55 mn  
 Position : S 32 27.36 W 41 6.69  
 Dernier niveau à : 4474  
 Nb prélèvements : 30

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.2	5.2	23.001	24.7757	36.083	217.0	0.04	0.012	1.2	2.1544	1.2030			8.333
35.4	35.1	23.010	24.9012	36.082	216.9	0.04	0.006	1.1	2.1570	1.2099			8.329
100.4	99.7	17.701	26.5812	36.039	225.0	0.29	0.150	1.5	2.5901	1.4012			8.270
151.0	149.9	16.852	26.9474	35.957	212.5	3.64	0.337	1.7	2.5875	1.4012			8.240
200.4	198.9	16.038	27.2540	35.833	217.9	4.26	0.382	1.8	2.6866	1.4394			8.226
200.8	199.3	16.035	27.2557	35.833	218.2	4.26	0.379	1.7	2.6858	1.4375			8.226
301.6	299.3	15.262	27.7942	35.726	224.6	4.92	0.428	1.9	2.7277	1.4620			8.211
399.8	396.6	13.297	28.3505	35.326	216.0	9.37	0.716	3.1	2.6182	1.3707			8.211
531.3	526.9	10.202	29.1750	34.845	205.5	17.10	1.202	6.4	2.1247	1.0938			8.154
700.5	694.4	6.253	30.2287	34.383	231.9	23.99	1.684	11.4	2.5328	1.2554			8.049
880.4	872.4	4.323	31.1966	34.236	255.3	26.89	1.855	16.6	2.9506	1.4470			7.952
1001.4	992.0	3.780	31.8317	34.255	239.4	29.37	2.012	24.4	1.9221	0.9585			7.918
1200.7	1188.9	3.132	32.8782	34.328	214.7	31.96	2.188	38.4	0.9068	0.4729			7.882
1399.5	1385.0	2.846	33.9292	34.470	192.0	32.84	2.241	51.9	0.2655	0.1436			7.849
1599.6	1582.3	2.812	34.9352	34.592	187.6	31.77	2.169	55.9	0.1361	0.0811			7.858
1799.3	1779.0	2.842	35.9170	34.704	195.9	29.51	2.008	53.4	0.0444	0.0293			7.874
1998.9	1975.5	2.846	36.8829	34.792	212.0	26.53	1.804	47.5	0.0177	0.0146			7.919
2200.2	2173.4	3.060	37.8247	34.889	233.7	22.70	1.531	34.0	0.0068	0.0117			7.964
2398.3	2368.0	3.037	38.7338	34.927	245.1	21.09	1.411	28.7	0.0114	0.0166			7.984
2597.4	2563.4	2.943	39.6387	34.938	249.9	20.55	1.367	27.9	0.0098	0.0127			7.993
2799.9	2761.9	2.793	40.5502	34.931	251.6	20.56	1.365	29.7	0.0127	0.0107			7.995
2999.4	2957.3	2.653	41.4452	34.926	251.0	20.65	1.382	31.5	0.0099	0.0107			7.992
3197.5	3151.2	2.434	42.3383	34.915	251.0	20.90	1.403	35.5	0.0089	0.0088			7.987
3396.9	3346.2	2.045	43.2457	34.881	246.4	22.24	1.509	48.0	0.0215	0.0166			7.974
3598.2	3542.9	1.124	44.1972	34.772	224.5	28.15	1.921	90.8	0.0357	0.0195			7.909
3797.3	3737.2	0.451	45.1265	34.709	216.5	31.26	2.159	115.8	0.0800	0.0479			7.870
3999.2	3934.1	0.086	46.0484	34.684	220.2	32.21	2.226	124.0	0.0988	0.0654			7.857
4197.6	4127.4	-0.122	46.9352	34.675	222.3	32.42	2.252	128.2	0.1183	0.0664			7.858
4397.7	4322.2	-0.158	47.8042	34.671	221.7	32.64	2.261	129.0	0.1317	0.0811			7.859
4473.5	4396.0	-0.158	48.1306	34.672	222.9	32.65	2.267	130.1	0.1259	0.0781			7.865

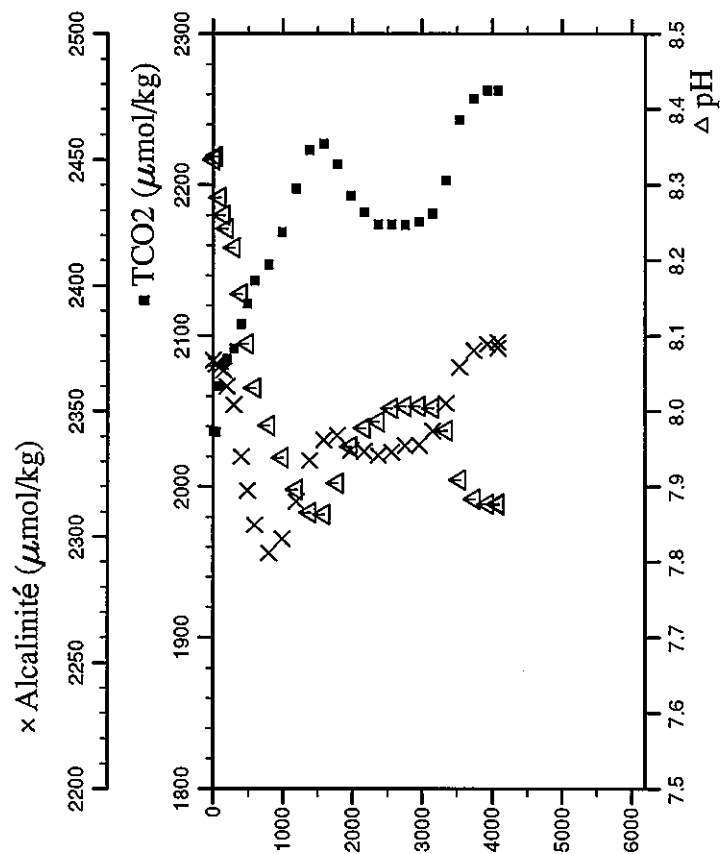
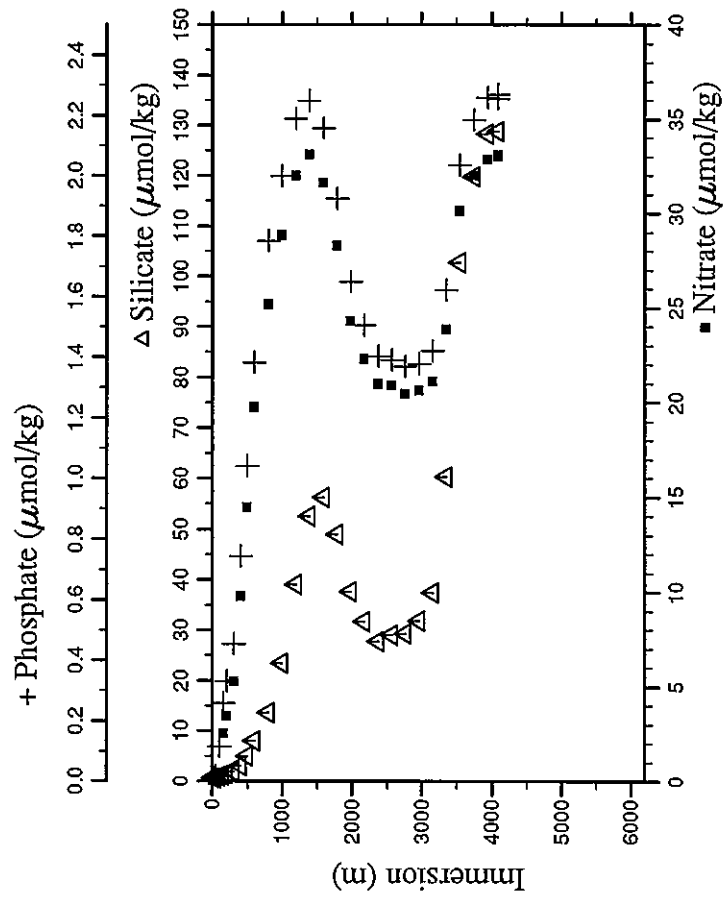
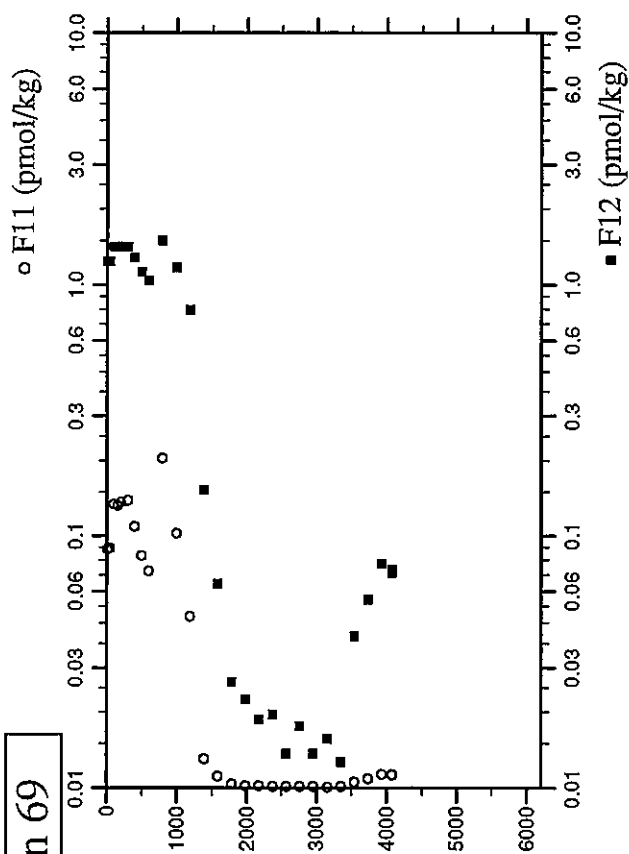
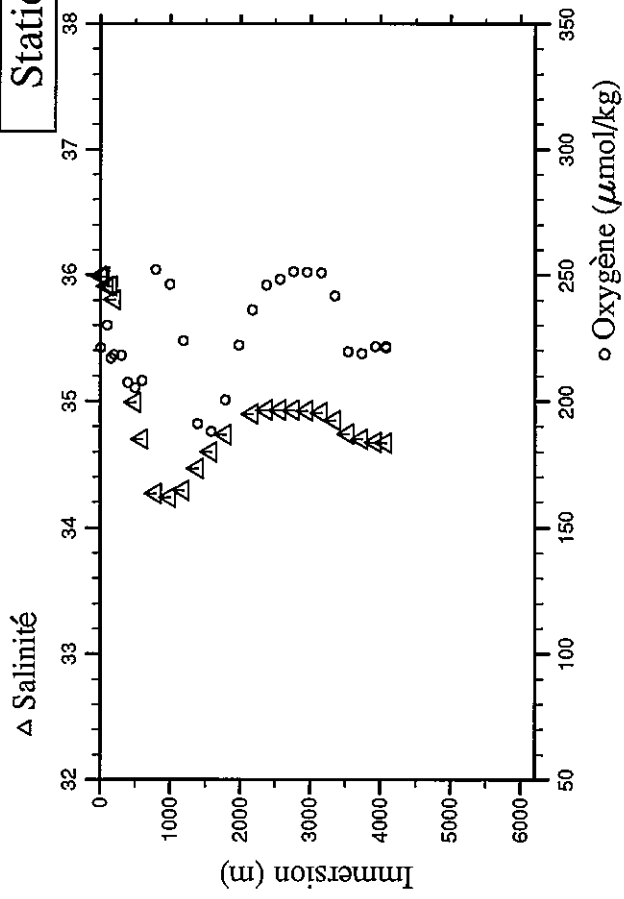
# Station 68



Station : 69 Campagne : CITHER 2  
 Date : 30-01-94 Heure : 6 h 13 mn  
 Position : S 32 3.60 W 40 46.12  
 Dernier niveau à : 4157  
 Nb prélèvements : 28

PRESSION CHIMIE	IMMERSION metres	TEMP.POT. SONDE	deg.cels.	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
dbar					um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.9	5.9	22.463	22.463	24.8647	35.994	221.0	0.04	0.012	0.7	2.2066	1.2363	2036.66	2370.2	8.334
43.0	42.7	22.438	22.438	25.0300	35.991	219.9	0.04	0.018	0.7	2.2207	1.2373	2036.27	2368.5	8.338
101.0	100.3	17.443	17.443	26.5501	35.912	230.0	0.12	0.115	1.0	2.6315	1.4179	2066.66	2367.7	8.284
151.4	150.3	16.965	16.965	26.8806	35.911	217.0	2.54	0.259	1.2	2.6203	1.4081	2080.64	2366.3	8.260
199.9	198.4	16.206	16.206	27.1879	35.803	218.2	3.46	0.331	1.5	2.6483	1.4180	2084.95	2359.9	8.242
301.1	298.8	15.095	15.095	27.7503	35.640	218.0	5.30	0.455	1.9	2.6637	1.4123	2091.73	2352.4	8.217
400.2	397.0	13.176	13.176	28.3337	35.282	207.3	9.81	0.744	3.1	2.4253	1.2809	2107.81	2332.0	8.156
500.4	496.3	11.249	11.249	28.9518	34.993	205.4	14.49	1.041	5.0	2.1472	1.1230	2121.34	2318.3	8.090
599.9	594.9	8.858	8.858	29.6116	34.700	208.2	19.76	1.382	8.1	2.0083	1.0392	2136.67	2304.8	8.031
800.1	793.0	4.999	4.999	30.7653	34.268	252.1	25.19	1.784	13.7	3.0562	1.4958	2147.10	2293.6	7.981
1000.8	991.4	3.739	3.739	31.8223	34.240	246.3	28.84	1.998	23.4	2.3551	1.1724	2168.97	2299.1	7.939
1200.7	1188.9	2.886	2.886	32.8854	34.296	224.0	32.00	2.189	39.1	1.5854	0.7963	2197.64	2314.0	7.896
1400.9	1386.5	2.835	2.835	33.9408	34.467	191.1	33.13	2.248	52.6	0.2673	0.1524	2222.85	2330.4	7.866
1601.8	1584.5	2.824	2.824	34.9555	34.601	188.0	31.63	2.157	56.2	0.1083	0.0645	2227.18	2338.5	7.863
1800.6	1780.4	2.998	2.998	35.9360	34.740	200.5	28.31	1.925	49.0	0.0366	0.0264	2213.80	2340.2	7.905
1999.1	1975.7	3.164	3.164	36.8862	34.846	222.0	24.31	1.650	37.7	0.0213	0.0225	2193.02	2334.4	7.953
2199.7	2173.0	3.164	3.164	37.8170	34.902	236.0	22.31	1.506	31.7	0.0184	0.0186	2181.84	2333.9	7.978
2400.3	2370.0	3.096	3.096	38.7389	34.930	246.1	20.98	1.404	27.7	0.0127	0.0195	2173.80	2332.5	7.986
2599.2	2565.2	2.938	2.938	39.6426	34.930	248.4	20.90	1.391	29.0	0.0118	0.0137	2173.77	2333.6	8.004
2799.2	2761.3	2.803	2.803	40.5477	34.933	251.3	20.49	1.369	29.3	0.0142	0.0176	2173.30	2336.1	8.007
2998.8	2956.8	2.631	2.631	41.4459	34.924	251.0	20.66	1.377	31.8	0.0110	0.0137	2175.52	2336.5	8.007
3199.2	3153.0	2.361	2.361	42.3540	34.909	250.9	21.13	1.421	37.4	0.0102	0.0156	2180.98	2342.0	8.004
3398.1	3347.5	1.746	1.746	43.2789	34.850	241.8	23.86	1.622	60.3	0.0144	0.0127	2203.02	2353.0	7.974
3597.9	3542.7	0.844	0.844	44.2217	34.741	219.7	30.12	2.034	102.8	0.0579	0.0400	2243.11	2367.5	7.909
3798.9	3738.9	0.291	0.291	45.1534	34.700	218.7	32.00	2.186	119.8	0.0878	0.0557	2257.00	2374.2	7.884
3997.4	3932.5	-0.129	-0.129	46.0670	34.676	221.5	32.85	2.259	128.3	0.1253	0.0772	2262.27	2376.6	7.877
4151.0	4082.2	-0.146	-0.146	46.7370	34.673	221.2	33.01	2.269	128.8	0.1223	0.0713	2262.26	2375.2	7.876
4151.2	4082.4	-0.147	-0.147	46.7388	34.672	221.5	33.07	2.256	128.8	0.1258	0.0733	2262.26	2377.4	7.878

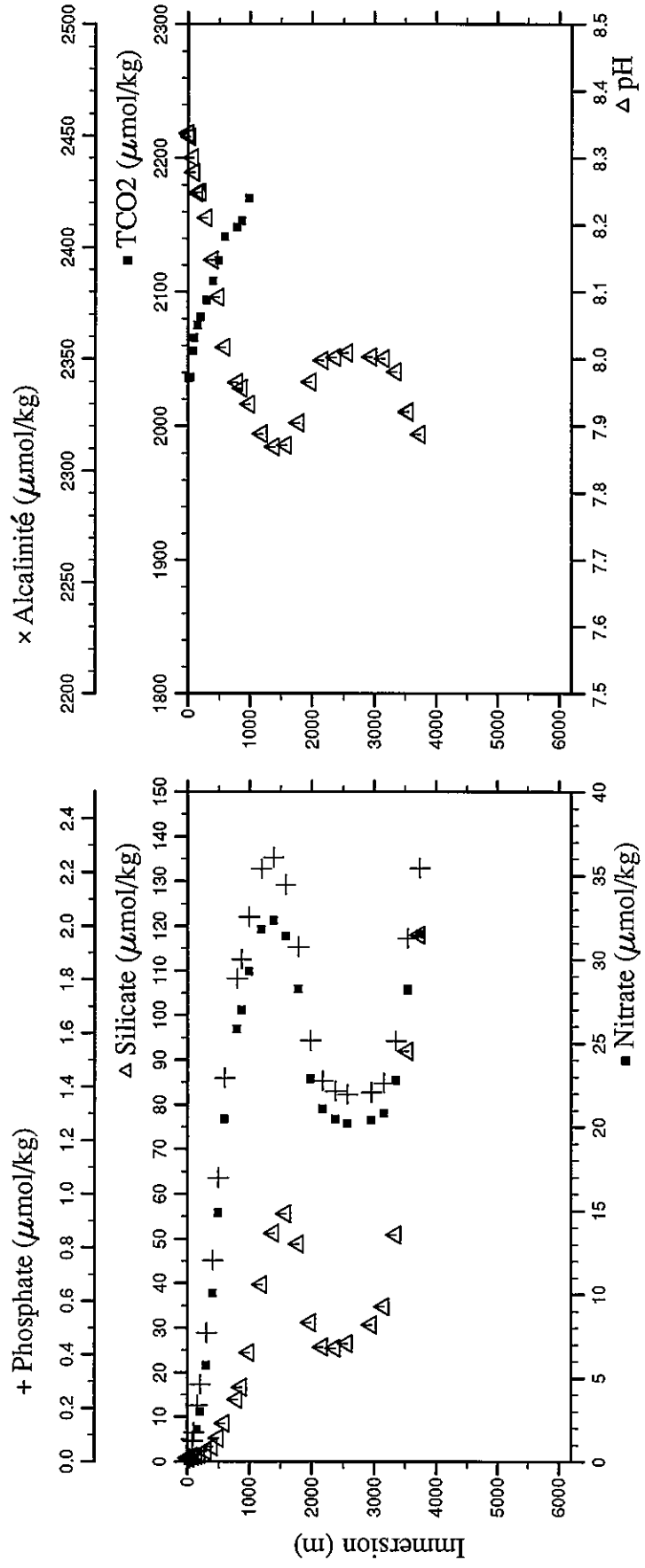
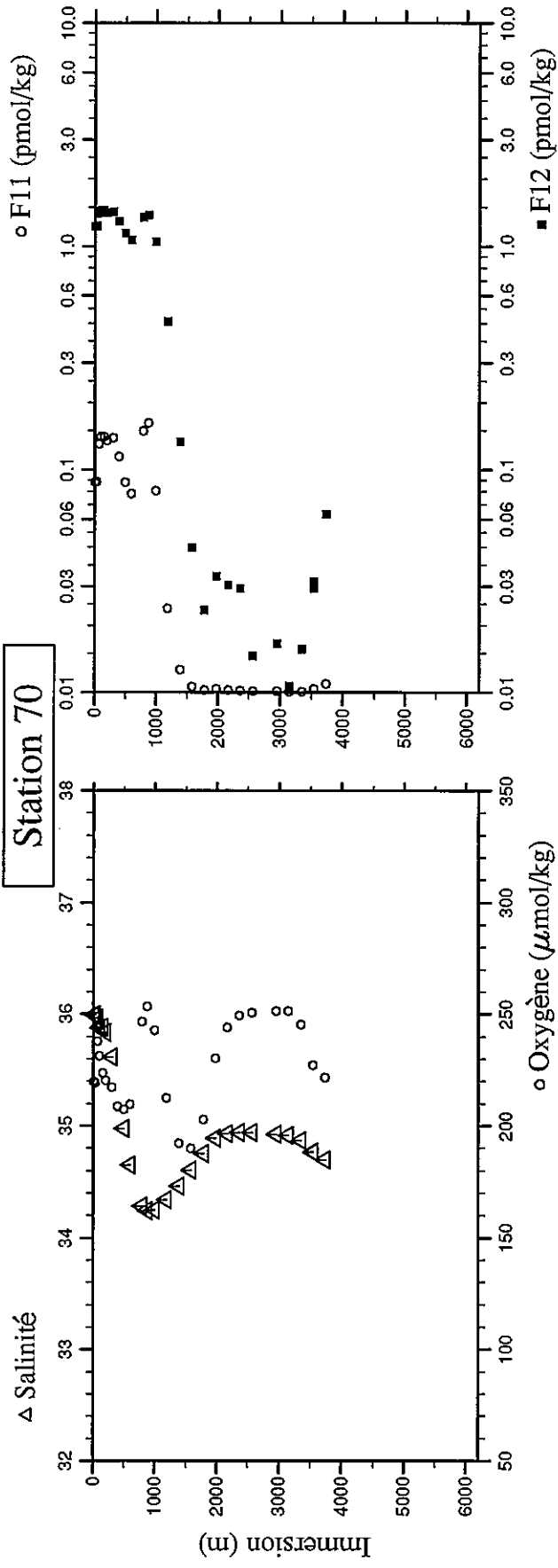
Station 69



Station : 70 Campagne : CITHER 2  
 Date : 30-01-94 Heure : 12 h 3 mn  
 Position : S 31 40.26 W 40 25.77  
 Dernier niveau à : 3795  
 Nb prélèvements : 27

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	PH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.2	7.1	22.476	24.8700	35.996	219.8	0.04	0.012	0.8	2.2038	1.2285	2035.77		8.337
34.2	34.0	22.449	24.9925	35.996	219.3	0.04	0.012	0.8	2.2091	1.2295	2036.44		8.332
75.6	75.1	18.264	26.2779	35.969	238.0	0.04	0.078	1.2	2.6002	1.4003	2056.09		8.301
100.9	100.2	17.237	26.5730	35.877	231.3	0.12	0.108	1.2	2.6768	1.4452	2066.02		8.279
151.3	150.2	16.921	26.8740	35.882	223.7	1.89	0.211	1.3	2.6784	1.4452	2075.36		8.248
200.7	199.2	16.465	27.1600	35.837	220.3	2.98	0.289	1.5	2.6371	1.4141	2080.98		8.249
300.9	298.6	15.040	27.7605	35.616	217.4	5.76	0.482	2.3	2.6635	1.4250	2093.82		8.211
399.1	395.9	13.107	28.3330	35.271	208.7	10.05	0.753	3.4	2.4711	1.2907	2108.12		8.148
500.5	496.4	11.149	28.9576	34.976	207.3	14.89	1.060	5.3	2.2004	1.1415	2123.53		8.092
601.4	596.4	8.662	29.6132	34.653	209.7	20.49	1.432	8.6	2.0868	1.0656	2141.05		8.018
799.7	792.6	5.031	30.7697	34.286	246.5	25.83	1.803	13.9	2.7348	1.3492	2148.30		7.965
879.8	871.8	4.396	31.1906	34.245	253.3	26.98	1.876	16.7	2.8204	1.3776	2152.91		7.957
1000.2	990.9	3.722	31.8274	34.249	242.8	29.28	2.034	24.5	2.1129	1.0474	2169.92		7.933
1200.6	1188.8	3.097	32.8912	34.339	212.5	31.80	2.213	39.7	0.8804	0.4572			7.889
1401.1	1386.7	2.844	33.9349	34.464	192.2	32.34	2.255	51.3	0.2414	0.1329			7.869
1599.8	1582.6	2.754	34.9558	34.605	189.9	31.38	2.153	55.6	0.0597	0.0449			7.872
1801.0	1780.8	2.930	35.9509	34.751	202.9	28.24	1.922	48.9	0.0243	0.0234			7.905
1999.7	1976.4	3.279	36.8977	34.889	230.2	22.89	1.573	31.2	0.0394	0.0332			7.966
2198.0	2171.4	3.269	37.8179	34.933	244.0	21.08	1.423	25.7	0.0273	0.0303			7.998
2398.4	2368.2	3.117	38.7356	34.940	249.2	20.49	1.384	25.5	0.0177	0.0293			8.002
2601.3	2567.3	2.971	39.6549	34.942	250.7	20.20	1.371	26.5	0.0158	0.0146			8.009
2996.9	2955.1	2.653	41.4360	34.927	251.3	20.42	1.381	30.7	0.0143	0.0166			8.003
3197.7	3151.6	2.439	42.3398	34.914	251.4	20.83	1.414	34.8	0.0087	0.0107			8.001
3397.1	3346.6	1.935	43.2570	34.869	245.2	22.77	1.571	50.9	0.0104	0.0156			7.981
3599.8	3544.7	0.955	44.2268	34.767	227.3	28.15	1.954	91.9	0.0401	0.0293			7.921
3600.3	3545.2	0.954	44.2298	34.765	227.3	28.25		91.9	0.0385	0.0313			7.922
3795.6	3735.8	0.192	45.1529	34.696	221.6	31.51	2.214	118.0	0.0919	0.0635			7.888

# Station 70

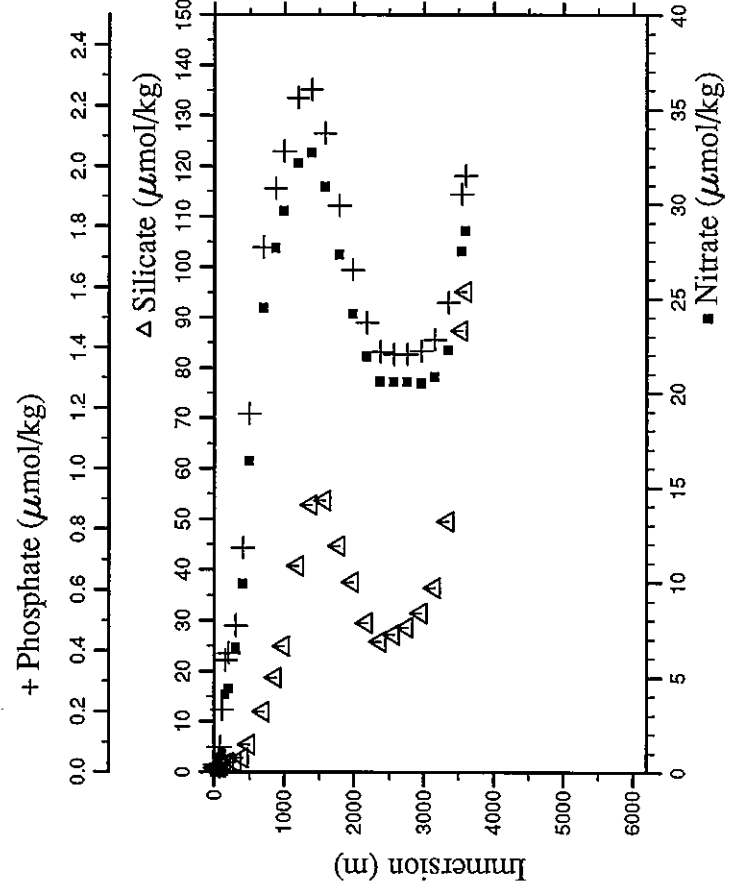
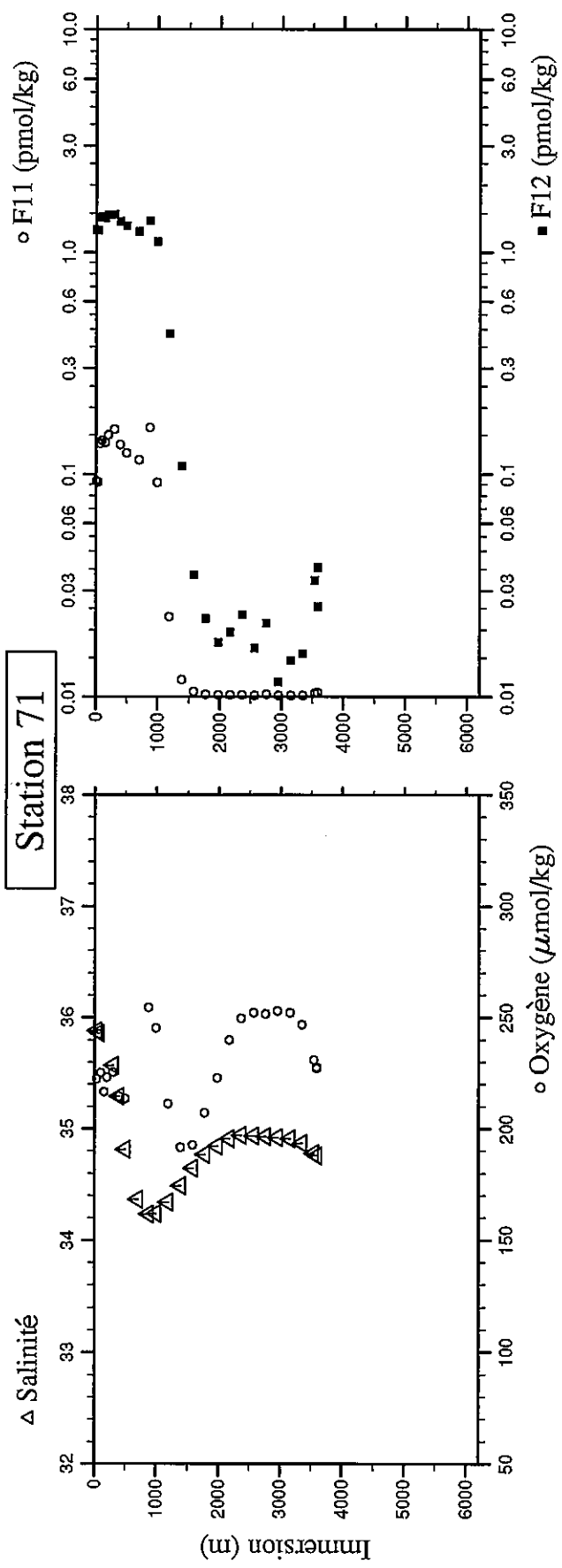


Station : 71 Campagne : CITHER 2  
 Date : 30-01-94 Heure : 17 h 41 mn  
 Position : S 31 16.48 W 40 4.56  
 Dernier niveau à : 3650  
 Nb prélèvements : 27

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THEYA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
6.6	6.6	22.130	24.7674	35.745	r 221.9	r 0.00	0.024	0.8	2.2610	1.2619			8.332
31.3	31.1	22.077	25.0009	35.881	222.3	0.04	0.027	1.1	2.2497	1.2549			8.342
75.2	74.7	17.679	26.3376	35.863	242.4	0.04	0.084	1.0	2.6545	1.4345			8.295
101.6	100.9	16.669	26.6475	35.785	r 225.1	0.97	0.206	1.3	2.6823	1.4473			8.250
152.1	151.0	15.965	26.9912	35.732	r 216.6	4.09	0.369	1.7	2.6628	1.4249			8.230
201.0	199.5	15.671	27.2918	35.748	r 223.1	4.42	0.393	1.8	2.7417	1.4688			8.221
301.7	299.4	14.614	27.8244	35.574	225.5	6.57	0.484	2.0	2.8015	1.4778			8.206
401.6	398.4	13.128	28.3714	35.291	214.6	9.94	0.738	2.9	2.6419	1.3804			8.154
499.5	495.5	10.160	29.0147	34.816	213.5	16.40	1.181	5.5	2.5551	1.3126			8.071
700.0	694.0	5.941	30.2624	34.368	234.8	r 24.51	1.732	12.0	2.4788	1.2407			7.969
880.8	872.9	4.113	31.2235	34.232	254.4	27.65	1.927	18.7	2.8224	1.3864			7.946
1002.4	993.1	3.591	31.8501	34.239	245.2	29.64	2.049	25.0	2.2422	1.1158			7.925
1201.3	1189.6	3.040	32.9047	34.343	211.3	32.16	2.226	40.7	0.8377	0.4299			7.880
1399.3	1385.0	2.819	33.9494	34.490	191.6	32.70	2.253	52.8	0.1820	0.1084			7.864
1599.9	1582.8	2.811	34.9781	34.644	192.6	30.90	2.108	53.7	0.0542	0.0352			7.883
1798.5	1778.4	3.009	35.9458	34.767	207.1	27.33	1.870	44.7	0.0265	0.0225			7.918
1999.8	1976.5	3.094	36.8956	34.845	222.9	24.21	1.658	37.6	0.0201	0.0176			7.945
2201.1	2174.5	3.151	37.8308	34.908	239.8	21.94	1.484	29.6	0.0191	0.0195			7.987
2398.6	2368.5	3.099	38.7398	34.939	249.6	20.60	1.386	25.8	0.0174	0.0234			8.001
2598.7	2564.9	2.933	39.6464	34.934	252.0	20.59	1.379	27.2	0.0145	0.0166			7.991
2797.6	2759.9	2.790	40.5410	34.933	251.5	20.59	1.378	28.6	0.0284	0.0215			7.991
3000.1	2958.3	2.620	41.4527	34.923	253.0	20.51	1.388	31.4	0.0116	0.0117			7.990
3198.9	3152.9	2.375	42.3529	34.908	252.0	20.84	1.426	36.4	0.0115	0.0146			7.981
3400.4	3350.0	1.973	43.2702	34.871	246.8	22.28	1.550	49.5	0.0127	0.0156			7.979
3598.6	3543.6	1.059	44.2145	34.776	231.1	27.48	1.908	87.4	0.0354	0.0332			7.928
3647.8	3591.7	0.872	44.4451	34.757	227.3	28.58	1.970	95.1	0.0421	0.0254			7.915
3648.9	3592.7	0.871	44.4486	34.758	227.8	28.58	1.969	95.1	0.0435	0.0381			7.905



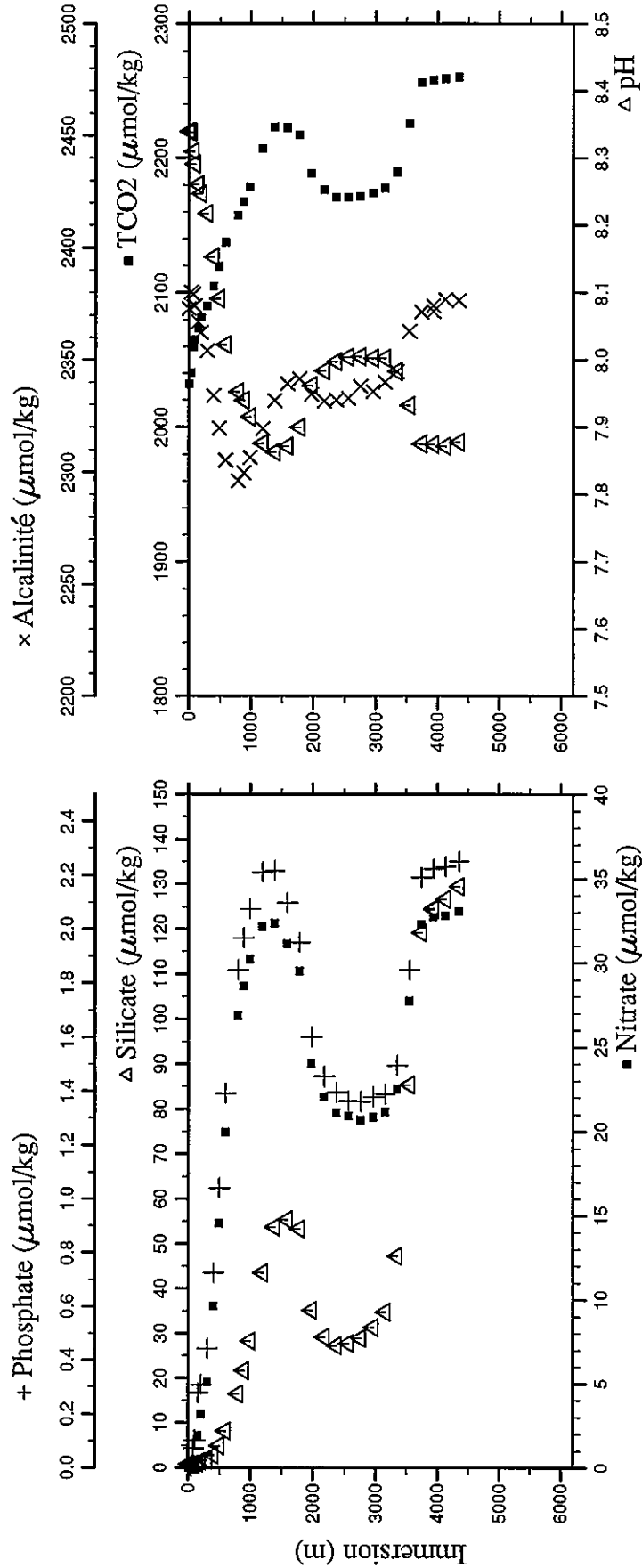
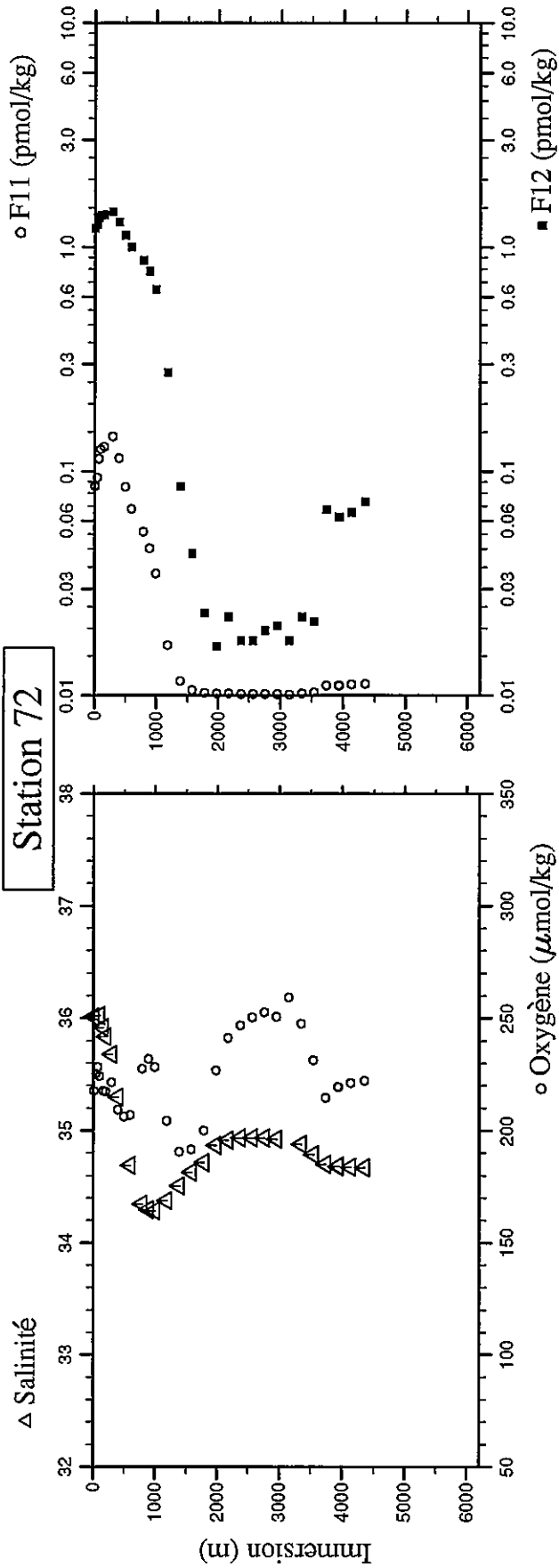
Station 71



Station : 72 Campagne : CITHER 2  
 Date : 30-01-94 Heure : 23 h 3 mn  
 Position : S 30 53.35 W 39 44.10  
 Dernier niveau à : 4424  
 Nb prélèvements : 31

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.ccells.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
3.3	3.3	23.169	24.6673	36.014	217.6	0.00	0.012	0.8	2.1797	1.2122	2031.88	2372.8	8.340
40.7	40.4	22.194	25.1984	36.162	225.1	0.00	0.003	0.7	2.2704	1.2629	2040.55	2380.1	8.339
75.3	74.8	18.981	26.2211	36.146	228.3	0.00	0.073	0.8	2.4651	1.3448	2059.36	2379.2	8.310
100.6	99.9	18.209	26.4400	36.022	224.2	0.08	0.103	0.8	2.5634	1.3879	2065.00	2374.0	8.291
151.4	150.3	17.330	26.8021	35.918	217.6	1.90	0.278	1.1	2.176	1.3929	2073.50	2366.9	8.261
199.7	198.2	16.542	27.1354	35.834	217.2	3.17	0.308	1.4	2.5877		2082.08	2362.1	8.247
299.3	297.0	15.293	27.7395	35.676	221.4	5.08	0.443	1.7	2.6929	1.4341	2089.90	2354.1	8.218
400.3	397.2	13.353	28.3226	35.298	209.1	9.62	0.726	2.9	2.4713	1.2900	2104.89	2333.9	8.153
500.3	496.3	11.295	28.9517	34.995	206.1	14.54	1.042	4.9	2.1760	1.1311	2119.83	2319.5	8.091
599.6	594.6	8.877	29.5960	34.692	206.9	19.97	1.390	8.2	1.9427	0.9975	2137.31	2305.1	8.023
800.3	793.3	5.305	30.7827	34.346	227.5	26.87	1.849	16.5	1.7037	0.8727	2157.27	2296.0	7.952
900.6	892.5	4.399	31.3258	34.294	231.7	28.62	1.966	21.7	1.5348	0.7818	2167.33	2299.5	7.940
998.3	989.1	3.678	31.8527	34.283	228.2	30.21	2.076	28.3	1.2724	0.6460	2178.59	2306.5	7.915
1199.9	1188.2	3.049	32.9273	34.378	204.3	32.12	2.210	43.5	0.5220	0.2746	2206.97	2319.3	7.876
1399.9	1385.6	2.828	33.9680	34.511	190.6	32.34	2.217	53.7	0.1523	0.0860	2222.87	2331.6	7.863
1601.0	1583.9	2.796	34.9782	34.633	191.5	31.11	2.098	55.4	0.0544	0.0430	2222.66	2339.3	7.872
1800.2	1780.1	2.761	35.9461	34.719	200.1	29.50	1.949	53.3	0.0259	0.0234	2217.30	2341.3	7.900
2001.1	1977.9	3.177	36.9050	34.869	226.6	24.02	1.600	35.1	0.0191	0.0166	2188.73	2334.5	7.962
2199.6	2173.1	3.176	37.8243	34.916	241.1	22.05	1.454	29.1	0.0185	0.0225	2176.58	2331.5	7.984
2400.2	2370.1	3.086	38.7418	34.934	246.8	21.12	1.395	27.3	0.0165	0.0176	2170.99	2331.9	7.997
2599.6	2565.8	2.944	39.6485	34.935	250.3	20.93	1.363	27.8	0.0158	0.0176	2171.11	2332.7	8.004
2797.8	2760.2	2.810	40.5407	34.936	252.6	20.68	1.362	28.9	0.0145	0.0195	2171.51	2338.1	8.005
2997.6	2956.0	2.646	41.4393	34.926	250.7	20.85	1.377	31.3	0.0138	0.0205	2174.05	2335.6	8.002
3197.6	3151.7	2.451	42.3377	34.926	259.2	21.14	1.389	34.8	0.0084	0.0176	2177.67	2339.7	8.002
3397.5	3347.2	2.059	43.2483	34.882	247.5	22.50	1.495	47.2	0.0201	0.0225	2189.47	2344.7	7.983
3600.7	3545.8	1.165	44.2114	34.789	231.2	27.72	1.849	85.4	0.0342	0.0215	2225.41	2362.7	7.932
3799.7	3740.0	0.412	45.1382	34.700	214.6	32.27	2.191	119.2	0.1052	0.0674	2256.09	2371.4	7.875
3999.3	3934.7	0.109	46.0443	34.684	219.2	32.70	2.223	124.6	0.1007	0.0625	2374.2	2374.2	7.874
3999.9	3935.3	0.108	46.0477	34.686	219.2	32.71	2.224	124.4	0.1015	0.0625	2258.34	2371.5	7.874
4199.4	4129.7	-0.027	46.9313	34.679	221.1	32.79	2.232	126.6	0.1122	0.0655	2258.96	2376.9	7.872
4427.2	4351.5	-0.108	47.9246	34.674	222.1	33.06	2.250	129.5	0.1182	0.0733	2260.28	2376.5	7.878

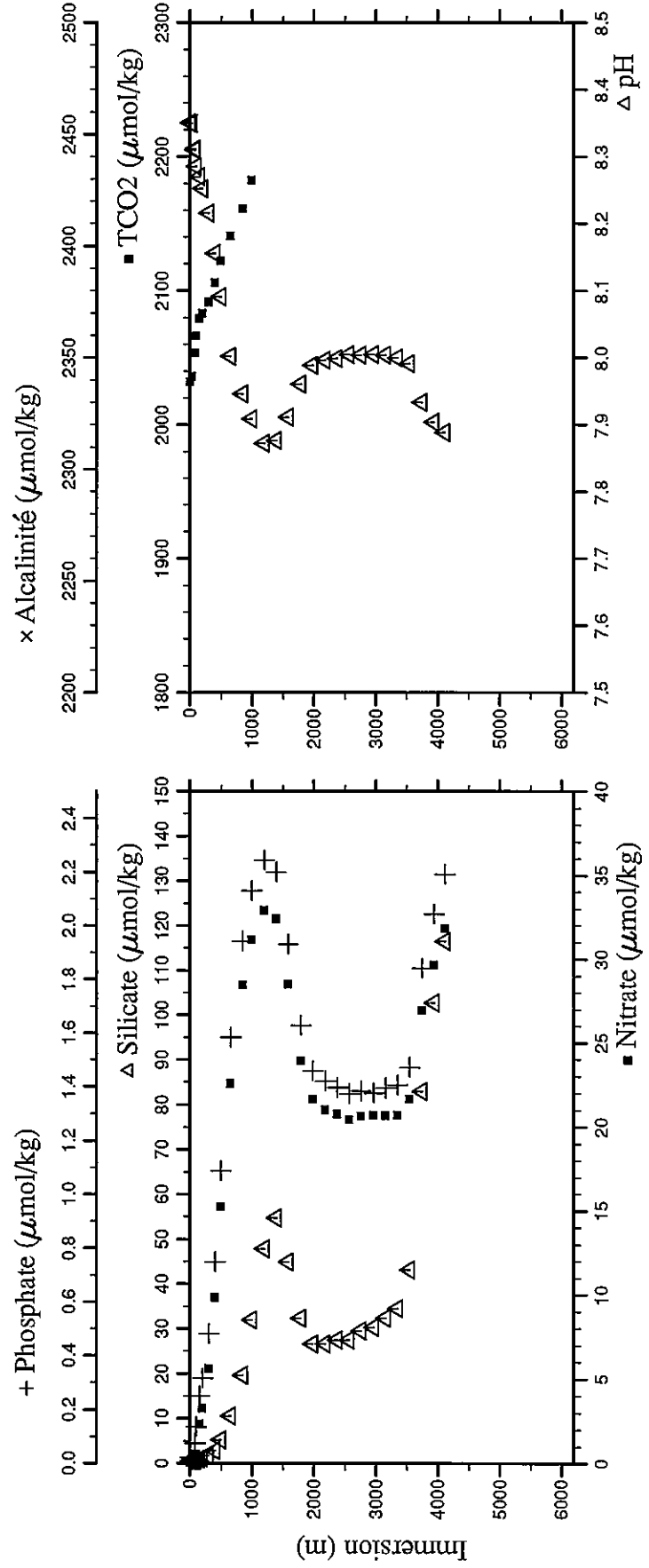
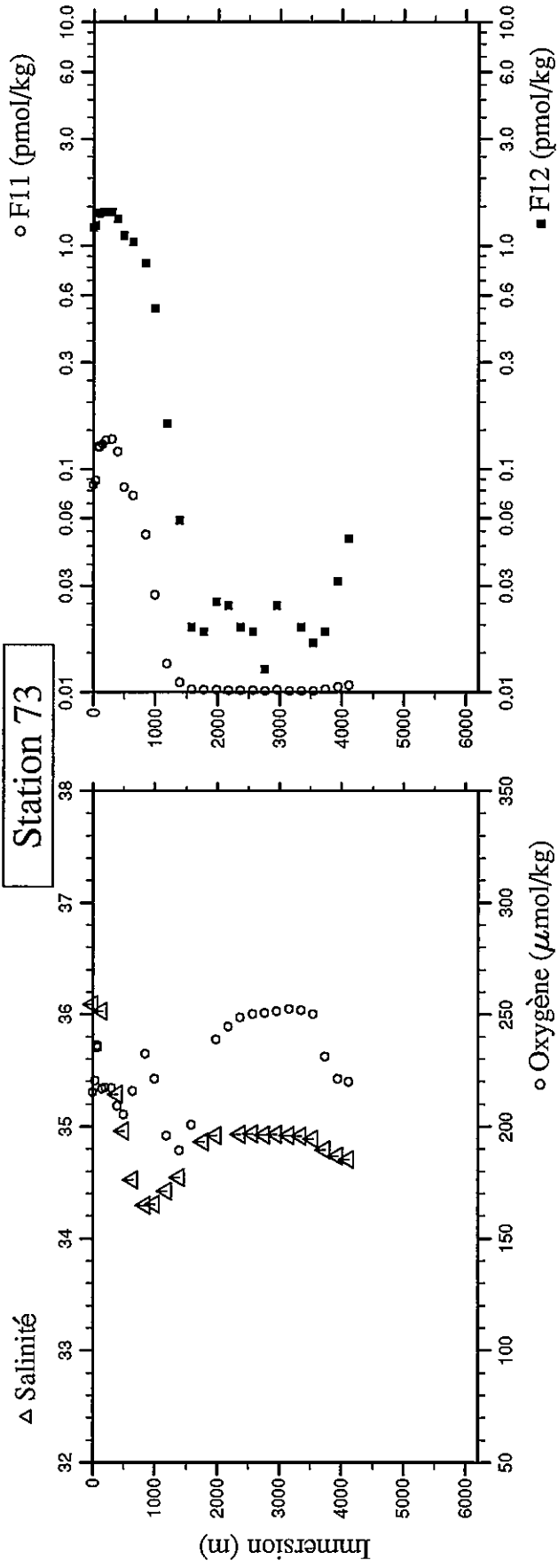
# Station 72



Station : 73 Campagne : CITHER 2  
 Date : 31-01-94 Heure : 5 h 6 mn  
 Position : S 30 29.33 W 39 22.79  
 Dernier niveau à : 4184  
 Nb prélèvements : 29

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
0.9	0.9	23.152	24.7168	36.088	215.2	0.04	0.021	0.6	2.1664	1.2053	2031.94		8.351
36.4	36.1	22.618	25.0706	36.130	220.4	0.04	0.012	0.5	2.2158	1.2336	2036.02		8.350
76.5	76.0	18.526	26.2652	36.022	235.1	0.04	0.076	0.6	2.5722	1.3898	2053.72		8.310
76.5	76.0	18.592	26.2425	36.020	236.1	0.04	0.076	0.6	2.5690	1.3986			8.312
99.8	99.1	17.679	26.5126	35.957	223.7	0.59	0.136	0.7	2.5650	1.3909	2066.45		8.285
150.8	149.7	17.367	26.8719	36.028	216.9	2.35	0.251	1.0	2.5950	1.4103	2079.52		8.270
200.0	198.5	16.509	27.1787	35.890	217.4	3.29	0.317	1.2	2.6368	1.4125	2083.17		8.252
301.4	299.1	15.177	27.7608	35.644	217.1	5.64	0.481	1.7	2.6501	1.4098	2091.85		8.216
400.7	397.6	13.159	28.3573	35.289	209.1	9.87	0.749	2.8	2.5180	1.3135	2106.02		8.156
500.3	496.3	11.018	28.9712	34.959	205.3	15.26	1.087	5.2	2.1410	1.1067	2122.17		8.091
651.1	645.6	7.401	29.9353	34.525	215.7	22.59	1.583	10.6	2.0532	1.0396	2141.03		8.002
850.6	843.0	4.634	31.0690	34.293	232.3	28.48	1.942	19.6	1.6447	0.8346	2161.20		7.946
1000.3	991.1	3.584	31.8910	34.305	221.2	31.14	2.130	31.9	1.0165	0.5248			7.909
1200.3	1188.7	3.061	32.9658	34.423	196.0	32.91	2.245	47.8	0.2990	0.1593			7.873
1401.2	1386.9	2.840	34.0027	34.546	189.4	32.39	2.201	54.7	0.1027	0.0586			7.877
1598.0	1581.0	3.155	34.9920	34.718	200.8	28.51	1.930	44.9	0.0310	0.0195			7.912
1799.5	1779.5	3.403	35.9668	34.864	223.1	23.94	1.627	32.4	0.0277	0.0186			7.961
1999.1	1976.0	3.373	36.9086	34.923	238.7	21.67	1.459	26.6	0.0254	0.0254			7.989
2200.2	2173.7	3.249	37.8390	34.928	244.5	21.03	1.420	26.6	0.0212	0.0244			7.996
2399.2	2369.2	3.046	38.7426	34.936	248.5	20.78	1.398	27.5	0.0206	0.0195			7.999
2599.7	2566.0	2.931	39.6515	34.936	250.1	20.44	1.374	27.5	0.0174	0.0186			8.005
2798.8	2761.3	2.790	40.5450	34.927	250.6	20.66	1.384	29.6	0.0136	0.0127			8.004
2998.9	2957.3	2.696	41.4379	34.931	251.4	20.71	1.375	30.3	0.0230	0.0244			8.005
3199.4	3153.6	2.561	42.3319	34.921	252.3	20.67	1.394	32.4	0.0122	0.0088			8.004
3398.1	3347.9	2.443	43.2120	34.914	251.9	20.72	1.405	33.4	0.0110	0.0195			8.000
3599.1	3544.3	2.135	44.1190	34.891	250.1	21.67	1.471	43.2	0.0117	0.0166			7.991
3799.1	3739.6	1.253	45.0663	34.793	231.1	26.94	1.842	82.9	0.0299	0.0186			7.934
4000.7	3936.2	0.792	45.9788	34.740	221.2	29.67	2.044	102.8	0.0550	0.0313			7.904
4180.8	4111.7	0.348	46.8056	34.705	219.8	31.82	2.192	116.5	0.0750	0.0488			7.889

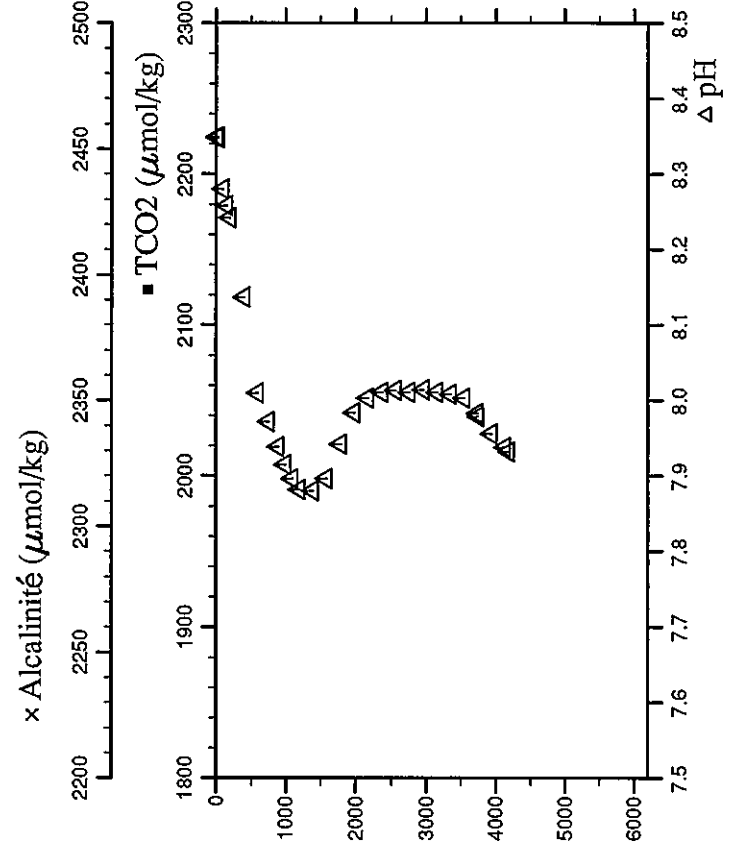
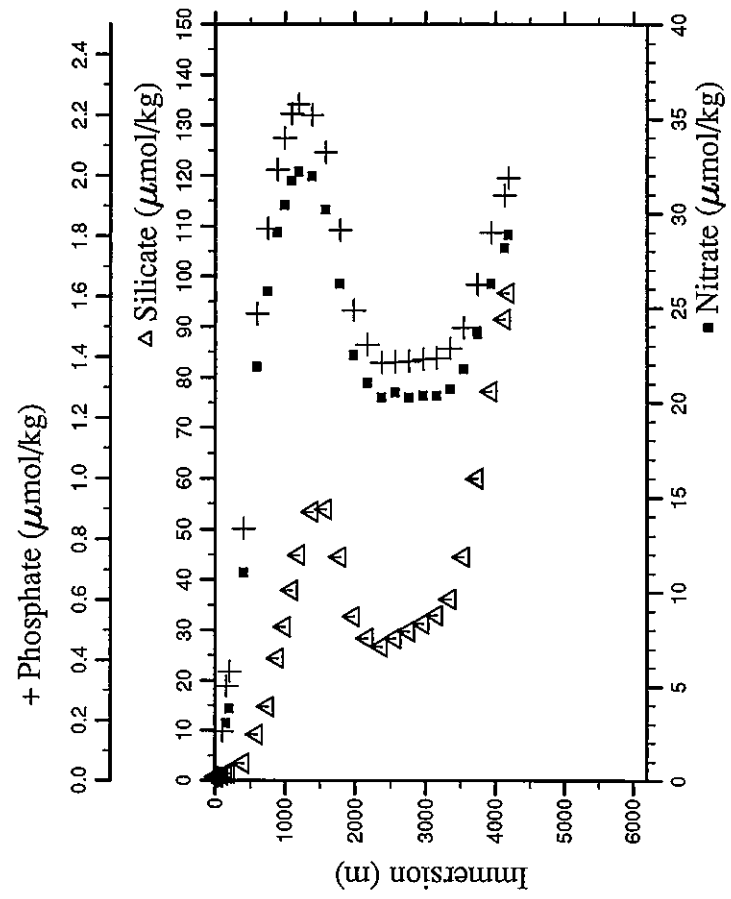
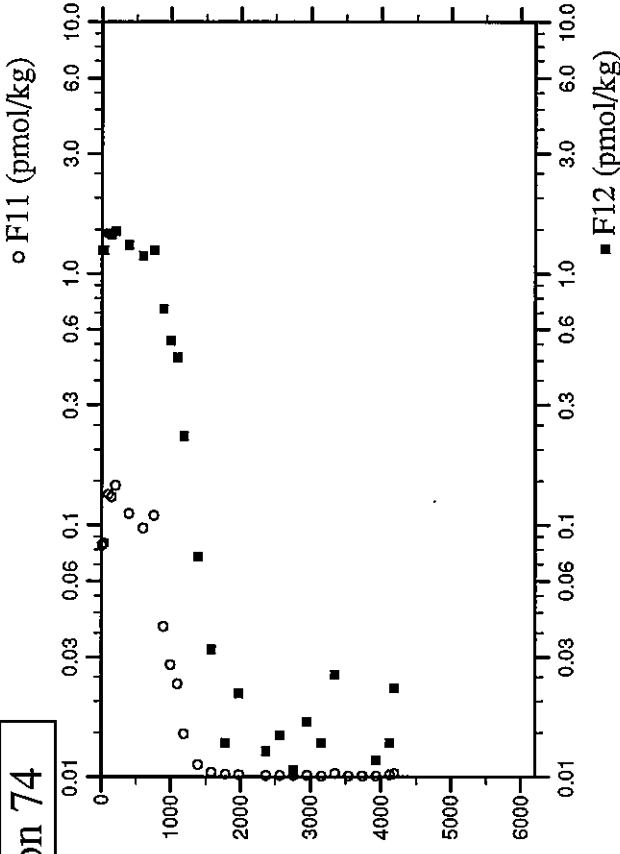
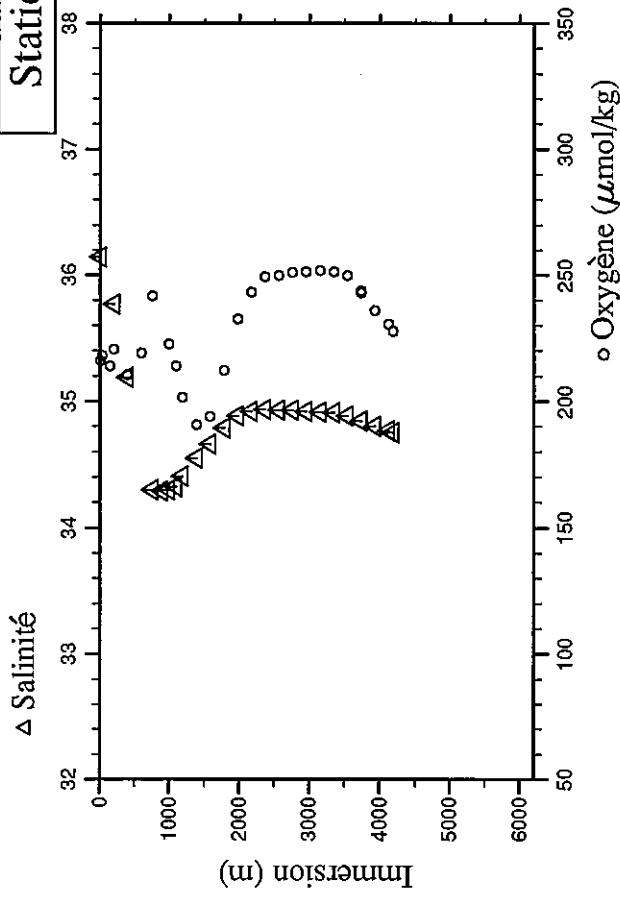
# Station 73



Station : 74 Campagne : CITHER 2  
 Date : 31-01-94 Heure : 10 h 24 mn  
 Position : S 30 5.93 W 39 2.18  
 Dernier niveau à : 4265  
 Nb prélèvements : 30

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	PH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
6.5	6.5	23.206	24.7706	36.147	216.0	0.04	0.012	0.7	2.1522	1.2375			8.349
35.8	35.6	22.862	25.0496	36.201	r 218.1	0.04	0.012	0.7	2.1678	1.2394			8.349
101.1	100.4	17.543	26.5669	35.980	r 224.2	r 0.47	0.163	1.1	2.6153	1.4426			8.280
150.0	148.9	16.713	26.9286	35.970	r 214.1	3.05	0.315	1.4	2.5948	1.4251			8.258
200.9	199.4	15.874	27.2460	35.772	220.6	3.82	0.363	1.5	2.6988	1.4711			8.242
401.0	397.9	12.523	28.4095	35.188	210.5	11.06	0.835	3.5	2.4430	1.3028			8.137
599.8	594.9	7.577	29.6780	34.533	r 219.0	21.90	1.544	9.2	2.3043	1.1794			8.010
760.4	753.8	5.169	30.5900	34.302	241.8	25.86	1.825	14.8	2.4239	1.2372			7.972
900.0	891.9	4.132	31.3559	34.289	230.2	r 29.03	2.021	24.4	1.3937	0.7242			7.939
999.8	990.6	3.583	31.8833	34.299	222.6	30.43	2.123	30.7	1.0401	0.5395			7.915
1100.9	1090.5	3.136	32.4226	34.327	214.1	31.72	2.205	37.9	0.8594	0.4632			7.896
1200.8	1189.2	3.036	32.9519	34.405	201.4	32.21	2.237	44.9	0.3966	0.2257			7.882
1399.9	1385.7	2.808	33.9976	34.550	190.7	31.95	2.200	53.4	0.1122	0.0752			7.880
1600.1	1583.1	2.778	34.9975	34.661	193.8	30.19	2.078	53.9	0.0448	0.0322			7.896
1800.3	1780.4	2.922	35.9811	34.787	212.1	26.28	1.821	44.5	0.0239	0.0137			7.942
1998.5	1975.4	3.115	36.9164	34.884	232.5	22.50	1.554	32.7	0.0222	0.0215			7.984
2199.0	2172.6	3.059	37.8458	34.920	243.3	21.04	1.442	28.4	0.0157	0.0127			8.003
2399.2	2369.3	2.976	38.7562	34.935	249.2	20.27	1.383	26.8	0.0157	0.0147			8.013
2601.1	2567.5	2.841	39.6684	34.933	249.8	20.53	1.384	28.4	0.0117	0.0107			8.011
2797.7	2760.3	2.719	40.5518	34.930	251.1	20.28	1.387	29.8	0.0138	0.0166			8.014
2998.6	2957.1	2.589	41.4512	34.923	251.4	20.37	1.392	31.3	0.0094	0.0137			8.011
3199.8	3154.1	2.464	42.3467	34.917	251.9	20.37	1.397	33.0	0.0094	0.0166			8.011
3399.2	3349.1	2.298	43.2347	34.909	251.4	20.72	1.428	36.2	0.0336	0.0254			8.008
3598.9	3544.2	2.033	44.1292	34.885	249.8	21.76	1.497	44.6	0.0073	0.0088			8.003
3797.7	3738.3	1.624	45.0322	34.843	242.9	23.75	1.641	59.9	0.0069	0.0059			7.983
3798.3	3738.9	1.625	45.0355	34.844	243.6	23.62	1.639	60.1	0.0083	0.0098			7.979
3999.1	3934.8	1.214	45.9415	34.802	235.9	26.26	1.813	77.2	0.0106	0.0117			7.956
4197.6	4128.2	0.884	46.8293	34.768	230.5	28.18	1.935	91.4	0.0215	0.0137			7.938
4260.2	4189.2	0.760	47.1100	34.755	227.7	28.89	1.992	96.6	0.0308	0.0225			7.932

# Station 74

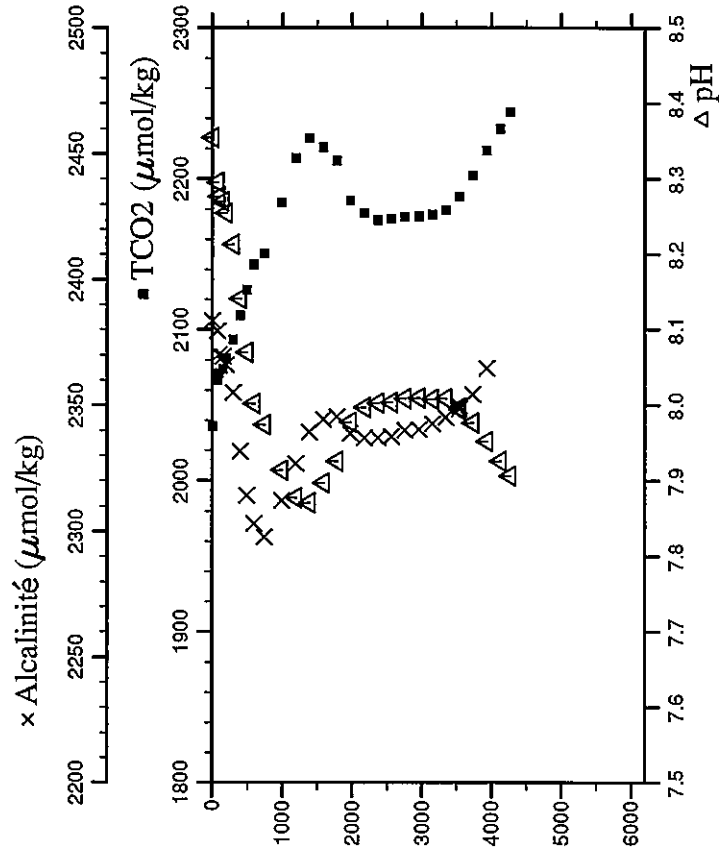
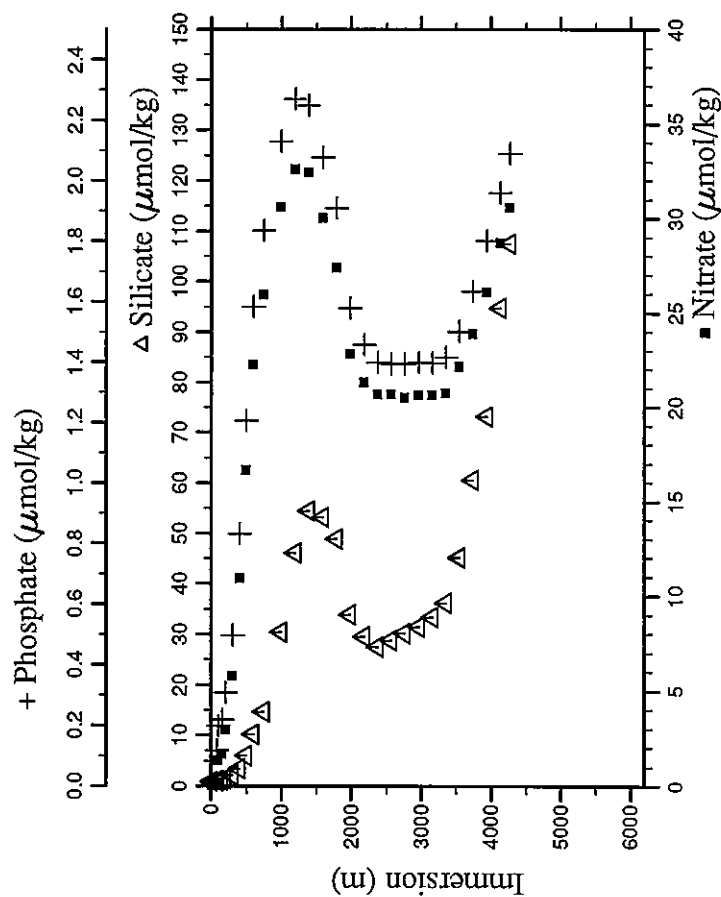
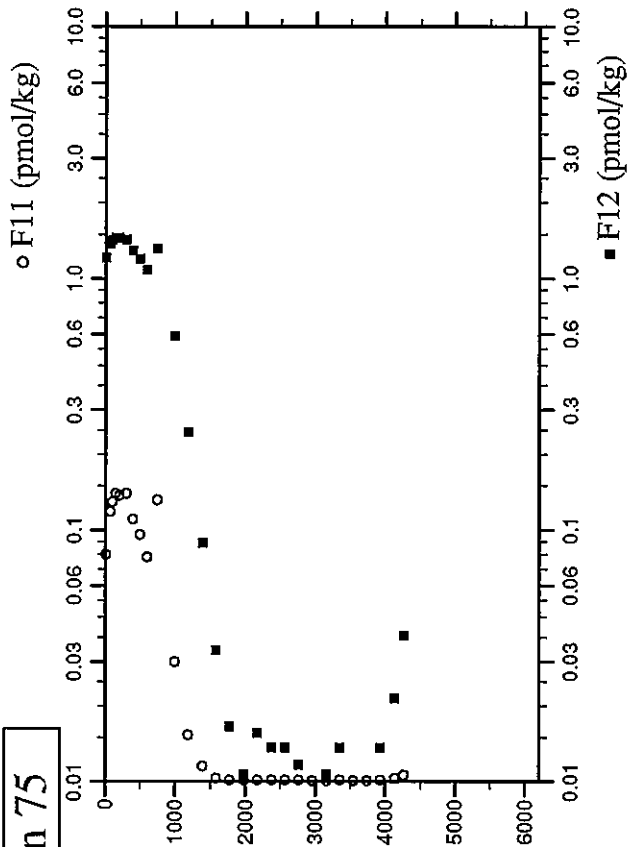
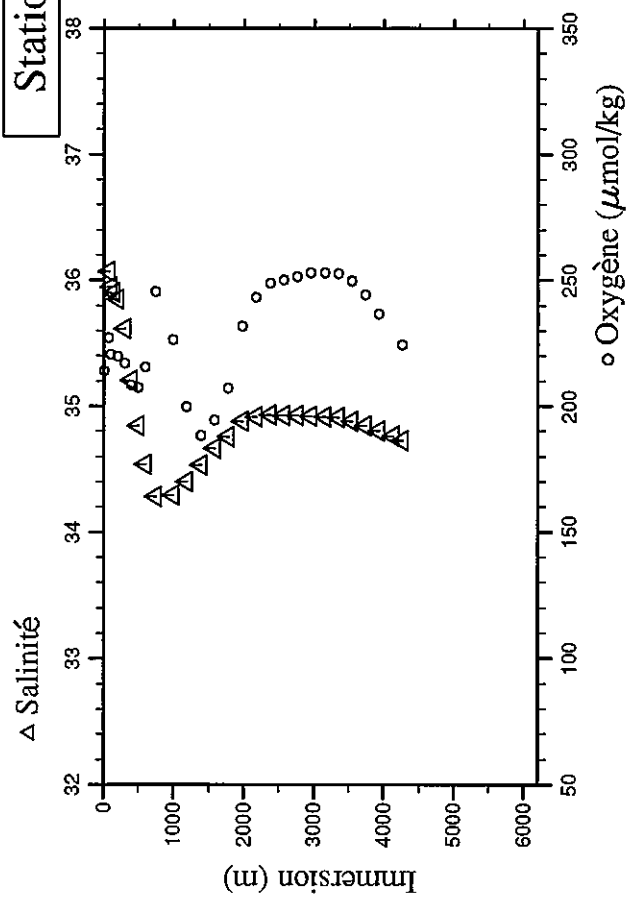


Station : 75 Campagne : CITHER 2  
 Date : 31-01-94 Heure : 15 h 51 mn  
 Position : S 29 42.05 W 38 41.17  
 Dernier niveau à : 4341  
 Nb prélèvements : 30

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	PH
dbar	metres	dég.celsius.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
8.0	7.9	23.729	24.6392	36.173	214.1	0.04	0.011	0.9	2.1099	1.2123	2036.10	2383.4	8.355
76.0	75.5	18.477	26.3001	36.069	227.2	0.17	0.118	1.1	2.5033	1.3803	2066.86	2379.4	8.296
101.1	100.4	17.633	26.5313	35.946	220.6	1.34	0.197	1.2	2.5967	1.4175	2071.44	2370.1	8.277
150.4	149.3	17.082	26.8460	35.904	222.6	1.69	0.218	1.2	2.6730	1.4478	2073.72	2369.3	8.270
201.1	199.6	16.503	27.1630	35.851	219.9	2.95	0.309	1.4	2.6518	1.4517	2081.15	2365.9	8.255
301.2	298.9	15.055	27.7577	35.616	217.0	5.78	0.497	2.2	2.6704	1.4286	2093.39	2355.0	8.213
400.9	397.8	12.711	28.3839	35.203	208.3	10.94	0.831	3.5	2.4355	1.2952	2109.47	2331.7	8.141
500.2	496.2	10.219	29.0329	34.844	207.3	16.68	1.207	6.0	2.2910	1.1968	2126.38	2314.1	8.070
600.9	596.0	7.589	29.6992	34.537	215.4	22.28	1.584	10.2	2.0868	1.0828	2143.56	2302.9	8.002
750.0	743.6	4.993	30.5512	34.284	245.4	25.98	1.836	14.7	2.6123	1.3176	2150.48	2297.5	7.974
999.6	990.4	3.564	31.8807	34.293	226.4	30.61	2.131	30.4	1.1122	0.5884	2184.53	2312.0	7.914
1200.4	1188.8	2.951	32.9610	34.404	199.7	32.60	2.271	46.1	0.4375	0.2443	2213.77	2326.9	7.878
1399.2	1385.1	2.761	33.9903	34.532	188.2	32.43	2.249	54.5	0.1461	0.0889	2226.81	2339.3	7.871
1601.3	1584.4	2.771	35.0082	34.667	194.3	30.05	2.077	53.2	0.0340	0.0332	2220.87	2344.4	7.897
1799.7	1779.8	2.769	35.9732	34.758	207.1	27.40	1.910	48.9	0.0138	0.0166	2211.87	2345.3	7.926
1999.6	1976.6	3.051	36.9244	34.879	231.9	22.85	1.580	33.9	0.0165	0.0107	2185.95	2338.7	7.978
2199.6	2173.3	3.023	37.8499	34.916	243.2	21.32	1.459	29.6	0.0156	0.0156	2177.46	2337.1	7.997
2400.8	2370.9	2.956	38.7646	34.931	248.8	20.68	1.399	27.5	0.0145	0.0137	2172.68	2336.9	8.003
2600.5	2567.0	2.815	39.6692	34.927	250.0	20.67	1.395	28.8	0.0120	0.0137	2173.51	2337.4	8.004
2799.5	2762.1	2.685	40.5637	34.926	251.4	20.50	1.394	30.2	0.0114	0.0117	2174.94	2340.0	8.009
2999.0	2957.6	2.583	41.4531	34.922	252.8	20.66	1.399	31.4	0.0073	0.0088	2174.97	2340.4	8.010
3198.7	3153.1	2.459	42.3426	34.915	252.9	20.66	1.396	33.4	0.0106	0.0107	2176.51	2342.6	8.008
3398.4	3348.4	2.300	43.2323	34.910	252.7	20.74	1.417	36.2	0.0145	0.0137	2179.36	2345.1	8.009
3597.4	3542.9	2.008	44.1256	34.881	249.9	22.17	1.504	45.1	0.0069	0.0068	2349.7	2349.7	7.995
3597.8	3543.3	2.006	44.1273	34.881	249.7	22.14	1.501	45.2	0.0074	0.0068	2188.42	2348.3	7.996
3798.0	3738.7	1.637	45.0327	34.846	244.2	23.90	1.634	60.5	0.0063	0.0088	2202.37	2354.3	7.977
3999.0	3934.8	1.228	45.9404	34.803	236.6	26.09	1.801	73.2	0.0109	0.0137	2218.66	2364.6	7.952
4198.7	4129.4	0.897	46.8321	34.763	224.5	28.72	1.961	94.8	0.0325	0.0215	2233.28	2364.6	7.926
4338.3	4265.4	0.525	47.4688	34.727	224.5	30.57	2.089	107.5	0.0585	0.0381	2244.23	2364.6	7.907



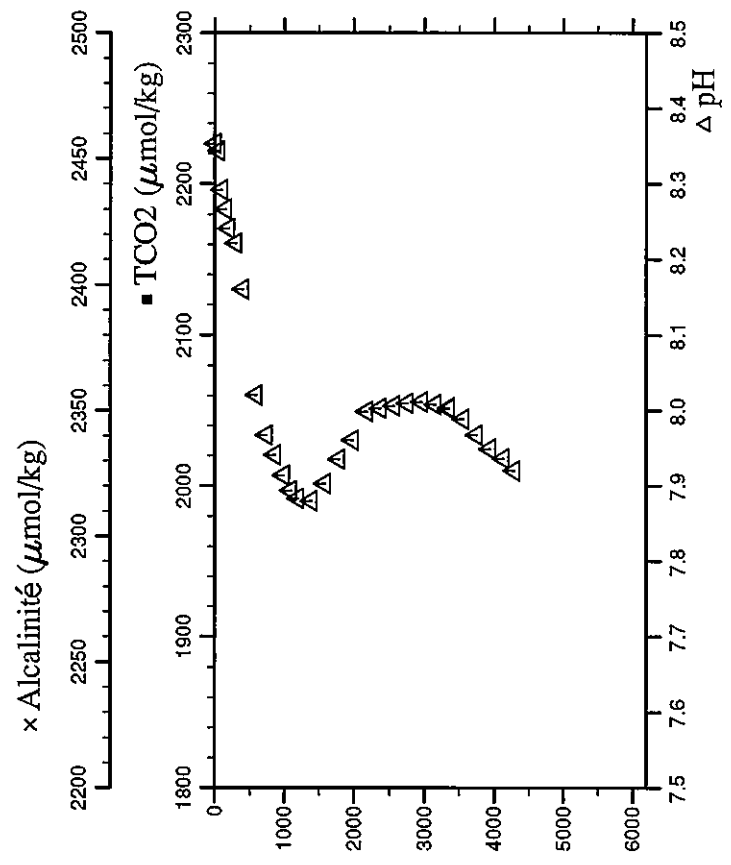
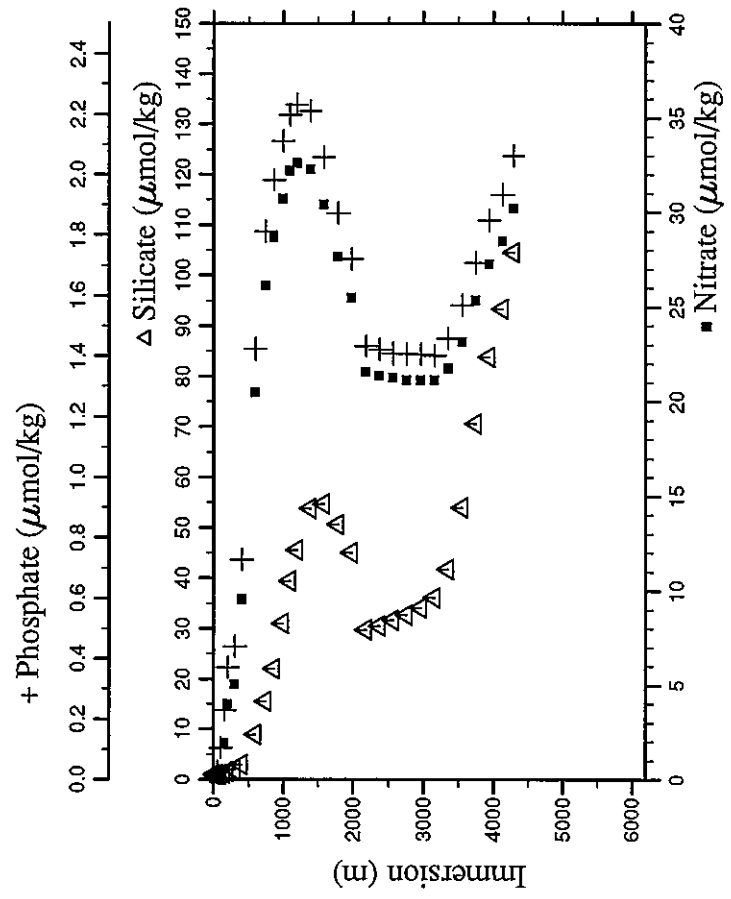
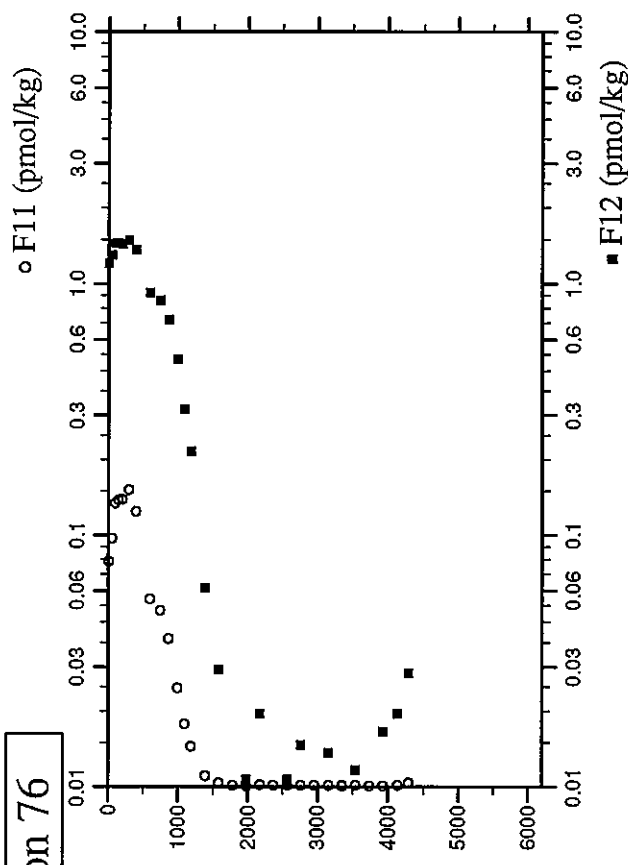
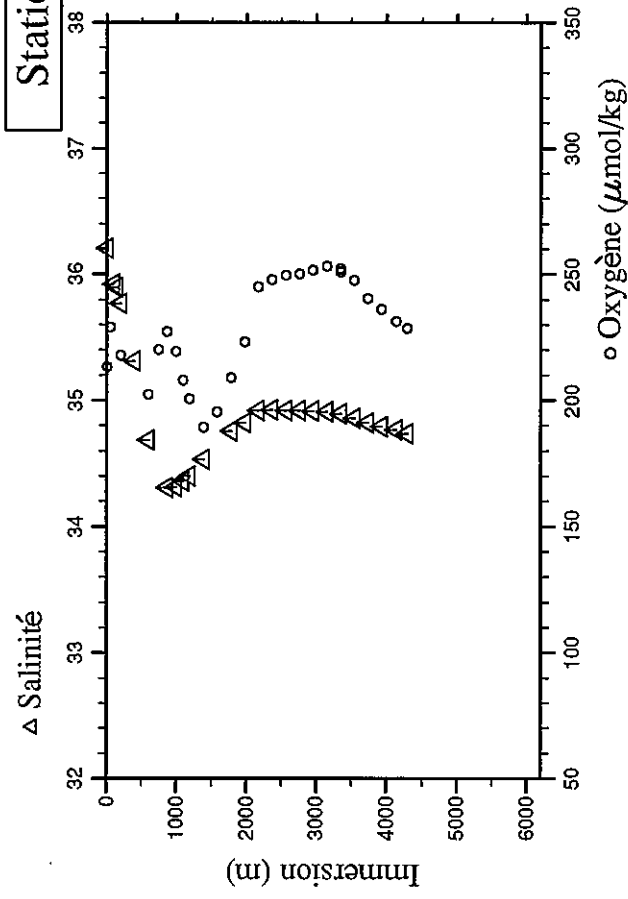
# Station 75



Station : 76 Campagne : CITHER 2  
 Date : 31-01-94 Heure : 21 h 14 mn  
 Position : S 29 18.83 W 38 20.63  
 Dernier niveau à : 4367  
 Nb prélèvements : 30

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- um/kg	pH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.6	5.6	24.276	24.4953	36.207	213.3	0.04	0.015	1.0	2.0912	1.2025			8.353
50.6	50.3	21.981	25.3178	36.073	228.9	0.04	0.027	1.0	2.3053	1.3021			8.344
100.8	100.1	17.698	26.4905	35.922	231.5	0.04	0.104	1.0	2.6322	1.4448			8.292
148.5	147.4	17.018	26.8486	35.898	221.6	1.93	0.229	1.2	2.6598	1.4517			8.267
200.4	199.0	16.013	27.2141	35.769	217.9	3.99	0.371	1.6	2.6630	1.4352			8.241
298.8	296.6	15.021	27.7765	35.659	222.9	5.04	0.442	1.9	2.7567	1.4842			8.222
401.0	397.9	13.265	28.3493	35.310	211.7	9.56	0.727	3.0	2.5527	1.3595			8.161
599.6	594.7	8.840	29.6010	34.888	202.2	20.46	1.425	8.9	1.7423	0.9214			8.021
750.7	744.3	5.866	30.5116	34.397	220.2	26.15	1.813	15.6	1.6343	0.8562			7.968
869.8	862.1	4.501	31.1792	34.309	227.3	28.68	1.981	22.1	1.3738	0.7194			7.941
1001.6	992.4	3.750	31.8832	34.315	219.2	30.70	2.111	31.1	0.9183	0.4995			7.914
1101.0	1090.7	3.333	32.4247	34.359	207.8	32.21	2.198	39.4	0.5812	0.3176			7.894
1200.9	1189.4	3.118	32.9433	34.401	200.6	32.60	2.232	45.5	0.3750	0.2150			7.884
1399.7	1385.6	2.886	33.9780	34.536	189.3	32.26	2.211	53.8	0.1039	0.0616			7.880
1599.7	1582.8	2.791	34.9994	34.656	195.4	30.42	2.059	54.7	0.0371	0.0293			7.903
1800.2	1780.4	2.757	35.9812	34.760	208.9	27.66	1.872	50.7	0.0113	0.0078			7.935
1999.7	1976.7	2.739	36.9271	34.822	223.2	25.48	1.721	45.0	0.0095	0.0107			7.961
2199.9	2173.6	3.022	37.8540	34.920	245.1	21.56	1.432	29.8	0.0206	0.0195			7.999
2399.0	2369.3	2.896	38.7611	34.924	247.7	21.37	1.423	30.5	0.0109	0.0078			8.003
2598.9	2565.5	2.759	39.6654	34.922	249.5	21.26	1.410	31.7	0.0120	0.0107			8.007
2798.6	2761.3	2.638	40.5635	34.920	250.2	21.11	1.407	32.7	0.0126	0.0147			8.010
2998.3	2957.0	2.522	41.4565	34.916	251.7	21.11	1.406	34.1	0.0114	0.0049			8.012
3199.1	3153.6	2.392	42.3518	34.910	253.1	21.12	1.402	36.1	0.0145	0.0137			8.008
3398.5	3348.6	2.176	43.2438	34.896	250.9	21.74	1.458	41.7	0.0139	0.0068			8.004
3599.2	3546.3	2.168	43.2462	34.894	252.0	21.75	1.458	41.8	0.0095	0.0059			8.002
3799.6	3740.4	1.823	44.1592	34.861	247.5	23.15	1.568	54.0	0.0109	0.0117			7.989
3997.8	3933.8	1.428	45.0588	34.822	240.4	25.35	1.709	70.6	0.0068	0.0098			7.968
4198.0	4128.9	1.124	45.9456	34.792	236.1	27.24	1.849	83.8	0.0101	0.0166			7.949
4364.2	4280.7	0.902	46.8300	34.768	231.2	28.47	1.934	93.4	0.0159	0.0195			7.936
	4290.7	0.619	47.5717	34.737	228.5	30.21	2.062	104.5	0.0405	0.0283			7.920

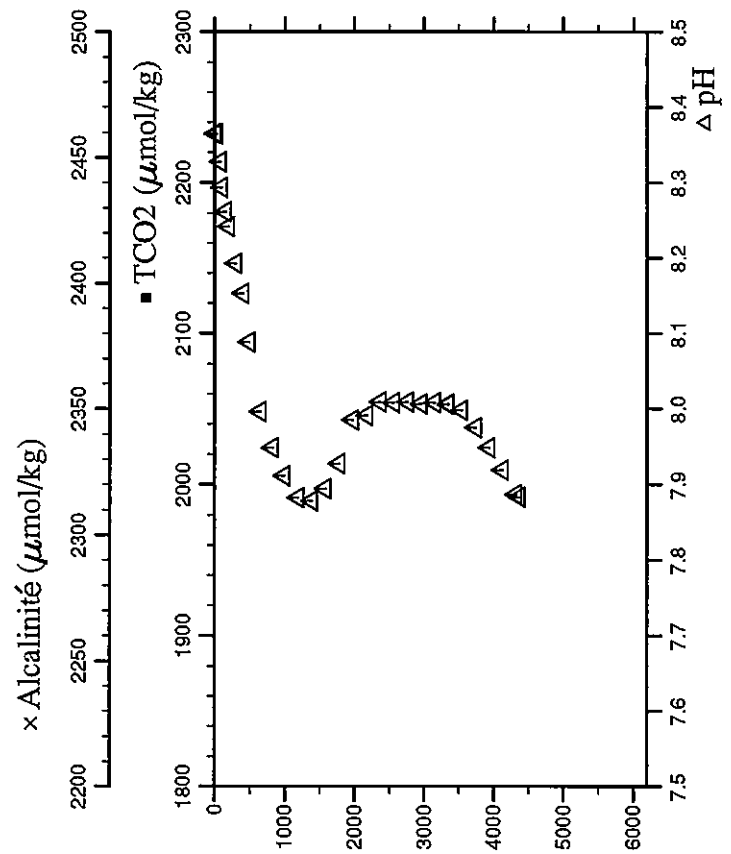
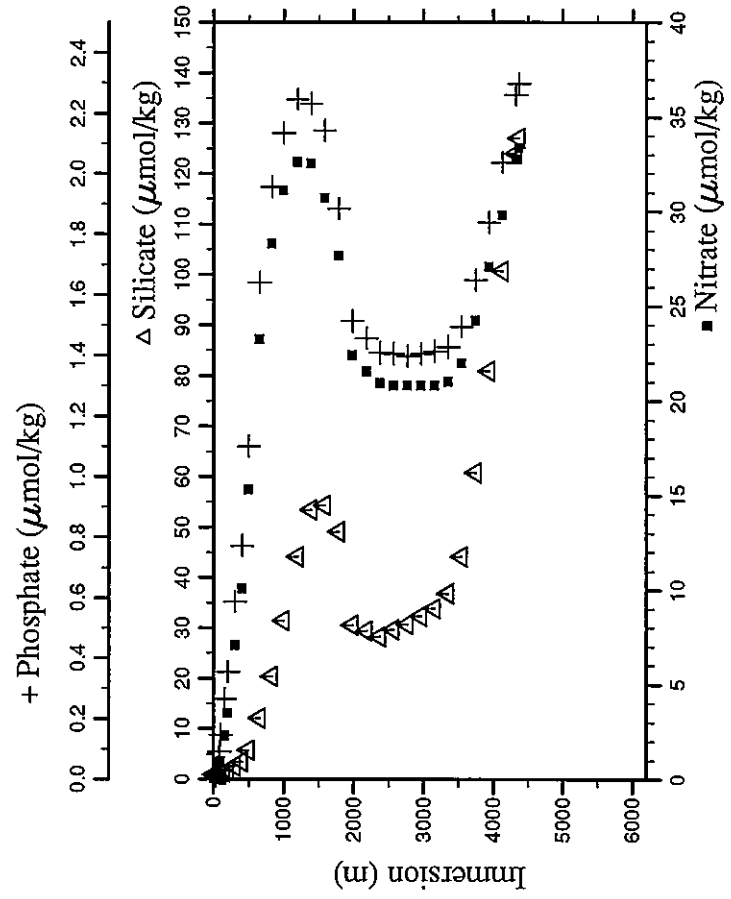
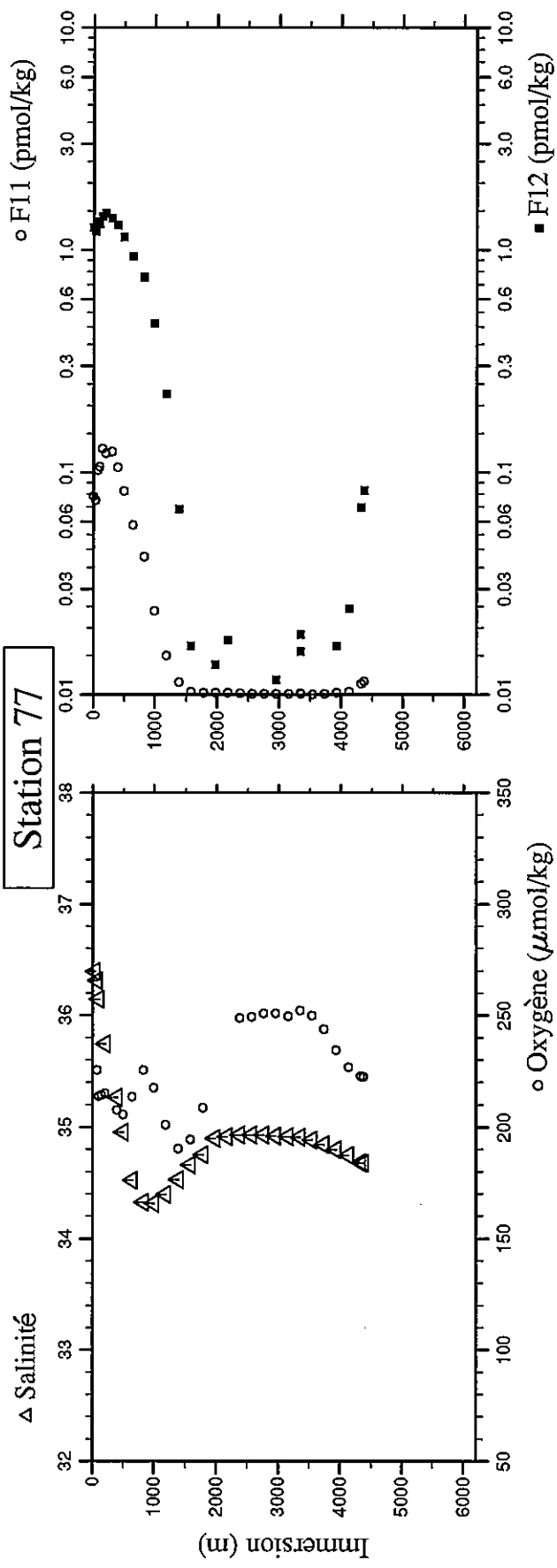
**Station 76**



Station : 77 Campagne : CITHER 2  
Date : 01-02-94 Heure : 3 h 6 mn  
Position : S 28 54.71 W 37 59.79  
Dernier niveau à : 4447  
Nb prélèvements : 31

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
1.8	1.8	0.007	-0.1300	36.322	212.3	0.04	0.015	1.0	2.0866	1.2634			8.365
30.8	30.6	24.051	24.8091	36.393	214.4	0.04	0.009	1.0	2.0422	1.2091			8.365
75.8	75.3	19.979	26.0963	36.312	225.3	0.00	0.092	1.0	2.3588	1.3371			8.328
100.8	100.1	18.820	26.3820	36.148	213.8	0.94	0.146	1.1	2.3943	1.3070			8.294
150.8	149.7	17.143	26.8066	35.854	214.2	2.29	0.265	1.5	2.5832	1.4097			8.262
200.8	199.4	16.206	27.1533	35.742	214.9	3.48	0.355	1.8	2.5329	1.4597			8.242
300.8	298.6	14.564	27.7664	35.480	208.0	7.08	0.588	2.6	2.5531	1.3867			8.193
400.7	397.6	13.184	28.3349	35.268	207.6	10.11	0.773	3.5	2.3888	1.2893			8.153
499.7	495.7	11.018	28.9726	34.958	205.6	15.32	1.100	5.8	2.1351	1.1420			8.089
650.6	645.2	7.318	29.9540	34.526	213.4	23.24	1.640	12.1	1.7837	0.9352			7.996
830.5	823.3	4.827	30.9701	34.326	225.4	28.29	1.957	20.4	1.4467	0.7516			7.949
1001.4	992.3	3.751	31.8814	34.315	217.5	31.11	2.135	31.4	0.8787	0.4662			7.912
1200.3	1188.8	3.150	32.9330	34.398	200.9	32.61	2.246	44.2	0.4099	0.2258			7.883
1401.2	1387.1	2.876	33.9805	34.530	190.4	32.54	2.231	53.5	0.1297	0.0684			7.879
1600.4	1583.6	2.780	34.9987	34.659	194.3	30.70	2.143	54.3	0.0337	0.0166			7.895
1800.4	1780.6	2.798	35.9735	34.755	208.7	27.65	1.884	49.1	0.0203	0.0088			7.928
2000.7	1977.8	3.186	36.9290	34.900	236.7	22.41	1.514	30.6	0.0170	0.0137			7.985
2199.9	2173.7	3.059	37.8486	34.916	243.7	21.56	1.456	29.4	0.0196	0.0176			7.991
2401.1	2371.4	2.950	38.7680	34.931	248.9	20.95	1.409	28.3	0.0135	0.0098			8.009
2599.6	2566.3	2.816	39.6645	34.929	249.4	20.83	1.405	29.7	0.0081	0.0068			8.008
2800.1	2762.9	2.698	40.5645	34.929	250.8	20.80	1.398	30.7	0.0066	0.0078			8.009
2999.3	2958.1	2.589	41.4531	34.922	250.8	20.81	1.406	32.3	0.0065	0.0117			8.007
3199.7	3154.3	2.472	42.3449	34.917	249.7	20.82	1.414	33.8	0.0079	0.0059			8.008
3398.5	3348.7	2.308	43.2313	34.909	252.1	21.00	1.427	36.9	0.0074	0.0156			8.007
3598.0	3543.7	2.050	43.2319	34.910	252.0	21.01	1.428	36.8	0.0151	0.0186			8.006
3798.9	3739.8	1.646	44.1236	34.886	249.8	22.01	1.494	44.2	0.0032	0.0078			7.998
3998.1	3934.2	1.193	45.0349	34.845	243.7	24.23	1.649	60.8	0.0093	0.0078			7.975
4197.9	4128.9	0.707	45.9377	34.797	234.4	27.07	1.839	80.9	0.0193	0.0166			7.949
4398.1	4323.9	-0.007	46.8473	34.747	226.8	29.81	2.036	100.7	0.0321	0.0244			7.919
4447.7	4372.1	-0.106	48.0133	34.675	222.5	32.76	2.261	124.0	0.1161	0.0694			7.887
					222.3	33.34	2.297	127.1	0.1368	0.0831			7.884

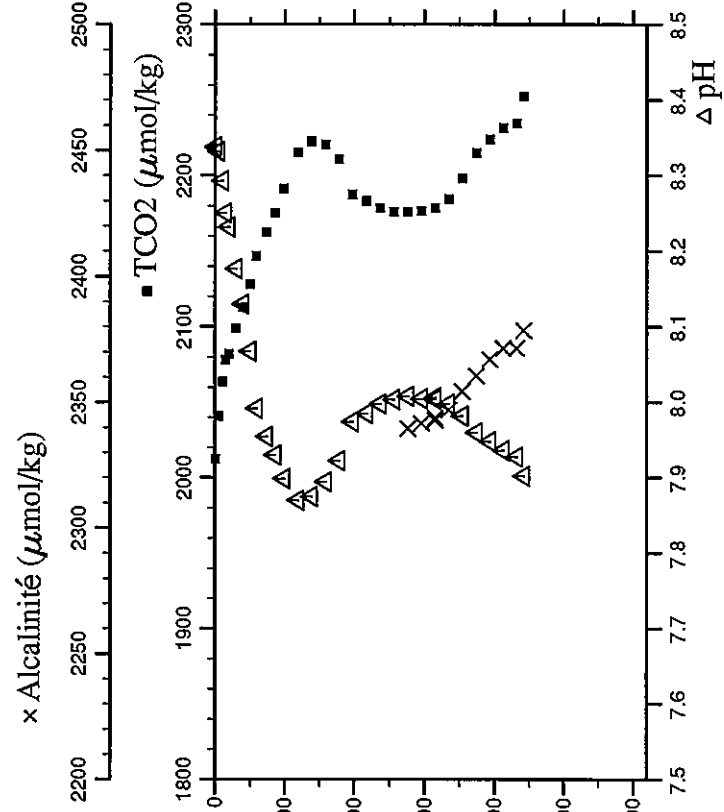
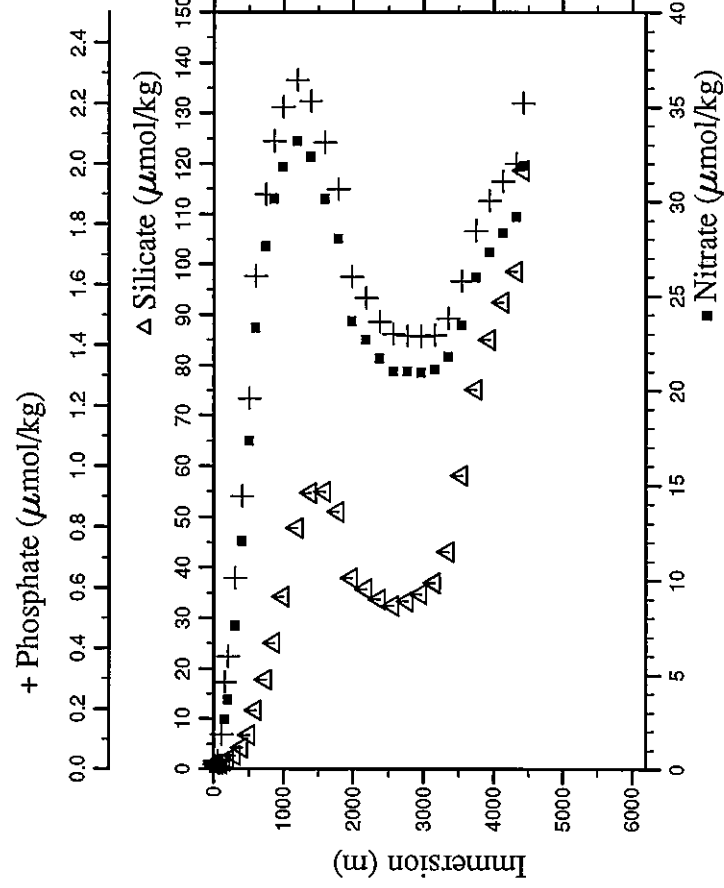
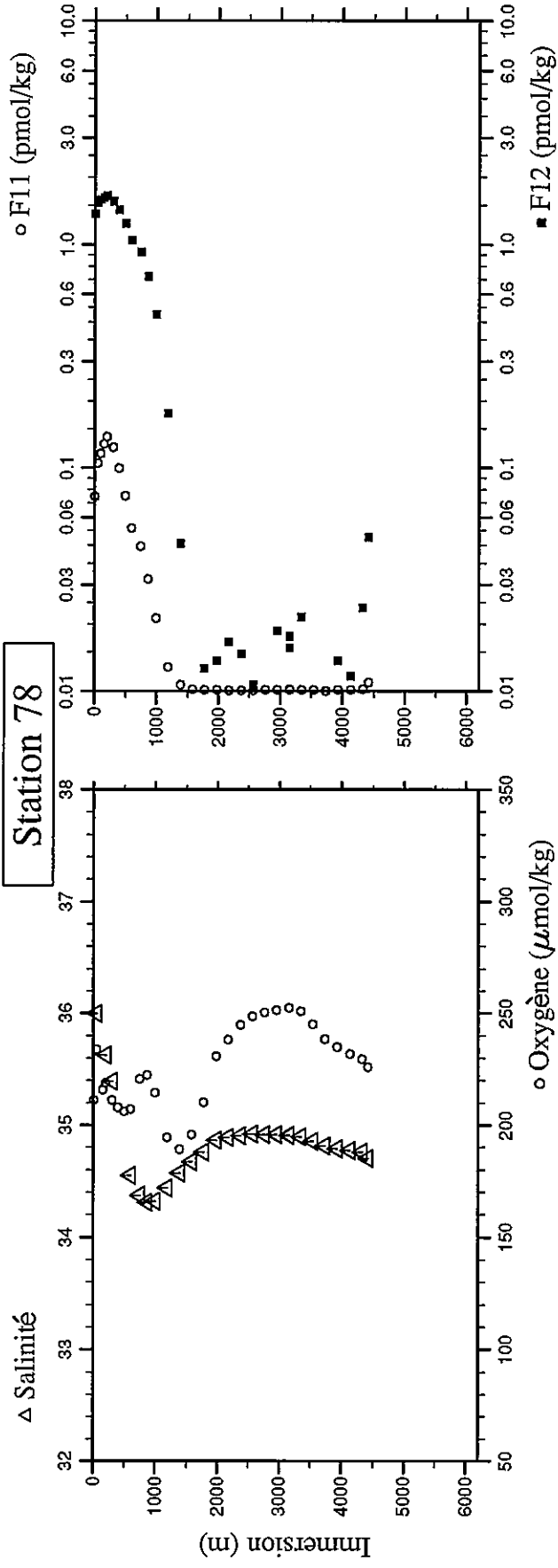
# Station 77



Station : 78 Campagne : CITHER 2  
 Date : 01-02-94 Heure : 8 h 57 mn  
 Position : S 28 31.83 W 37 38.58  
 Dernier niveau à : 4502  
 Nb prélèvements : 31

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.8	5.8	24.486	24.0849	35.755	211.2	0.04	0.026	1.0	2.0382	1.3661	2012.64		8.338
50.2	49.9	21.057	25.4577	36.001	233.9	0.04	0.026	1.0	2.3836	1.5377	2040.72		8.332
101.7	101.0	18.254	26.4165	35.993	225.1		0.116	1.1	2.4798	1.5807	2063.91		8.293
151.2	150.1	16.718	26.8391	35.761	215.7	2.65	0.290	1.6	2.5815	1.6190	2078.24		8.251
202.0	200.6	15.705	27.1828	35.629	218.7	3.69	0.374	1.8	2.6606	1.6504	2082.00		8.232
301.2	299.0	14.133	27.7917	35.394	211.1	7.59	0.632	2.7	2.5482	1.5609	2098.75		8.177
400.7	397.6	12.259	28.4245	35.131	208.0	12.08	0.901	4.2	2.3275	1.4234	2112.75		8.130
501.9	497.9	10.214	29.0485	34.847	206.2	17.31	1.223	6.8	2.0431	1.2390	2128.05		8.068
599.4	594.5	7.566	29.7068	34.551	207.2	23.33	1.628	11.8	1.7074	1.0438	2146.71		7.992
750.4	744.0	5.396	30.5630	34.369	220.6	27.64	1.899	17.8	1.5142	0.9237	2162.34		7.955
870.2	862.6	4.282	31.2119	34.308	222.4	30.13	2.074	25.1	1.1727	0.7195	2175.28		7.930
1000.4	991.3	3.555	31.9076	34.323	214.4	31.84	2.187	34.2	0.7632	0.4868	2191.21		7.899
1199.9	1188.4	3.080	32.9669	34.438	194.3	33.19	2.276	47.8	0.2522	0.1750	2215.29		7.870
1400.1	1386.1	2.852	34.0123	34.569	189.1	32.38	2.207	54.7	0.0647	0.0459	2222.55		7.875
1600.7	1583.9	2.746	35.0137	34.674	195.7	30.14	2.071	55.0	0.0204	0.0098	2220.34		7.895
1799.3	1779.6	2.734	35.9780	34.758	210.1	28.05	1.916	51.0	0.0146	0.0127	2210.59		7.923
1998.3	1975.5	2.947	36.9257	34.867	230.7	23.67	1.625	37.9	0.0124	0.0137	2187.62		7.974
2199.2	2173.1	2.849	37.8528	34.889	238.1	22.67	1.555	35.8	0.0098	0.0166	2183.14		7.985
2399.2	2369.6	2.765	38.7688	34.905	244.7	21.68	1.478	33.7	0.0090	0.0147	2178.68		7.998
2598.8	2565.5	2.692	39.6729	34.919	248.6	21.02	1.437	32.5	0.0099	0.0107	2175.90		8.004
2799.9	2762.8	2.590	40.5750	34.917	250.3	21.02	1.430	33.4	0.0114	0.0098	2176.08	2339.5	8.008
2999.7	2958.6	2.481	41.4681	34.918	251.4	20.94	1.429	34.7	0.0165	0.0186	2176.61	2341.5	8.005
3198.8	3153.5	2.332	42.3587	34.903	252.4	21.12	1.433	37.1	0.0155	0.0176	2178.57	2343.5	8.004
3398.2	3348.5	2.114	43.2499	34.893	252.4	21.12	1.433	36.9	0.0178	0.0156	2342.8	2346.9	8.007
3599.3	3545.1	1.725	44.1631	34.855	244.9	21.79	1.488	43.2	0.0127	0.0215	2184.47	2346.9	7.998
3798.7	3739.8	1.329	45.0648	34.815	238.4	25.95	1.779	58.1	0.0110	0.0068	2197.83	2354.2	7.982
3998.3	3934.5	1.107	45.9494	34.787	234.8	27.31	1.878	75.2	0.0038	0.0068	2215.03	2360.3	7.960
4198.4	4129.6	0.940	46.8282	34.771	231.9	28.35	1.942	85.1	0.0135	0.0137	2223.97	2367.0	7.948
4398.4	4324.3	0.788	47.7024	34.756	229.5	28.19	2.000	92.5	0.0110	0.0117	2231.53	2371.3	7.936
4498.2	4421.4	0.194	48.1954	34.702	226.0	31.90	2.199	118.7	0.0172	0.0235	2234.67	2371.2	7.928
									0.0921	0.0489	2252.28	2378.3	7.902

# Station 78

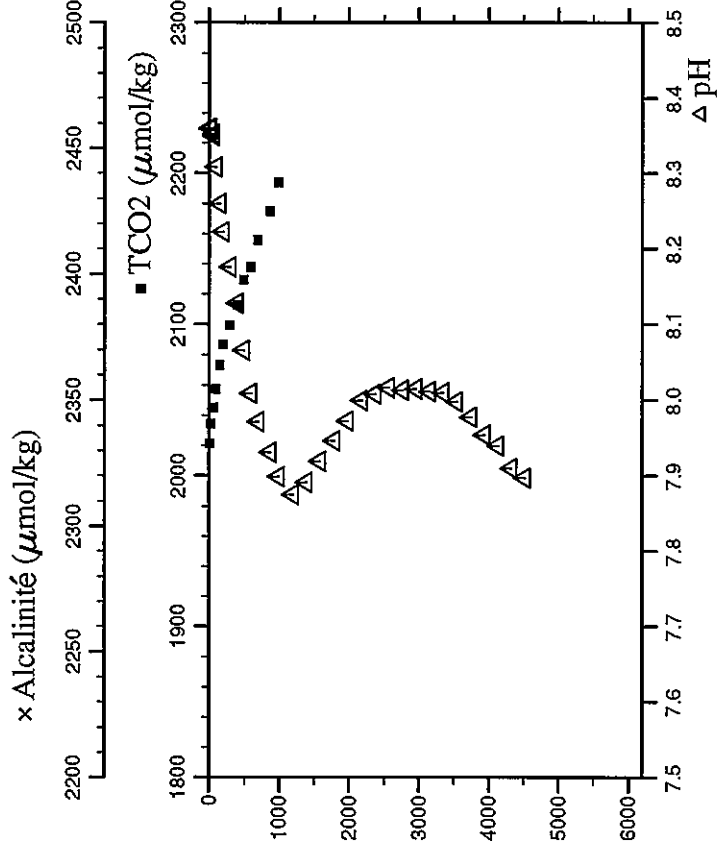
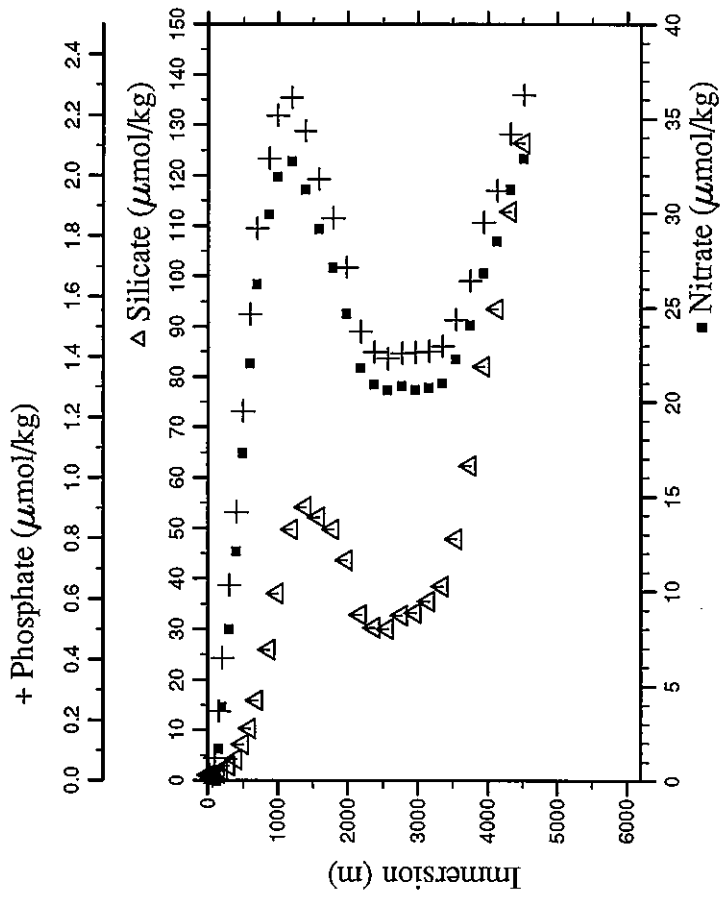
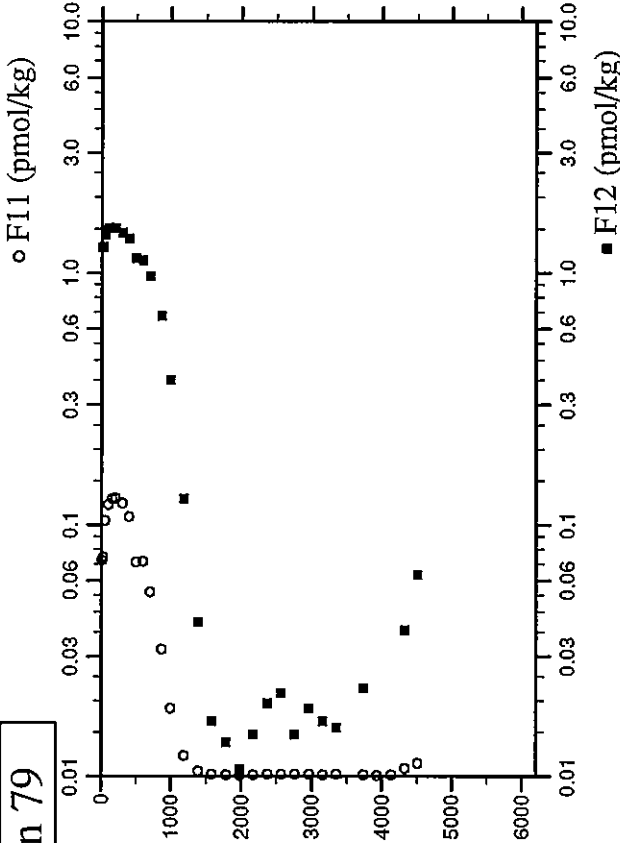
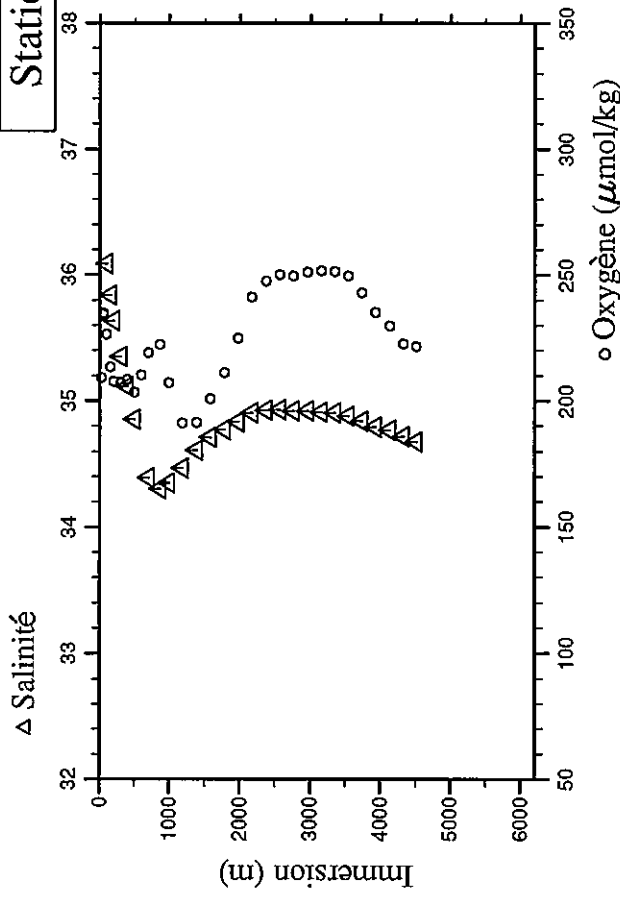


Station : 79 Campagne : CITHER 2  
 Date : 01-02-94 Heure : 14 h 40 mn  
 Position : S 28 7.59 W 37 18.03  
 Dernier niveau à : 4595  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
6.6	6.6	25.649	23.9534	36.042	r 207.7	0.04	0.020	1.1	2.0062	1.2643	2021.46		8.360
26.0	25.8	25.321	24.3084	36.274	r 209.2	0.04	0.020	1.0	2.0376	1.2719	2034.60		8.359
55.9	55.5	21.954	25.5135	36.353	r 234.4	0.04	0.014	1.1	2.3749	1.4211	2044.89		8.350
56.4	56.0	21.968	25.5147	36.360	r 234.9	0.04	0.014	1.1	2.3752	1.4241			8.352
100.9	100.2	18.970	26.2977	36.088	226.5	0.04	0.074	1.1	2.5257	1.5044	2057.52		8.308
151.3	150.2	17.470	26.7046	35.839	213.4	1.67	0.230	1.5	2.5747	1.5125	2073.04		8.260
200.8	199.4	16.126	27.0879	35.636	207.6	3.89	0.406	2.0	2.5798	1.5000	2086.45		8.223
300.9	298.7	13.959	27.7950	35.354	207.2	7.99	0.645	3.0	2.5368	1.4398	2099.38		8.176
401.5	398.4	12.152	28.4356	35.116	208.3	12.09	0.887	4.3	2.4083	1.3658	2112.47		8.128
500.0	496.1	10.210	29.0428	34.853	203.2	17.28	1.220	7.2	1.9867	1.1394	2129.28		8.066
600.6	595.7	7.915	29.6794	34.579	210.1	22.05	1.541	10.4	1.9966	1.1210	2137.68		8.009
700.7	694.9	5.845	30.2942	34.391	219.1	26.23	1.826	16.0	1.7121	0.9687	2155.87		7.972
875.0	867.3	4.136	31.2497	34.305	222.3	29.94	2.056	26.0	1.1748	0.6755	2174.66		7.931
999.7	990.7	3.514	31.9350	34.350	207.2	31.93	2.198	37.0	0.6296	0.3754	2193.75		7.899
1200.5	1189.1	3.018	33.0058	34.469	191.2	32.73	2.258	49.8	0.1903	0.1271			7.875
1400.2	1386.2	2.845	34.0460	34.609	191.3	31.27	2.147	54.2	0.0508	0.0410			7.919
1599.8	1583.1	2.795	35.0329	34.711	200.7	29.14	1.988	52.2	0.0222	0.0166			7.946
1799.7	1780.0	2.694	35.9966	34.774	211.1	27.12	1.858	49.8	0.0113	0.0137			7.973
1999.4	1976.6	2.742	36.9333	34.833	224.8	24.67	1.695	43.6	0.0091	0.0107			8.000
2199.6	2173.5	2.905	37.8596	34.905	241.1	21.80	1.484	32.9	0.0143	0.0147			8.008
2400.3	2370.7	2.866	38.7715	34.924	247.6	20.93	1.417	30.3	0.0183	0.0195			8.017
2600.8	2567.6	2.773	39.6771	34.929	250.1	20.60	1.394	30.0	0.0175	0.0215			8.013
2799.7	2762.7	2.634	40.5691	34.921	249.5	20.85	1.412	32.7	0.0192	0.0147			8.015
3000.1	2959.1	2.543	41.4635	34.923	251.0	20.65	1.415	33.2	0.0171	0.0186			8.012
3199.4	3154.2	2.404	42.3524	34.911	251.5	20.74	1.419	35.5	0.0133	0.0166			8.010
3398.6	3349.0	2.254	43.2387	34.906	251.4	20.99	1.435	38.5	0.0191	0.0156			7.998
3599.0	3544.9	1.981	44.1355	34.881	249.5	22.26	1.523	47.9					7.978
3799.1	3730.3	1.602	45.0410	34.840	242.9	24.06	1.652	62.4	0.0123	0.0225			7.954
3998.0	3934.3	1.147	45.9444	34.795	235.0	26.83	1.845	82.0	0.0073	0.0059			7.940
4200.4	4131.6	0.894	46.8419	34.769	229.7	28.51	1.949	93.5	0.0120	0.0068			7.910
4399.1	4325.1	0.398	47.7437	34.717	222.6	31.24	2.136	112.8	0.0729	0.0381			7.897
4593.7	4514.5	-0.075	48.6366	34.678	221.6	32.89	2.266	126.4	0.1222	0.0635			



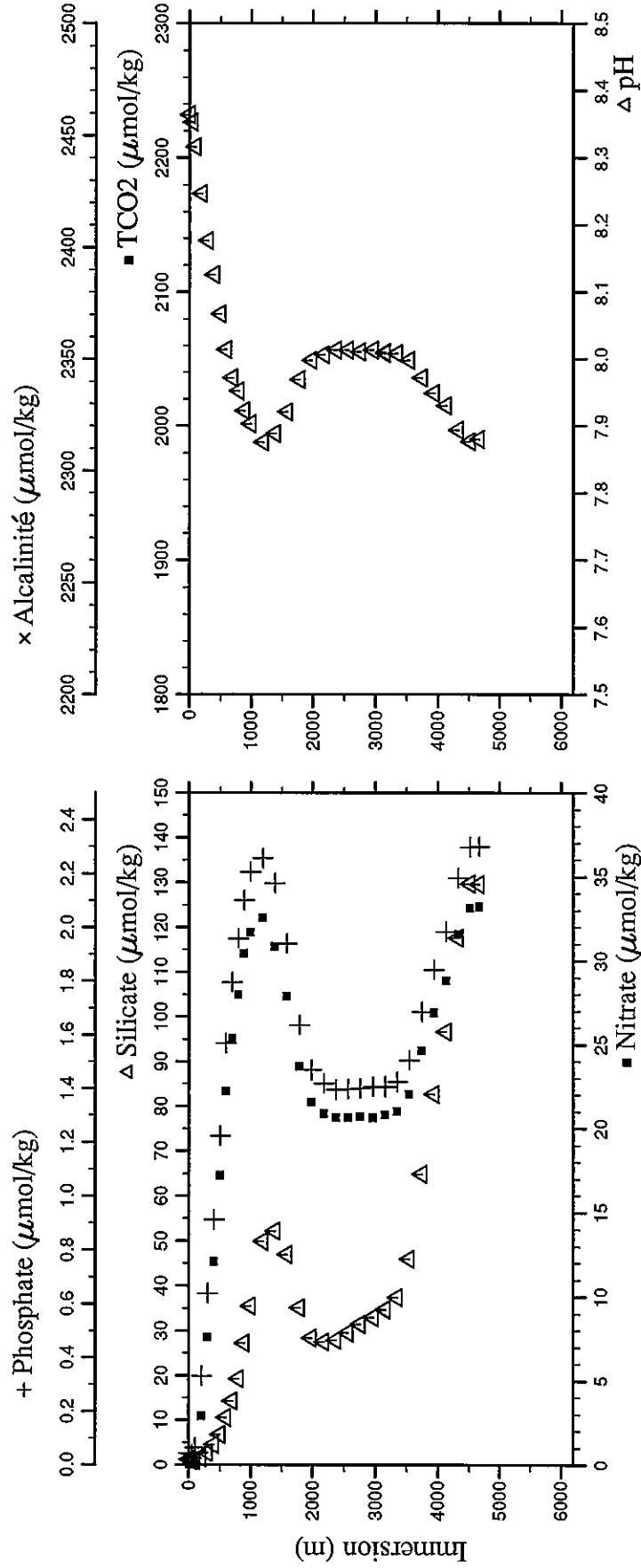
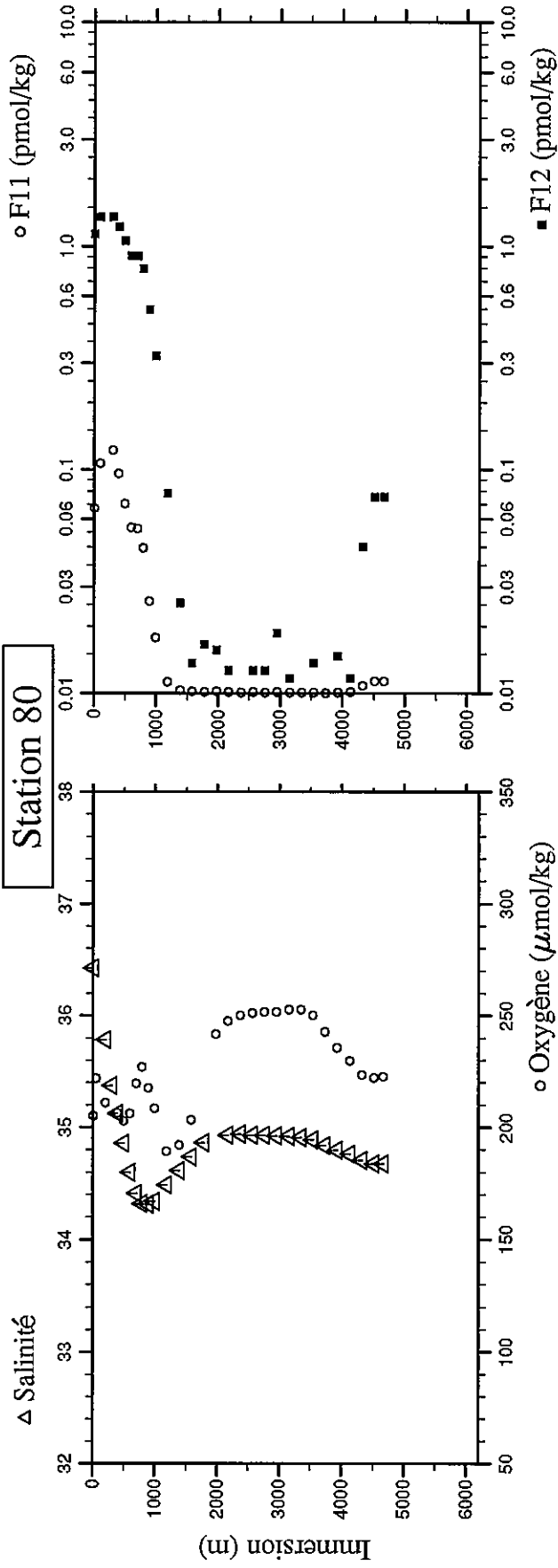
Station 79



Station : 80 Campagne : CITHER 2  
 Date : 01-02-94 Heure : 20 h 15 mn  
 Position : S 27 44.46 W 36 57.20  
 Dernier niveau à : 4751  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION metres	TEMP. POT. SONDE	deg.cels.	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	um/kg	PHOSPHATE	um/kg	SILICATE	F11	pmol/kg	F12	pmol/kg	CARBONE INORG.TOT.	um/kg	ALCALI- NITE	um/kg	PH
6.6	6.6	26.237		24.0617	36.424	205.0	0.04	0.044	0.044	1.2	1.9324	1.1332	1.1332		1.1332				8.364	
51.1	50.8	23.542		25.1407	36.492	r	0.04	0.038	0.038	1.0									8.353	
100.8	100.1	19.772		26.2183	36.268	r	0.04	0.065	0.065	1.0	2.3974	1.3500	1.3500		1.3500				8.317	
201.2	199.8	16.836		27.0316	35.783	r	2.90	0.332	0.332	1.6									8.247	
300.6	298.4	14.128		27.7724	35.374	r	7.63	0.638	0.638	2.7	2.5329	1.3558	1.3558		1.3558				8.177	
400.7	397.7	12.253		28.4196	35.125	206.4	12.09	0.912	0.912	4.5	2.2946	1.2280	1.2280		1.2280				8.126	
501.0	497.1	10.258		29.0418	34.861	202.9	17.22	1.223	1.223	6.8	1.9795	1.0563	1.0563		1.0563				8.068	
601.6	596.7	8.090		29.6721	34.601	206.1	22.22	1.569	1.569	10.6	1.7280	0.9089	0.9089		0.9089				8.014	
701.7	695.9	6.212		30.2650	34.414	219.7	25.39	1.795	1.795	14.3	1.7166	0.9042	0.9042		0.9042				7.972	
800.9	794.1	4.888		30.8248	34.321	227.0	27.99	1.959	1.959	19.3	1.5142	0.7928	0.7928		0.7928				7.952	
900.5	892.6	4.124		31.3738	34.316	217.5	30.45	2.101	2.101	27.3	0.9608	0.5210	0.5210		0.5210				7.923	
1001.8	992.8	3.609		31.9259	34.342	208.3	31.69	2.206	2.206	35.5	0.5840	0.3216	0.3216		0.3216				7.903	
1201.3	1189.9	3.069		33.0163	34.489	189.4	32.59	2.258	2.258	49.9	0.1221	0.0782	0.0782		0.0782				7.876	
1401.5	1387.5	2.955		34.0434	34.618	192.2	30.85	2.163	2.163	52.2	0.0306	0.0254	0.0254		0.0254				7.889	
1599.9	1583.2	3.019		35.0277	34.739	203.2	27.90	1.939	1.939	47.0	0.0171	0.0137	0.0137		0.0137				7.921	
1799.8	1780.2	3.192		36.0022	34.866	229.9	23.70	1.636	1.636	35.1	0.0152	0.0166	0.0166		0.0166				7.969	
1999.8	1977.1	3.178		36.9414	34.914	r	21.55	1.469	1.469	28.4	0.0183	0.0156	0.0156		0.0156				7.998	
2200.0	2174.0	3.056		37.8612	34.930	247.6	20.88	1.419	1.419	27.5	0.0123	0.0127	0.0127		0.0127				8.007	
2399.0	2369.5	2.930		38.7651	34.939	250.2	20.66	1.395	1.395	27.9	0.0101	0.0088	0.0088		0.0088				8.013	
2599.2	2566.1	2.792		39.6696	34.932	251.1	20.64	1.397	1.397	29.6	0.0110	0.0127	0.0127		0.0127				8.013	
2799.2	2762.3	2.661		40.5675	34.930	251.6	20.72	1.399	1.399	31.5	0.0086	0.0117	0.0117		0.0117				8.011	
2999.3	2958.4	2.549		41.4600	34.924	251.7	20.64	1.406	1.406	33.0	0.0118	0.0186	0.0186		0.0186				8.013	
3199.0	3153.9	2.432		42.3482	34.920	252.6	20.80	1.403	1.403	34.7	0.0060	0.0117	0.0117		0.0117				8.008	
3399.4	3154.0	2.431		42.3486	34.920	252.5	20.82	1.408	1.408	34.6	0.0075	0.0098	0.0098		0.0098				8.010	
3597.7	3549.9	2.297		43.2365	34.909	252.6	21.03	1.424	1.424	37.4	0.0064	0.0064	0.0064		0.0064				8.008	
3800.0	3741.3	1.568		44.1230	34.888	250.0	22.03	1.505	1.505	46.0	0.0066	0.0137	0.0137		0.0137				7.998	
3998.1	3934.5	1.171		45.9426	34.839	242.8	24.64	1.685	1.685	64.9	0.0044	0.0088	0.0088		0.0088				7.972	
4198.7	4130.1	0.846		46.8374	34.797	235.7	26.92	1.842	1.842	82.7	0.0088	0.0147	0.0147		0.0147				7.949	
4399.8	4325.9	0.258		47.7646	34.761	229.8	28.80	1.983	1.983	96.7	0.0157	0.0117	0.0117		0.0117				7.930	
4598.3	4519.1	-0.114		48.6612	34.709	223.3	31.61	2.183	2.183	117.6	0.0783	0.0450	0.0450		0.0450				7.894	
4749.3	4665.9	-0.126		49.3103	34.675	222.0	33.14	2.297	2.297	129.7	0.1274	0.0753	0.0753		0.0753				7.877	
					34.675	222.6	33.23	2.300	2.300	129.6	0.1274	0.0753	0.0753		0.0753				7.880	

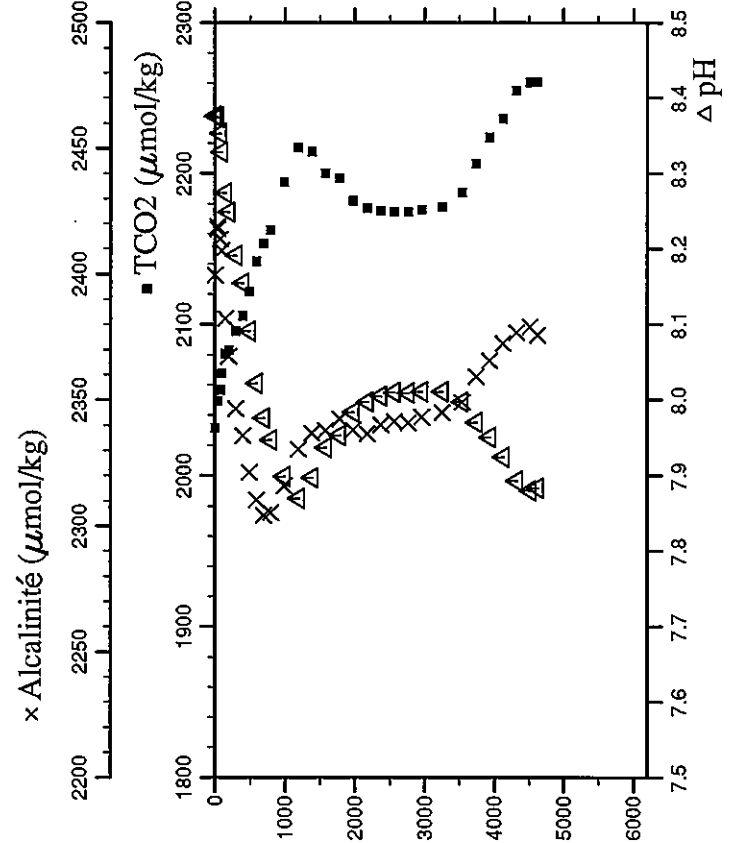
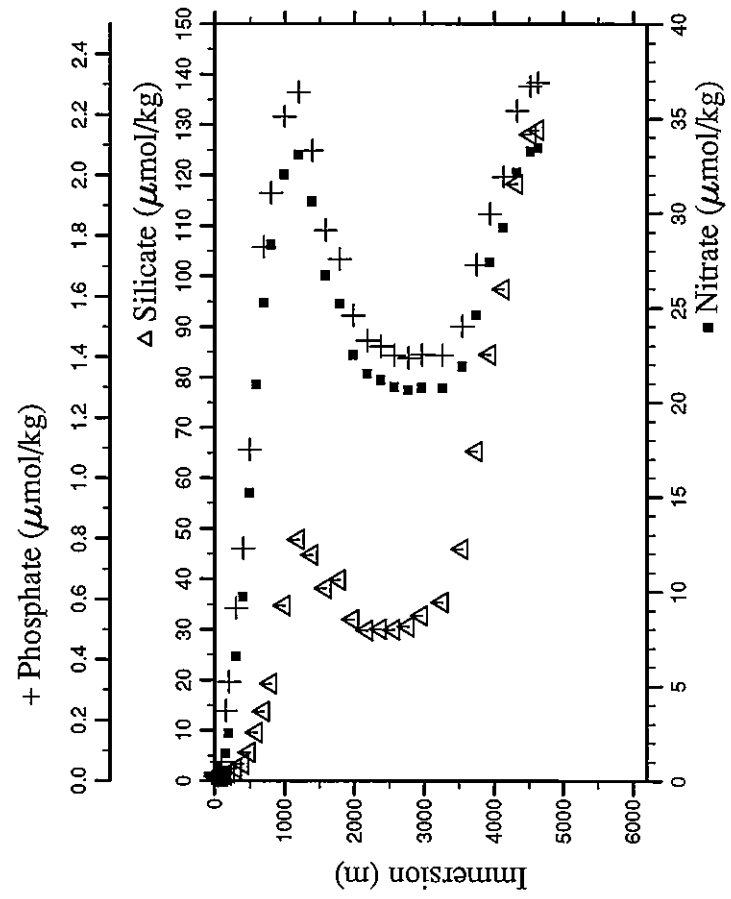
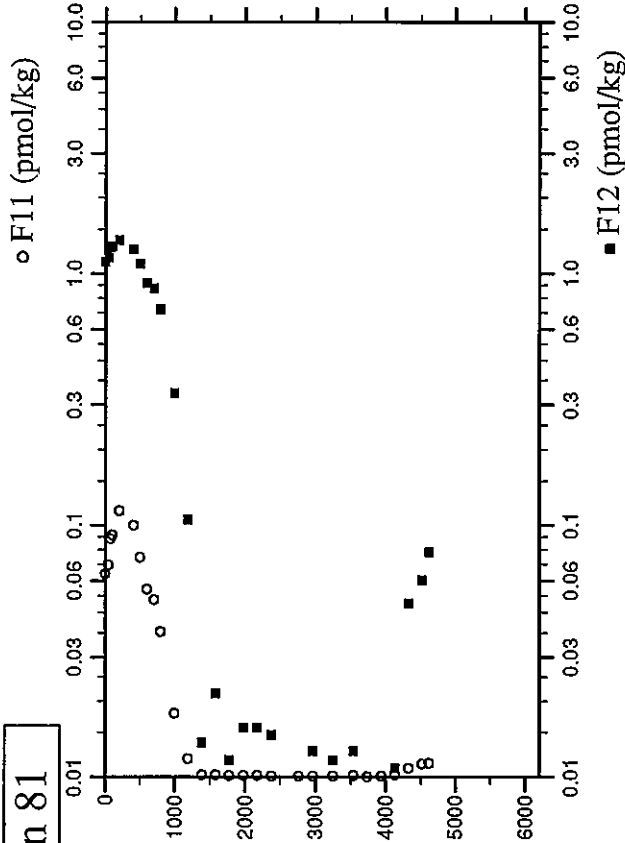
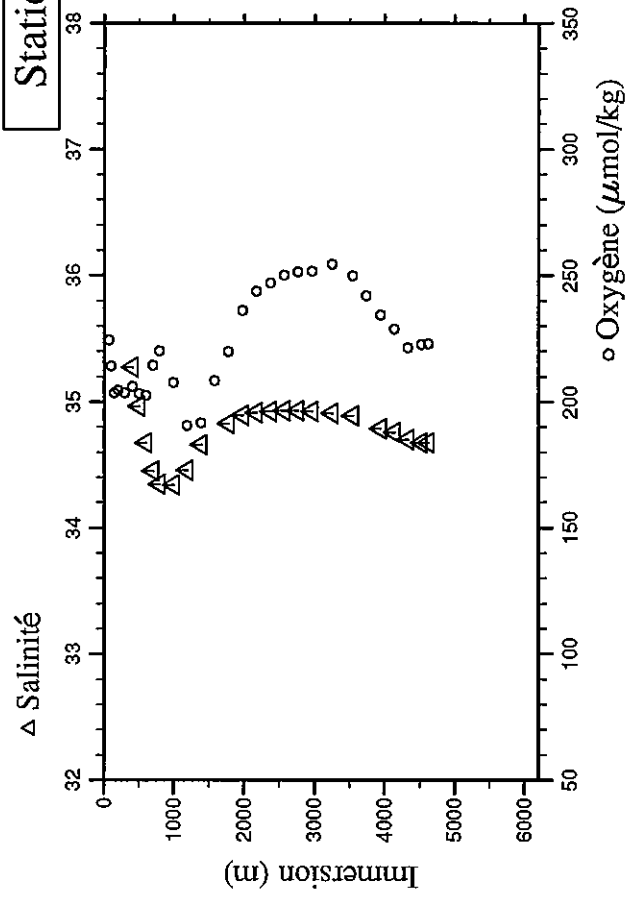
# Station 80



Station : 81 Campagne : CITHIER 2  
 Date : 02-02-94 Heure : 1 h 58 mn  
 Position : S 27 21.13 W 36 36.72  
 Dernier niveau à : 4709  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	PH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
1.7	1.7	26.517	23.9519	209.4	r	0.04	0.026	1.0	1.8841	1.1089	2031.30	2399.5	8.376
41.6	41.3	25.267	24.7578	212.1	r	0.04	0.014	0.9	1.9680	1.1526	2049.39	2417.8	8.374
41.9	41.6	25.260	24.7688	210.8	r	0.04	0.020	0.9				2418.8	8.375
76.3	75.8	22.081	25.7765	224.3	r	0.04	0.026	0.9	2.2068	1.2708	2056.60	2413.8	8.353
100.6	99.9	21.114	26.0805	214.2	r	0.04	0.062	0.9	2.2472	1.2826	2067.38	2409.1	8.329
150.3	149.3	19.020	26.5247	203.5	r	1.46	0.231	1.2			2080.55	2382.3	8.274
200.3	198.9	17.508	26.9206	204.6	r	2.50	0.327	1.6	2.4698	1.3516	2082.92	2367.2	8.249
298.7	296.5	14.903	27.6870	203.6	r	6.56	0.570	2.5			2095.46	2346.5	8.191
401.8	398.8	13.355	28.3109	206.0	r	9.73	0.768	3.4	2.3311	1.2486	2105.75	2335.7	8.155
499.9	496.0	11.117	28.9610	203.3	r	15.21	1.095	5.7	2.0375	1.0906	2121.72	2321.2	8.091
601.8	597.0	8.730	29.6202	202.6	r	20.95	1.464	9.6	1.7398	0.9139	2141.81	2310.4	8.032
699.5	693.7	6.552	30.2346	214.6	r	25.24	1.764	13.8	1.6469	0.8720	2153.62	2304.2	7.976
800.5	793.7	5.147	30.8090	220.1	r	28.33	1.941	19.3	1.3491	0.7176	2162.43	2305.1	7.947
1001.0	992.0	3.691	31.9113	207.7	r	32.04	2.194	34.7	0.5872	0.3344	2194.42	2315.8	7.899
1200.0	1188.6	3.156	32.9761	190.5	r	33.09	2.275	47.8	0.1682	0.1056	2217.16	2330.3	7.870
1399.8	1385.9	3.278	34.0220	191.5	r	30.61	2.081	44.8	0.0205	0.0137	2214.45	2336.7	7.897
1599.5	1582.9	3.369	34.792	208.3	r	26.72	1.818	38.2	0.0190	0.0215	2200.35	2337.8	7.937
1799.0	1779.5	3.059	35.9875	219.8	r	25.22	1.724	39.8	0.0132	0.0117	2196.90	2342.2	7.953
1999.8	1977.1	3.112	36.9312	236.0	r	22.51	1.537	32.0	0.0147	0.0156	2181.88	2337.9	7.984
2199.5	2173.6	3.016	37.8526	243.8	r	21.52	1.454	29.8	0.0134	0.0156	2176.89	2336.5	7.997
2398.9	2369.5	2.893	38.7617	247.0	r	21.19	1.436	30.0	0.0086	0.0147	2175.27	2340.1	8.005
2599.5	2566.5	2.783	39.6695	250.2	r	20.82	1.406	29.9			2174.16	2341.4	8.010
2800.0	2763.1	2.698	40.5678	251.3	r	20.64	1.397	30.5	0.0097	0.0088	2174.47	2340.7	8.009
3000.0	2959.1	2.563	41.4611	251.6	r	20.79	1.407	32.7	0.0080	0.0127	2176.21	2343.1	8.011
3299.3	3252.1	2.356	42.7958	254.3	r	20.76	1.405	35.4	0.0100	0.0117	2177.65	2344.8	8.011
3598.8	3544.9	2.030	44.1299	249.8	r	21.90	1.500	45.9	0.0111	0.0127	2187.38	2349.0	7.997
3799.4	3740.8	1.520	45.0504	242.0	r	24.60	1.704	65.2	0.0040	0.0059	2206.61	2359.2	7.970
3999.7	3936.2	1.111	45.9557	234.2	r	27.39	1.871	84.4	0.0071	0.0098	2223.90	2365.4	7.951
4199.8	4131.3	0.808	46.8474	228.6	r	29.23	1.994	97.4	0.0198	0.0108	2236.07	2372.2	7.924
4398.7	4325.0	0.246	47.7607	221.4	r	32.13	2.212	118.3	0.0794	0.0489	2254.65	2376.6	7.893
4598.9	4519.8	-0.111	48.6645	222.5	r	33.24	2.294	128.1	0.1191	0.0606	2260.37	2379.0	7.880
4707.2	4625.1	-0.130	49.1294	222.9	r	33.41	2.306	128.9	0.1291	0.0782	2260.92	2375.7	7.884

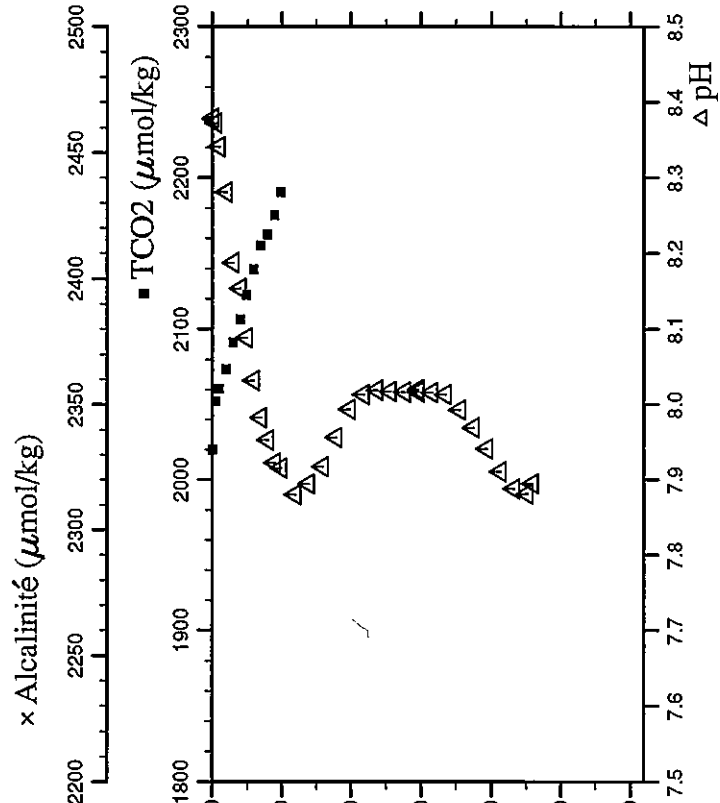
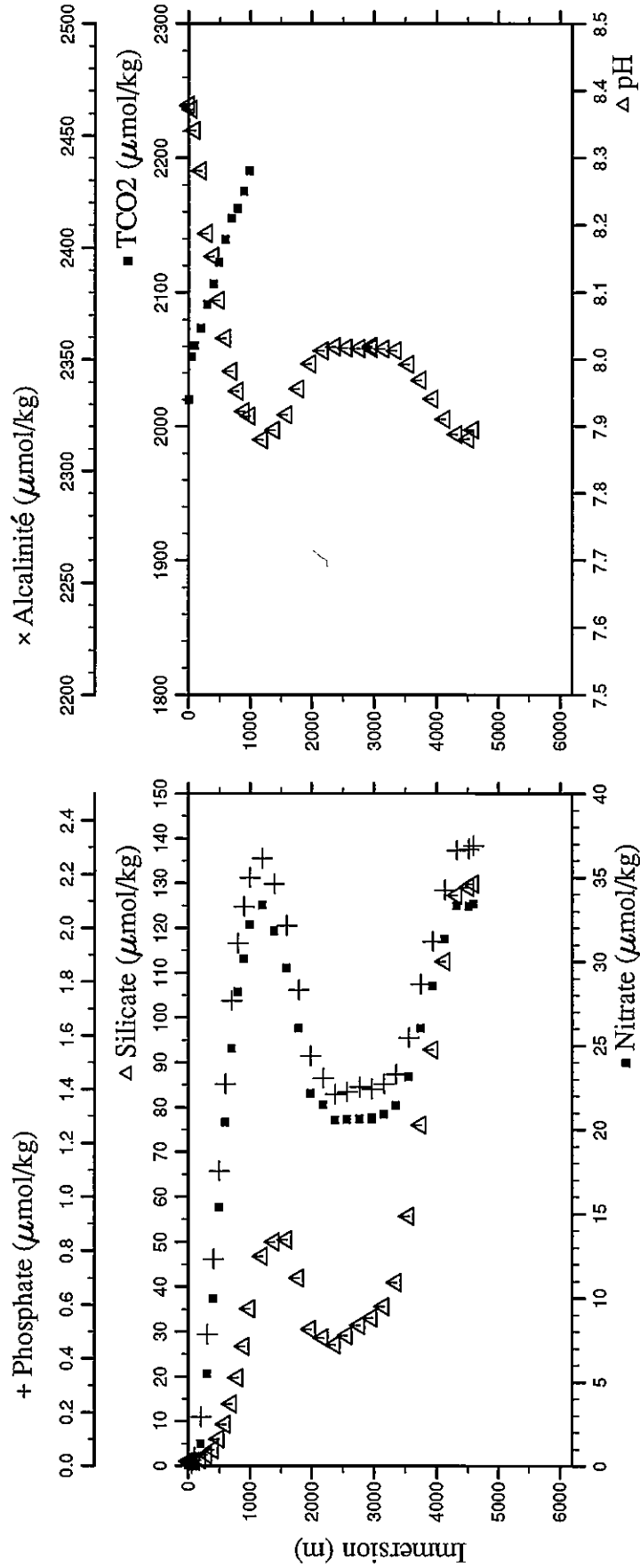
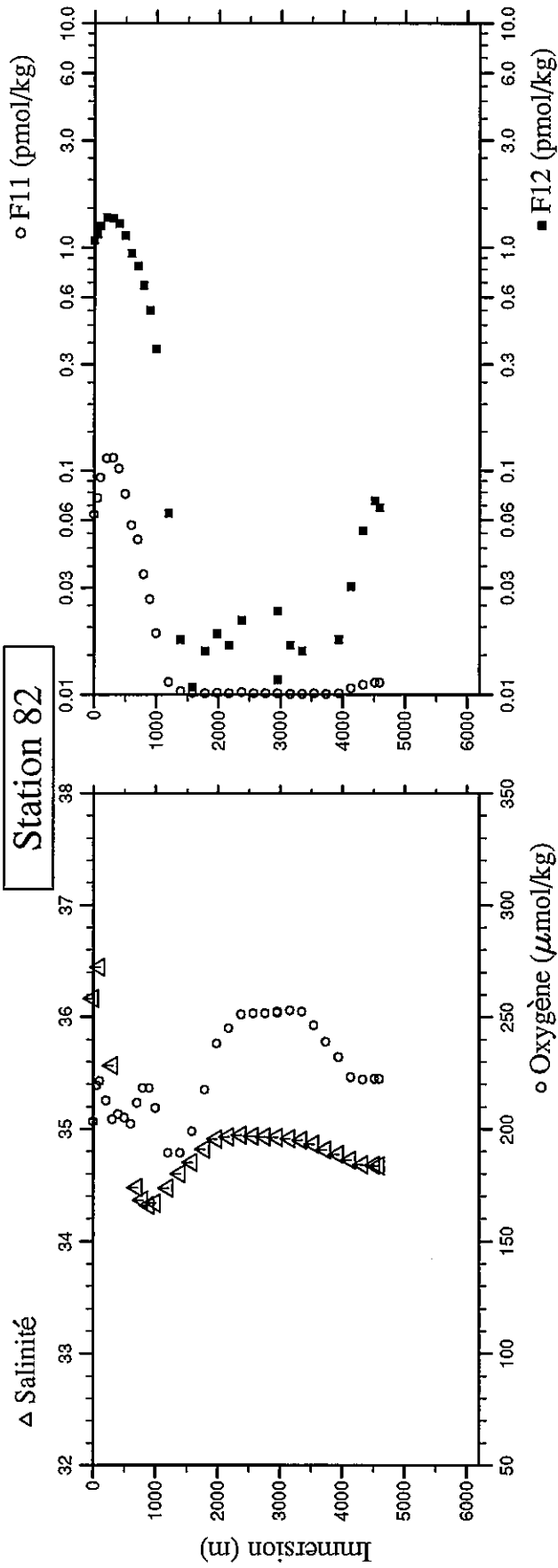
# Station 81



Station : 82 Campagne : CITHER 2  
 Date : 02-02-94 Heure : 7 h 52 mn  
 Position : S 26 58.46 W 36 16.06  
 Dernier niveau à : 4677  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
1.1	1.1	26.524	23.7479	36.164	203.2	0.04	0.014	1.1	1.8772	1.0750	2020.15		8.379
51.0	50.7	24.148	25.1506	36.730	219.5	0.04	0.008	1.1	2.0469	1.1467	2052.43		8.373
100.6	99.9	20.896	26.0572	36.448	221.3	0.04	0.032	1.1	2.2632	1.2465	2060.24		8.341
199.8	198.4	18.283	26.8362	35.992	212.8	1.31	0.183	1.3	2.4643	1.3641	2073.43		8.281
301.0	298.8	15.507	27.6135	35.564	204.3	5.48	0.490	2.4	2.4678	1.3431	2091.46		8.188
400.8	397.8	13.252	28.3204	35.278	206.5	9.96	0.769	3.6	2.3555	1.2730	2106.62		8.154
499.8	495.9	10.997	28.9694	34.911	205.1	15.40	1.096	6.0	2.0895	1.1267	2122.71		8.089
600.2	595.4	9.057	29.6006	34.717	202.2	20.43	1.420	9.3	1.7614	0.9422	2139.57		8.032
700.3	694.5	6.793	30.2214	34.476	211.6	24.83	1.730	13.9	1.6180	0.8270	2155.05		7.983
800.3	793.5	5.297	30.8001	34.367	218.2	28.19	1.943	19.7	1.2519	0.6795	2162.65		7.953
901.0	893.1	4.271	31.3617	34.321	218.3	30.18	2.079	26.7	0.9899	0.5250	2175.23		7.923
1000.9	991.9	3.698	31.9071	34.341	209.5	32.19	2.188	35.1	0.6385	0.3529	2190.44		7.916
1202.0	1190.7	3.263	32.9814	34.471	189.4	33.34	2.260	46.8	0.1347	0.0645			7.880
1400.0	1386.1	3.096	34.0001	34.602	189.4	31.82	2.164	50.0	0.0362	0.0176			7.895
1600.4	1583.8	2.941	35.0127	34.702	198.9	29.62	2.010	50.5	0.0185	0.0108			7.918
1801.3	1781.8	3.053	35.9860	34.818	217.5	26.05	1.769	42.0	0.0146	0.0156			7.957
1999.9	1977.3	3.203	36.9259	34.909	238.2	22.16	1.524	30.5	0.0179	0.0186			7.994
2199.7	2173.8	3.102	37.8458	34.929	245.0	21.50	1.441	28.6	0.0147	0.0166			8.013
2399.1	2369.8	2.998	38.7584	34.944	251.2	20.57	1.382	27.1	0.0246	0.0215			8.019
2599.9	2566.9	2.824	39.6700	34.937	251.5	20.62	1.390	29.2	0.0140	0.0088			8.018
2800.2	2763.4	2.673	40.5709	34.929	251.5	20.65	1.409	31.5	0.0131	0.0090			8.017
2998.3	2957.5	2.539	41.4574	34.924	251.8	20.70	1.401	33.1	0.0112	0.0235			8.020
2998.6	2957.8	2.538	41.4587	34.925	252.4	20.66	1.401	33.1	0.0139	0.0117			8.017
3199.1	3154.2	2.393	42.3527	34.914	252.8	20.91	1.420	35.7	0.0100	0.0166			8.016
3399.1	3349.8	2.181	43.2487	34.898	252.3	21.46	1.456	41.0	0.0084	0.0156			8.013
3599.5	3545.7	1.785	44.1607	34.864	246.2	23.15	1.592	55.7	0.0141	0.0039			7.993
3799.9	3741.4	1.307	45.0735	34.812	238.8	26.02	1.791	76.1	0.0100	0.0088			7.969
3999.3	3935.9	0.931	45.9701	34.771	232.0	28.55	1.949	92.8	0.0152	0.0176			7.941
4199.2	4130.8	0.457	46.8772	34.723	223.1	31.34	2.141	112.6	0.0659	0.0303			7.911
4398.2	4324.6	-0.030	47.7907	34.681	223.1	33.33	2.288	127.3	0.1042	0.0538			7.888
4598.7	4519.7	-0.111	48.6627	34.678	222.4	33.28	2.293	129.1	0.1262	0.0733			7.881
4673.1	4592.1	-0.124	48.9828	34.674	222.4	33.44	2.305	129.8	0.1266	0.0684			7.895

### Station 82

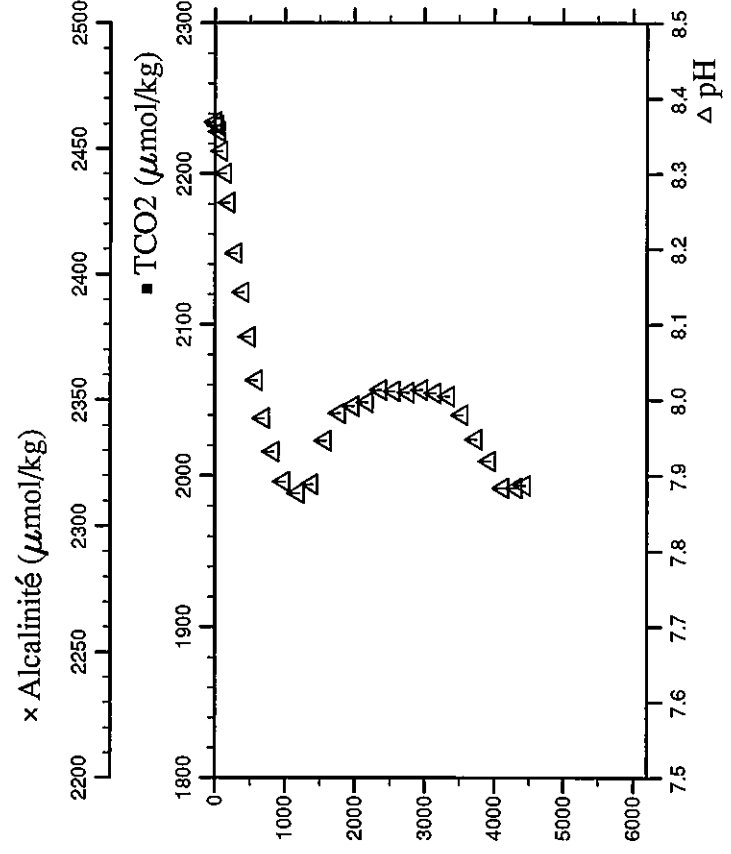
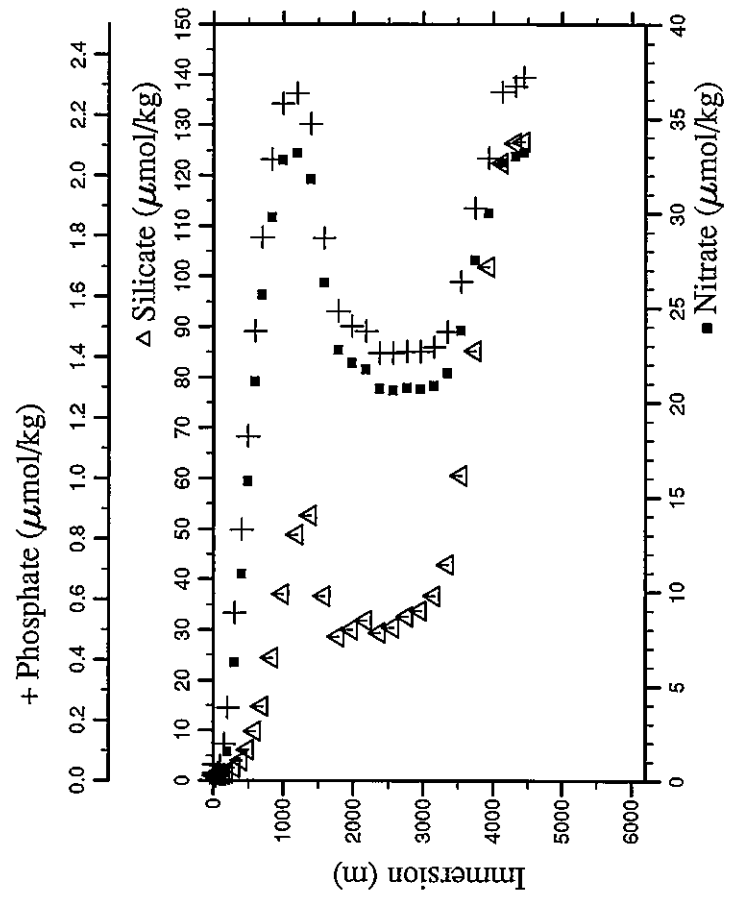
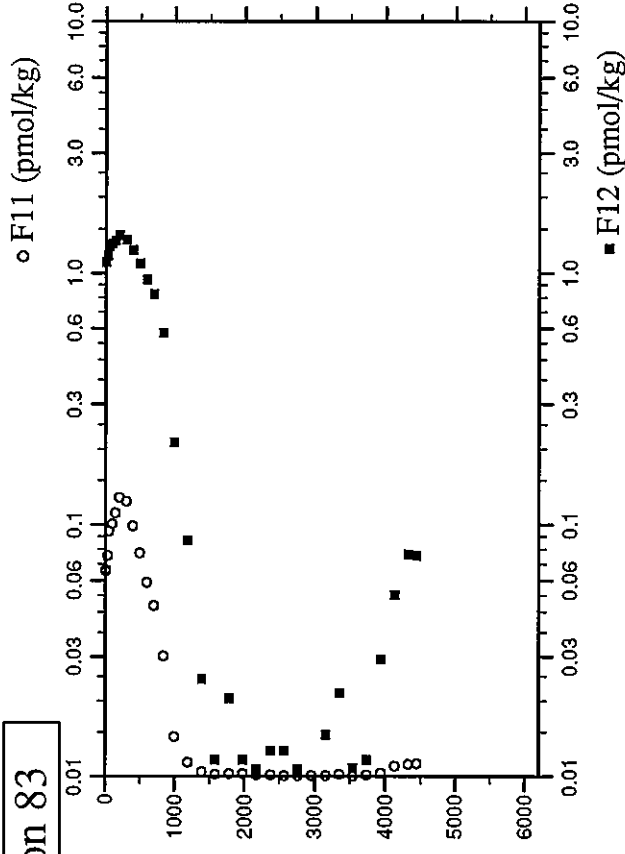
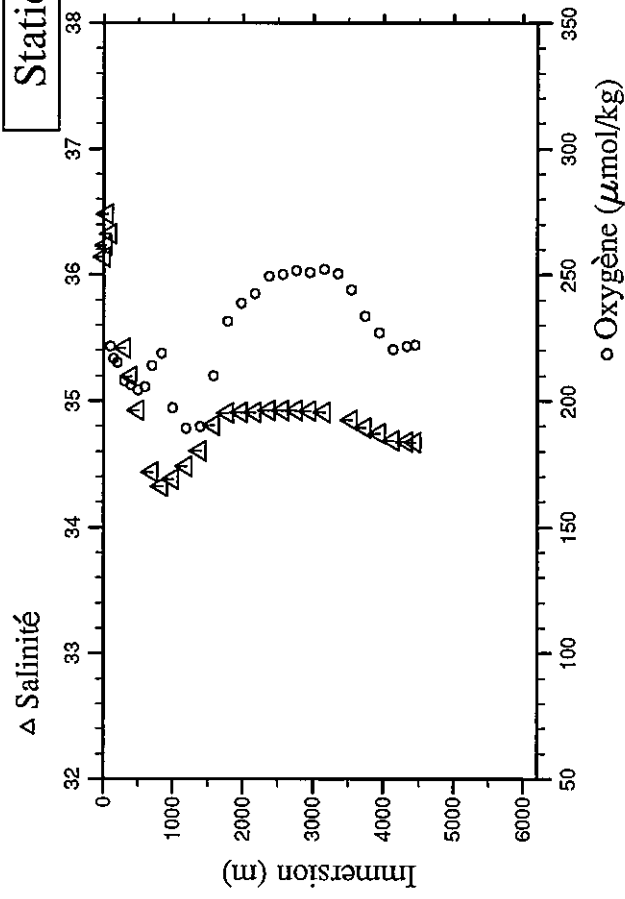


Station : 83 Campagne : CITHER 2  
 Date : 02-02-94 Heure : 13 h 55 mn  
 Position : S 26 34.57 W 35 55.66  
 Dernier niveau à : 4529  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.6	7.6	26.797	23.6812	36.139	r 205.2	r 0.04	0.053	1.1	1.9041	1.1033			8.369
8.1	8.0	26.757	23.6848	36.139	205.1	r 0.04	0.026	1.1	1.9180	1.1053			8.369
31.0	30.8	24.782	24.4727	36.235	215.9	r 0.04	0.014	1.1	2.0491	1.1696			8.365
55.9	55.5	22.023	25.5798	36.482	231.6	r 0.04	0.026	1.1	2.2762	1.2729			8.357
100.7	100.0	20.367	26.1091	36.322	221.7	r 0.04	0.050	1.1	2.3401	1.3042			8.330
150.1	149.1	19.071	26.5043	36.094	r 216.9	0.55	0.122	1.2	2.4427	1.3425			8.301
200.4	199.0	17.489	26.9081	35.816	r 215.3	1.56	0.243	1.5	2.5832	1.4063			8.262
299.9	297.7	14.752	27.6710	35.421	207.8	6.26	0.555	2.6	2.5478	1.3569			8.195
401.1	398.1	12.829	28.3575	35.196	206.3	10.96	0.832	4.0	2.3231	1.2360			8.143
499.7	495.8	10.823	28.9835	34.925	204.3	15.86	1.138	6.2	2.0733	1.0906			8.084
600.9	596.1	8.577	29.6369	34.659	r 205.7	21.11	1.485	9.8	1.7984	0.9403			8.026
700.7	694.9	6.397	30.2534	34.439	213.9	25.69	1.795	14.8	1.5860	0.8222			7.976
840.8	833.6	4.462	31.0639	34.324	218.9	29.80	2.053	24.5	1.1148	0.5759			7.932
1001.0	992.1	3.735	31.9340	34.380	197.3	32.80	2.239	37.1	0.3695	0.2121			7.892
1200.5	1189.2	3.136	32.9973	34.482	189.0	33.17	2.272	48.9	0.1305	0.0870			7.877
1400.0	1386.2	2.939	34.0270	34.606	189.9	31.81	2.170	52.7	0.0443	0.0244			7.889
1599.8	1583.3	3.449	35.0221	34.809	209.8	26.34	1.793	36.6	0.0215	0.0117			7.946
1799.9	1780.4	3.447	35.9926	34.904	231.6	22.78	1.551	28.6	0.0258	0.0205			7.983
2000.0	1977.5	3.168	36.9334	34.909	238.7	22.10	1.502	30.1	0.0237	0.0117			7.992
2199.3	2173.5	2.974	37.8518	34.909	242.4	21.76	1.486	31.8	0.0161	0.0107			7.997
2399.9	2370.6	2.890	38.7687	34.927	249.4	20.74	1.415	29.4	0.0150	0.0127			8.013
2599.6	2566.7	2.758	39.6721	34.927	250.0	20.66	1.415	30.4	0.0105	0.0127			8.012
2799.7	2763.0	2.613	40.5729	34.924	251.5	20.79	1.419	32.6	0.0079	0.0107			8.010
2999.2	2958.5	2.493	41.4664	34.920	250.8	20.71	1.418	33.7	0.0077	0.0098			8.013
3198.8	3154.0	2.327	42.3590	34.910	252.2	20.88	1.434	36.7	0.0065	0.0147			8.009
3398.9	3349.7	2.101	43.2544	34.899	r 250.3	21.56	1.483	42.9	0.0184	0.0215			8.005
3598.5	3544.8	1.656	44.1653	34.847	244.1	23.80	1.650	60.5	0.0041	0.0108			7.980
3798.7	3740.3	1.098	45.0849	34.786	233.5	27.52	1.893	85.2	0.0162	0.0117			7.948
3998.5	3935.3	0.679	45.9878	34.743	226.9	29.99	2.058	101.9	0.0315	0.0293			7.919
4198.9	4130.6	0.100	46.9122	34.687	220.4	32.68	2.276	122.5	0.0986	0.0528			7.884
4398.5	4325.0	-0.070	47.7961	34.677	221.6	33.00	2.296	126.4	0.1142	0.0762			7.884
4520.2	4443.5	-0.105	48.3232	34.673	222.1	33.22	2.326	126.6	0.1203	0.0753			7.887



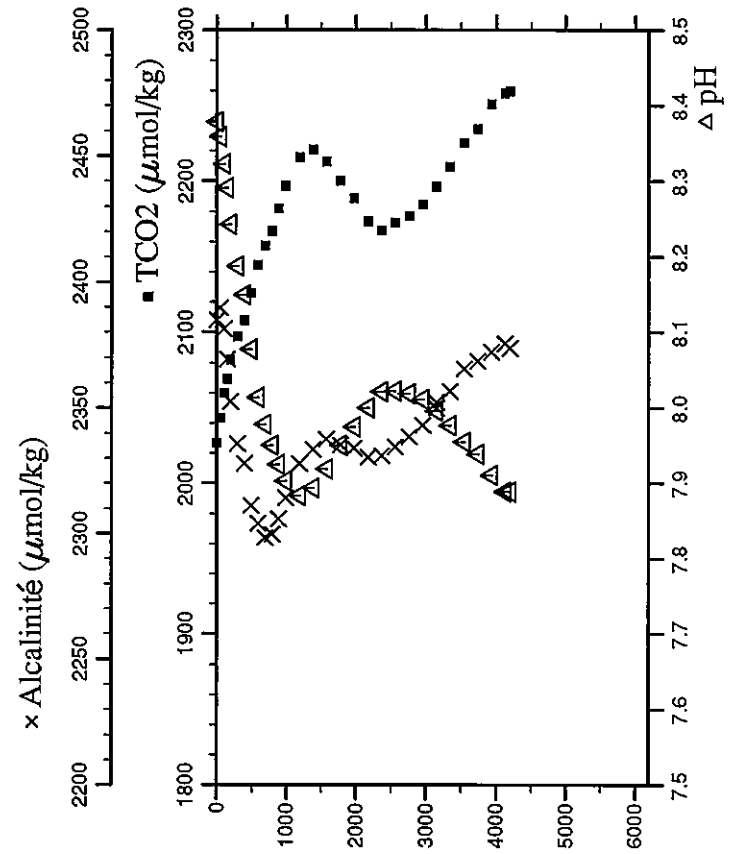
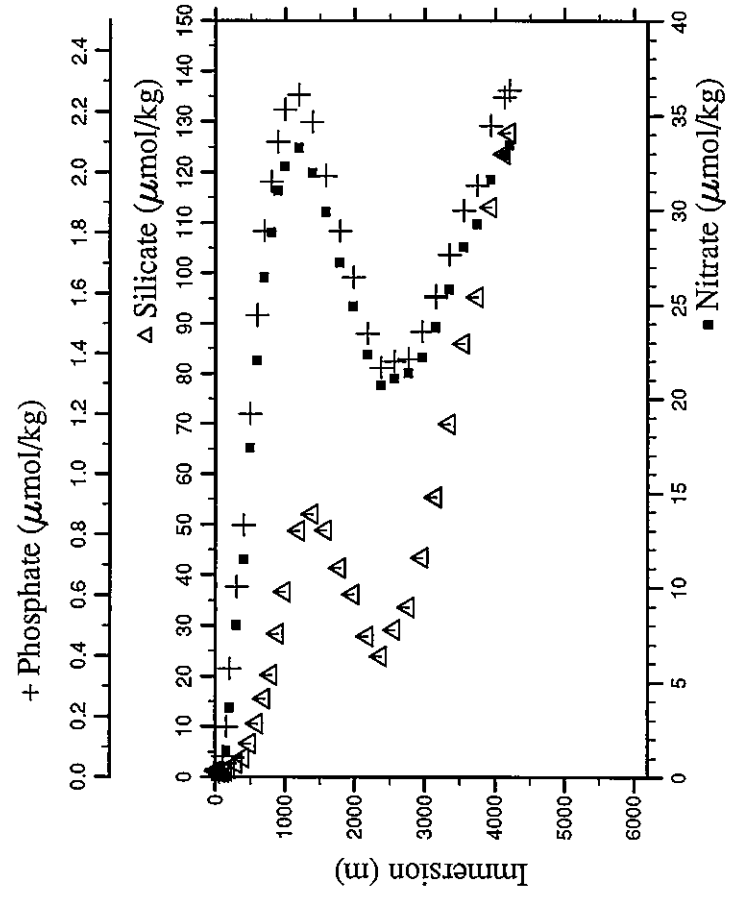
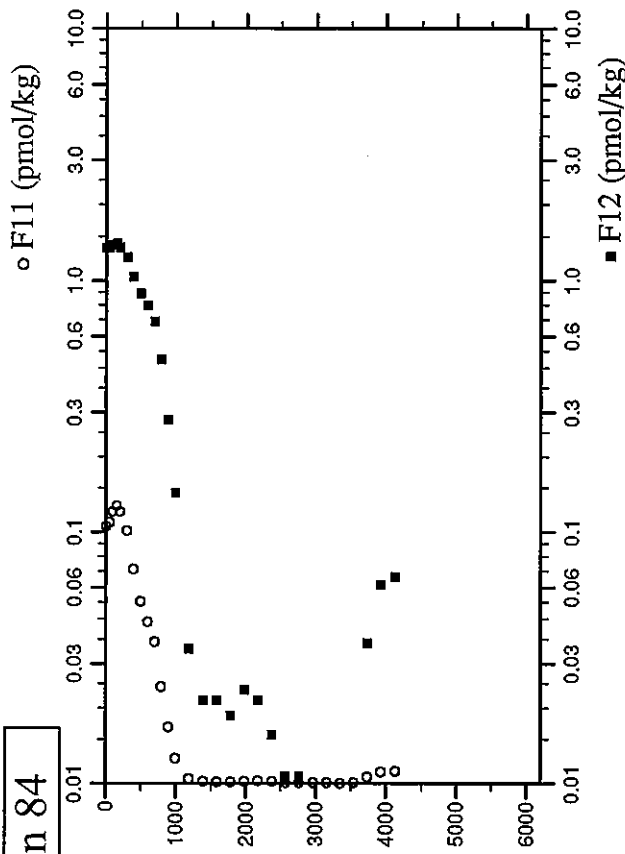
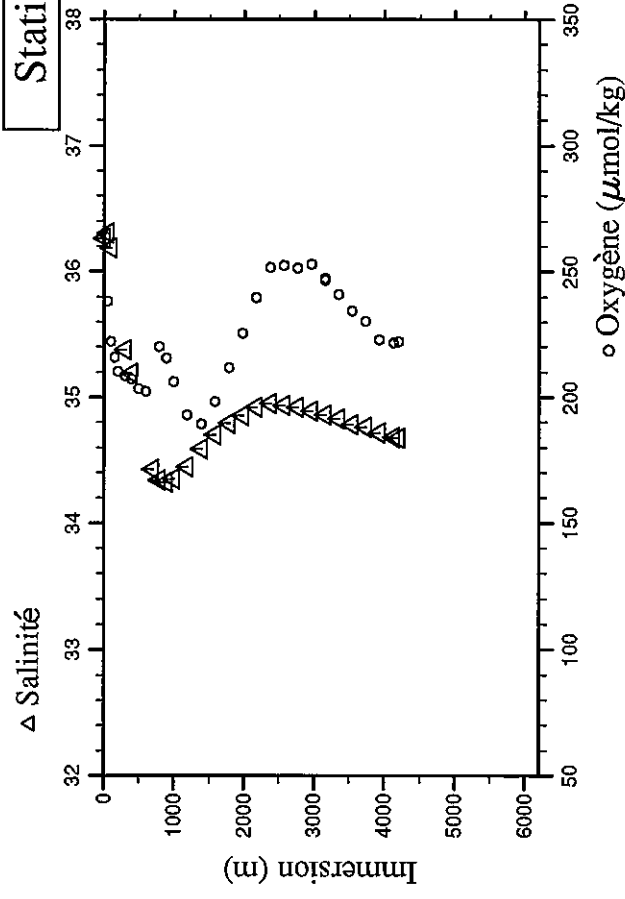
# Station 83



Station : 84 Campagne : CITHER 2  
 Date : 02-02-94 Heure : 19 h 49 mn  
 Position : S 26 11.23 W 35 34.25  
 Dernier niveau à : 4283  
 Nb prélèvements : 31

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.7	5.7	27.243	23.6119	36.261	203.6	0.04	0.026	1.2	2.3867	1.3492	2026.66	2384.7	8.379
51.7	51.4	21.384	25.6060	36.306	238.2	0.04	0.014	1.0	2.4212	1.3521	2043.42	2389.6	8.359
101.6	100.9	19.312	26.2868	36.185	222.1	0.04	0.069	1.0	2.5225	1.3893	2059.97	2381.2	8.323
151.9	150.9	18.070	26.6516	35.975	215.7	1.39	0.165	1.2	2.5752	1.4022	2069.13	2369.2	8.291
201.0	199.6	16.339	27.0674	35.687	210.1	3.65	0.359	1.7	2.5243	1.3498	2082.05	2352.5	8.243
300.3	298.1	14.158	27.7656	35.376	208.4	8.03	0.627	2.7	2.3473	1.2397	2096.99	2335.8	8.188
400.5	397.5	12.705	28.3752	35.188	207.1	11.48	0.832	3.8	1.9895	1.0327	2107.70	2327.7	8.150
500.1	496.2	10.405	29.0224	34.869	203.4	17.40	1.199	6.7	1.6839	0.8903	2126.08	2311.1	8.078
600.7	595.9	8.365	29.6541	34.634	202.3	22.05	1.529	10.6	1.4980	0.7966	2144.66	2303.9	8.014
701.4	695.7	6.203	30.2783	34.428	213.7	26.44	1.806	15.5	1.3143	0.6863	2157.29	2298.3	7.979
799.1	792.4	4.973	30.8188	34.339	220.1	28.81	1.970	20.3	0.8950	0.4869	2167.08	2299.6	7.951
900.3	892.5	4.111	31.3815	34.324	215.4	31.03	2.101	28.4	0.5221	0.2796	2182.09	2305.7	7.925
1000.0	991.1	3.551	31.9303	34.353	206.1	32.32	2.207	36.6	0.2319	0.1427	2196.81	2314.2	7.903
1200.6	1189.3	3.065	32.9822	34.447	193.0	33.30	2.255	48.7	0.0436	0.0342	2215.97	2327.8	7.884
1399.9	1386.1	2.970	34.0100	34.589	189.3	31.97	2.167	52.1	0.0219	0.0215	2221.09	2333.5	7.894
1599.9	1583.4	2.991	35.0001	34.701	198.2	29.90	1.989	48.9	0.0129	0.0215	2213.01	2337.6	7.919
1799.9	1780.5	3.134	35.9542	34.795	211.7	27.23	1.807	41.4	0.0126	0.0186	2200.21	2335.1	7.951
1999.7	1977.2	3.154	36.8937	34.856	225.3	24.90	1.654	36.1	0.0204	0.0235	2188.86	2333.9	7.975
2200.2	2174.4	3.279	37.8163	34.920	239.7	22.33	1.466	27.9	0.0253	0.0215	2173.28	2330.4	8.001
2400.2	2371.0	3.152	38.7467	34.952	251.5	20.70	1.352	24.0	0.0171	0.0156	2167.32	2330.8	8.022
2599.3	2566.5	2.770	39.6740	34.936	252.3	21.10	1.374	29.1	0.0083	0.0107	2172.45	2334.5	8.023
2799.5	2762.9	2.467	40.5925	34.921	251.3	21.34	1.383	33.6	0.0064	0.0107	2177.00	2338.6	8.012
3199.1	3154.3	2.083	41.5117	34.892	252.9	22.21	1.473	43.4	0.0053	0.0049	2184.32	2343.2	8.012
3199.2	3154.4	1.772	42.4129	34.859	247.2	23.77	1.592	55.3	0.0055	0.0068	2196.55	2352.2	7.996
3398.8	3349.7	1.428	42.4133	34.858	246.4	23.82	1.585	55.5	0.0065	0.0078	2209.67	2349.9	7.996
3599.3	3545.7	1.074	43.3164	34.827	241.0	25.80	1.727	70.0	0.0048	0.0039	2259.67	2356.6	7.977
3798.5	3740.2	0.855	44.2216	34.785	234.3	28.02	1.874	86.0	0.0101	0.0088	2225.28	2365.4	7.955
3998.0	3934.9	0.416	45.1061	34.764	230.3	29.26	1.957	95.2	0.0594	0.0362	2234.27	2368.6	7.939
4198.9	4130.7	-0.014	46.0113	34.716	223.0	31.63	2.153	113.1	0.1079	0.0616	2251.19	2372.0	7.911
4278.4	4208.2	-0.084	46.9270	34.684	221.6	32.91	2.247	123.6	0.1128	0.0665	2258.35	2375.4	7.889
			47.2797	34.676	222.1	33.41	2.270	127.8			2259.29	2373.6	7.889

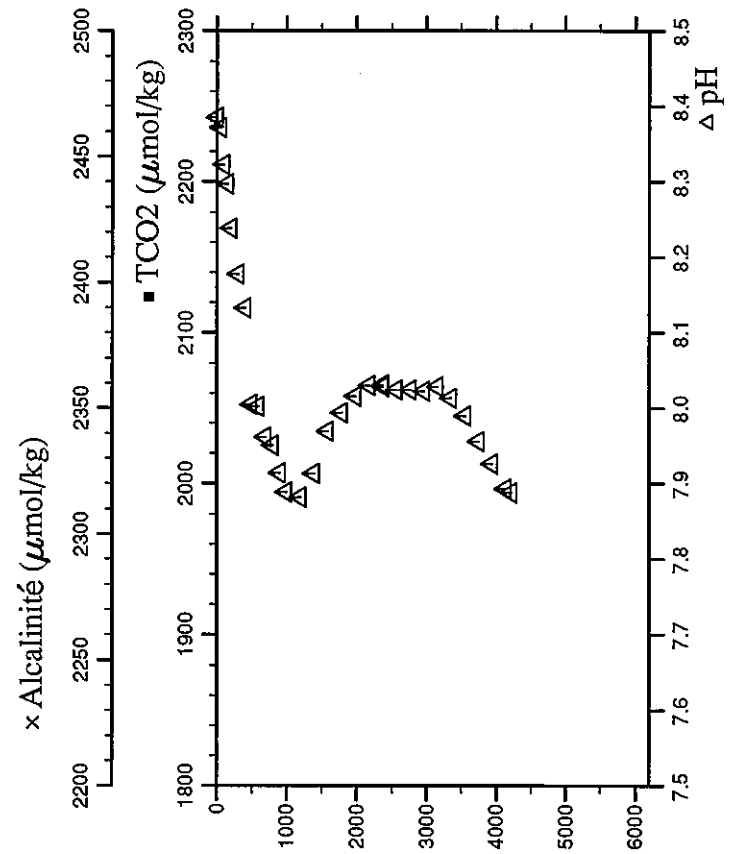
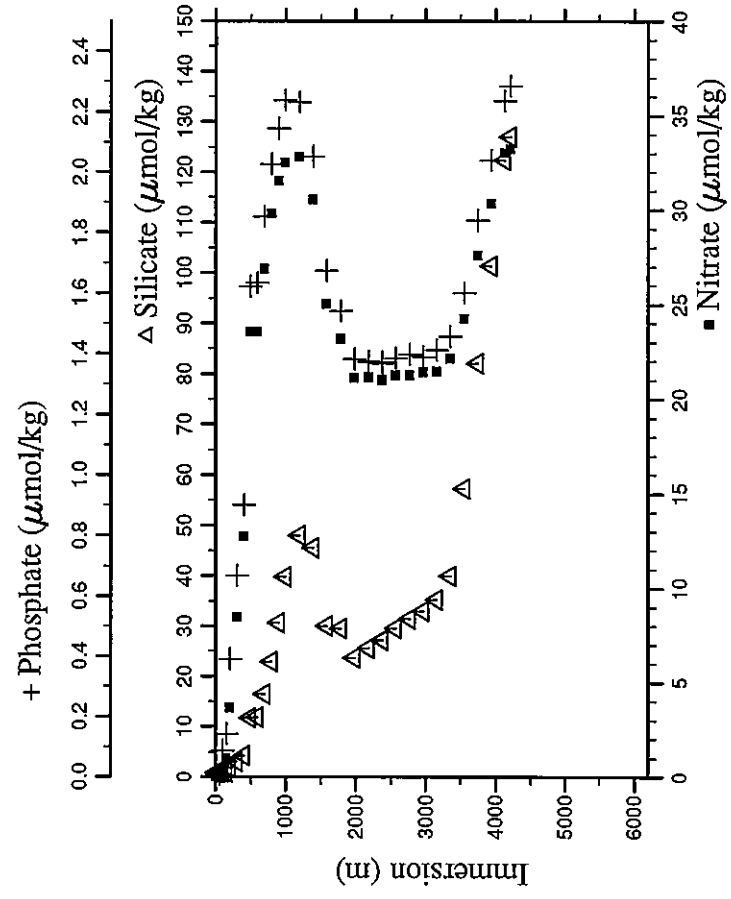
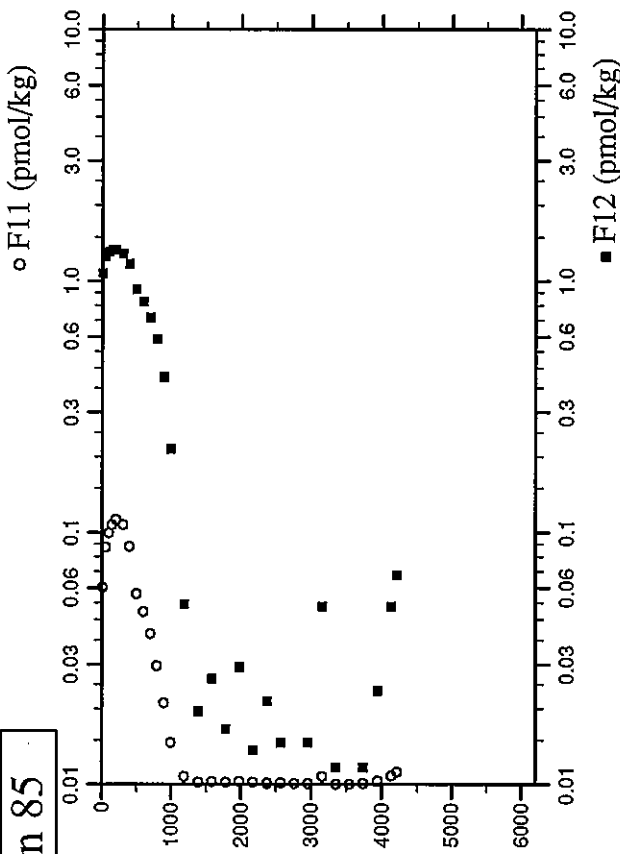
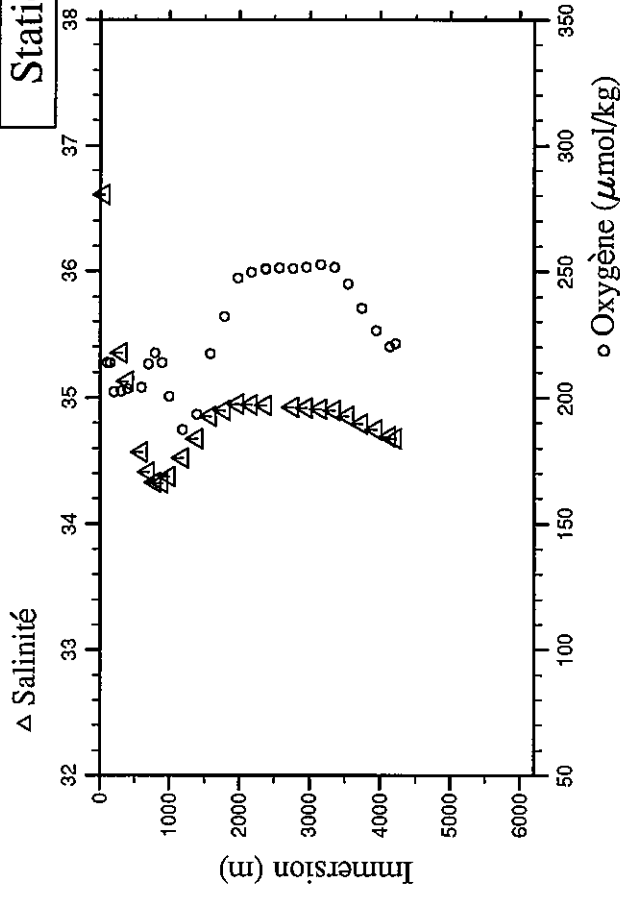
# Station 84



Station : 85 Campagne : CITHER 2  
 Date : 03-02-94 Heure : 1 h 26 mn  
 Position : S 25 47.77 W 35 14.02  
 Dernier niveau à : 4288  
 Nb prélèvements : 31

PRÉSSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
3.8	3.8	27.698	23.5818	36.431	200.6	0.04	0.011	0.8	1.8217	1.0679			8.385
49.9	49.6	23.017	25.3591	36.608	228.0	0.04	0.008	0.8	2.1969	1.2522			8.372
100.7	100.0	20.124	26.1729	36.317	213.8	0.20	0.087	0.9	2.3292	1.3072			8.323
150.4	149.4	18.818	26.5655	36.097	213.6	0.99	0.142	0.9	2.4037	1.3279			8.297
200.2	198.8	16.888	26.9875	35.757	202.4	3.66	0.390	1.8	2.4503	1.3263			8.239
301.0	298.8	14.242	27.7352	35.352	202.6	8.46	0.668	3.1	2.4024	1.2827			8.178
400.6	397.6	12.374	28.3909	35.127	203.6	12.76	0.901	4.3	2.2038	1.1686			8.133
500.6	496.6	10.030	29.0546	34.571	196.6	23.57	1.621	11.7	1.7626	0.9275			8.005
601.0	596.2	7.691	29.7021	34.570	204.0	23.57	1.635	11.9	1.5955	0.8260			8.002
700.1	694.4	5.957	30.2892	34.412	213.3	26.89	1.853	16.4	1.3951	0.7156			7.962
800.1	793.4	4.680	30.8562	34.331	217.6	29.81	2.026	22.9	1.0981	0.5876			7.951
900.8	893.0	3.871	31.4136	34.325	213.6	31.54	2.145	30.7	0.7562	0.4145			7.914
1000.4	991.5	3.414	31.9679	34.379	200.4	32.52	2.238	39.9	0.3901	0.2141			7.889
1201.4	1190.2	3.168	33.0290	34.523	187.2	32.82	2.232	48.0	0.0758	0.0518			7.882
1399.6	1385.9	3.207	34.0434	34.679	193.3	30.55	2.052	45.6	0.0192	0.0195			7.913
1600.1	1583.6	3.648	35.0353	34.856	217.3	25.01	2.026	30.0	0.0249	0.0264			7.969
1799.4	1780.1	3.360	35.9988	34.902	232.0	23.17	1.542	29.6	0.0194	0.0166			7.994
2000.7	1978.3	3.315	36.9437	34.951	247.3	21.11	1.383	23.7	0.0239	0.0293			8.016
2199.5	2173.8	3.094	37.8584	34.944	249.5	21.15	1.373	25.6	0.0181	0.0137			8.030
2399.8	2370.7	2.915	38.7737	34.941	250.9	20.99	1.371	27.1	0.0107	0.0088			8.031
2400.2	2371.1	2.914	38.7763	34.940	251.1	21.03	1.368	27.2	0.0127	0.0215			8.029
2600.3	2567.5	2.753	39.6798	34.924	251.3	21.26	1.385	29.5	0.0142	0.0147			8.024
2800.8	2764.2	2.619	40.5790	34.928	251.0	21.26	1.398	31.5	0.0096	0.0088			8.024
2999.2	2958.7	2.498	41.4661	34.923	251.6	21.42	1.388	33.0	0.0104	0.0147			8.023
3199.4	3154.7	2.353	42.3513	34.912	252.6	21.46	1.411	35.3	0.0719	0.0508			8.029
3400.1	3351.1	2.175	43.2513	34.899	251.5	22.14	1.456	40.0	0.0024	0.0117			8.013
3599.6	3546.1	1.731	44.1621	34.856	245.1	24.22	1.601	57.2	0.0047	0.0078			7.990
3798.7	3740.5	1.158	45.0813	34.796	235.4	27.59	1.839	82.1	0.0071	0.0117			7.956
3998.7	3935.7	0.693	45.9871	34.749	226.4	30.35	2.038	101.4	0.0320	0.0235			7.926
4198.5	4130.5	0.128	46.9098	34.692	220.2	33.03	2.237	122.4	0.0807	0.0508			7.893
4386.8	4216.5	-0.058	47.3127	34.678	221.4	33.22	2.284	127.1	0.1154	0.0674			7.888

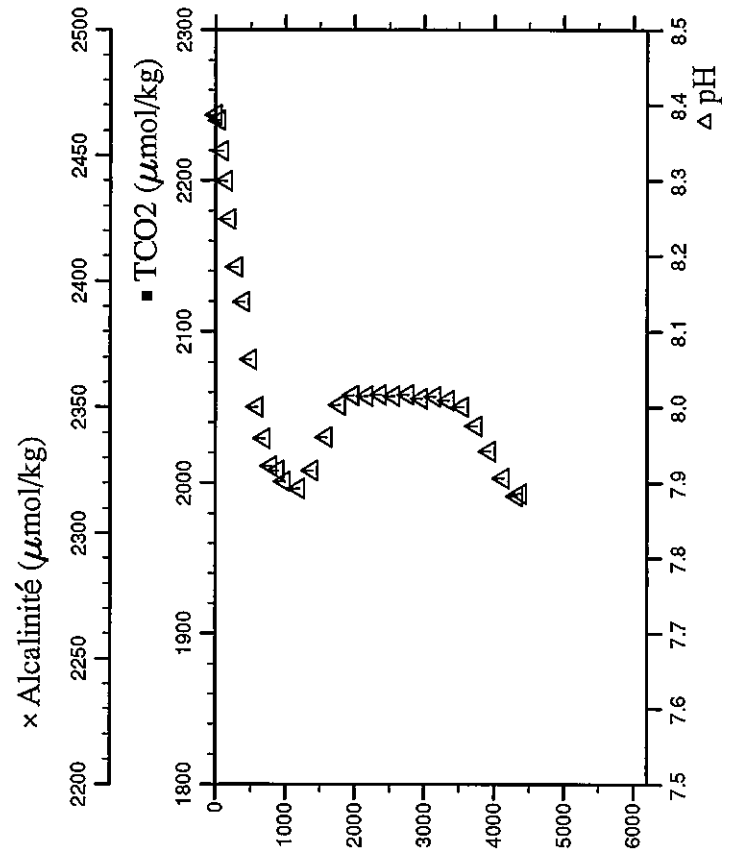
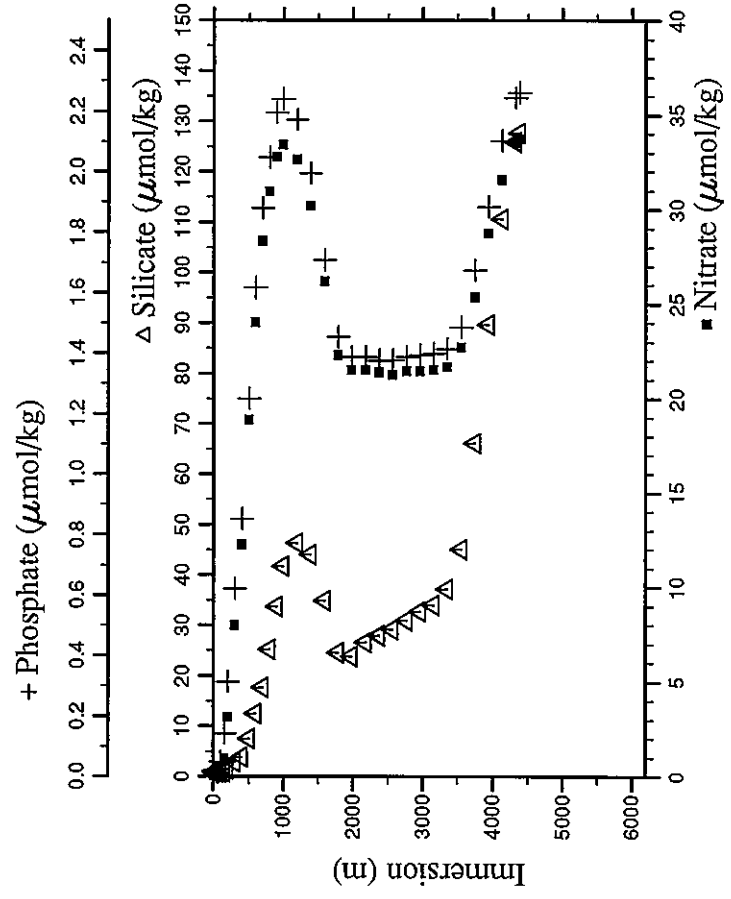
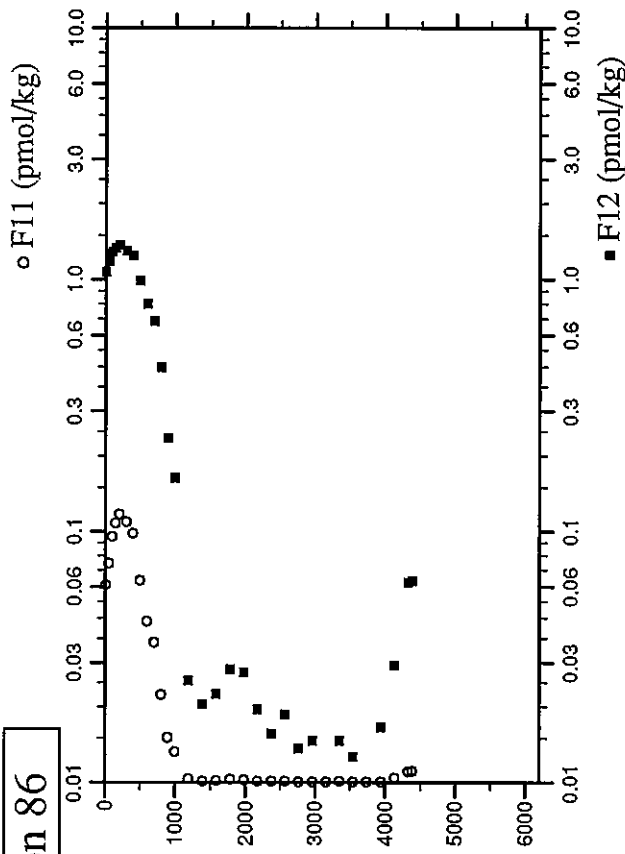
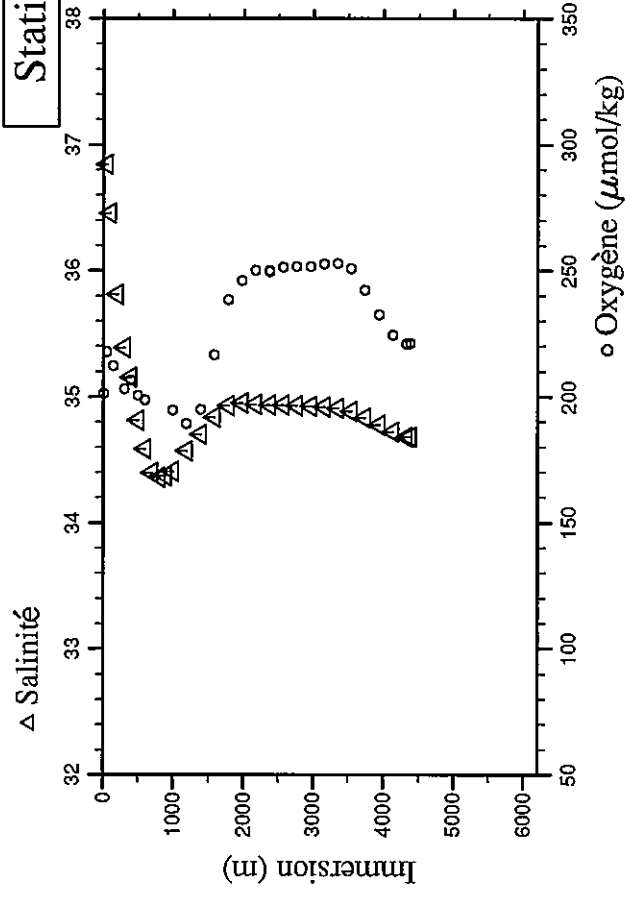
Station 85



Station : 86 Campagne : CITHER 2  
 Date : 03-02-94 Heure : 7 h 18 mn  
 Position : S 25 24.38 W 34 53.39  
 Dernier niveau à : 4458  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
2.7	2.7	27.458	23.7585	36.568 r	201.2	0.04	0.020	0.8	1.8334	1.0717			8.387
51.3	51.0	24.922	24.9751	36.841	217.7	0.04	0.011	0.8	2.0365	1.1749			8.380
101.5	100.8	20.873	26.0779	36.457 r	217.6	0.04	0.050	0.8	2.2851	1.2846			8.340
150.5	149.5	19.096	26.5129	36.126 r	212.1	0.95	0.143	0.9	2.4125	1.3318			8.300
201.0	199.6	17.290	26.9423	35.812 r	210.8	3.14	0.315	1.5	2.4941	1.3663			8.249
300.9	298.7	14.478	27.7074	35.388	203.1	7.99	0.621	2.8	2.4236	1.3003			8.185
400.7	397.7	12.487	28.3910	35.155	206.7	12.28	0.852	3.9	2.3127	1.2380			8.140
501.0	497.2	9.943	29.0634	34.816	200.5	18.88	1.250	7.6	1.8794	0.9891			8.063
600.5	595.8	7.822	29.6971	34.586	198.7	24.04	1.617	12.5	1.4988	0.8006			8.001
700.3	694.6	5.705	30.3158	34.398	211.1 r	28.33	1.881	17.7	1.3039	0.6824			7.959
801.3	794.6	4.695	30.8817	34.362	204.8 r	30.96	2.047	25.2	0.8164	0.4478			7.923
901.1	893.3	3.986	31.4381	34.371	197.0 r	32.78	2.195	33.7	0.4158	0.2356			7.917
1000.3	991.4	3.441	31.9851	34.405	194.6	33.43	2.240	41.8	0.2878	0.1633			7.902
1200.3	1189.1	3.284	33.0475	34.571	189.2	32.63	2.173	46.3	0.0349	0.0254			7.893
1400.4	1386.7	3.266	34.0585	34.700	195.0	30.21	1.994	44.0	0.0168	0.0205			7.917
1601.3	1584.9	3.412	35.0594	34.841	216.5	26.21	1.709	34.9	0.0187	0.0225			7.961
1801.0	1781.7	3.525	36.0085	34.933	238.4	22.31	1.454	24.6	0.0302	0.0283			8.003
1999.8	1977.4	3.336	36.9353	34.949	246.1	21.51	1.389	23.8	0.0246	0.0274			8.016
2199.7	2174.1	3.107	37.8530	34.939	250.0	21.51	1.389	26.6	0.0156	0.0195			8.015
2399.7	2370.6	2.941	38.7655	34.938	249.6	21.39	1.373	27.9	0.0117	0.0156			8.017
2400.3	2371.2	2.938	38.7690	34.936	250.0	21.43	1.379	28.0	0.0130	0.0156			8.017
2601.2	2568.5	2.812	39.6749	34.935	251.4	21.27	1.379	29.1	0.0158	0.0186			8.015
2799.1	2762.6	2.682	40.5632	34.930	251.5	21.47	1.389	31.0	0.0099	0.0137			8.017
2999.7	2959.3	2.570	41.4576	34.926	251.6	21.47	1.394	32.7	0.0074	0.0147			8.012
3199.8	3155.2	2.450	42.3495	34.919	252.6	21.51	1.399	34.0	0.0072	0.0088			8.014
3398.2	3349.3	2.286	43.2333	34.908	253.0	21.71	1.415	37.2	0.0117	0.0147			8.009
3598.8	3545.4	2.029	44.1327	34.886	250.8	22.70	1.487	45.1	0.0064	0.0127			8.001
3798.9	3740.8	1.523	45.0473	34.836	242.2	25.37	1.674	66.2	0.0090	0.0049			7.975
3998.6	3935.7	1.001	45.9613	34.778	232.6	28.73	1.885	89.7	0.0087	0.0166			7.942
4198.4	4130.5	0.481	46.8731	34.723	224.3	31.55	2.103	110.6	0.0442	0.0293			7.907
4398.4	4325.3	0.025	47.7839	34.683	220.9	33.53	2.244	125.9	0.1013	0.0626			7.883
4459.1	4380.5	-0.033	48.0337	34.680	221.0	33.73	2.261	127.7	0.1063	0.0635			7.886

# Station 86

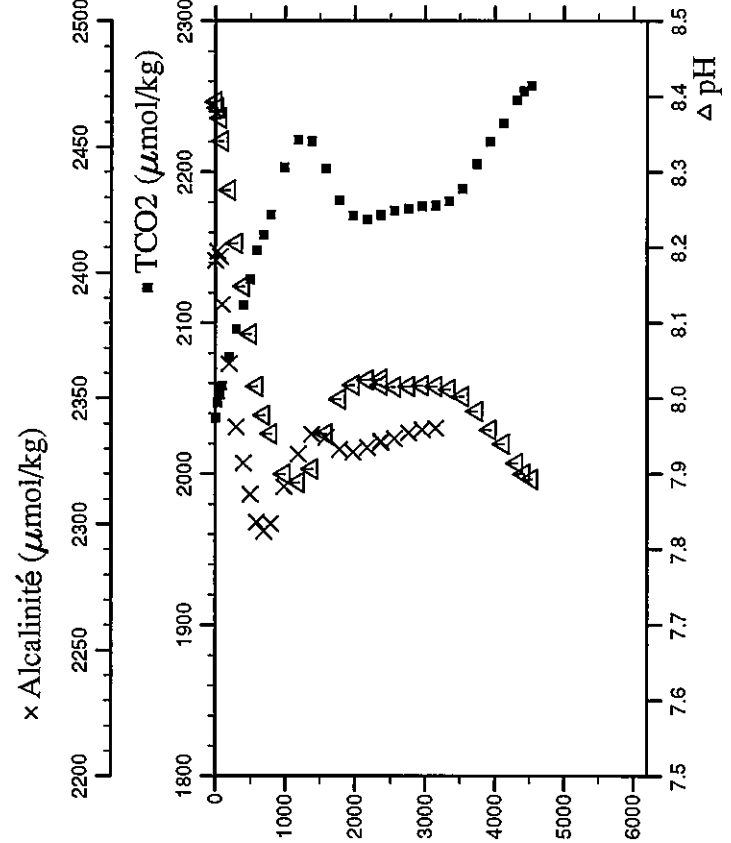
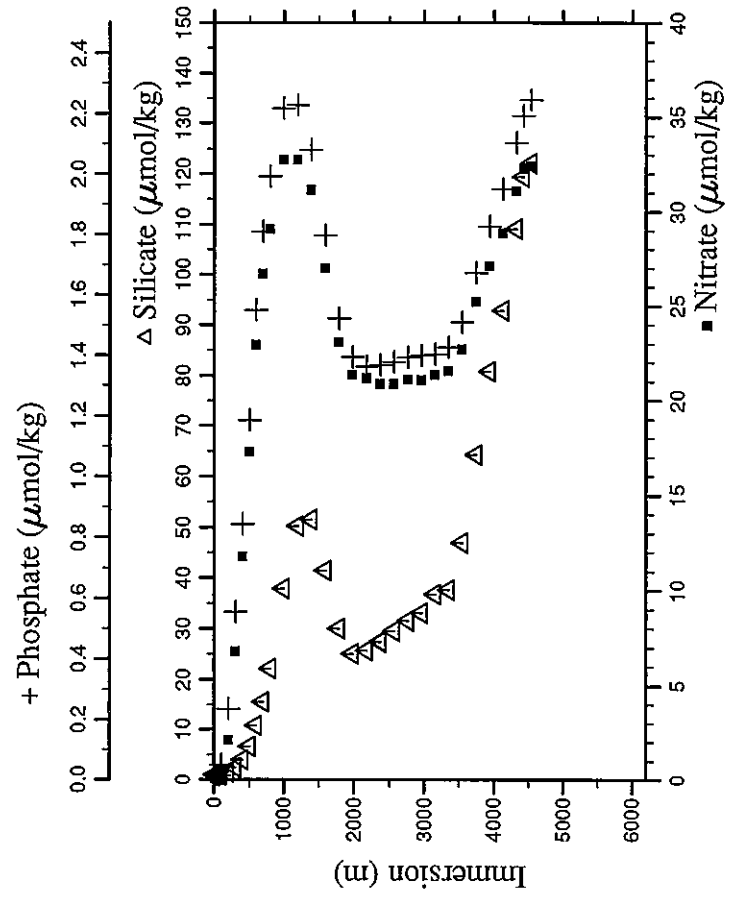
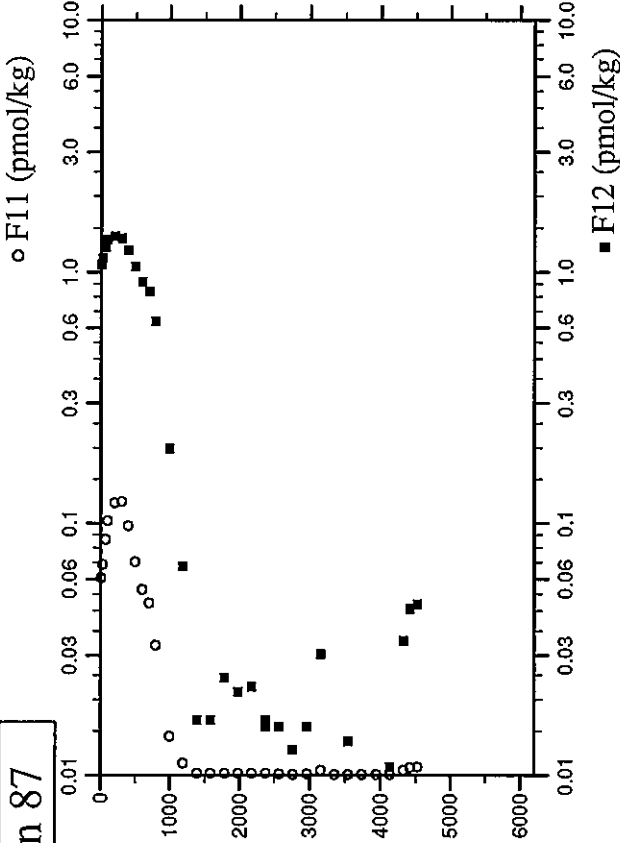
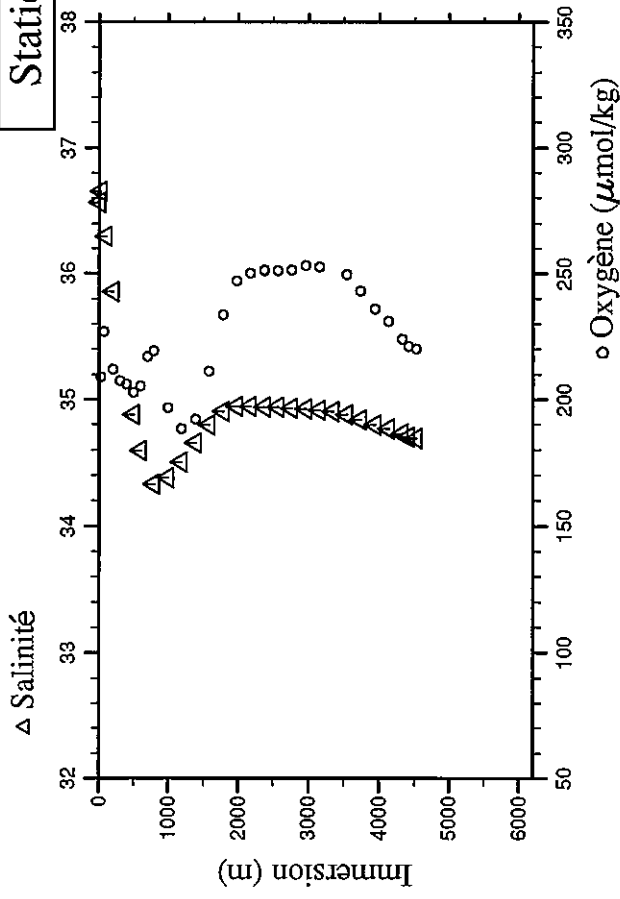


Station : 87 Campagne : CITHER 2  
 Date : 03-02-94 Heure : 13 h 2 mn  
 Position : S 25 1.07 W 34 32.75  
 Dernier niveau à : 461.1  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGÈNE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.3	7.3	27.901	23.6352	36.568	201.0	r	0.04	0.020	1.8316	1.0717	2037.04	2404.9	8.393
30.1	29.9	25.839	24.4633	36.655	208.8		0.04	0.014	1.9523	1.1361	2047.11	2408.4	8.385
70.1	69.6	23.318	25.3864	36.603	r	r	0.04	0.014	2.1834	1.2571	2052.25	2406.4	8.372
101.1	100.4	20.198	26.1367	36.298	224.3		0.04	0.050	2.3584	1.3423	2058.24	2387.2	8.341
200.2	198.8	17.434	26.9349	35.855	212.0		2.11	0.236	2.5211	1.3887	2077.46	2363.7	8.276
300.2	298.1	14.737	27.6952	35.441	r	r	6.80	0.555	2.5352	1.3598	2095.92	2338.5	8.206
400.5	397.5	12.580	28.3924	35.175	206.2		11.81	0.843	2.3105	1.2203	2112.17	2324.2	8.149
501.2	497.3	10.433	29.0248	34.881	r	r	17.30	1.185	1.9792	1.0506	2129.03	2311.9	8.085
601.2	596.5	8.022	29.6723	34.596	205.4		22.95	1.549	1.7231	0.9120	2148.04	2300.7	8.016
699.3	693.6	5.949	30.2757	34.407	r	r	26.71	1.811	1.5995	0.8378	2158.24	2297.1	7.978
799.3	792.6	4.745	30.8445	34.331	219.4		29.09	1.992	1.2033	0.6355	2171.83	2300.2	7.953
999.6	990.8	3.634	31.9417	34.384	196.8		32.74	2.216	0.3626	0.1985	2203.30	2314.8	7.900
1199.3	1188.2	3.070	33.0137	34.502	188.4		32.75	2.227	0.1133	0.0675	2221.28	2327.9	7.889
1398.3	1384.7	2.941	34.0559	34.655	192.0		31.16	2.079	0.0201	0.0166	2220.39	2335.6	7.907
1601.0	1584.6	3.124	35.0587	34.801	211.2		27.01	1.797	0.0176	0.0166	2202.27	2334.5	7.953
1800.6	1781.3	3.286	36.0196	34.904	233.6		23.07	1.522	0.0211	0.0244	2181.24	2329.5	7.999
1999.8	1977.5	3.231	36.9475	34.946	247.0		21.36	1.394	0.0215	0.0215	2170.87	2328.6	8.018
2199.2	2173.6	3.061	37.8642	34.947	250.1		21.20	1.363	0.0227	0.0225	2168.42	2330.4	8.024
2399.2	2370.2	2.897	38.7730	34.943	251.3		20.84	1.368	0.0170	0.0156	2171.17	2333.0	8.018
2399.6	2370.6	2.899	38.7745	34.941	251.0		20.88	1.368	0.0179	0.0166	2332.5	2332.5	8.025
2599.7	2567.1	2.758	39.6762	34.939	251.1		20.88	1.378	0.0125	0.0156	2174.27	2333.8	8.015
2800.5	2764.1	2.626	40.5774	34.929	251.3		21.12	1.392	0.0098	0.0127	2175.48	2336.1	8.016
2999.3	2958.9	2.511	41.4639	34.924	253.1		21.08	1.400	0.0117	0.0156	2177.23	2337.4	8.017
3197.7	3153.2	2.395	42.3469	34.917	252.7		21.36	1.403	0.0494	0.0303	2177.55	2337.4	8.016
3398.6	3349.8	2.247	43.2382	34.907	252.7		21.56	1.426	0.0073	0.0098	2180.79	2338.0	8.012
3598.4	3545.1	1.963	44.1350	34.881	249.5		22.71	1.510	0.0078	0.0137	2188.63	2338.0	8.002
3797.2	3739.3	1.542	45.0376	34.839	242.9		25.23	1.672	0.0059	0.0049	2205.20	2336.1	7.983
3998.2	3935.4	1.159	45.9455	34.799	235.9		27.11	1.827	0.0050	0.0059	2220.23	2337.4	7.958
4199.7	4131.9	0.877	46.8390	34.767	231.0		28.89	1.951	0.0108	0.0108	2232.53	2337.4	7.940
4399.3	4326.3	0.488	47.7377	34.727	224.0		31.07	2.103	0.0497	0.0342	2247.79	2337.4	7.914
4498.0	4422.4	0.206	48.1903	34.701	221.2		32.26	2.191	0.0721	0.0459	2253.65	2337.4	7.900
4610.4	4531.7	0.118	48.6831	34.691	220.2		32.41	2.245	0.0818	0.0479	2257.06	2337.4	7.893



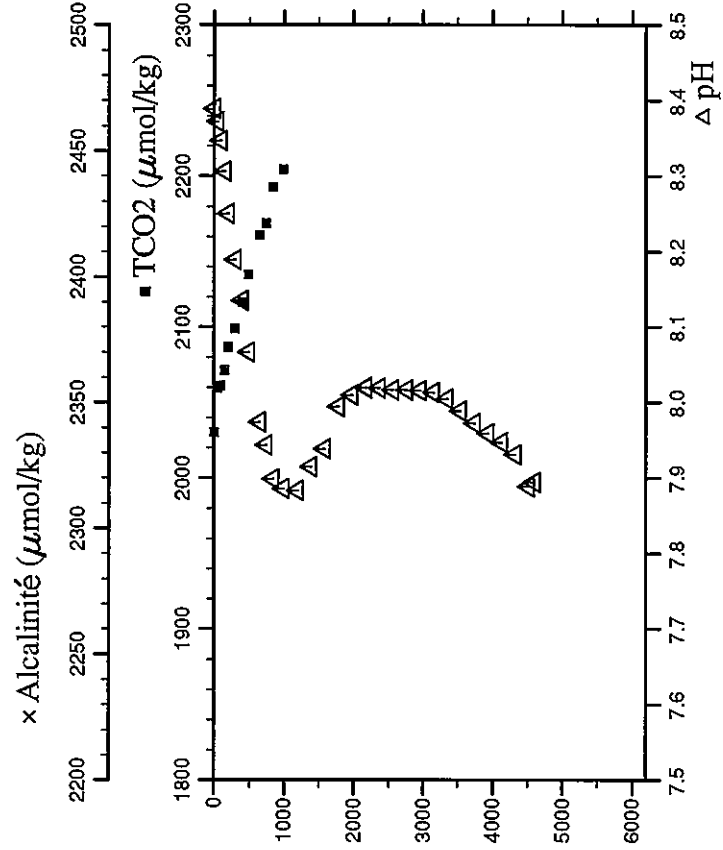
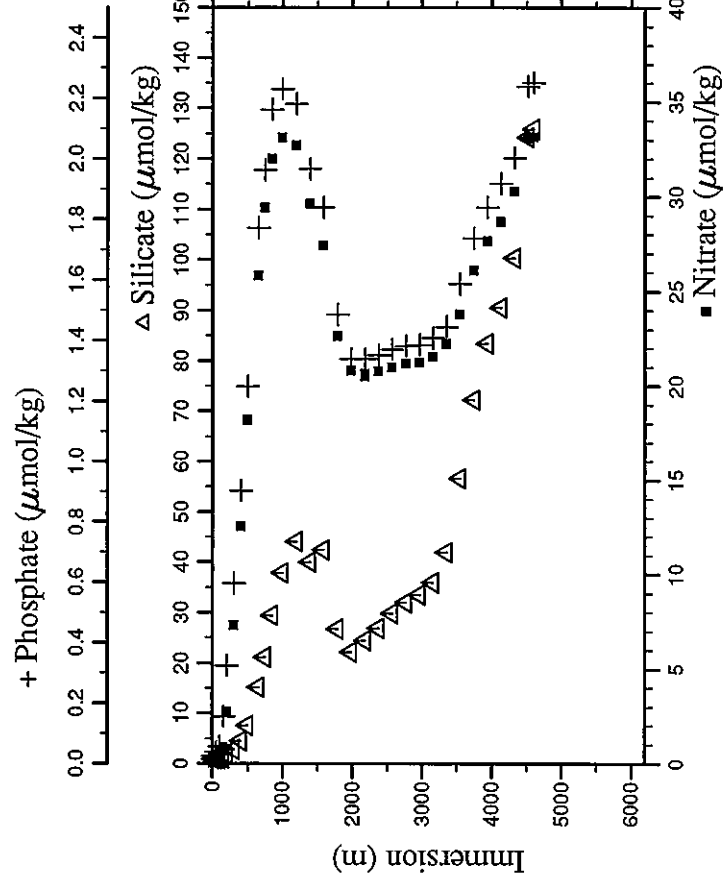
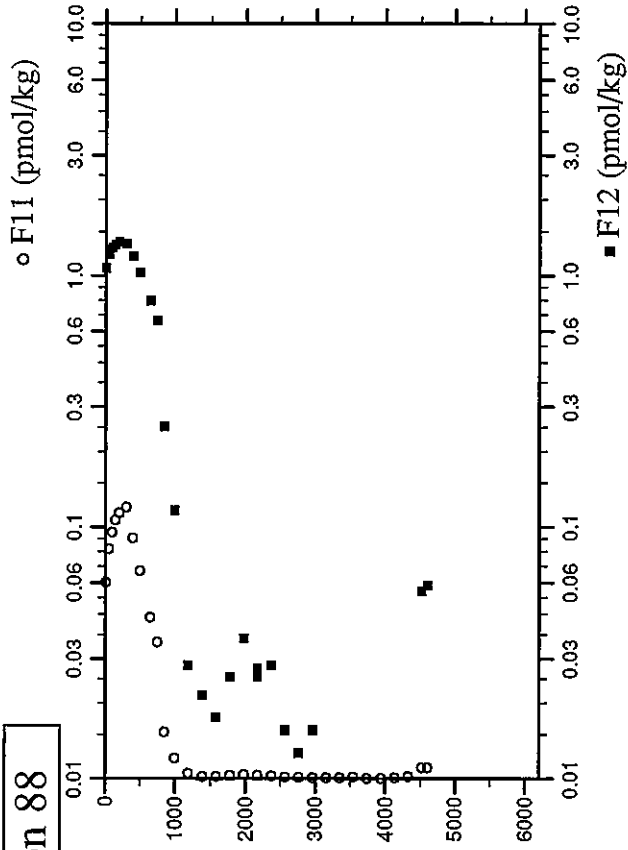
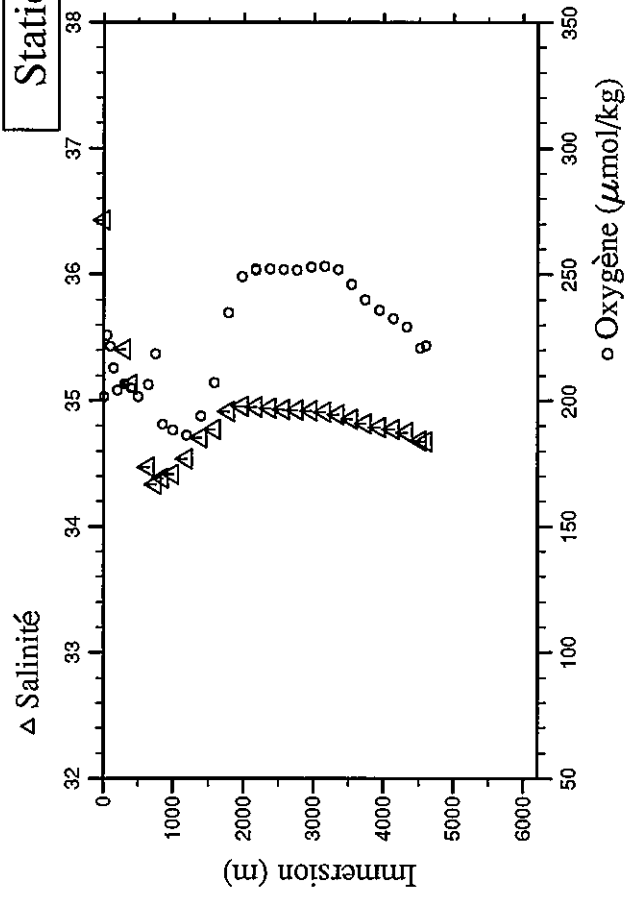
Station 87



Station : 88 Campagne : CITHER 2  
 Date : 03-02-94 Heure : 18 h 51 mn  
 Position : S 24 37.62 W 34 11.90  
 Dernier niveau à : 4684  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.5	4.5	28.096	23.4590	36.432	201.5	0.04	0.026	0.9	1.8205	1.0689	2030.09		8.390
50.6	50.3	23.303	25.4285	36.831	226.0	0.04	0.038	1.0	2.1312	1.2179	2059.34		8.373
100.2	99.5	20.983	26.0223	36.450	221.6	0.04	0.056	0.9	2.2874	1.2934	2061.24		8.347
150.8	149.8	19.237	26.4712	36.172	212.9	0.83	0.155	1.1	2.3967	1.3328	2071.54		8.307
200.7	199.3	17.363	26.9355	35.849	204.1	2.73	0.326	1.8	2.4663	1.3604	2086.55		8.251
300.4	298.3	14.522	27.7087	35.409	206.6	7.32	0.597	2.8	2.5159	1.3384	2098.89		8.190
401.2	398.2	12.397	28.3959	35.128	205.1	12.54	0.903	4.5	2.2320	1.1979	2116.54		8.135
500.3	496.5	10.081	29.0519	34.844	201.6	18.20	1.249	7.6	1.9286	1.0291	2134.95		8.067
650.5	645.3	6.625	30.0165	34.472	206.3	25.82	1.772	15.2	1.4995	0.7957	2161.00		7.974
750.5	744.3	4.917	30.6056	34.338	218.5	29.42	1.963	21.1	1.2659	0.6638	2168.73		7.944
851.4	844.2	4.535	31.1545	34.387	190.5	31.99	2.162	29.4	0.4342	0.2503	2192.60		7.899
1000.9	992.1	3.791	31.9532	34.417	188.2	33.12	2.229	37.8	0.1944	0.1163	2204.33		7.886
1201.4	1190.3	3.386	33.0120	34.537	186.2	32.70	2.181	44.0	0.0488	0.0283			7.884
1400.4	1386.8	3.463	34.0368	34.706	194.0	29.64	1.968	40.0	0.0191	0.0215			7.915
1599.7	1583.4	3.156	35.0346	34.772	207.0	27.44	1.839	42.4	0.0186	0.0176			7.939
1800.7	1781.5	3.453	36.0067	34.918	234.8	22.63	1.486	26.8	0.0293	0.0254			7.995
2000.2	1977.9	3.389	36.9391	34.954	249.0	20.82	1.339	22.2	0.0346	0.0362			8.010
2199.7	2174.2	3.129	37.8622	34.953	252.0	20.63	1.340	24.4	0.0297	0.0254			8.019
2200.0	2174.5	3.129	37.8634	34.950	251.6	20.50	1.340	24.4	0.0309	0.0274			8.020
2400.1	2371.2	2.921	38.7765	34.942	252.2	20.79	1.353	26.9	0.0242	0.0283			8.019
2600.3	2567.8	2.730	39.6837	34.932	251.9	20.99	1.372	29.8	0.0127	0.0156			8.017
2799.9	2763.6	2.569	40.5825	34.926	251.7	21.19	1.382	32.0	0.0164	0.0127			8.017
3000.7	2960.4	2.441	41.4799	34.919	252.9	21.24	1.387	33.5	0.0103	0.0156			8.016
3200.0	3155.6	2.311	42.3675	34.910	253.1	21.56	1.410	35.9	0.0102	0.0088			8.013
3398.3	3349.6	2.107	43.2516	34.892	251.8	22.22	1.446	41.9	0.0089	0.0088			8.005
3597.9	3544.7	1.746	44.1545	34.857	246.1	23.81	1.587	56.6	0.0113	0.0088			7.989
3799.3	3741.4	1.361	45.0647	34.817	239.8	26.09	1.739	72.3	0.0049	0.0098			7.973
3998.3	3935.6	1.096	45.9528	34.790	235.8	27.65	1.839	83.5	0.0025	0.0068			7.959
4197.8	4130.1	0.921	46.8292	34.773	232.5	28.67	1.918	90.5	0.0070	0.0049			7.947
4399.1	4326.2	0.688	47.7160	34.749	229.2	30.26	2.003	100.4	0.0174	0.0098			7.931
4598.1	4519.9	0.033	48.6414	34.683	220.8	33.09	2.238	124.3	0.1046	0.0557			7.889
4682.8	4602.3	-0.030	49.0110	34.678	221.8	33.15	2.250	125.9	0.1048	0.0586			7.895

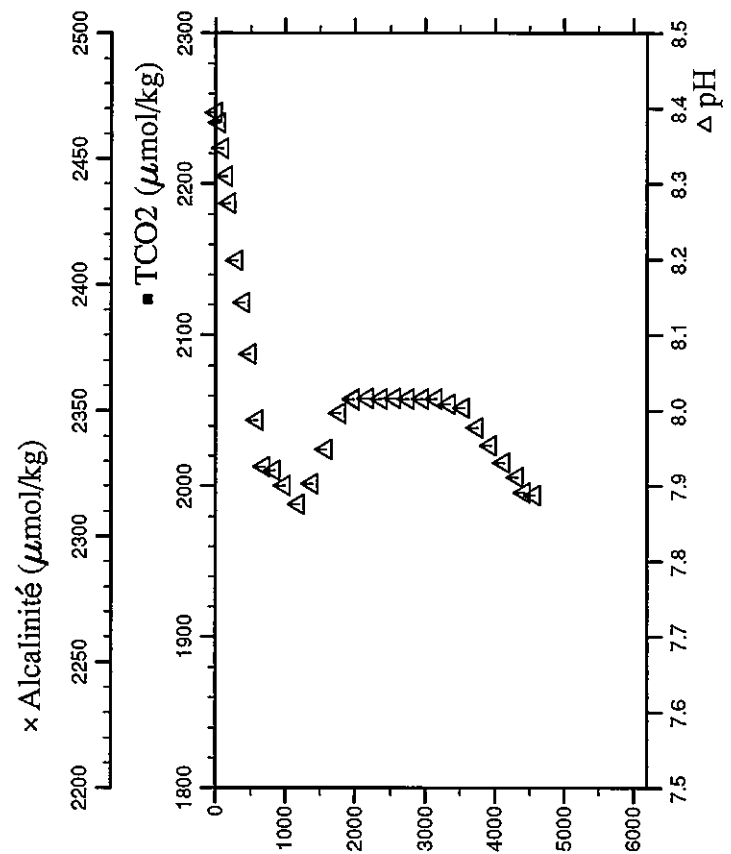
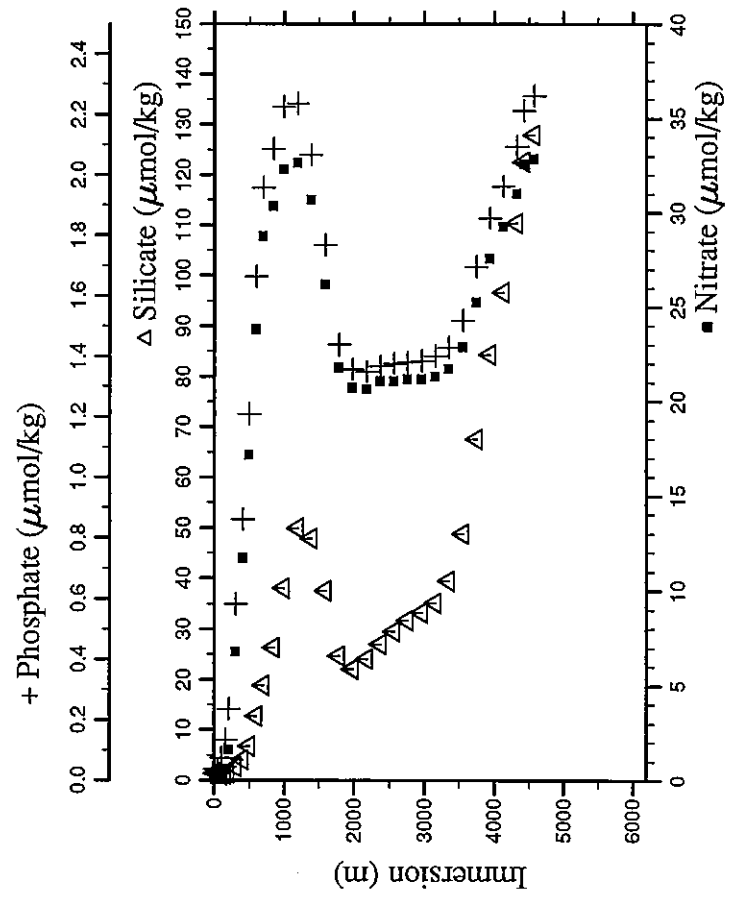
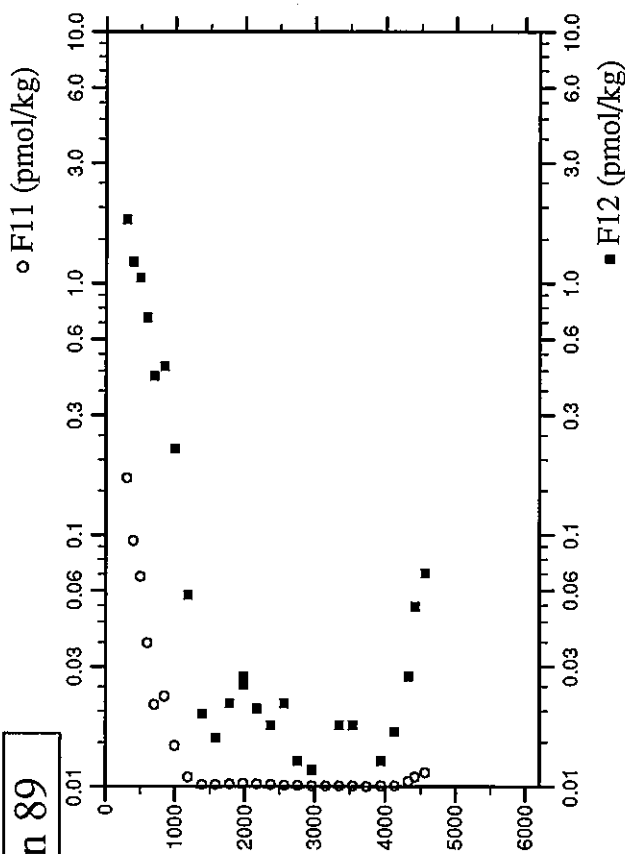
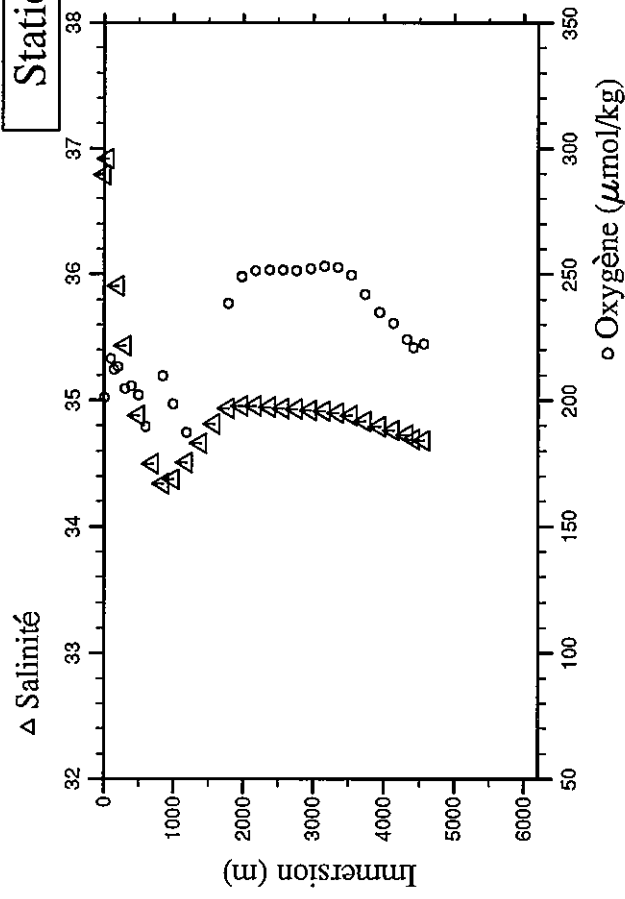
# Station 88



Station : 89 Campagne : CITHER 2  
 Date : 04-02-94 Heure : 0 h 40 mn  
 Position : S 24 14.20 W 33 51.77  
 Dernier niveau à : 4649  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.6	4.6	28.052	23.7411	36.791	201.0	0.04	0.037	1.4					8.395
50.7	50.4	24.060	25.2902	36.919	225.2	0.04	0.037	1.3					8.381
101.0	100.3	21.519	25.9844	36.597	216.6	0.04	0.074	1.1					8.347
150.5	149.5	19.447	26.4692	36.218	212.1	0.60	0.135	1.2					8.310
200.9	199.5	17.770	26.8969	35.908	213.3	1.64	0.236	1.4					8.274
300.8	298.7	14.804	27.6722	35.436	204.5	6.82	0.584	2.7	2.8599	1.7935			8.199
400.6	397.7	12.538	28.3858	35.172	205.7	11.73	0.862	4.1	2.2806	1.2213			8.143
499.6	495.8	10.380	29.0280	34.878	202.0	17.20	1.209	6.8	1.9479	1.0545			8.075
601.6	596.9	7.921	29.6871	34.612	189.5	23.83	1.664	12.7	1.3312	0.7312			7.988
699.9	694.3	6.479	30.2819	34.498	179.0	28.76	1.959	18.8	0.7595	0.4291			7.926
851.8	844.6	4.455	31.1310	34.343	209.7	30.35	2.085	26.3	0.8398	0.4683			7.921
1001.6	992.8	3.591	31.9524	34.378	188.5	32.30	2.226	38.0	0.3832	0.2209			7.901
1199.9	1188.8	3.085	33.0236	34.511	187.2	32.65	2.236	49.9	0.0892	0.0577			7.876
1399.9	1386.3	3.127	34.0434	34.662	215.2	30.67	2.066	47.9	0.0222	0.0195			7.903
1600.3	1584.0	3.317	35.0435	34.813	190.3	26.20	1.767	37.5	0.0173	0.0156			7.949
1800.0	1780.8	3.495	36.0085	34.934	238.4	21.78	1.440	24.7	0.0285	0.0215			7.997
1999.6	1977.4	3.360	36.9399	34.958	248.9	20.75	1.356	22.2	0.0316	0.0254			8.015
1999.8	1977.6	3.360	36.9407	34.956	249.0	20.70	1.356	22.1	0.0322	0.0274			8.016
2199.9	2174.4	3.133	37.8609	34.956	251.3	20.63	1.349	24.1	0.0232	0.0205			8.017
2398.8	2369.9	2.925	38.7700	34.946	251.5	21.07	1.368	27.0	0.0192	0.0176			8.016
2599.6	2567.1	2.761	39.6766	34.938	251.6	21.07	1.375	29.5	0.0124	0.0215			8.017
2797.8	2761.6	2.617	40.5669	34.932	251.4	21.20	1.380	31.7	0.0150	0.0127			8.016
2999.6	2959.4	2.482	41.4704	34.923	252.2	21.20	1.385	33.2	0.0097	0.0117			8.016
3199.0	3154.7	2.363	42.3578	34.917	253.1	21.32	1.402	35.1	0.0099	0.0059			8.016
3398.2	3349.6	2.186	43.2429	34.902	252.7	21.73	1.429	39.4	0.0097	0.0176			8.009
3598.6	3545.5	1.921	44.1401	34.879	249.6	22.89	1.517	48.7	0.0099	0.0176			8.004
3797.9	3740.2	1.479	45.0474	34.833	241.9	25.26	1.695	67.6	0.0040	0.0068			7.978
3997.8	3935.2	1.091	45.9482	34.792	234.8	27.56	1.856	84.3	0.0084	0.0127			7.954
4197.3	4129.7	0.803	46.8377	34.761	230.5	29.26	1.963	96.7	0.0075	0.0166			7.931
4397.4	4324.7	0.466	47.7311	34.727	224.1	31.02	2.094	110.4	0.0466	0.0274			7.912
4496.8	4421.4	0.120	48.1947	34.693	220.8	32.57	2.213	122.6	0.0921	0.0518			7.891
4649.3	4569.8	-0.061	48.8731	34.681	222.4	32.86	2.261	127.9	0.1312	0.0704			7.888

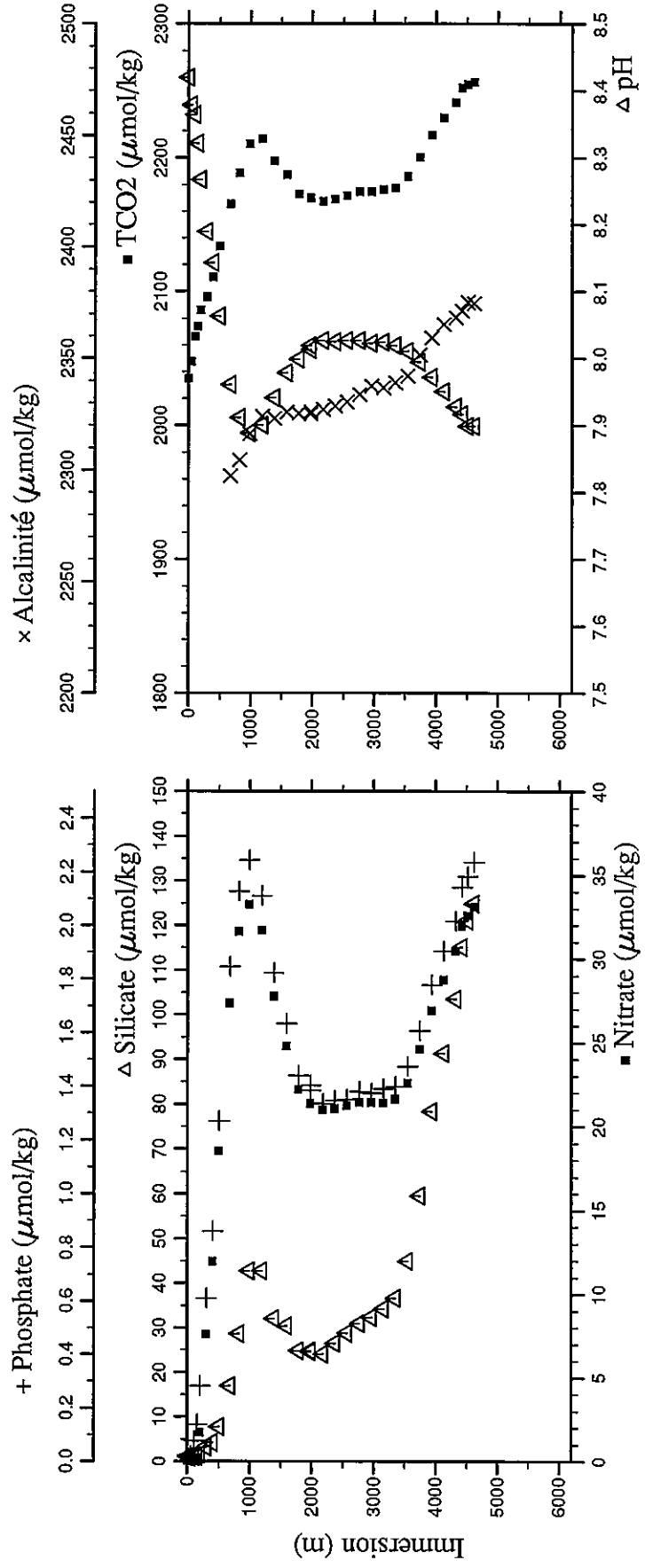
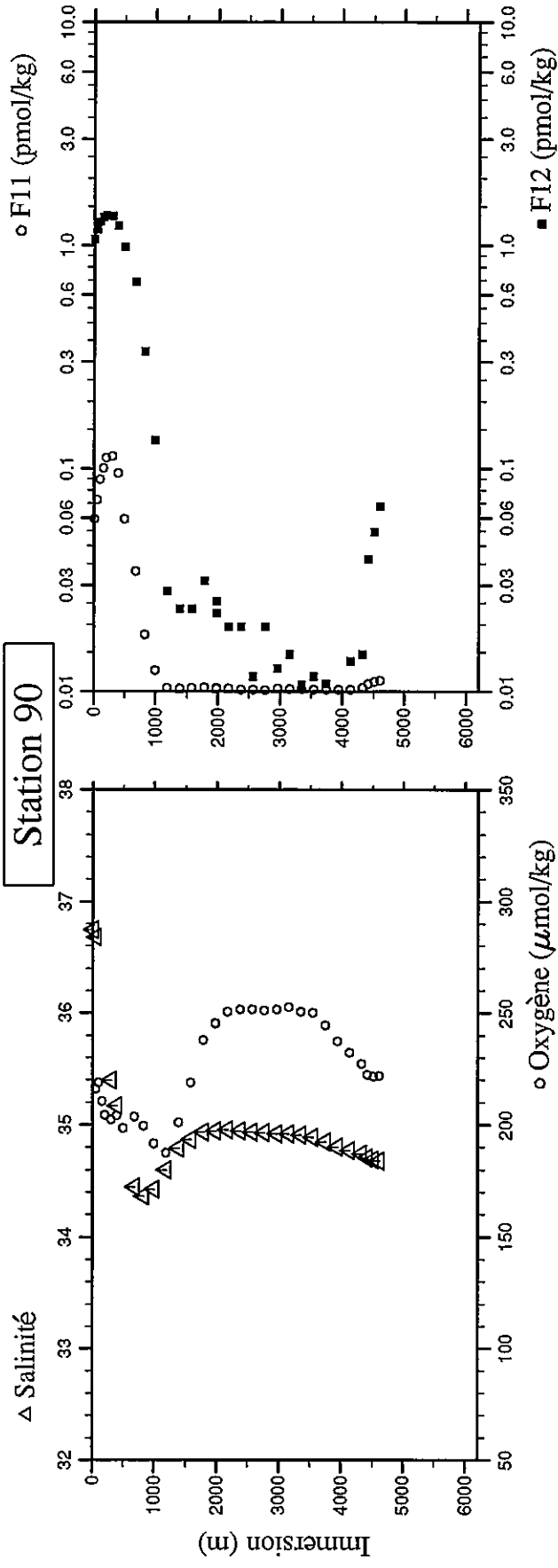
# Station 89



Station : 90 Campagne : CITHER 2  
 Date : 04-02-94 Heure : 6 h 32 mn  
 Position : S 23 50.80 W 33 30.90  
 Dernier niveau à : 4699  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
dbar	metres	deg.ce.l.s.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.4	4.4	27.874	23.7658	36.748	203.0	0.04	0.025	1.1	1.8026	1.0677	2034.77		8.420
49.9	49.6	24.860	24.8642	36.680	216.1	0.04	0.022	1.0	2.0062	1.1790	2047.77		8.379
101.9	101.2	21.987	25.8866	36.609	218.7	0.04	0.077	1.1	2.2185	1.2796	2066.20		8.364
151.2	150.2	20.181	26.3698	36.310	210.5	0.20	0.138	1.1	2.3400	1.3345	2073.74		8.322
198.4	197.0	18.509	26.7871	36.010	204.2	1.72	0.282	1.6	2.4456	1.3641	2086.37		8.268
299.7	297.6	14.713	27.6575	35.401	202.2	7.58	0.611	3.2	2.4621	1.3501	2096.10		8.190
400.9	398.0	12.620	28.3770	35.169	204.1	11.95	0.862	4.2	2.2875	1.2233	2110.83		8.143
502.1	498.3	10.056	29.0659	34.933	198.4	18.54	1.269	7.8	1.8054	0.9783	2133.80		8.063
680.6	675.2	6.233	30.1909	34.448	203.6	27.34	1.847	16.9	1.2619	0.6843	2165.42		7.961
830.2	823.3	4.401	31.0533	34.364	199.4	31.64	2.129	28.6	0.5940	0.3344	2188.82		7.912
999.6	990.9	3.407	32.0032	34.426	191.5	33.24	2.244	42.7	0.2193	0.1339	2210.49		7.889
1200.9	1189.8	3.437	33.0549	34.602	187.5	31.71	2.112	42.7	0.0387	0.0283	2214.22		7.901
1398.9	1385.4	3.766	34.0609	34.796	201.1	27.76	1.823	32.1	0.0292	0.0235	2197.47		7.941
1599.9	1583.7	3.579	35.0483	34.871	218.7	24.77	1.635	30.4	0.0398	0.0235	2187.64		7.979
1801.2	1782.1	3.508	36.0119	34.936	237.8	22.21	1.440	24.8	0.0451	0.0313	2172.92		7.999
2000.2	1978.0	3.303	36.9394	34.958	245.3		1.403	24.8	0.0334	0.0225	2325.0		8.013
2000.4	1978.2	3.299	36.9395	34.945	245.5	21.37	1.385	24.6	0.0348	0.0254	2170.06		8.019
2199.6	2174.2	3.172	37.8532	34.954	250.6	20.98	1.336	24.1	0.0319	0.0195	2167.51		8.027
2401.1	2372.3	2.983	38.7701	34.946	251.5	21.06	1.347	26.5	0.0211	0.0195	2169.16		8.025
2599.9	2567.5	2.823	39.6691	34.938	251.5	21.22	1.351	28.8	0.0174	0.0117	2171.66		8.027
2800.5	2764.3	2.683	40.5707	34.932	251.2	21.43	1.380	30.9	0.0126	0.0195	2174.59		8.027
2999.7	2959.6	2.566	41.4597	34.923	251.7	21.43	1.373	32.4	0.0310	0.0127	2174.79		8.023
3200.3	3156.0	2.444	42.3518	34.923	252.7	21.39	1.390	34.2	0.0238	0.0147	2176.39		8.024
3399.1	3350.6	2.298	43.2361	34.910	250.7	21.64	1.474	36.6	0.0230	0.0107	2177.60		8.019
3598.6	3545.6	2.039	44.1285	34.888	250.2	22.56	1.474	44.9	0.0212	0.0117	2186.15		8.011
3799.5	3741.8	1.656	45.0376	34.852	244.6	24.62	1.607	59.6	0.0204	0.0108	2200.45		7.995
3998.9	3936.4	1.217	45.9425	34.805	237.3	26.93	1.778	78.4	0.0197	0.0098	2217.25		7.972
4198.7	4131.2	0.914	46.8322	34.773	232.3	28.73	1.903	91.3	0.0192	0.0137	2229.77		7.951
4398.0	4325.4	0.625	47.7166	34.743	227.1	30.49	2.016	103.5	0.0362	0.0147	2241.37		7.928
4496.6	4421.4	0.318	48.1733	34.708	222.4	31.93	2.143	115.1	0.0766	0.0391	2252.22		7.917
4597.7	4519.7	0.113	48.6299	34.693	221.6	32.58	2.183	121.1	0.0999	0.0518	2254.92		7.899
4696.7	4616.0	-0.016	49.0687	34.682	221.9	33.11	2.237	124.9	0.1124	0.0674	2256.51		7.899

# Station 90

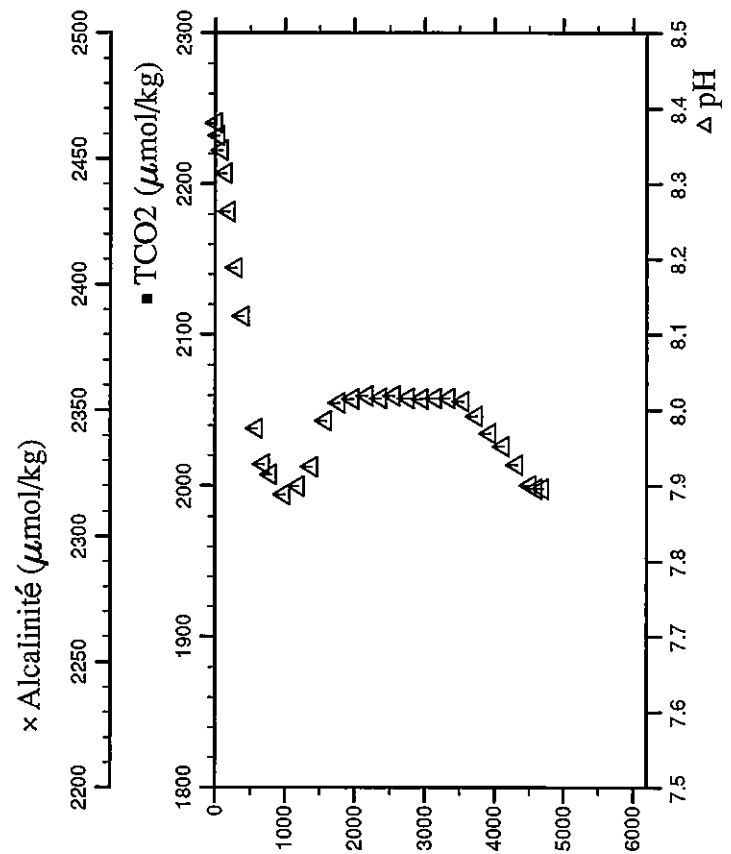
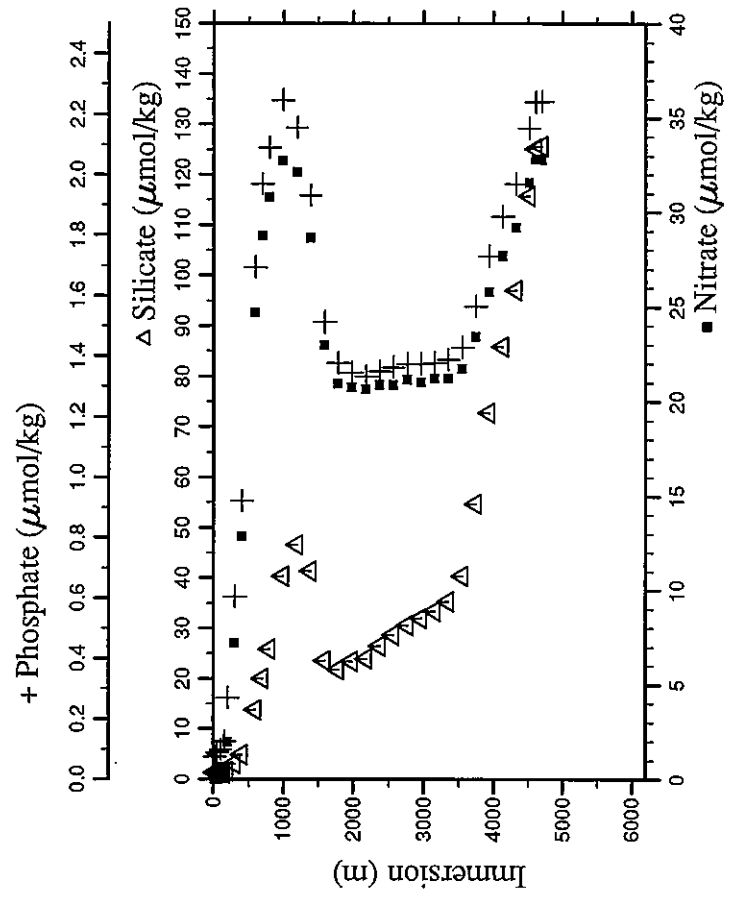
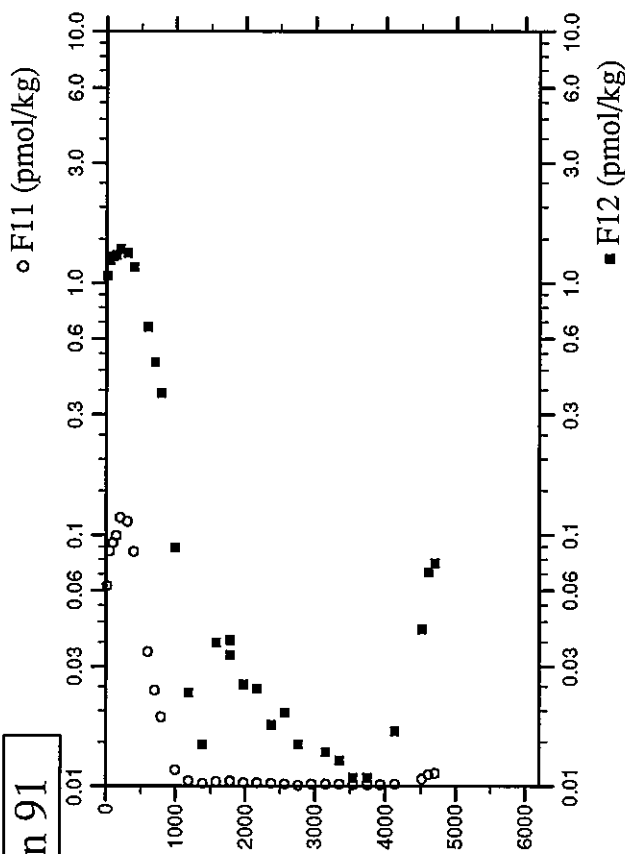
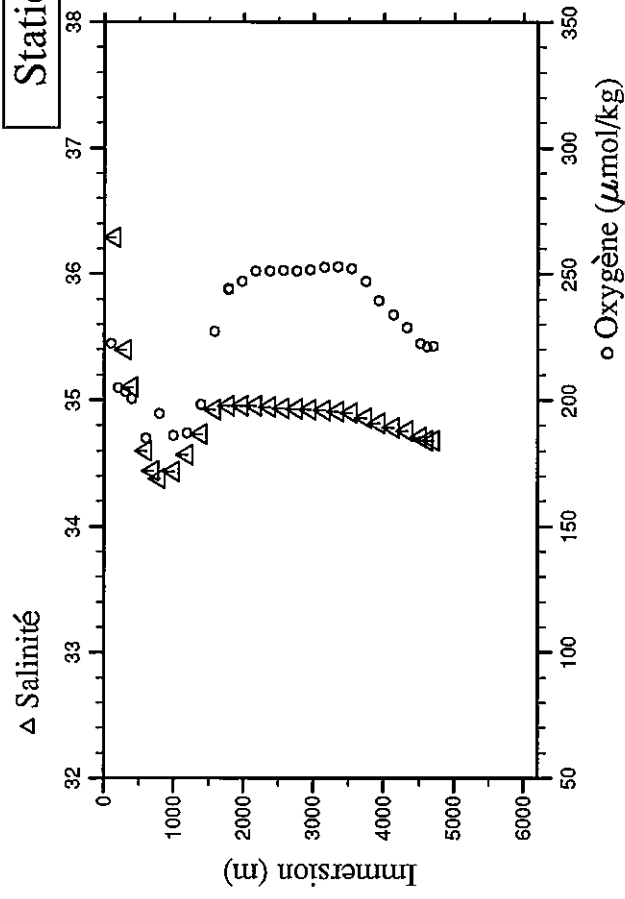


Station : 91 Campagne : CITHER 2  
 Date : 04-02-94 Heure : 12 h 20 mn  
 Position : S 23 27.55 W 33 10.36  
 Dernier niveau à : 4787  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
12.6	12.5	27.786	23.9548	36.895	r 202.4	r 0.00	0.074	1.3	1.8589	1.0669			8.381
51.4	51.1	23.722	25.2726	36.744	r 227.2	r 0.00	0.089	1.3	2.1829	1.2300			8.364
100.9	100.2	21.632	25.9102	36.505	r 222.4	r 0.00	0.098	1.3	2.2645	1.2771			8.345
149.7	148.7	20.024	26.3870	36.289	r 210.2	r 0.36	0.126	1.2	2.3274	1.2939			8.314
200.3	198.9	18.056	26.8537	35.938	r 204.7	r 1.98	0.269	1.6	2.4925	1.3578			8.263
301.4	299.3	14.739	27.6631	35.400	r 203.3	r 7.22	0.605	3.1	2.4568	1.3153			8.189
400.4	397.5	12.394	28.3701	35.104	r 200.6	r 12.87	0.922	4.9	2.1786	1.1524			8.124
600.8	596.1	7.827	29.7095	34.602	r 185.0	r 24.71	1.693	13.8	1.2460	0.6659			7.976
700.4	694.8	5.910	30.3256	34.442	r 189.3	r 28.73	1.970	20.0	0.8936	0.4841			7.929
800.5	793.9	4.788	30.8817	34.384	r 194.6	r 30.81	2.090	25.9	0.6431	0.3648			7.915
1000.3	991.6	3.598	31.9947	34.440	r 186.0	r 32.75	2.246	40.3	0.1516	0.0890			7.889
1199.6	1188.6	3.247	33.0507	34.571	r 187.1	r 32.13	2.155	46.6	0.0496	0.0235			7.900
1400.5	1387.0	3.354	34.0784	34.733	r 198.1	r 28.65	1.930	41.4	0.0254	0.0147			7.925
1600.5	1584.3	3.822	35.0617	34.924	r 227.1	r 22.98	1.514	23.6	0.0461	0.0371			7.986
1799.8	1780.7	3.530	36.0190	34.958	r 244.2	r 20.96	1.378	21.8	0.0450	0.0381			8.010
1800.1	1781.0	3.542	36.0197	34.956	r 243.8	r 20.96	1.378	21.8	0.0487	0.0332			8.010
1999.5	1977.4	3.315	36.9397	34.954	r 247.1	r 20.76	1.346	23.4	0.0329	0.0254			8.015
2199.5	2174.2	3.155	37.8564	34.955	r 251.0	r 20.63	1.333	24.0	0.0341	0.0244			8.019
2399.2	2370.5	2.970	38.7639	34.945	r 251.2	r 20.89	1.350	26.5	0.0229	0.0176			8.016
2599.2	2566.9	2.830	39.6649	34.935	r 251.3	r 20.89	1.364	28.6	0.0213	0.0196			8.019
2800.1	2764.0	2.700	40.5672	34.932	r 251.1	r 21.14	1.374	30.5	0.0075	0.0147			8.016
2998.1	2958.1	2.588	41.4492	34.927	r 251.6	r 21.02	1.373	31.9	0.0195	0.0098			8.015
3199.3	3155.1	2.474	42.3441	34.923	r 252.5	r 21.23	1.378	33.3	0.0202	0.0137			8.016
3399.0	3350.5	2.346	43.2300	34.913	r 253.0	r 21.23	1.389	35.2	0.0169	0.0127			8.016
3600.2	3547.2	2.142	44.1249	34.898	r 252.2	r 21.72	1.428	40.4	0.0135	0.0108			8.012
3799.8	3742.2	1.776	45.0263	34.861	r 247.1	r 23.42	1.564	54.7	0.0131	0.0108			7.992
3997.0	3934.7	1.337	45.9219	34.817	r 239.4	r 25.80	1.730	72.7	0.0126	0.0098			7.969
4199.6	4132.2	1.028	46.8252	34.785	r 233.8	r 27.71	1.861	85.9	0.0198	0.0166			7.952
4397.6	4325.1	0.759	47.7026	34.756	r 228.8	r 29.18	1.969	97.0	0.0663	0.0420			7.928
4597.9	4520.1	0.262	48.6137	34.708	r 223.3	r 31.55	2.154	115.7	0.1074	0.0714			7.901
4688.4	4608.1	-0.042	49.0376	34.681	r 221.0	r 32.81	2.240	125.1	0.1074	0.0714			7.896
4787.4	4704.4	-0.071	49.4643	34.680	r 221.3	r 32.77	2.243	125.7	0.1183	0.0772			7.896



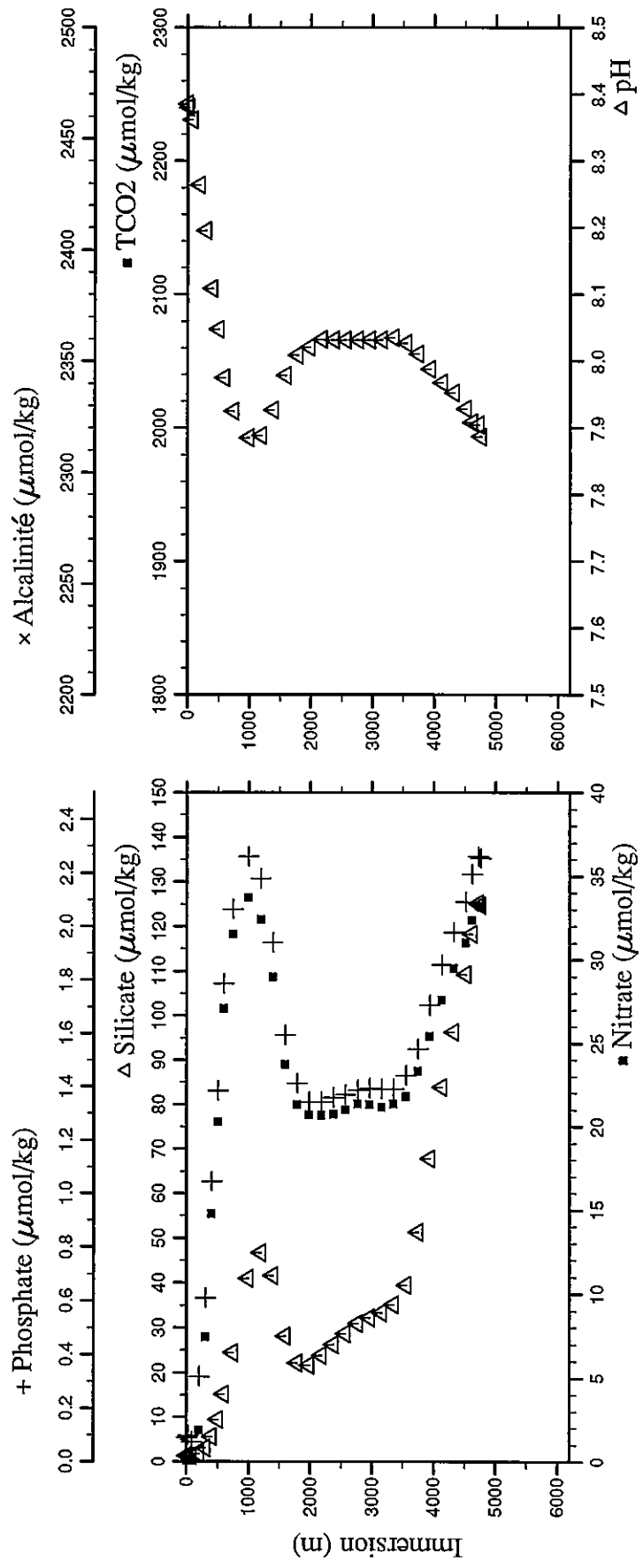
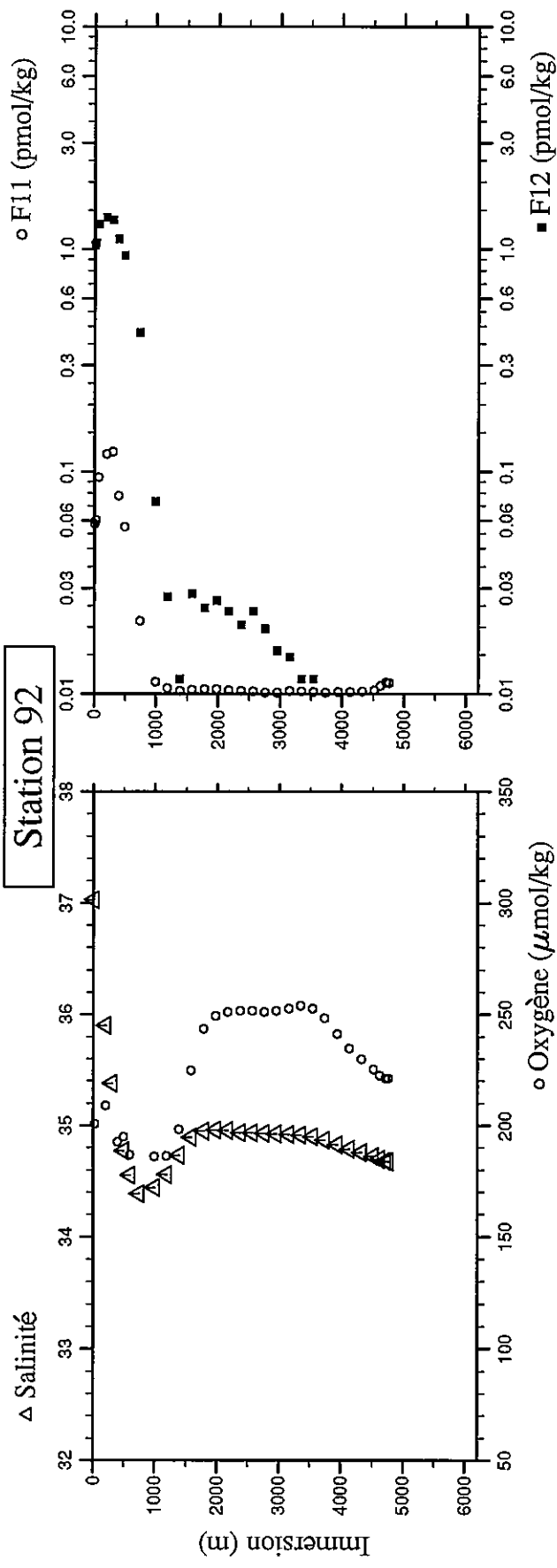
# Station 91



Station : 92 Campagne : CIPHER 2  
 Date : 04-02-94 Heure : 18 h 24 mn  
 Position : S 23 4.01 W 32 49.46  
 Dernier niveau à : 4844  
 Nb prélèvements : 31

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
2.5	2.5	28.644	23.7219	37.030	197.6	r	0.092	1.3	1.7799	1.0414			8.385
26.7	26.5	27.709	24.0875	36.964	r	0.04	0.098	1.3	1.8242	1.0629			8.380
74.9	74.4	22.330	25.5744	36.476	r	0.12	0.074	1.3	2.2712	1.2918			8.362
200.0	198.6	17.923	26.8492	35.901	209.0	r	0.318	1.8	2.5165	1.3871			8.264
302.1	300.0	14.650	27.6697	35.380	211.3	r	0.611	3.1	2.5426	1.3564			8.196
400.6	397.7	12.015	28.4122	35.052	192.5	r	1.046	5.7	2.0761	1.1084			8.109
500.8	497.0	9.592	29.0945	34.772	194.8		1.384	9.4	1.7550	0.9356			8.048
600.5	595.9	7.345	29.7457	34.557	186.7		1.787	15.2					7.975
750.1	744.0	5.016	30.6230	34.386	197.0	r	2.065	24.4	0.7673	0.4234			7.925
1000.8	992.1	3.552	32.0076	34.444	185.9		2.261	41.0	0.1248	0.0733			7.885
1201.2	1190.2	3.246	33.0499	34.560	186.3		2.178	46.7	0.0599	0.0274			7.889
1400.7	1387.2	3.354	34.0792	34.730	198.2		1.939	41.6	0.0302	0.0117			7.927
1600.6	1584.4	3.567	35.0674	34.893	224.7		1.594	28.1	0.0425	0.0283			7.979
1800.1	1781.1	3.549	36.0120	34.950	243.5		1.411	22.2	0.0506	0.0244			8.009
1999.4	1977.4	3.372	36.9385	34.961	249.3		1.341	21.7	0.0489	0.0264			8.021
2199.3	2174.0	3.178	37.8535	34.955	251.1		1.343	23.8	0.0396	0.0235			8.033
2399.7	2371.0	2.979	38.7655	34.936	251.7		1.359	26.2	0.0292	0.0205			8.032
2599.2	2566.9	2.826	39.6670	34.938	251.6		1.370	28.6	0.0229	0.0235			8.032
2799.4	2763.4	2.687	40.5651	34.931	251.1		1.386	30.9	0.0166	0.0196			8.032
2997.7	2957.8	2.566	41.4507	34.925	251.7		1.392	32.2	0.0109	0.0156			8.032
3198.4	3154.3	2.462	42.3421	34.923	252.5		1.391	33.4	0.0293	0.0147			8.032
3398.7	3350.3	2.343	43.2290	34.916	253.9		1.391	35.1	0.0270	0.0117			8.035
3598.3	3545.5	2.168	44.1138	34.901	252.7		1.441	39.5	0.0217	0.0117			8.027
3798.5	3741.0	1.851	45.0128	34.869	248.4		1.541	51.3	0.0166	0.0088			8.011
3999.2	3936.9	1.451	45.9197	34.829	241.2		1.707	67.8	0.0196	0.0088	d		7.988
4199.2	4131.9	1.083	46.8160	34.791	234.5		1.856	83.8	0.0204	0.0078	d		7.968
4398.9	4326.5	0.773	47.7071	34.756	229.7		1.978	96.3	0.0240	0.0088	d		7.952
4597.6	4519.9	0.429	48.5941	34.723	225.2		2.091	109.2	0.0354	0.0108	d		7.929
4699.4	4618.9	0.173	49.0588	34.698	222.4		2.196	118.3	0.0841	0.0430	d		7.908
4799.3	4716.0	-0.070	49.5117	34.680	221.0		2.262	125.1	0.1233	0.0548	d		7.905
4841.9	4757.5	-0.063	49.6948	34.678	221.2		2.256	124.7	0.1134	0.0479	d		7.887

# Station 92

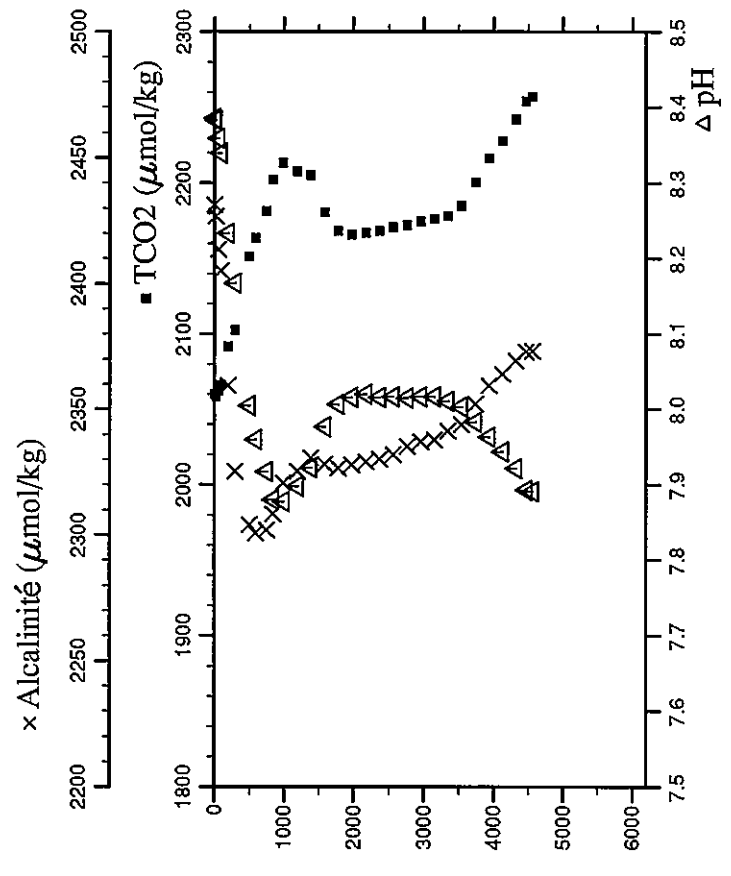
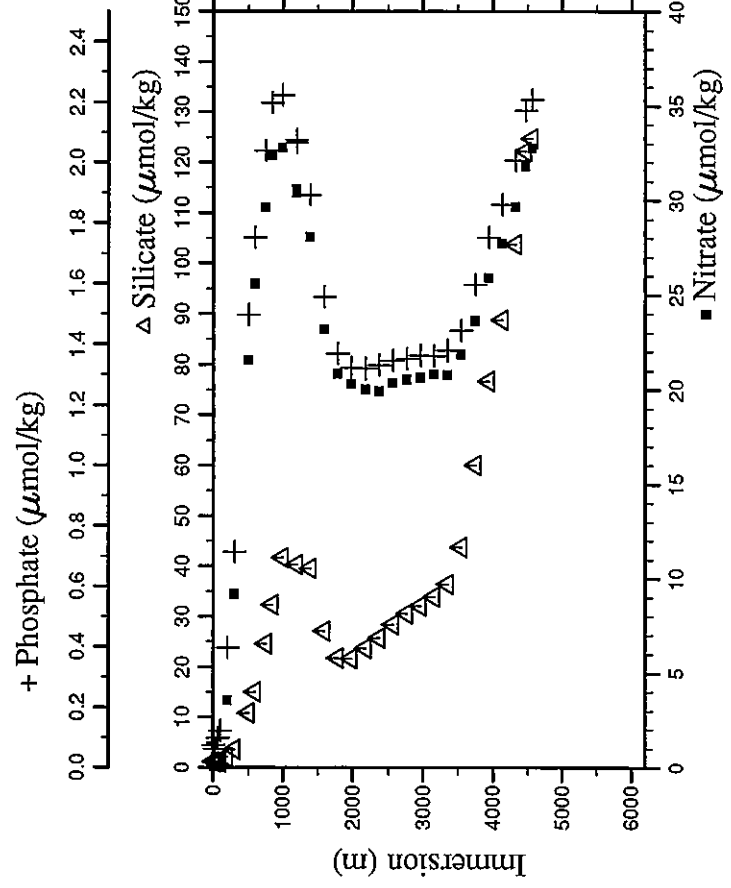
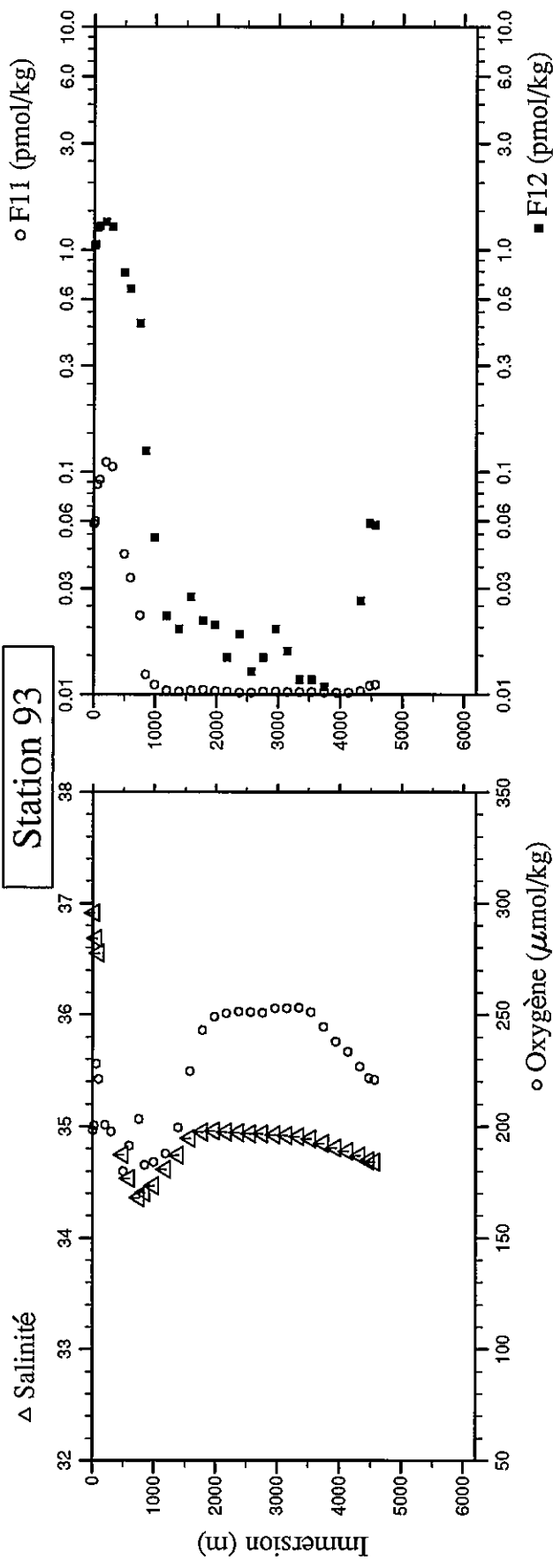


$\blacksquare$  Nitrate ( $\mu$ mol/kg)

Station : 93 Campagne : CITHER 2  
 Date : 05-02-94 Heure : 0 h 14 mn  
 Position : S 22 40.83 W 32 28.93  
 Dernier niveau à : 4646  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THERA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	PH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.4	5.4	28.137	23.8175	36.952	198.3	0.04	0.074	1.2	1.7892	1.0464	2059.74	2431.4	8.385
21.1	21.0	27.806	23.9844	36.913	200.5	0.04	0.062	1.1	1.8153	1.0601	2058.27	2426.7	8.383
61.4	61.0	23.129	25.4364	36.687	228.0	0.04	0.098	1.2	2.2011	1.2584	2062.07	2413.4	8.359
101.5	100.8	21.757	25.8979	36.552	221.0	0.04	0.122	1.1	2.2487	1.2732	2066.12	2405.0	8.340
200.5	199.1	17.342	26.9374	35.807	200.7	3.55	0.398	2.1	2.4372	1.3325	2091.48	2359.4	8.234
301.2	299.1	14.215	27.7203	35.320	197.8	9.18	0.715	3.6	2.3860	1.2724	2102.86	2325.4	8.168
500.7	497.0	9.327	29.1203	34.748	179.8	21.55	1.497	10.8	1.4759	0.7919	2151.43	2303.9	8.005
755.6	749.5	7.197	29.7537	34.535	191.3	25.58	1.753	15.0	1.2249	0.6649	2163.56	2300.7	7.960
850.2	843.1	4.788	30.6655	34.362	203.4	29.64	2.038	24.6	0.8283	0.4655	2181.31	2301.8	7.918
1000.8	992.1	3.521	31.2020	34.407	182.6	32.38	2.197	32.4	0.2090	0.1242	2202.47	2308.2	7.880
1199.5	1188.5	3.502	32.0258	34.469	184.1	32.79	2.223	41.8	0.1036	0.0508	2213.43	2320.6	7.878
1399.6	1386.2	3.385	33.0534	34.618	187.7	30.56	2.066	40.4	0.0445	0.0225	2207.97	2325.4	7.898
1600.1	1584.0	3.630	33.0544	34.617	187.8	30.41	2.074	40.3	0.0426	0.0225	2325.4	2325.4	7.898
1800.1	1781.1	3.518	34.0729	34.744	199.4	28.07	1.892	39.6	0.0299	0.0196	2205.05	2330.6	7.923
1999.4	1977.4	3.348	35.0619	34.896	224.7	23.18	1.556	27.1	0.0427	0.0274	2180.83	2328.1	7.977
2200.6	2175.4	3.138	36.0189	34.952	242.9	20.85	1.370	21.8	0.0476	0.0215	2168.21	2326.5	8.007
2400.0	2371.4	2.970	37.8627	34.945	249.1	20.32	1.322	21.6	0.0367	0.0205	2165.64	2327.8	8.016
2601.2	2569.0	2.814	38.7681	34.952	250.7	20.04	1.321	23.7	0.0313	0.0147	2167.20	2329.1	8.020
2798.5	2762.6	2.679	39.6767	34.938	251.4	19.92	1.332	25.7	0.0199	0.0186	2168.55	2330.2	8.016
3000.2	2960.3	2.558	40.5618	34.938	250.9	20.37	1.347	28.4	0.0212	0.0127	2171.02	2332.0	8.017
3198.5	3154.5	2.440	41.4622	34.927	252.8	20.63	1.364	30.6	0.0318	0.0147	2172.37	2335.1	8.015
3397.8	3349.5	2.282	42.3448	34.921	252.8	20.82	1.362	32.1	0.0302	0.0196	2174.60	2336.9	8.017
3596.7	3544.0	2.045	43.2328	34.909	253.1	20.78	1.381	33.8	0.0285	0.0156	2176.27	2337.7	8.017
3799.6	3742.2	1.639	44.1196	34.888	251.0	21.88	1.445	36.4	0.0271	0.0117	2178.30	2341.2	8.011
3998.8	3936.6	1.254	45.0400	34.849	244.6	23.64	1.596	60.0	0.0210	0.0108	2200.66	2351.9	8.003
4198.9	4131.7	0.960	45.9383	34.809	238.0	25.91	1.753	76.7	0.0193	0.0078	2216.05	2359.3	7.963
4398.1	4325.8	0.619	46.8298	34.779	233.4	27.74	1.861	88.8	0.0204	0.0078	2227.87	2363.8	7.944
4547.1	4470.9	0.095	47.7192	34.740	226.8	29.67	2.008	103.8	0.0379	0.0264	2242.03	2369.3	7.922
4644.5	4565.6	-0.003	48.4145	34.694	221.5	31.81	2.172	122.2	0.0903	0.0587	2253.80	2372.8	7.893
			48.8440	34.683	220.9	32.73	2.208	124.8	0.1001	0.0577	2256.76	2373.2	7.891

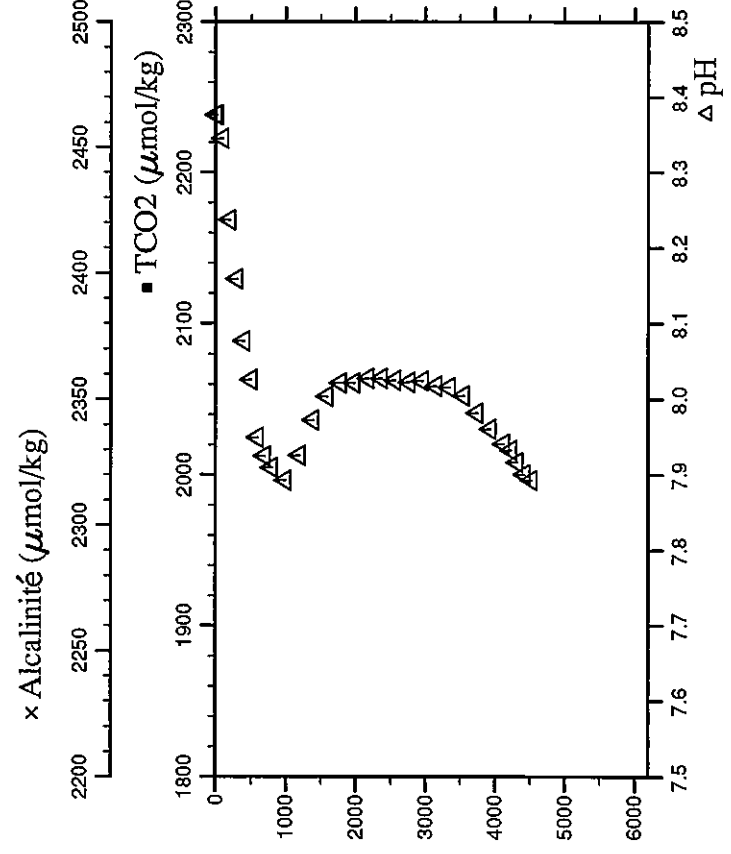
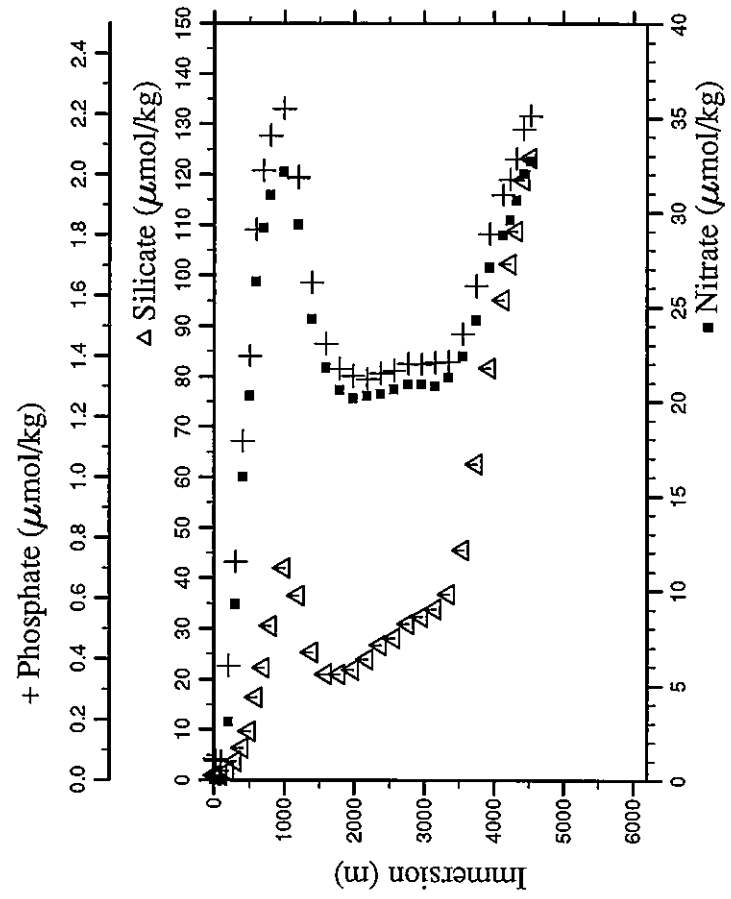
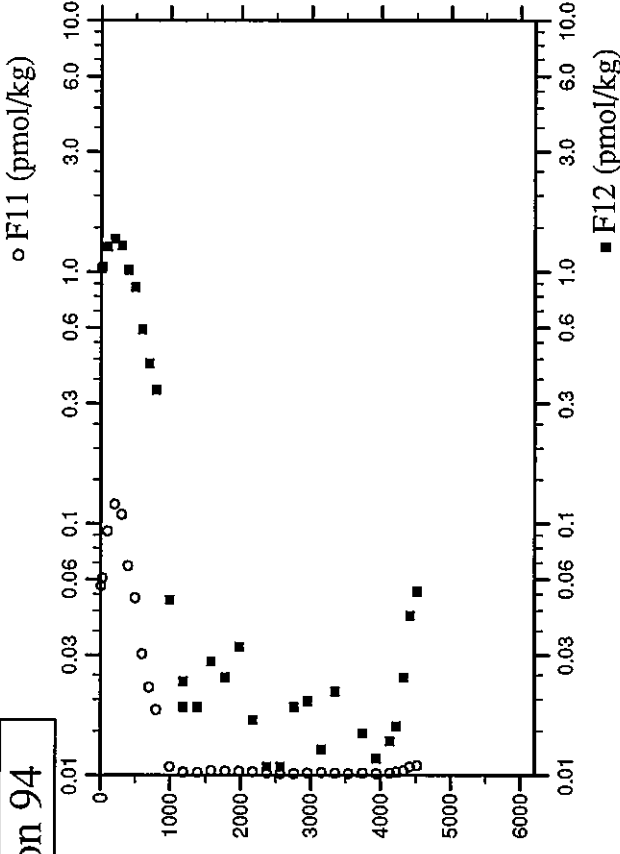
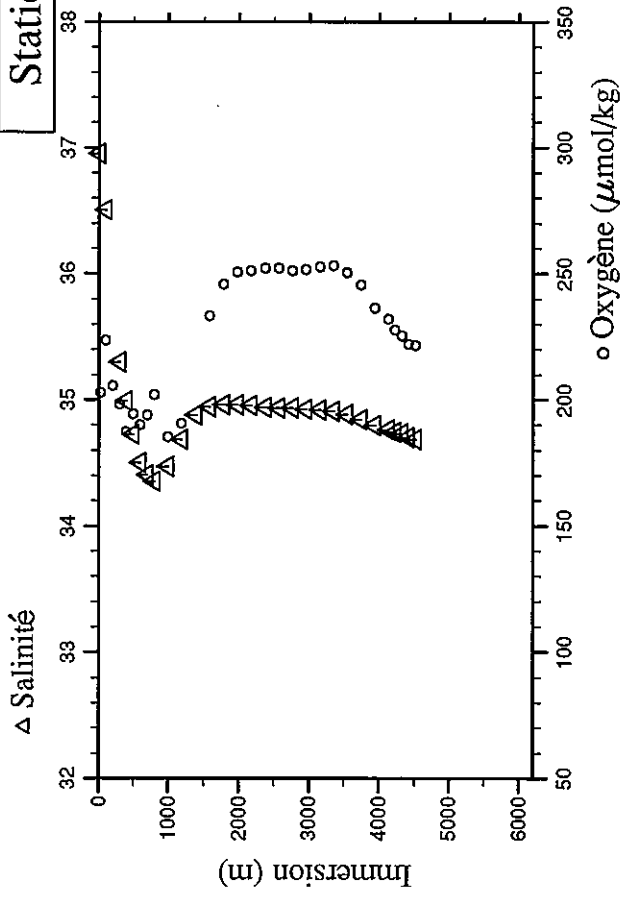
# Station 93



Station : 94 Campagne : CITHER 2  
 Date : 05-02-94 Heure : 5 h 57 mn  
 Position : S 22 17.25 W 32 8.13  
 Dernier niveau à : 4606  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.9	4.9	28.288	23.7889	36.954	197.4	0.04	0.071	0.9	1.7580	1.0307			8.377
26.5	26.3	27.602	24.0845	36.932	202.7	0.04	0.065	0.9	1.8294	1.0474			8.377
100.5	99.8	21.664	25.8998	36.507	223.7	0.04	0.062	0.9	2.2619	1.2517			8.346
202.0	200.6	17.187	26.9529	35.781	205.5	3.10	0.378	1.8	2.5140	1.3472			8.237
301.3	299.2	14.072	27.7318	35.303	198.1	9.28	0.721	3.7	2.4142	1.2724			8.159
400.0	397.1	11.564	28.4485	34.994	187.3	16.02	1.120	6.4	1.9413	1.0185			8.077
501.2	497.5	9.132	29.1372	34.727	194.5	20.31	1.401	9.7	1.6472	0.8682			8.026
601.8	597.2	6.760	29.7995	34.505	190.1	26.35	1.819	16.4	1.1241	0.5887			7.950
700.9	695.3	5.328	30.3759	34.406	194.0	29.20	2.014	22.3	0.8136	0.4313			7.925
801.3	794.8	4.155	30.9472	34.357	202.1	30.93	2.128	30.5	0.6068	0.3403			7.910
1001.6	992.9	3.485	32.0390	34.475	185.2	32.15	2.217	42.0	0.0819	0.0499			7.893
1201.3	1190.4	3.661	33.0936	34.687	190.7		1.988	36.5	0.0324	0.0235			7.926
1400.4	1387.0	3.927	34.1088	34.686	190.7	29.35	1.992	36.5	0.0271	0.0186			7.973
1601.1	1585.0	3.807	35.0805	34.945	212.6	24.37	1.643	25.4	0.0284	0.0186			8.004
1800.3	1781.4	3.536	36.0227	34.960	233.2	21.79	1.442	21.0	0.0409	0.0283			8.022
2000.0	1978.0	3.334	36.9455	34.963	245.8	20.61	1.358	21.0	0.0348	0.0244			8.028
2199.4	2174.2	3.126	37.8592	34.954	250.5	20.16	1.336	21.9	0.0368	0.0323			8.025
2400.1	2371.5	2.919	38.7756	34.942	251.2	20.32	1.326	24.0	0.0318	0.0166			8.028
2600.1	2568.0	2.827	39.6697	34.938	252.0	20.41	1.345	26.7	0.0197	0.0108			8.025
2799.9	2764.0	2.670	40.5689	34.936	251.0	20.91	1.375	28.2	0.0153	0.0108			8.023
2997.8	2958.0	2.553	41.4518	34.928	251.5	20.90	1.374	30.9	0.0137	0.0186			8.024
3199.8	3155.9	2.433	42.3523	34.919	252.6	20.82	1.380	33.8	0.0228	0.0127			8.018
3399.1	3350.9	2.283	43.2371	34.909	253.2	21.28	1.383	36.8	0.0208	0.0215			8.016
3599.6	3546.9	2.015	44.1349	34.885	250.4	22.42	1.474	45.5	0.0155	0.0098			8.005
3799.8	3742.5	1.581	45.0458	34.844	245.4	24.29	1.633	62.6	0.0175	0.0147			7.982
3999.0	3936.9	1.163	45.9466	34.799	236.4	27.09	1.804	81.7	0.0123	0.0117			7.961
4199.6	4132.5	0.845	46.8430	34.764	232.1	28.77	1.933	95.1	0.0219	0.0137			7.941
4297.8	4228.2	0.669	47.2825	34.745	227.8	29.59	1.983	102.2	0.0308	0.0156			7.933
4399.0	4326.8	0.506	47.7347	34.730	225.3	30.66	2.051	108.8	0.0418	0.0244			7.917
4495.8	4421.0	0.207	48.1805	34.701	222.0	32.03	2.149	118.9	0.0764	0.0430			7.901
4601.6	4524.0	0.049	48.6518	34.686	221.6	32.70	2.193	123.2	0.0910	0.0538			7.893

# Station 94

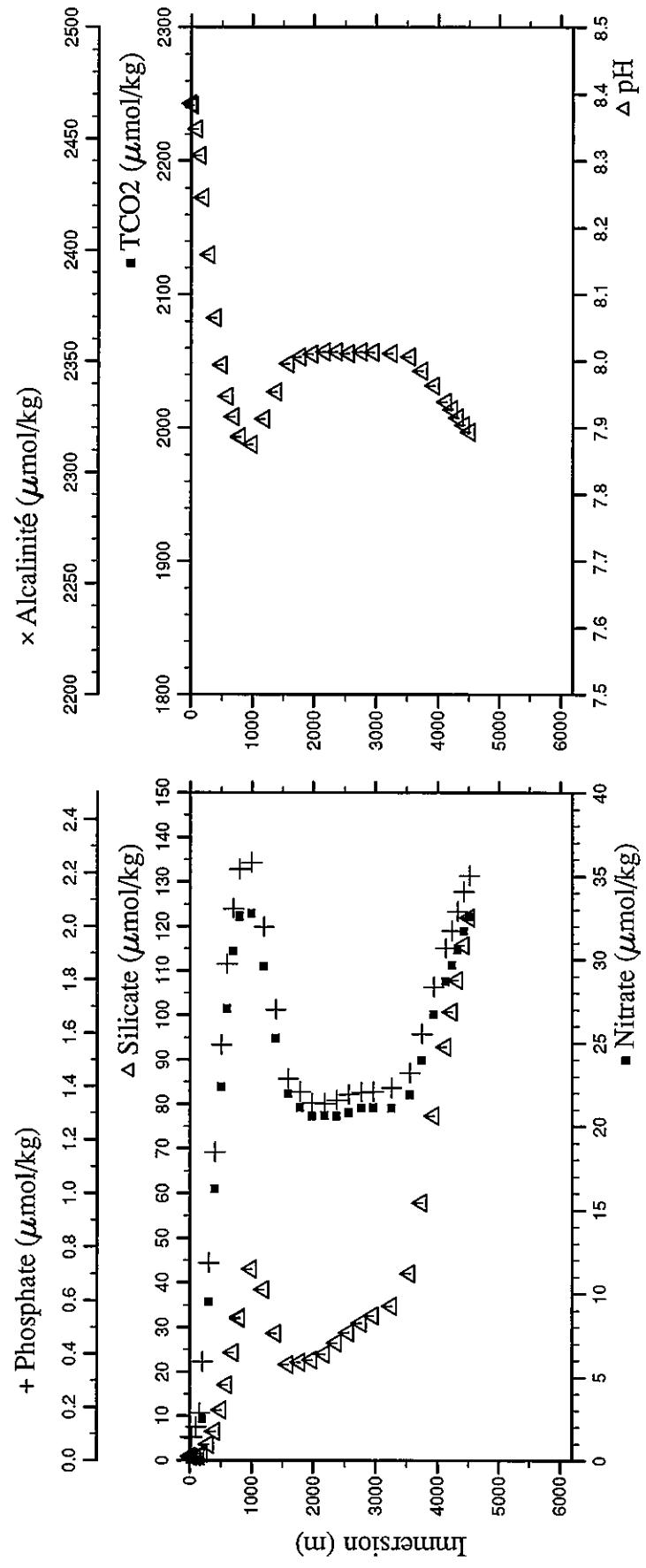
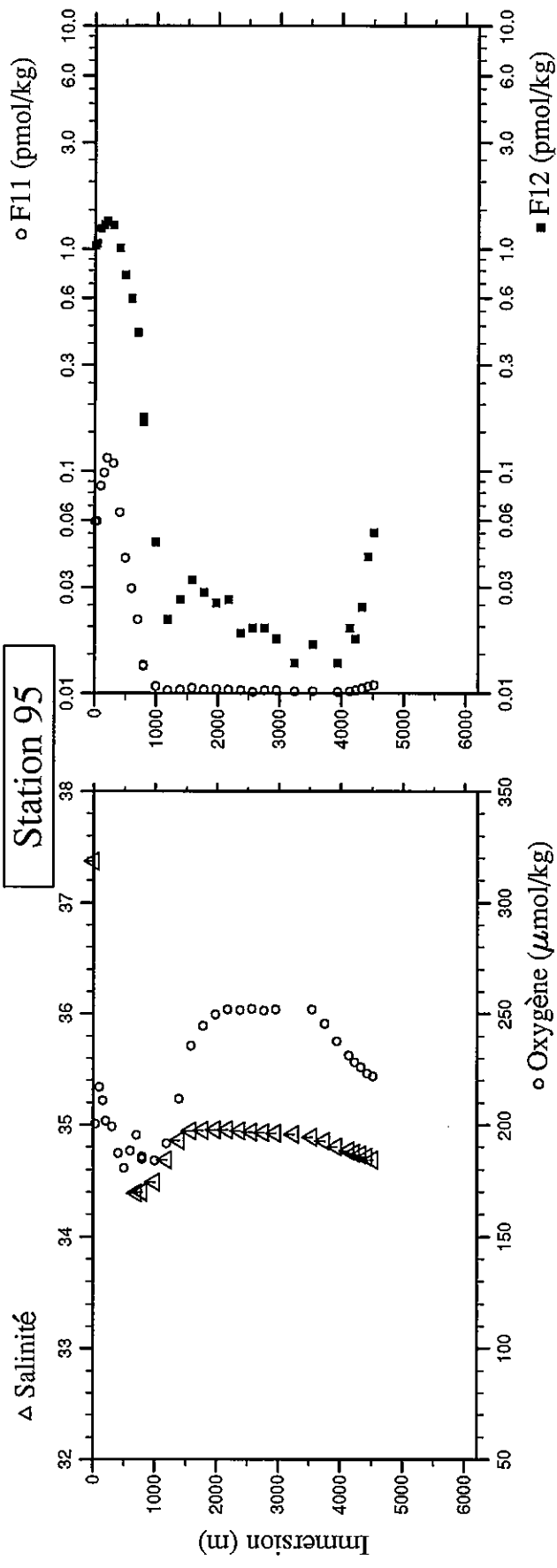


Station : 95 Campagne : CITHER 2  
 Date : 05-02-94 Heure : 16 h 35 mn  
 Position : S 21 54.20 W 31 47.54  
 Dernier niveau à : 4598  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- um/kg	PH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.5	4.5	28.385	24.0734	37.372	197.7	0.04	0.087	0.9	1.8053	1.0363			8.386
31.0	30.8	27.942	24.3180	37.314	200.4	0.04	0.087	0.8	1.8091	1.0571			8.384
100.2	99.6	22.722	25.8065	36.776	217.1	0.04	0.126	0.8	2.1810	1.2382			8.348
151.2	150.2	20.770	26.3005	36.429	210.9	0.04	0.178	0.9	2.3163	1.2874			8.308
201.9	200.5	18.203	26.8447	35.961	201.8	2.50	0.372	1.6	2.4702	1.3318			8.246
301.8	299.7	14.077	27.7376	35.298	199.3	9.51	0.740	3.6	2.4178	1.2777			8.160
402.1	399.2	11.525	28.4639	34.987	187.3	16.27	1.154	6.5	1.8980	1.0071			8.065
500.7	497.0	8.976	29.1683	34.716	180.8	22.38	1.555	11.4	1.4183	0.7628			7.995
600.2	595.6	6.799	29.7986	34.508	188.3	27.04	1.859	17.1	1.1013	0.5947			7.947
701.1	695.6	5.104	30.3999	34.390	195.3	30.51	2.066	24.3	0.7725	0.4197			7.917
800.5	794.0	4.302	30.9626	34.397	185.7	32.59	2.213	32.0	0.2884	0.1663			7.887
800.6	794.1	4.316	30.9609	34.401	184.7	32.65	2.214	32.2	0.2986	0.1741			7.886
1000.7	992.1	3.476	32.0509	34.486	183.9	32.78	2.238	43.0	0.0729	0.0479			7.875
1200.3	1189.4	3.562	33.1046	34.689	191.6	29.60	1.999	38.4	0.0290	0.0215			7.913
1401.3	1387.9	3.800	34.1163	34.859	211.8	25.30	1.688	28.6	0.0401	0.0264			7.954
1599.9	1583.9	3.767	35.0835	34.947	235.7	21.96	1.429	21.7	0.0530	0.0323			7.996
1798.4	1779.5	3.470	36.0202	34.953	244.4	21.12	1.380	22.2	0.0405	0.0284			8.007
1999.3	1977.4	3.291	36.9480	34.956	249.6	20.61	1.337	22.7	0.0449	0.0254			8.014
2199.7	2174.6	3.143	37.8603	34.954	251.9	20.63	1.335	23.9	0.0371	0.0264			8.014
2399.4	2370.9	2.963	38.7684	34.946	251.6	20.60	1.349	26.5	0.0311	0.0186			8.014
2600.4	2568.3	2.806	39.6753	34.937	252.2	20.80	1.369	28.8	0.0141	0.0196			8.012
2798.8	2763.0	2.667	40.5670	34.930	251.3	21.09	1.379	30.9	0.0303	0.0196			8.014
2998.2	2958.5	2.548	41.4561	34.924	251.8	21.13	1.381	32.6	0.0295	0.0176			8.013
3299.5	3253.5	2.362	42.7968	34.917	251.0	21.09	1.394	34.8	0.0219	0.0137			8.012
3598.9	3546.3	2.099	44.1257	34.892	251.8	21.91	1.449	42.0	0.0193	0.0166			8.007
3799.1	3741.9	1.692	45.0336	34.853	245.5	23.96	1.597	57.9					7.985
3998.6	3936.6	1.251	45.9381	34.806	237.7	26.71	1.771	77.4	0.0155	0.0137			7.963
4198.3	4131.4	0.889	46.8342	34.769	231.3	28.69	1.919	92.9	0.0171	0.0196			7.939
4299.2	4229.7	0.698	47.2881	34.748	228.3	29.66	1.983	100.7	0.0342	0.0176			7.928
4399.3	4327.2	0.526	47.7345	34.732	225.9	30.58	2.057	107.8	0.0490	0.0244			7.915
4499.1	4424.4	0.302	48.1882	34.710	223.1	31.70	2.131	115.7	0.0719	0.0411			7.904
4597.4	4520.0	0.079	48.6333	34.689	221.9	32.57	2.190	122.0	0.0874	0.0528			7.894



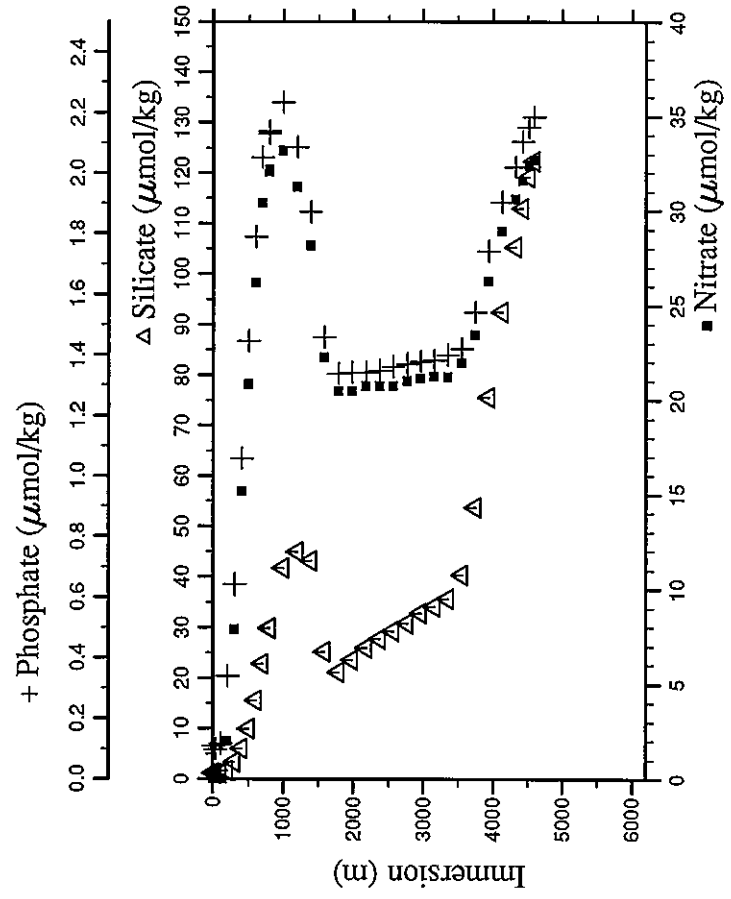
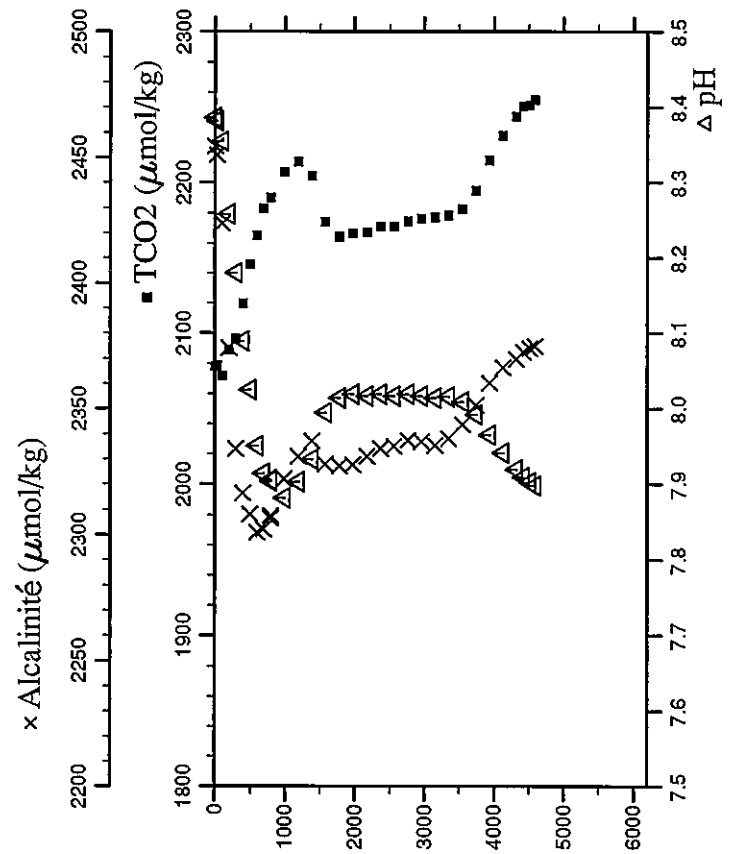
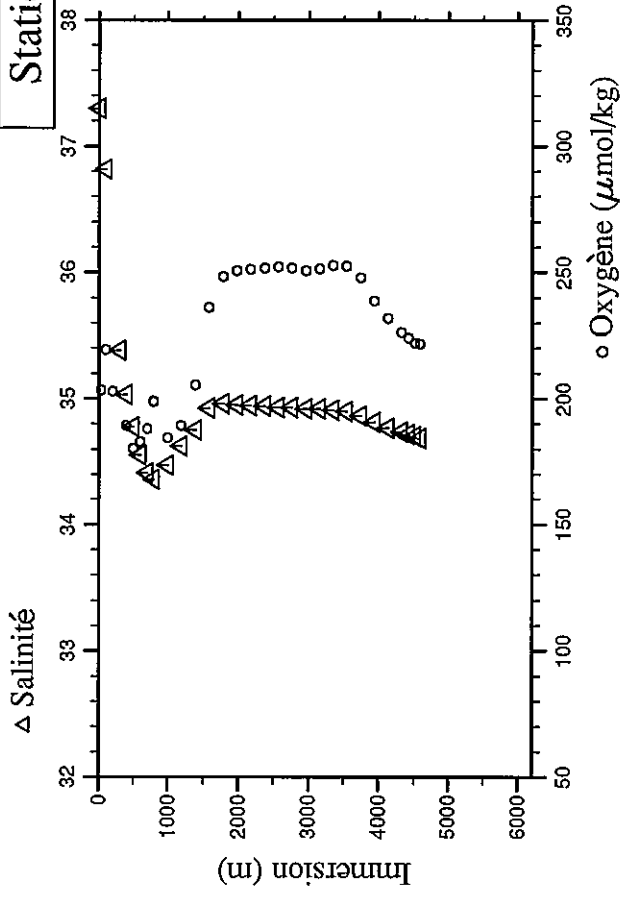
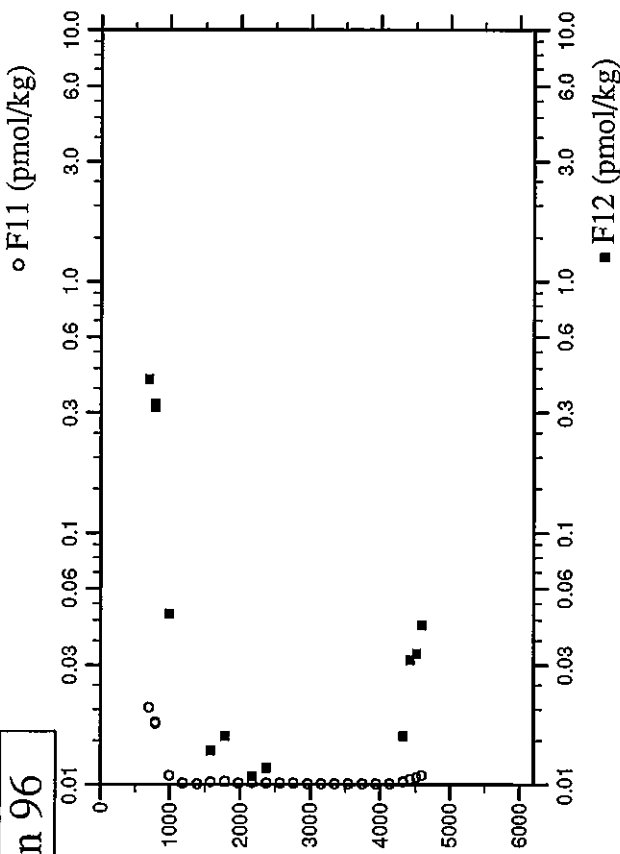
# Station 95



Station : 96 Campagne : CITHER 2  
 Date : 05-02-94 Heure : 22 h 35 mn  
 Position : S 21 31.07 W 31 27.29  
 Dernier niveau à : 4675  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.8	5.8	28.097	24.1175	37.299	197.9	0.04	0.108	1.2			2078.15	2454.5	8.386
31.7	31.5	27.592	24.3531	37.229	203.3	0.04	0.099	1.1			2078.61	2451.0	8.382
101.9	101.2	23.025	25.7378	36.815	219.2	0.04	0.117	1.2			2071.84	2423.6	8.355
201.8	200.5	18.476	26.8386	36.037	202.7	2.00	0.340	1.7			2088.80	2374.2	8.258
301.3	299.2	14.616	27.6779	35.385	206.2	7.90	0.642	3.3			2096.26	2334.0	8.180
401.3	398.4	11.837	28.4314	35.035	189.2	15.17	1.058	6.0			2119.47	2316.5	8.090
501.3	497.6	9.644	29.0901	34.780	180.2	20.86	1.446	9.9			2145.93	2308.1	8.025
603.8	599.2	7.281	29.7682	34.555	183.0	26.19	1.790	15.5		0.4069	2165.18	2300.9	7.951
701.9	696.4	5.410	30.3808	34.413	188.1	30.40	2.051	22.8	0.7206	0.0479	2182.79	2302.2	7.914
800.5	794.0	4.264	30.9386	34.362	198.8	32.16	2.130	29.8	0.5694	0.0068	2190.06	2306.4	7.906
801.0	794.5	4.265	30.9407	34.363	198.9	32.07	2.138	29.9	0.5813	0.0137	2307.6	2307.6	7.904
1000.4	991.8	3.521	32.0322	34.472	184.4	33.19	2.234	41.7	0.0853	0.0098	2321.9	2321.9	7.882
1201.3	1190.4	3.265	33.1014	34.628	189.2	31.27	2.086	44.9	0.0127	0.0068	2206.96	2321.9	7.882
1400.9	1387.5	3.148	34.1201	34.755	205.3	28.17	1.872	43.1	0.0098	0.0068	2213.92	2330.8	7.903
1599.5	1583.5	3.503	35.1021	34.925	236.0	22.28	1.459	25.2	0.0280	0.0137	2204.40	2337.0	7.933
1799.2	1780.4	3.434	36.0362	34.963	248.3	20.49	1.338	21.1	0.0280	0.0137	2174.02	2327.8	7.995
2001.4	1979.5	3.183	36.9697	34.951	250.7	20.49	1.342	23.6	0.0335	0.0156	2164.31	2327.0	8.014
2199.5	2174.4	3.003	37.8742	34.944	251.1	20.76	1.341	26.0	0.0159	0.0098	2166.39	2327.6	8.019
2399.9	2371.5	2.861	38.7828	34.940	251.7	20.74	1.348	27.7	0.0161	0.0117	2170.96	2333.8	8.019
2599.7	2567.7	2.742	39.6803	34.933	252.0	20.74	1.362	29.3	0.0133	0.0098	2170.98	2334.9	8.017
2800.6	2764.8	2.655	40.5750	34.929	251.7	21.03	1.370	30.8	0.0128	0.0098	2174.32	2337.3	8.019
3000.8	2961.1	2.540	41.4671	34.921	250.6	21.15	1.378	32.8	0.0072	0.0029	2175.93	2336.7	8.017
3198.8	3155.0	2.453	42.3449	34.921	251.4	21.24	1.383	34.1	0.0088	0.0039	2176.86	2335.3	8.014
3398.5	3350.5	2.332	43.2295	34.912	252.6	21.23	1.400	35.6	0.0078	0.0088	2178.30	2338.1	8.016
3598.9	3546.4	2.134	44.1216	34.899	252.3	21.95	1.420	40.4	0.0067	0.0068	2182.34	2343.7	8.009
3800.2	3743.1	1.803	45.0268	34.866	247.9	23.47	1.541	53.7	0.0071	0.0010	2194.57	2343.7	8.009
3997.5	3935.6	1.293	45.9287	34.813	238.6	26.28	1.743	75.5	0.0054	0.0000	2214.71	2360.0	7.965
4198.9	4132.0	0.896	46.8363	34.770	231.7	28.92	1.903	92.5	0.0100	0.0068	2231.24	2366.1	7.941
4399.0	4327.0	0.574	47.7282	34.736	226.2	30.62	2.021	105.3	0.0262	0.0156	2243.72	2369.5	7.919
4498.4	4423.8	0.362	48.1761	34.717	223.9	31.60	2.104	112.9	0.0511	0.0313	2250.58	2372.4	7.909
4597.6	4520.3	0.191	48.6198	34.701	221.9	32.37	2.151	119.1	0.0663	0.0333	2251.53	2373.8	7.902
4673.9	4594.6	0.082	48.9608	34.689	221.6	32.68	2.186	122.4	0.0833	0.0430	2254.94	2374.6	7.898

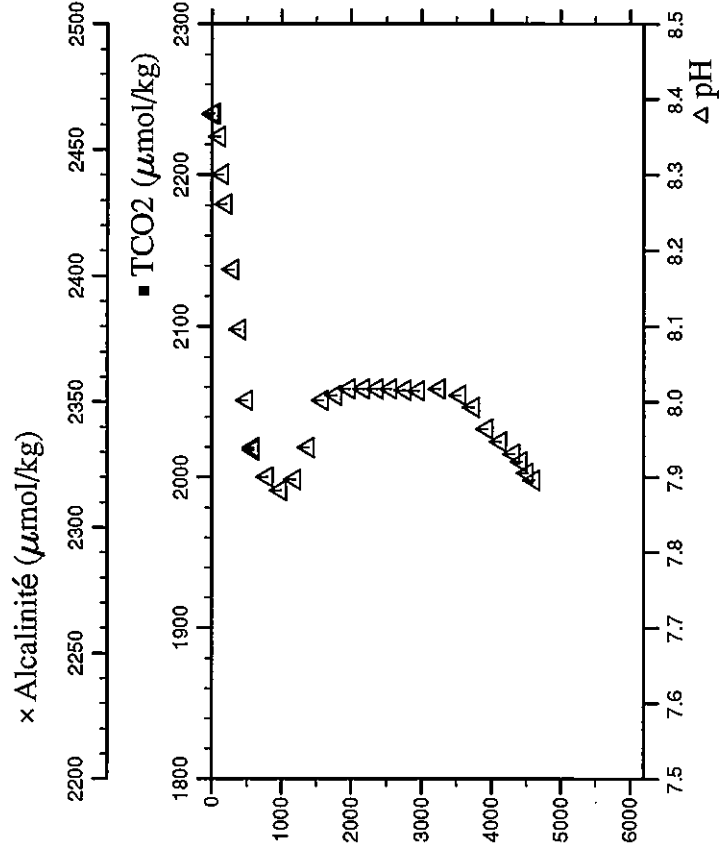
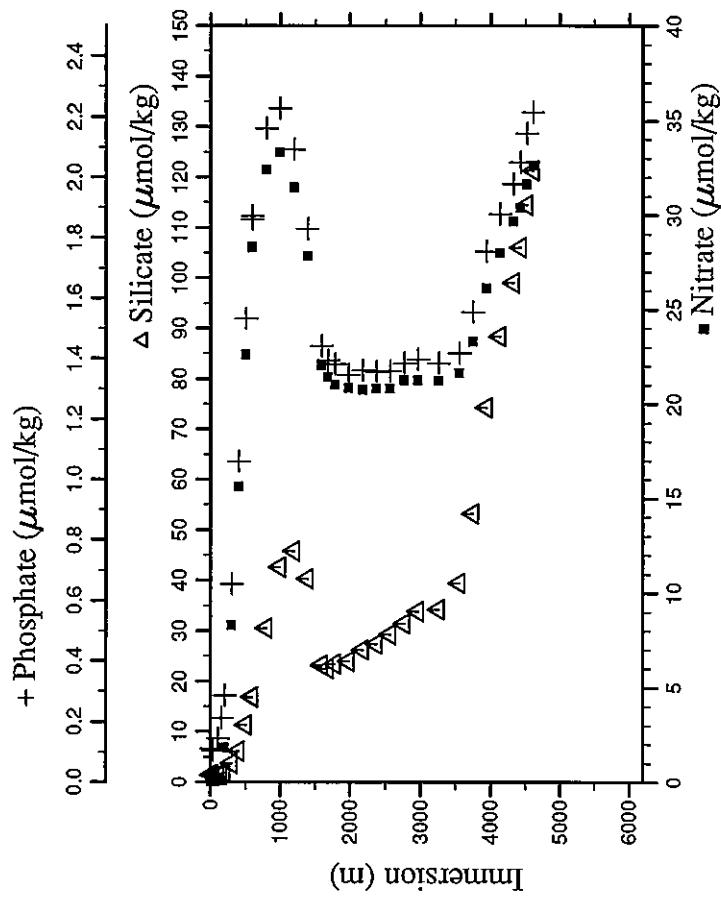
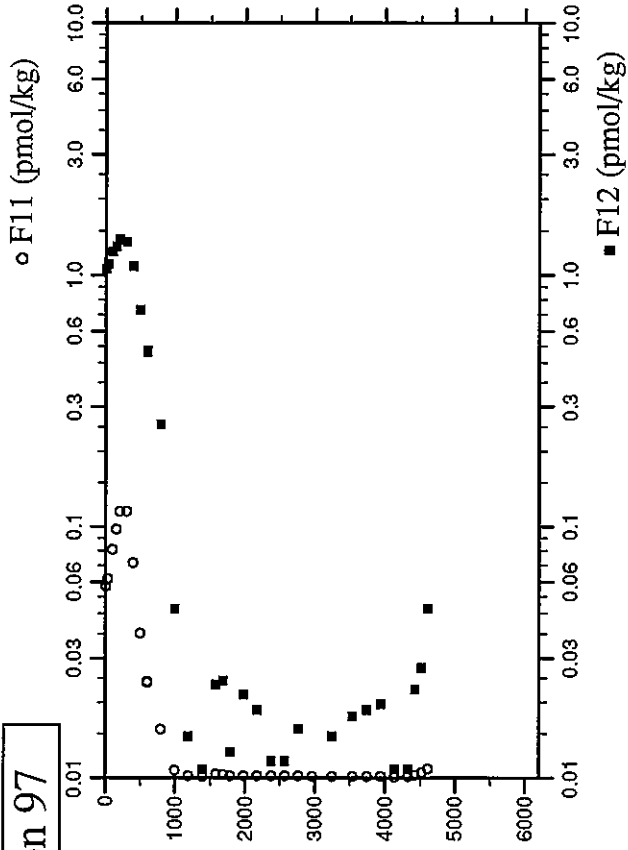
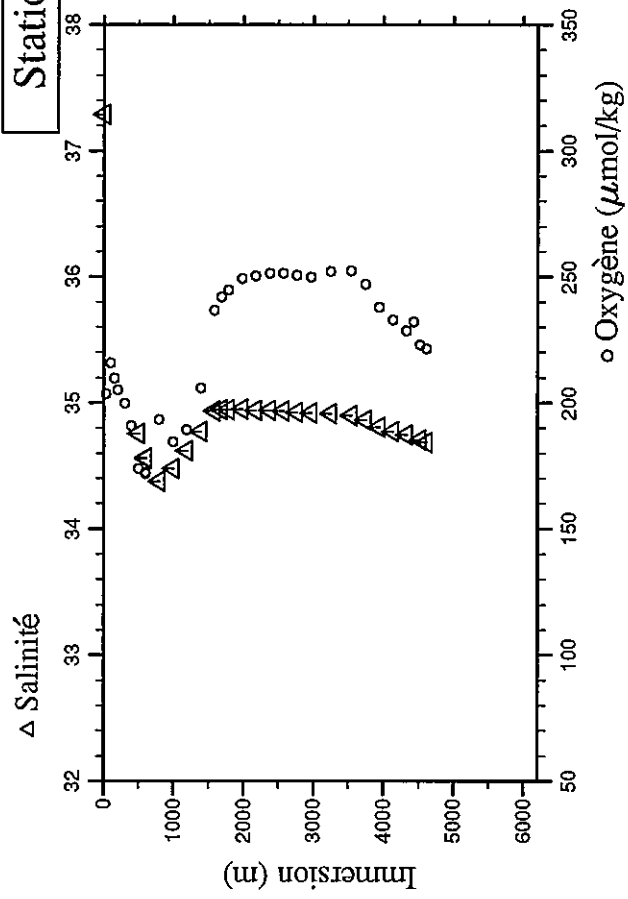
# Station 96



Station : 97 Campagne : CITHER 2  
 Date : 06-02-94 Heure : 3 h 36 mn  
 Position : S 21 15.45 W 31 13.39  
 Dernier niveau à : 4690  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
3.9	3.9	28.004	24.1310	37.289	197.3	0.04	0.110	1.5	1.7766	1.0581			8.380
30.7	30.5	27.050	24.5630	37.237	203.5	0.04	0.104	1.4	1.8470	1.1050			8.381
101.7	101.0	23.160	25.7457	36.867	215.8	0.08	0.144	1.5	2.1212	1.2410			8.351
150.9	149.9	20.718	26.3104	36.411	209.6	0.04	0.213	1.6	2.3088	1.2991			8.301
200.5	199.2	18.348	26.8202	35.984	205.2	1.83	0.286	1.8	2.4780	1.3865			8.262
300.4	298.3	14.618	27.6724	35.377	199.7	8.30	0.655	3.7	2.4770	1.3529			8.175
400.1	397.2	11.895	28.4189	35.032	190.8	15.64	1.060	6.2	1.9927	1.0804			8.096
501.4	497.7	9.324	29.1326	34.757	173.8	22.60	1.532	11.4	1.3413	0.7296			8.002
601.1	596.5	7.217	29.7716	34.563	172.2	28.35	1.871	16.9	0.8877	0.4969			7.936
601.6	597.0	7.192	29.7774	34.561	171.8	28.27	1.862	16.8	0.9005	0.5037			7.940
800.4	793.9	4.299	30.9448	34.376	193.4	32.39	2.161	30.6	0.4503	0.2553			7.901
1000.0	991.4	3.484	32.0375	34.477	184.4	33.33	2.228	42.6	0.0750	0.0470			7.883
1200.2	1189.3	3.223	33.0975	34.620	189.2	31.46	2.092	45.8	0.0179	0.0147			7.897
1400.3	1387.0	3.247	34.1220	34.775	205.8	27.82	1.829	40.4	0.0143	0.0108			7.940
1599.9	1583.9	3.613	35.0985	34.935	236.7	22.05	1.442	23.2	0.0354	0.0235			7.887
1700.2	1682.8	3.506	35.5705	34.948	242.0	21.43	1.394	22.6	0.0295	0.0244			8.002
1799.8	1781.0	3.374	36.0357	34.946	244.8	21.03	1.383	23.4	0.0218	0.0127			8.009
1999.6	1977.8	3.200	36.9588	34.951	249.3	20.84	1.347	23.9	0.0196	0.0215			8.018
2200.2	2175.2	3.010	37.8758	34.943	250.3	20.75	1.360	26.2	0.0211	0.0186			8.018
2399.9	2371.5	2.886	38.7788	34.939	251.3	20.80	1.357	27.4	0.0189	0.0117			8.018
2600.1	2568.1	2.764	39.6790	34.935	251.3	20.80	1.359	29.3	0.0172	0.0117			8.016
2801.0	2765.3	2.636	40.5785	34.927	250.5	21.25	1.398	31.5	0.0193	0.0156			8.015
2998.5	2958.9	2.530	41.4565	34.920	249.8	21.25	1.384	33.9	0.0110	0.0059			8.018
3299.3	3253.5	2.410	42.7885	34.916	252.2	21.21	1.385	34.3	0.0133	0.0147			8.009
3598.8	3546.4	2.166	44.1184	34.898	252.3	21.62	1.418	39.5	0.0161	0.0176			7.993
3799.2	3742.2	1.789	45.0236	34.863	247.1	23.29	1.554	53.2	0.0127	0.0186			7.964
3998.0	3936.2	1.284	45.9340	34.811	238.0	26.13	1.756	74.3	0.0135	0.0196			7.947
4197.5	4130.7	0.942	46.8265	34.775	232.9	28.00	1.877	88.4	0.0078	0.0108			7.931
4397.9	4326.0	0.689	47.7126	34.749	228.5	29.66	1.977	99.1	0.0157	0.0108			7.921
4497.7	4423.2	0.490	48.1617	34.717	232.1	30.38	2.044	106.1	0.0246	0.0225			7.906
4598.4	4521.2	0.268	48.6168	34.709	222.9	31.62	2.144	114.5	0.0514	0.0274			7.906
4689.3	4609.6	0.060	49.0288	34.689	221.4	32.61	2.215	121.3	0.0877	0.0469			7.896

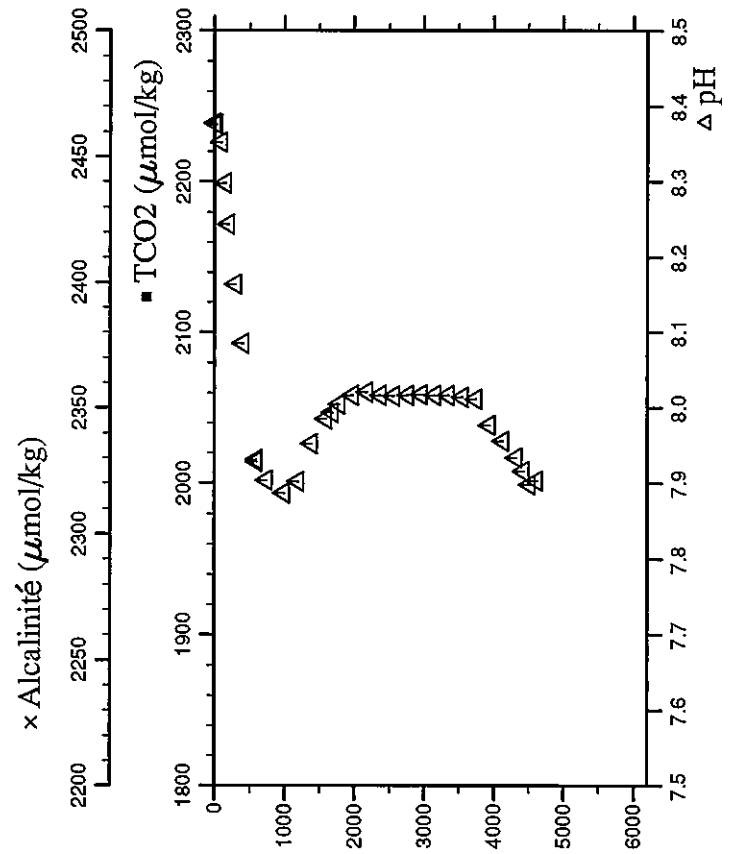
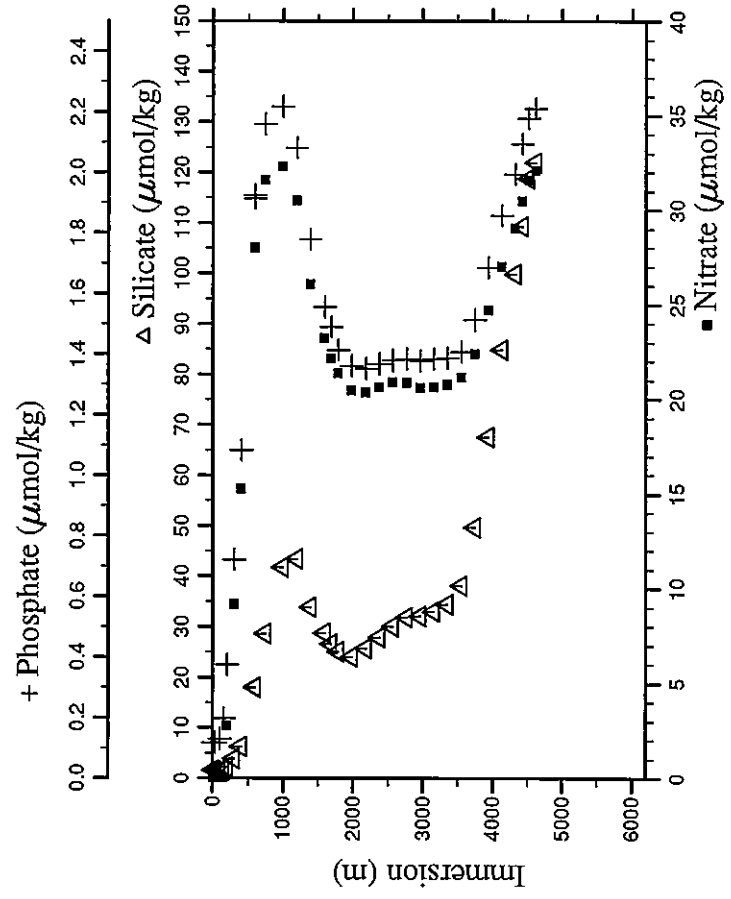
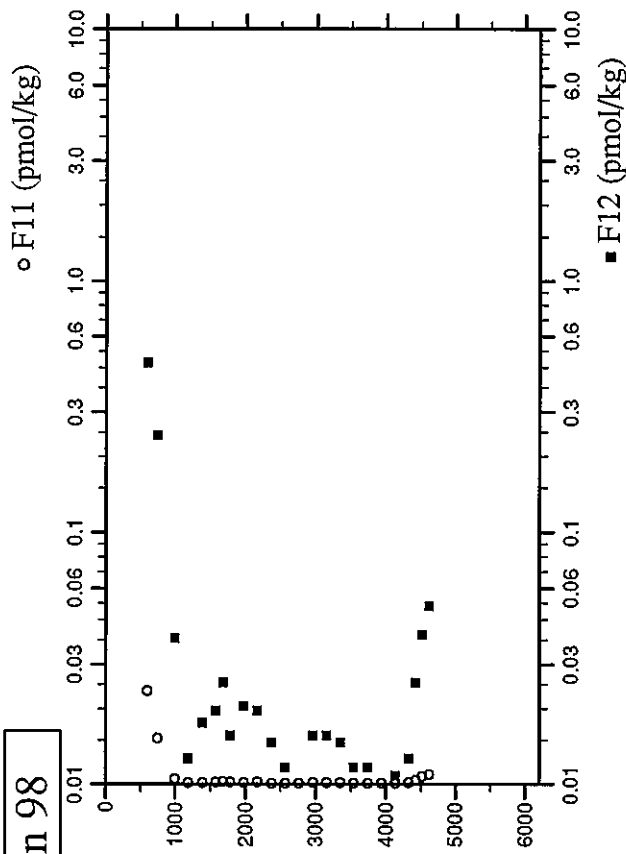
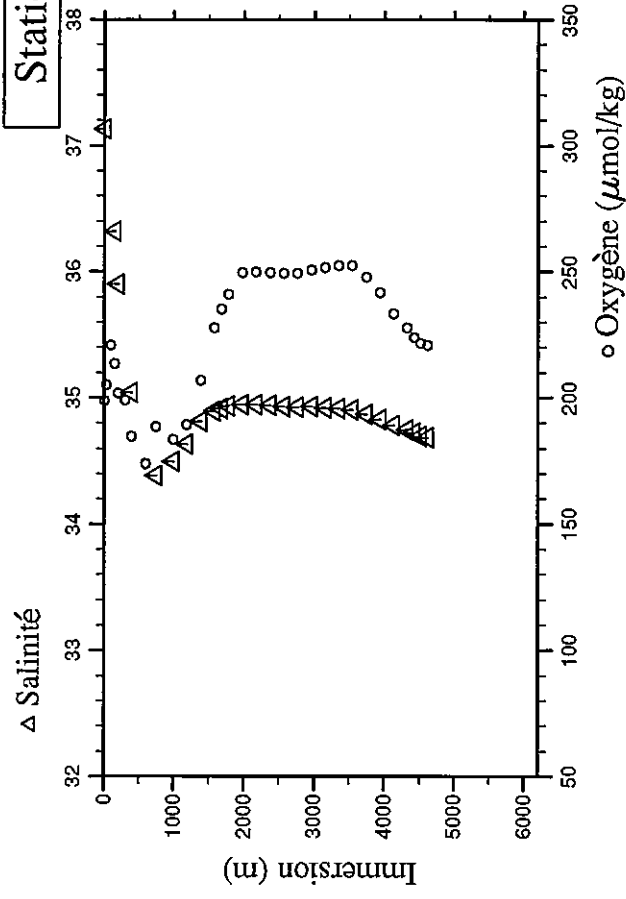
# Station 97



Station : 98 Campagne : CITHER 2  
 Date : 06-02-94 Heure : 8 h 34 mn  
 Position : S 21 0.13 W 30 59.87  
 Dernier niveau à : 4708  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POP. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- um/kg	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.2	7.2	27.779	24.1012	37.134	198.8	0.04	0.117	1.6	0.8700	0.4705			8.378
31.2	31.0	27.534	24.2763	37.090	205.0	0.04	0.117	1.4	0.4286	0.2416			8.376
101.2	100.6	22.703	25.7710	36.721	220.8	0.04	0.130	1.4	0.0470	0.0381			8.352
152.6	151.6	20.093	26.3964	36.318	213.4	0.04	0.198	1.6	0.0134	0.0127			8.298
201.8	200.5	17.761	26.8957	35.902	201.8	2.79	0.376	2.2	0.0120	0.0176			8.244
301.5	299.4	14.080	27.7408	35.302	198.9	9.20	0.721	3.9	0.0271	0.0254			8.164
400.9	398.0	11.933	28.4150	35.043	184.7	15.29	1.084	6.3	0.0183	0.0156			8.085
601.6	597.0	6.710	29.8204	34.531	174.0	28.05	1.915	18.0	0.0196	0.0196			7.931
601.8	597.2	6.703	29.8156	34.523	173.9	28.00	1.924	18.1	0.0168	0.0205			7.929
751.2	745.2	4.503	30.7006	34.387	188.6	31.58	2.160	28.7	0.0135	0.0147			7.904
1000.6	992.0	3.504	32.0558	34.498	183.5	32.31	2.218	41.8	0.0168	0.0196			7.887
1200.2	1189.4	3.328	33.0939	34.638	189.3	30.50	2.081	43.4	0.0212	0.0254			7.902
1401.4	1388.1	3.447	34.1131	34.812	206.8	26.09	1.779	33.9	0.0183	0.0156			7.952
1599.6	1583.7	3.438	35.0842	34.895	227.8	23.25	1.555	28.8	0.0196	0.0196			7.985
1699.8	1682.5	3.349	35.5605	34.918	235.1	22.17	1.491	26.6	0.0168	0.0205			7.994
1799.5	1780.7	3.191	36.0281	34.935	241.0	21.38	1.415	25.1	0.0196	0.0196			8.005
2001.0	1979.2	3.040	36.9640	34.948	249.7	20.46	1.360	24.1	0.0196	0.0196			8.017
2199.0	2174.0	2.893	37.8668	34.946	249.9	20.38	1.353	25.7	0.0094	0.0147			8.017
2399.9	2371.5	2.755	38.7757	34.940	249.6	20.63	1.367	27.9	0.0093	0.0117			8.016
2599.2	2567.3	2.649	39.6739	34.932	249.2	20.93	1.381	30.0	0.0071	0.0098			8.017
2799.9	2764.2	2.560	40.5715	34.928	249.2	20.89	1.385	31.8	0.0156	0.0156			8.018
2999.4	2959.8	2.362	41.4594	34.929	250.6	20.60	1.379	32.1	0.0135	0.0156			8.017
3198.6	3155.0	2.470	42.3421	34.923	251.6	20.64	1.385	33.0	0.0129	0.0147			8.017
3398.4	3350.5	2.201	43.2263	34.918	252.4	20.77	1.386	34.4	0.0100	0.0147			8.014
3598.9	3546.5	1.870	44.1147	34.903	252.3	21.14	1.408	38.1	0.0093	0.0117			8.012
3799.2	3742.2	1.442	45.0150	34.872	247.9	22.40	1.514	49.6	0.0059	0.0117			7.977
3999.9	3938.1	1.034	45.9226	34.828	241.6	24.72	1.685	67.5	0.0081	0.0068			7.956
4199.7	4133.0	0.675	46.8258	34.785	233.3	27.02	1.856	84.9	0.0155	0.0108			7.934
4399.0	4327.1	0.426	47.7167	34.747	227.6	29.04	1.994	99.8	0.0402	0.0127			7.916
4498.4	4423.9	0.164	48.1694	34.724	223.8	30.49	2.094	109.3	0.0710	0.0254			7.898
4598.1	4521.0	0.038	48.6288	34.698	221.5	31.58	2.178	118.8	0.0391	0.0391			7.903
4702.5	4622.5		49.0880	34.688	220.9	32.10	2.211	121.9	0.0509	0.0509			

# Station 98

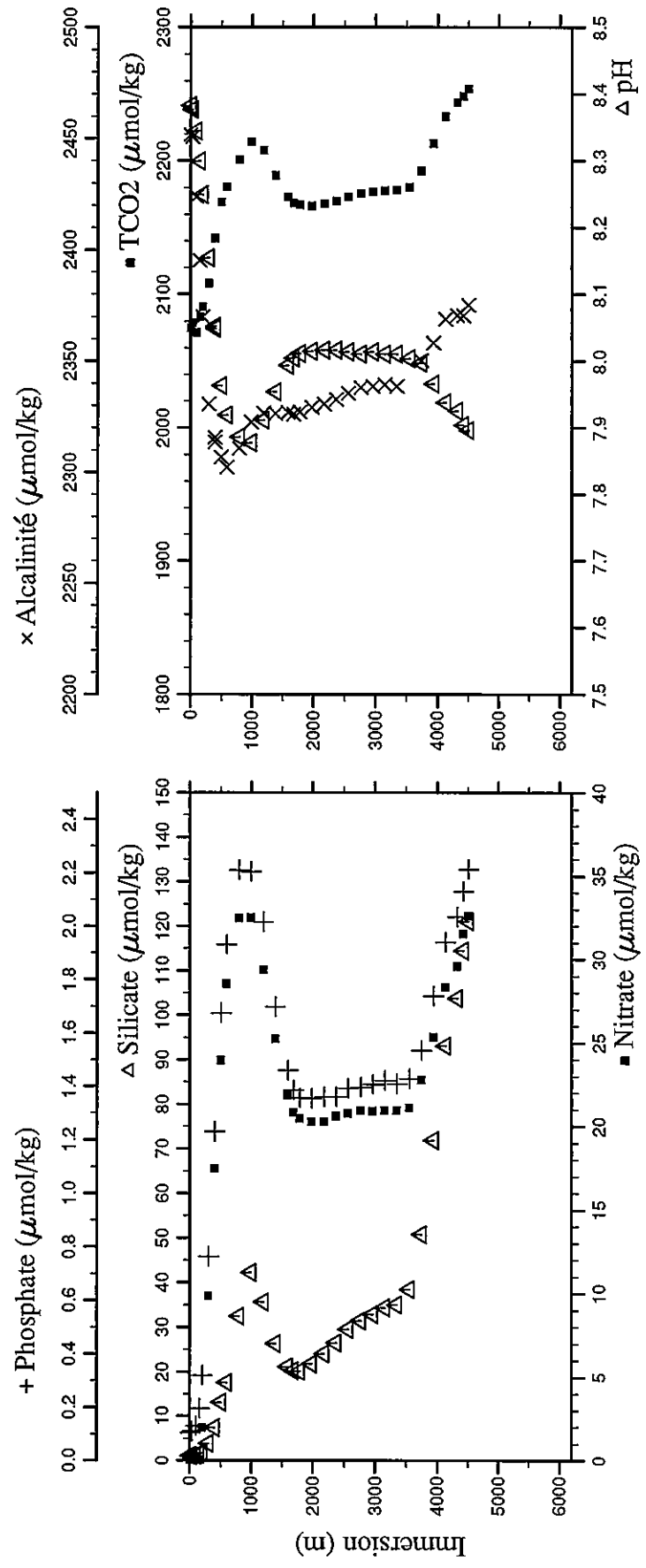
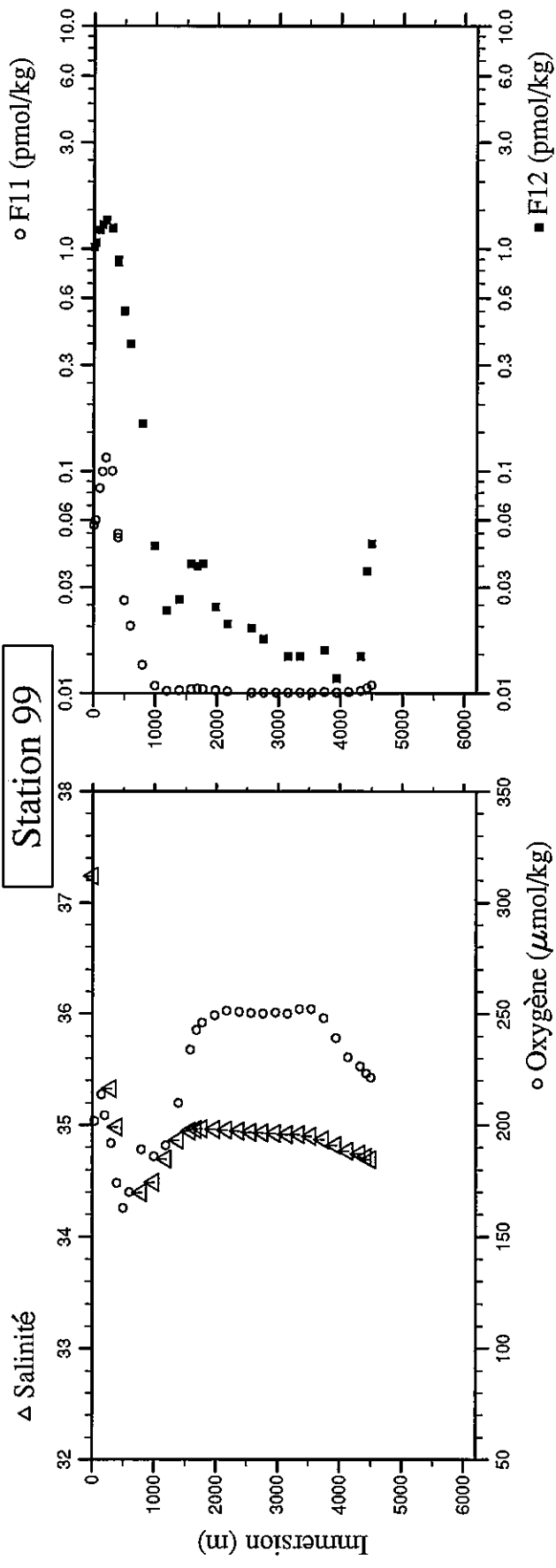


Station : 99 Campagne : CITHR 2  
 Date : 06-02-94 Heure : 13 h 40 mn  
 Position : S 20 39.87 W 30 58.69  
 Dernier niveau à : 4585  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POP. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.0	4.0	28.077	24.0729	37.241	198.0	r	0.105	1.1	1.7636	1.0133	2074.81	2451.7	8.383
30.4	30.2	27.762	24.2954	37.219	201.9	r	0.111	1.1	1.8168	1.0630	2078.91	2450.5	8.377
100.3	99.7	22.682	25.7593	36.736	221.2	r	0.130	1.2	2.1559	1.2197	2071.13	2423.9	8.345
150.0	149.0	20.495	26.3205	36.345	213.8	r	0.195	1.3	2.3280	1.2874	2083.05	2395.1	8.300
201.6	200.3	18.019	26.8705	35.957	204.2	r	0.321	1.7	2.4760	1.3484	2090.36	2369.7	8.250
300.3	298.2	14.156	27.7309	35.326	191.9	r	0.764	3.9	2.3342	1.2425	2108.31	2330.5	8.155
400.4	397.6	11.401	28.4733	34.983	174.0	r	1.230	7.6	1.6317	0.8683	2141.93	2315.7	8.049
400.7	397.9	11.412	28.4712	34.982	174.0	r	1.231	7.4	1.6755	0.8888	2141.93	2313.5	8.052
500.9	497.2	8.867	29.1825	34.717	163.0	r	1.674	13.1	0.9746	0.5242	2169.37	2306.8	7.963
600.1	595.5	6.826	29.8057	34.541	170.0	r	1.931	17.6	0.7060	0.3736	2180.77	2302.1	7.919
800.8	794.3	4.116	30.9825	34.396	189.0	r	2.211	32.5	0.2993	0.1634	2200.91	2310.8	7.886
1000.7	992.2	3.490	32.0498	34.489	185.9	r	2.204	42.3	0.0792	0.0460	2214.11	2322.5	7.878
1399.6	1386.3	3.680	33.0910	34.698	190.8	r	2.015	35.7	0.0238	0.0235	2207.71	2326.6	7.912
1599.6	1583.7	3.789	34.0967	34.864	209.9	r	1.698	26.3	0.0325	0.0264	2189.28	2326.2	7.954
1701.0	1683.7	3.647	35.0776	34.963	233.7	r	1.461	21.1	0.0447	0.0381	2173.05	2326.7	7.994
1798.6	1779.9	3.563	36.0178	34.966	242.6	r	1.387	20.2	0.0465	0.0372	2168.57	2326.0	8.005
1999.6	1977.9	3.335	36.9453	34.962	249.2	r	1.357	20.1	0.0430	0.0381	2167.04	2327.0	8.012
2199.4	2174.5	3.119	37.8611	34.954	251.3	r	1.355	21.8	0.0298	0.0244	2166.15	2329.1	8.015
2399.5	2371.2	2.948	38.7705	34.946	250.8	r	1.360	24.1	0.0214	0.0205	2168.00	2330.5	8.017
2599.7	2567.8	2.774	39.6760	34.935	250.3	r	1.361	26.5	0.0108	0.0196	2170.20	2332.6	8.017
2799.8	2784.2	2.651	40.5701	34.931	250.0	r	1.393	29.5	0.0104	0.0176	2173.09	2335.5	8.014
2999.5	2960.0	2.543	41.4608	34.925	250.5	r	1.397	31.5	0.0104	0.0176	2175.48	2338.0	8.011
3199.8	3156.2	2.459	42.3467	34.918	250.0	r	1.408	32.9	0.0062	0.0078	2177.04	2338.4	8.014
3399.1	3351.2	2.352	43.2306	34.915	252.2	r	1.423	34.4	0.0073	0.0147	2177.88	2339.3	8.011
3599.8	3547.5	2.203	44.1182	34.902	252.1	r	1.410	35.0	0.0078	0.0147	2177.96	2338.4	8.011
3799.0	3742.1	1.854	45.0161	34.872	248.0	r	1.429	38.4	0.0106	0.0068	2180.38	2338.4	8.004
3999.0	3937.3	1.353	45.9296	34.820	239.1	r	1.535	50.8	0.0133	0.0156	2192.41	2350.1	7.997
4198.0	4131.4	0.866	46.8361	34.767	230.6	r	1.738	71.9	0.0066	0.0117	2213.08	2358.2	7.966
4397.2	4325.5	0.571	47.7231	34.741	226.5	r	1.939	93.1	0.0154	0.0088	2233.26	2368.8	7.938
4498.4	4424.0	0.291	48.1859	34.710	223.1	r	2.034	103.8	0.0278	0.0147	2243.69	2370.6	7.925
4580.1	4503.5	0.098	48.5569	34.693	221.3	r	2.131	114.5	0.0567	0.0352	2248.37	2370.2	7.904
						r	2.213	121.1	0.0824	0.0469	2253.92	2375.0	7.896



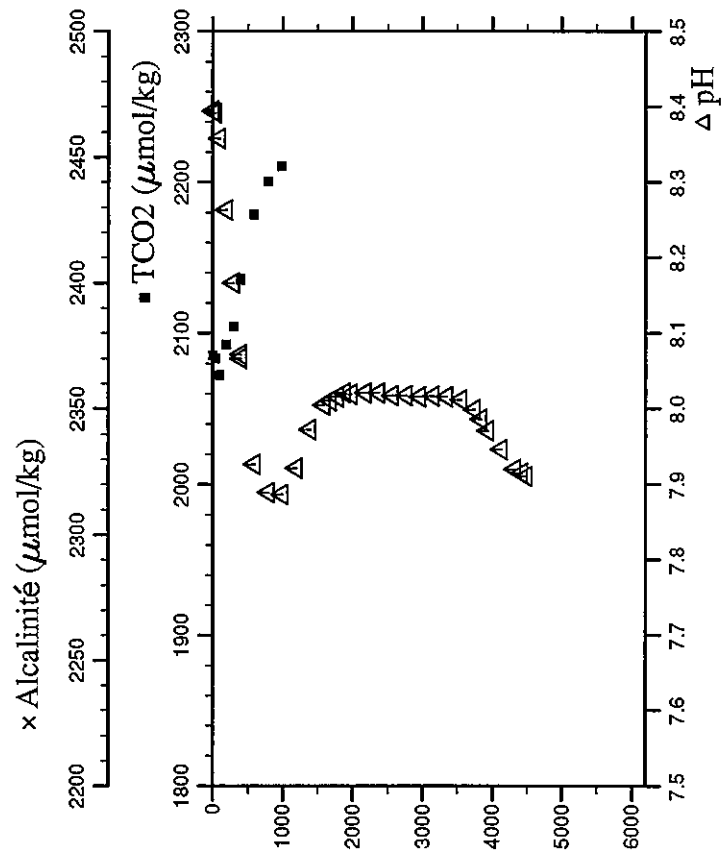
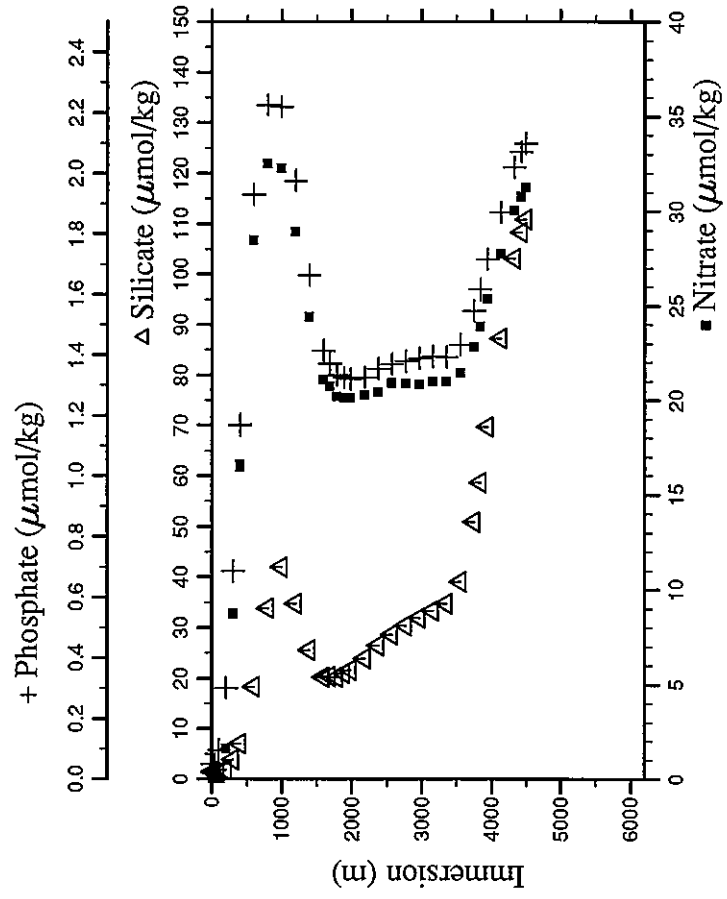
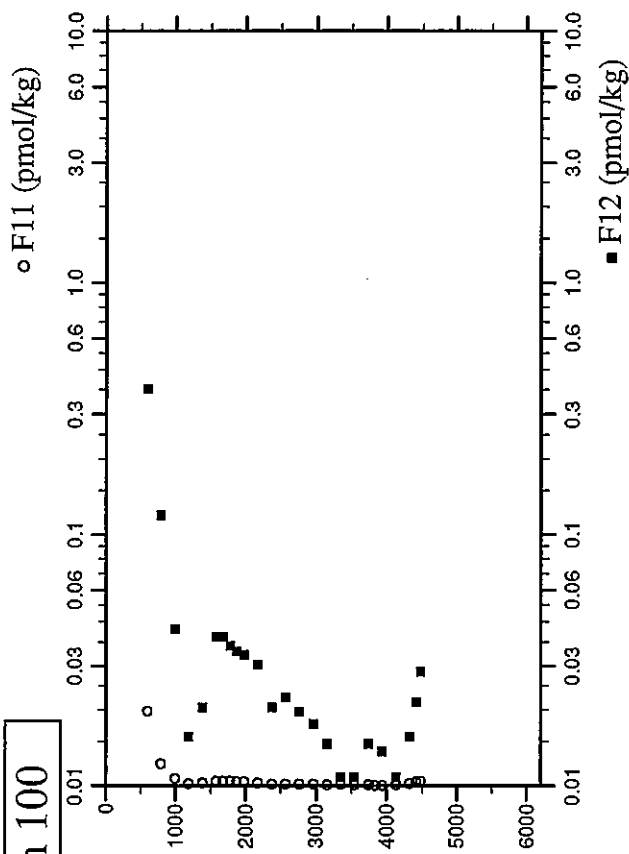
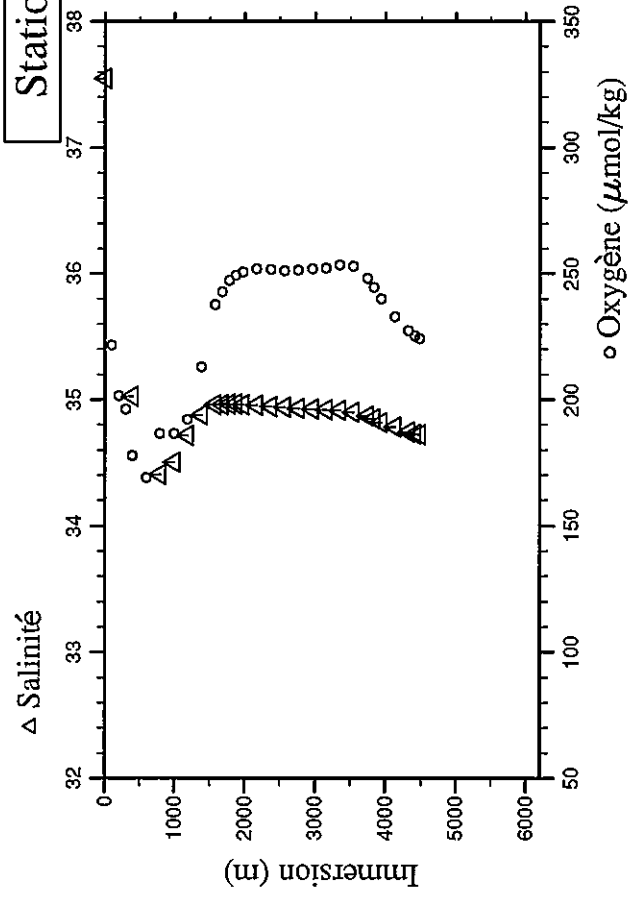
# Station 99



$\blacksquare$  Nitrate ( $\mu$ mol/kg)

Station : 100 Campagne : CITHER 2  
 Date : 06-02-94 Heure : 18 h 38 mn  
 Position : S 20 20.04 W 30 57.68  
 Dernier niveau à : 4563  
 Nb prélèvements : 32

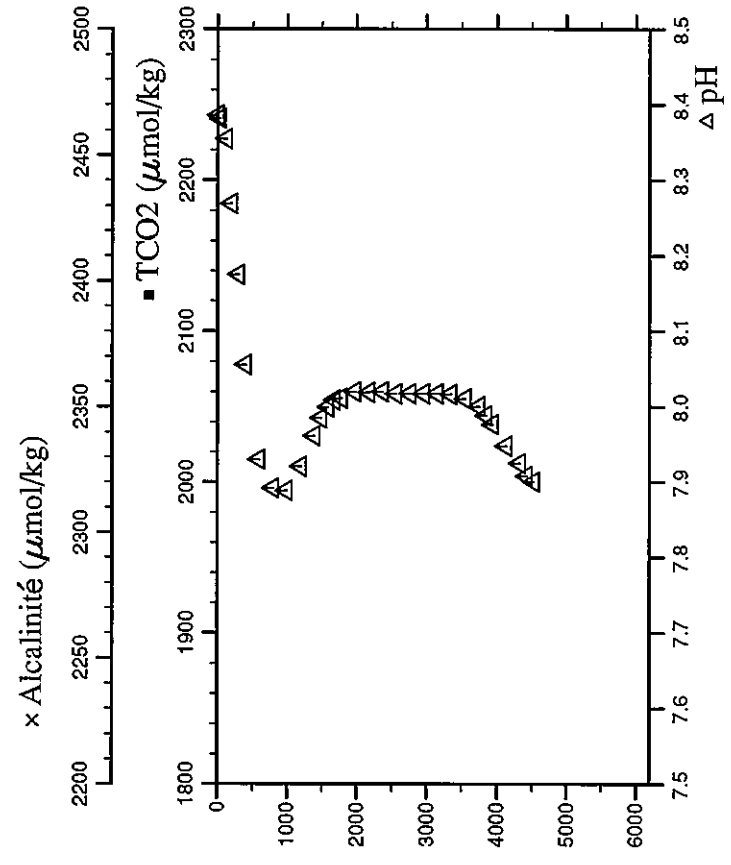
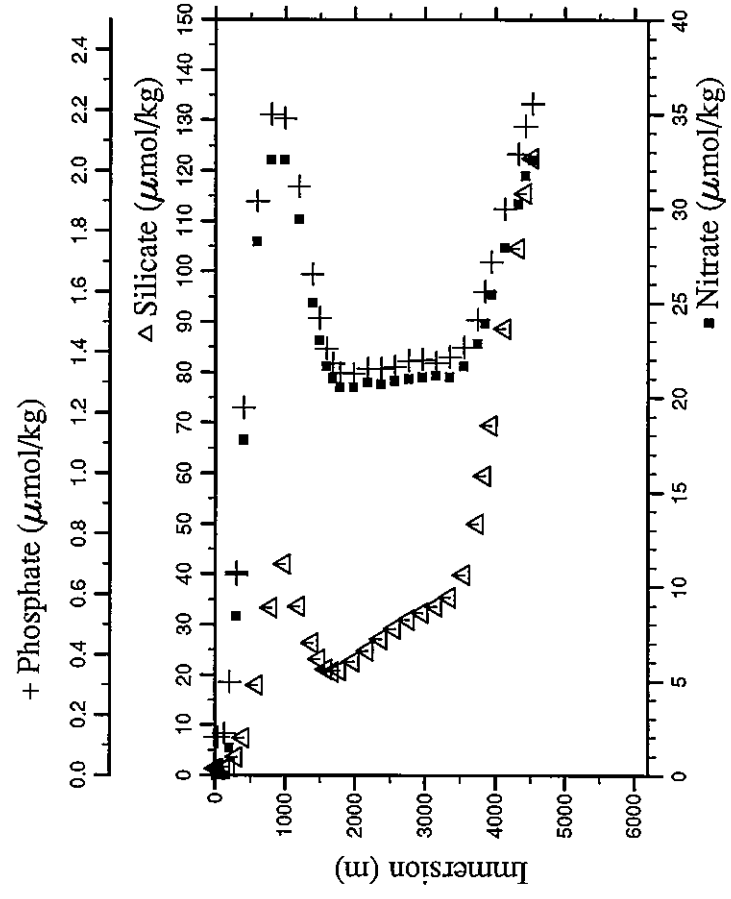
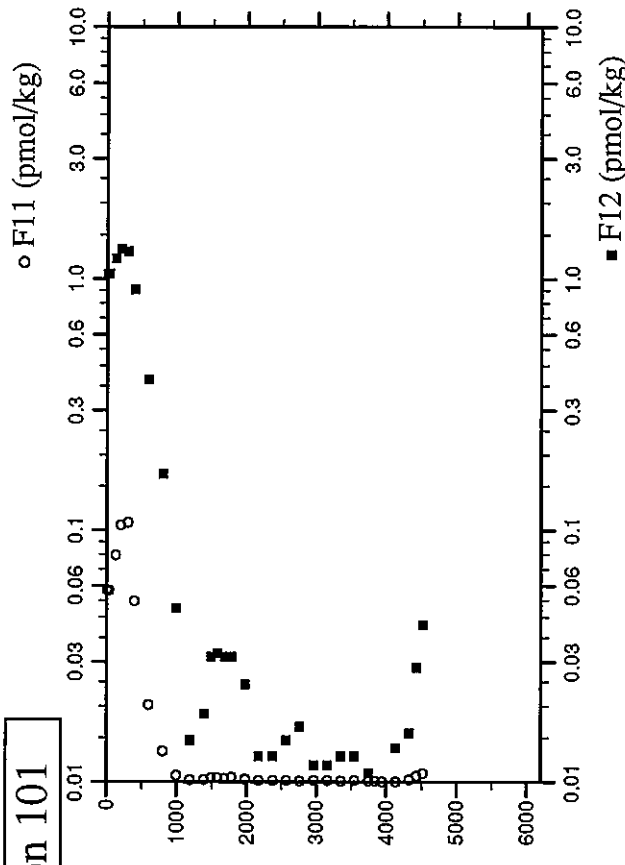
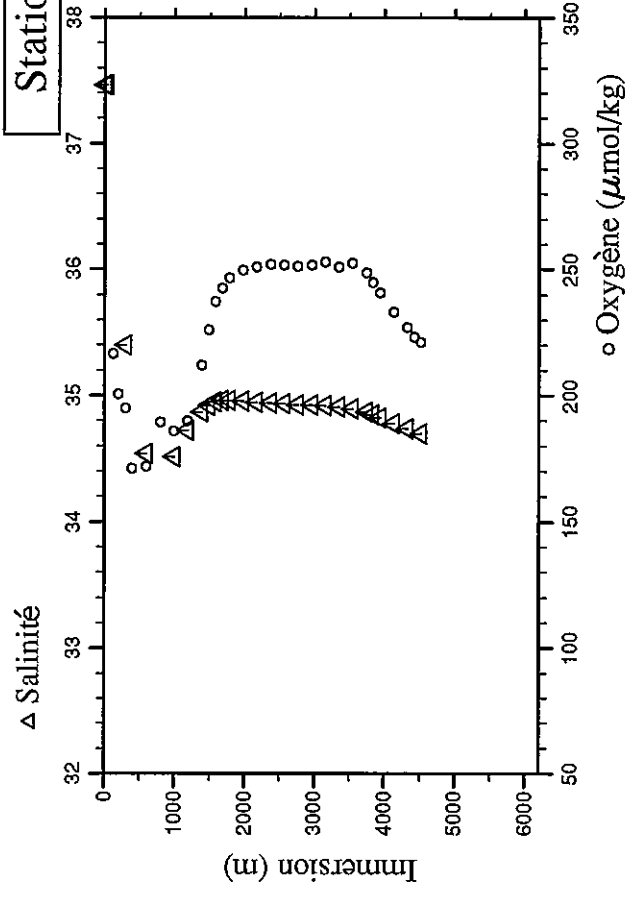
PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI-	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
3.6	3.6	28.259	24.2458	37.552	197.1	0.04	0.049	1.4			2085.30		8.395
41.4	41.1	28.036	24.4714	37.524	199.2	0.04	0.049	1.3			2083.13		8.392
101.0	100.4	23.354	25.6763	36.857	221.5	0.04	0.096	1.3			2072.00		8.358
200.7	199.4	18.777	26.7727	36.090	201.5	1.63	0.302	1.8			2092.69		8.263
301.2	299.1	14.315	27.7196	35.365	196.1	8.76	0.687	3.9			2104.18		8.167
400.8	398.0	11.745	28.4420	35.021	177.5	16.61	1.170	7.1			2136.00		8.067
401.1	398.3	11.770	28.4375	35.025	177.9	16.48	1.166	7.1			2135.26		8.072
601.2	596.6	6.895	29.8085	34.549	169.1	28.49	1.932	18.3	0.6878	0.3785	2178.51		7.927
800.0	793.6	4.099	30.9896	34.406	186.4	32.50	2.225	33.9	0.2026	0.1193	2200.49		7.890
1000.7	992.2	3.470	32.0632	34.503	186.4	32.26	2.219	42.0	0.0653	0.0421	2210.56		7.887
1201.1	1190.3	3.732	33.1063	34.717	192.2	28.93	1.975	34.7	0.0206	0.0156			7.922
1400.1	1386.9	3.923	34.1092	34.879	212.9	24.39	1.663	25.6	0.0243	0.0205			7.973
1599.9	1584.0	3.793	35.0870	34.959	237.7	21.07	1.413	20.3	0.0433	0.0391			8.005
1700.0	1682.7	3.658	35.5593	34.961	242.8	20.74	1.371	20.4	0.0427	0.0391			8.011
1800.7	1782.0	3.543	36.0311	34.968	247.4	20.20	1.334	20.3	0.0426	0.0362			8.016
1900.5	1880.3	3.431	36.4930	34.966	249.3	20.13	1.324	21.0	0.0390	0.0342			8.021
2000.5	1978.8	3.347	36.9503	34.963	250.5	20.13	1.321	21.7	0.0368	0.0332			8.019
2199.8	2174.9	3.155	37.8610	34.957	251.9	20.27	1.326	23.9	0.0265	0.0303			8.021
2399.1	2370.8	2.964	38.7662	34.946	251.5	20.45	1.355	26.5	0.0167	0.0205			8.021
2599.7	2567.9	2.815	39.6711	34.939	251.1	20.92	1.369	28.7	0.0153	0.0225			8.018
2799.9	2764.3	2.678	40.5691	34.931	251.4	20.88	1.380	30.4	0.0109	0.0196			8.018
2999.0	2959.6	2.573	41.4570	34.927	251.8	20.85	1.388	31.9	0.0112	0.0176			8.016
3198.6	3155.1	2.463	42.3425	34.923	252.2	20.98	1.394	33.3	0.0085	0.0147			8.017
3398.5	3350.7	2.327	43.2326	34.915	253.4	20.99	1.393	34.8	0.0124	0.0108			8.016
3599.0	3546.8	2.153	44.1209	34.899	252.9	21.47	1.433	39.1	0.0095	0.0108			8.012
3798.6	3741.8	1.832	45.0168	34.870	248.0	22.83	1.548	50.9	0.0057	0.0147			7.999
3899.2	3840.0	1.644	45.4698	34.851	244.4	23.89	1.617	58.6	0.0029	0.0088			7.986
3999.0	3937.4	1.387	45.9258	34.821	239.9	25.37	1.717	69.7	0.0045	0.0137			7.971
4197.4	4130.9	0.983	46.8202	34.781	232.8	27.76	1.871	87.2	0.0056	0.0108			7.946
4398.7	4327.0	0.615	47.7222	34.743	227.3	30.03	2.019	103.2	0.0227	0.0156			7.920
4497.2	4422.9	0.475	48.1604	34.729	225.2	30.79	2.071	108.3	0.0376	0.0215			7.915
4561.0	4485.0	0.394	48.4421	34.722	224.1	31.27	2.098	110.9	0.0438	0.0284			7.911



Station : 101 Campagne : CITHER 2  
 Date : 06-02-94 Heure : 23 h 34 mn  
 Position : S 20 0.09 W 30 56.57  
 Dernier niveau à : 4599  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.8	5.8	27.869	24.3138	37.461	197.9	r 0.00	0.126	1.3	1.7733	1.0414			8.386
31.3	31.1	27.824	24.4385	37.462	198.1	r 0.00	0.126	1.2	1.7767	1.0434			8.382
126.1	125.3	23.510	25.8034	36.936	r 216.6	r 0.00	0.138	1.3	2.1028	1.2058			8.355
201.2	199.9	19.433	26.6999	36.178	r 200.6	r 1.44	0.311	1.7	2.3793	1.3169			8.269
302.0	299.9	14.683	27.6748	35.401	194.8	8.43	0.672	3.6	2.4027	1.2864			8.175
302.6	300.5	14.669	27.6793	35.400	197.2	r 8.43	0.664	3.6	2.4040	1.2825			8.175
401.2	398.4	11.568	28.4623	35.002	r 171.1	r 17.75	1.218	7.4	1.6752	0.9044			8.056
601.4	596.9	6.821	29.8123	34.537	171.7	28.25	1.900	18.0	0.7125	0.3981			7.930
801.3	794.9	4.137	30.9842	34.389	r 189.2	r 32.57	2.185	33.3	0.2844	0.1673			7.892
1001.6	993.1	3.470	32.0754	34.512	185.7	32.57	2.172	42.0	0.0636	0.0489			7.889
1200.3	1189.5	3.803	33.1018	34.722	189.7	29.41	1.947	33.6	0.0178	0.0147			7.921
1399.3	1386.1	3.898	34.1014	34.869	211.9	25.03	1.657	26.3	0.0197	0.0186			7.962
1500.5	1486.0	3.855	34.6047	34.920	226.0	23.01	1.514	23.2	0.0357	0.0313			7.985
1600.9	1585.0	3.754	35.0919	34.950	237.2	21.65	1.412	21.1	0.0397	0.0323			8.000
1701.2	1683.9	3.632	35.5673	34.959	242.5	20.98	1.363	20.6	0.0332	0.0313			8.009
1800.2	1781.5	3.529	36.0287	34.962	246.4	20.53	1.331	20.9	0.0411	0.0313			8.012
1999.8	1978.1	3.298	36.9497	34.957	249.5	20.55	1.330	22.7	0.0286	0.0244			8.020
2200.7	2175.8	3.097	37.8683	34.948	250.8	20.81	1.346	24.9	0.0151	0.0127			8.019
2399.9	2371.7	2.926	38.7732	34.941	251.8	20.72	1.347	29.2	0.0166	0.0127			8.020
2599.7	2567.9	2.791	39.6742	34.937	251.7	20.89	1.353	27.1	0.0149	0.0147			8.018
2799.3	2763.8	2.668	40.5681	34.928	251.1	20.98	1.371	30.9	0.0091	0.0166			8.018
2998.8	2959.4	2.557	41.4581	34.924	251.6	21.10	1.376	32.4	0.0118	0.0117			8.018
3199.3	3155.8	2.445	42.3483	34.919	252.8	21.14	1.366	33.6	0.0140	0.0117			8.018
3397.9	3350.2	2.322	43.2295	34.913	250.9	21.10	1.385	35.4	0.0099	0.0127			8.017
3598.9	3546.8	2.148	44.1217	34.897	252.3	21.65	1.417	39.9	0.0109	0.0127			8.011
3798.9	3742.2	1.870	45.0156	34.871	248.5	22.84	1.508	50.0	0.0068	0.0108			8.001
3899.4	3840.3	1.649	45.4703	34.849	244.7	23.94	1.600	59.6	0.0063	0.0098			7.989
3999.6	3938.1	1.425	45.9252	34.826	240.8	25.45	1.698	69.5	0.0037	0.0078			7.977
4199.3	4132.8	1.000	46.8262	34.780	233.0	27.93	1.874	88.6	0.0043	0.0137			7.948
4398.9	4327.3	0.618	47.7229	34.740	226.9	30.25	2.056	104.5	0.0204	0.0156			7.925
4497.6	4423.4	0.329	48.1820	34.711	r 223.1	31.73	2.147	115.5	0.0528	0.0284			7.908
4601.3	4524.4	0.128	48.6449	34.695	221.2	32.57	2.221	122.5	0.0797	0.0421			7.901

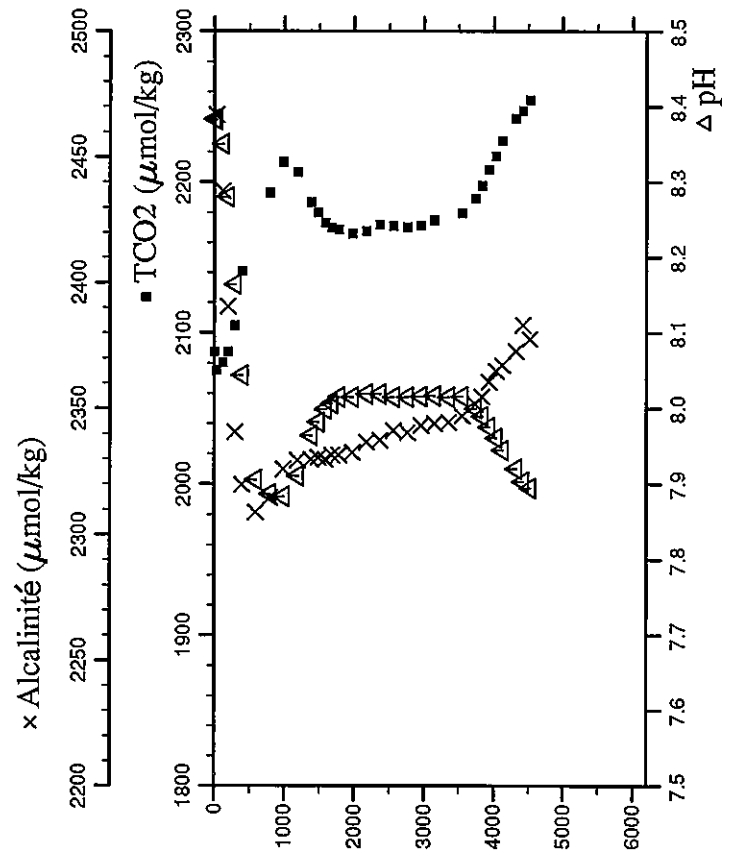
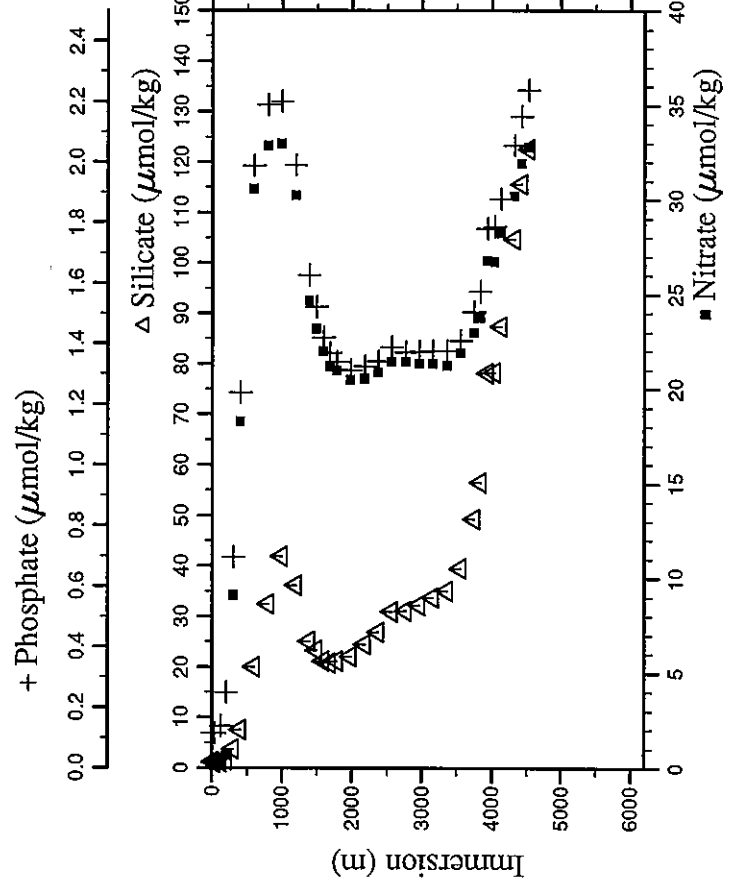
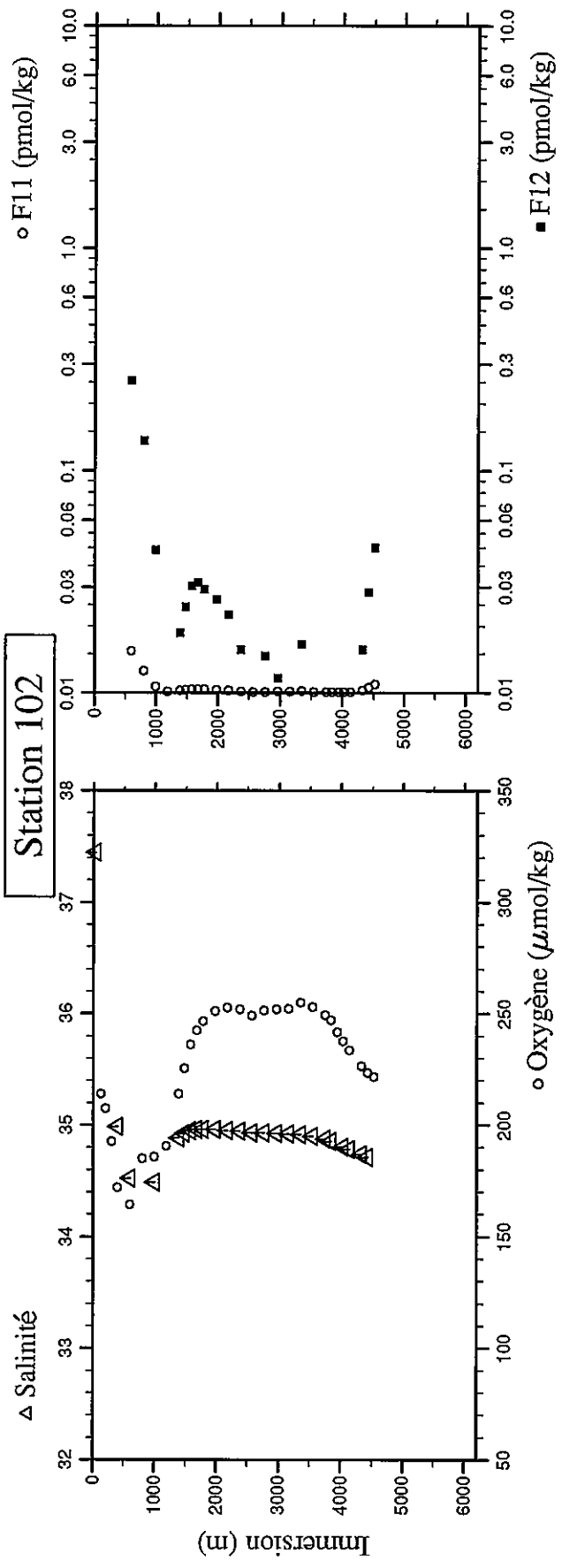
# Station 101



Station : 102 Campagne : CITHER 2  
 Date : 07-02-94 Heure : 4 h 38 mn  
 Position : S 19 39.89 W 30 55.56  
 Dernier niveau à : 4605  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
3.9	3.9	27.698	24.3552	37.456 r	198.5 r	0.13	0.115	1.2			2087.52		8.384
34.8	34.6	27.697	24.4856	37.450	198.9 r	0.13	0.115	1.1			2075.22	2466.7	8.383
125.6	124.8	23.354	25.8493	36.939 r	214.0	0.13	0.138	1.2			2080.34	2436.3	8.351
201.0	199.7	19.564	26.6775	36.204 r	207.3	0.64	0.248	1.6			2087.44	2390.4	8.280
300.7	298.7	14.712	27.6752	35.403 r	192.5	9.11	0.696	3.7			2104.76	2340.6	8.164
400.8	398.0	11.467	28.4671	34.989	172.0	18.26	1.238	7.5			2140.78	2319.7	8.044
600.6	596.1	6.470	29.8513	34.524	164.4	30.57	1.989	20.0	0.4419	0.2533	2308.8	2308.8	7.906
801.0	794.6	4.201	30.9777	34.409 r	185.1	32.89	2.190	32.5	0.2307	0.1360	2192.86	2314.5	7.887
1000.5	992.0	3.502	32.0496	34.489	185.7	32.99	2.201	41.9	0.0645	0.0440	2213.27	2325.9	7.884
1200.7	1190.0	3.717	33.0871	34.697 r	190.5	30.25	1.990	36.2	0.0140	0.0059	2206.43	2329.3	7.911
1400.8	1387.6	3.938	34.1130	34.883	213.9	24.69	1.626	25.1	0.0240	0.0186	2186.75	2329.5	7.964
1499.6	1485.1	3.851	34.6008	34.925	225.4	23.18	1.522	23.3	0.0307	0.0244	2179.69	2330.3	7.982
1600.6	1584.8	3.768	35.0897	34.950	236.0	21.99	1.421	21.2	0.0362	0.0303	2172.95	2329.7	7.999
1699.7	1682.5	3.645	35.5584	34.960	242.5	21.14	1.369	20.8	0.0399	0.0313	2169.74	2331.3	8.007
1800.1	1781.5	3.509	36.0280	34.962	246.6	20.98	1.340	21.2	0.0375	0.0293	2168.17	2331.5	8.015
1999.5	1977.9	3.326	36.9478	34.962	251.2	20.47	1.313	22.0	0.0331	0.0264	2166.03	2332.3	8.015
2199.0	2174.2	3.110	37.8623	34.952	252.6	20.55	1.326	24.4	0.0238	0.0225	2167.74	2336.4	8.019
2399.4	2371.2	2.939	38.7712	34.944	251.9	20.89	1.342	26.9	0.0163	0.0156	2171.56	2337.3	8.019
2599.0	2567.3	2.768	39.6685	34.930	249.1	21.44	1.389	31.0	0.0063	0.0088	2170.81	2341.1	8.015
2798.9	2763.5	2.675	40.5649	34.929	251.3	21.44	1.371	31.1	0.0098	0.0147	2170.27	2340.4	8.015
2999.6	2960.3	2.560	41.4609	34.924	251.8	21.31	1.374	32.2	0.0125	0.0117	2171.35	2343.1	8.016
3199.9	3156.5	2.452	42.3501	34.922	252.1	21.31	1.375	33.7	0.0126	0.0098	2174.76	2343.8	8.017
3399.9	3352.2	2.336	43.2373	34.917	254.8	21.23	1.375	35.0	0.0199	0.0166	2179.53	2344.4	8.015
3598.8	3546.7	2.159	44.1195	34.901	253.0	21.91	1.410	39.4	0.0107	0.0068	2189.34	2346.8	8.016
3799.4	3742.7	1.895	45.0140	34.874	249.2	22.97	1.505	49.2	0.0052	0.0068	2197.43	2351.5	8.000
3897.9	3838.9	1.725	45.4567	34.857	247.0	23.77	1.572	56.5	0.0069	0.0088	2197.43	2354.4	7.990
3997.7	3936.3	1.472	45.9128	34.804 r	241.7	26.77	1.780	78.1	0.0060	0.0068	2208.39	2360.3	7.975
4098.6	4034.9	1.228	46.3720	34.804	237.5	26.72	1.786	78.2	0.0071	0.0039	2217.19	2364.6	7.961
4199.3	4132.9	1.011	46.8263	34.782	233.6	28.25	1.878	87.4	0.0075	0.0049	2227.31	2366.9	7.945
4397.7	4326.2	0.592	47.7202	34.737	226.5	30.20	2.055	104.7	0.0271	0.0156	2242.25	2372.5	7.920
4498.8	4424.7	0.306	48.1858	34.710	223.3	31.94	2.152	115.6	0.0555	0.0284	2247.14	2383.1	7.903
4602.5	4525.6	0.061	48.6582	34.682 r	221.5	32.78	2.238	122.6	0.0889	0.0450	2254.36	2377.5	7.895

Station 102

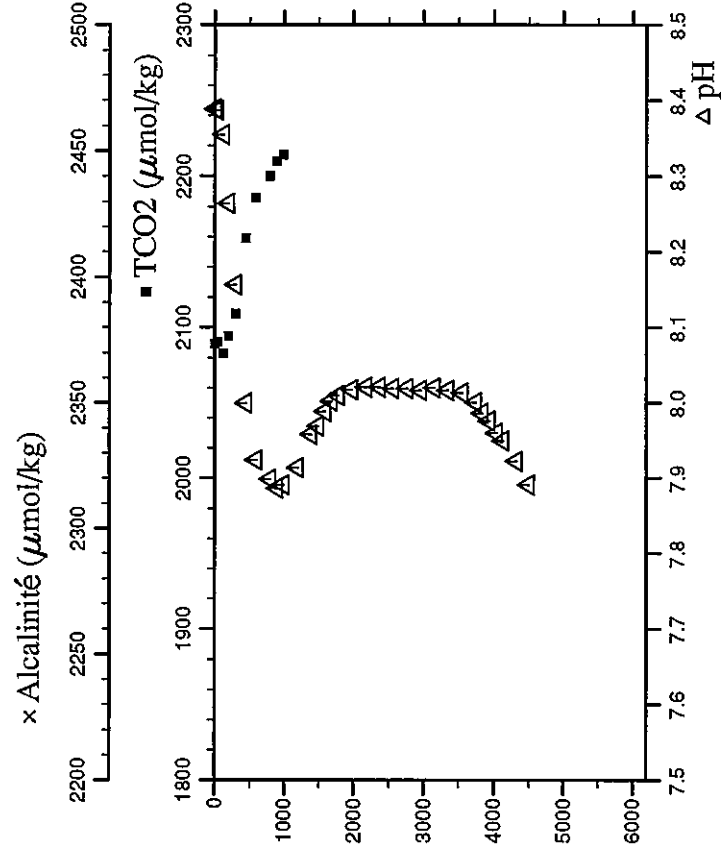
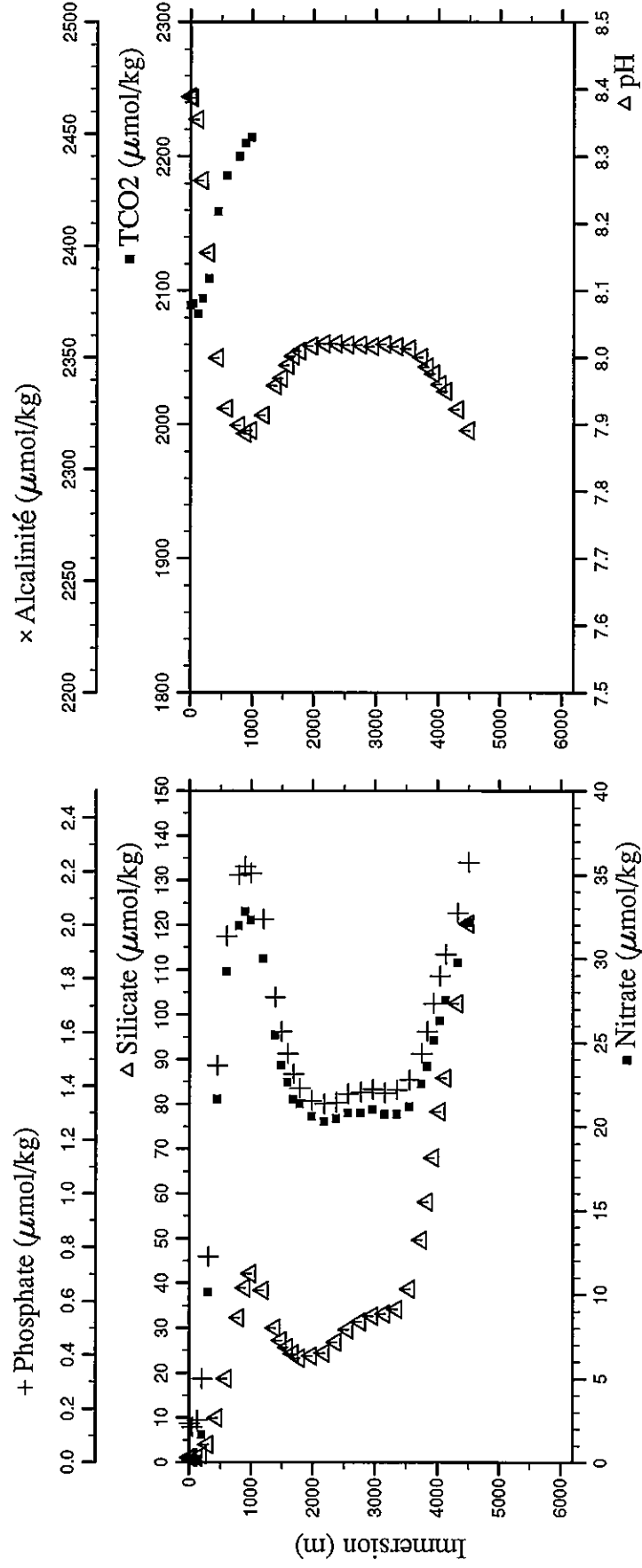
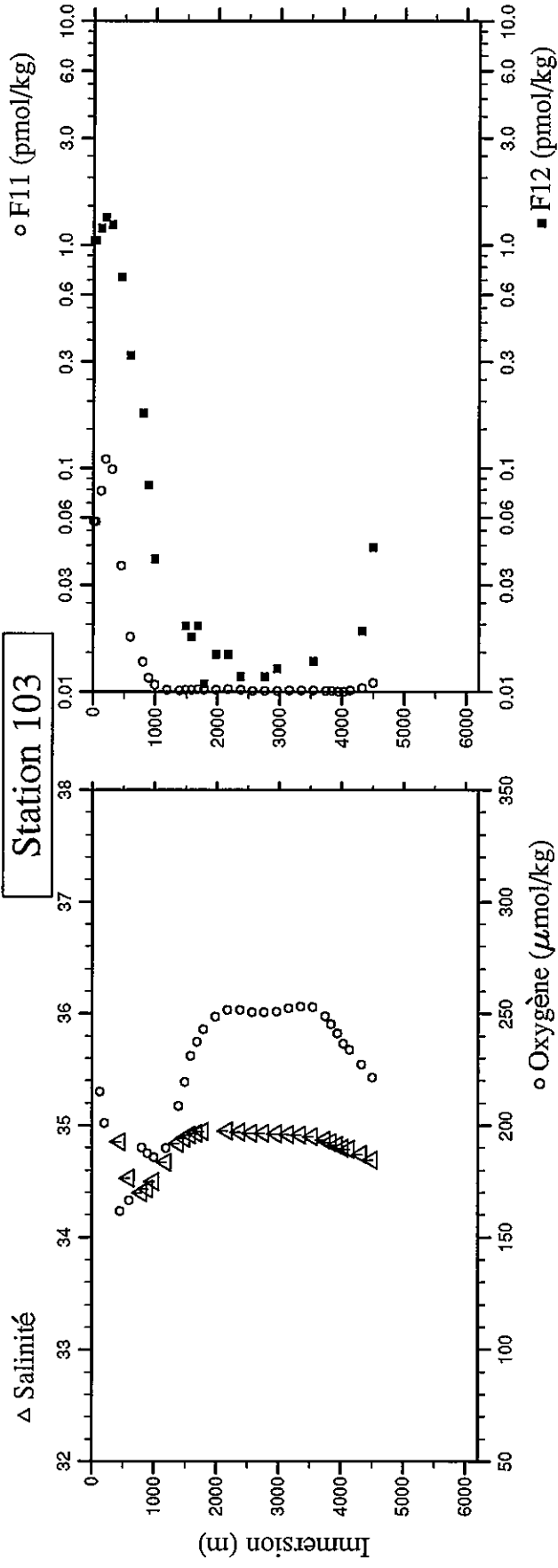


Station : 103 Campagne : CITHER 2  
 Date : 07-02-94 Heure : 9 h 30 mn  
 Position : S 19 20.06 W 30 54.56  
 Dernier niveau à : 4578  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.1	5.1	27.742	24.3803	37.504	r	197.8	r	0.13	0.144	1.7758	1.0472	2089.06	8.389
41.0	40.7	27.669	24.5536	37.483	r	198.2	r	0.13	0.132	1.7768	1.0463	2090.39	8.387
126.3	125.5	23.306	25.8295	36.917	r	215.1		0.13	0.158	2.0964	1.1912	2082.97	8.355
200.6	199.3	18.900	26.7674	36.111	r	201.0		1.66	0.312	2.4295	1.3306	2094.39	8.264
300.5	298.5	14.061	27.7372	35.303	r	197.7	r	10.15	0.765	2.3198	1.2356	2108.91	8.157
451.6	448.4	10.180	28.8307	34.853		161.7		21.63	1.477	1.3125	0.7178	2158.89	8.000
601.5	597.0	6.706	29.8326	34.531		166.5		29.21	1.959	0.5723	0.3198	2185.90	7.924
801.0	794.6	4.142	30.9807	34.395		190.1		31.97	2.188	0.3095	0.1761	2200.34	7.899
900.6	893.2	3.666	31.5277	34.434		187.6		32.83	2.188	0.1456	0.0841	2209.79	7.887
1000.7	992.2	3.466	32.0630	34.501		185.8		32.32	2.193	0.0703	0.0391	2214.21	7.891
1200.4	1189.7	3.583	33.0902	34.672		189.9		30.01	2.022	0.0191	0.0068	7.914	
1400.5	1387.3	3.726	34.1044	34.839		208.6		25.46	1.731	0.0150	0.0078	7.958	
1500.7	1486.2	3.699	34.5978	34.887		219.4		23.65	1.605	0.0190	0.0196	7.969	
1600.1	1584.3	3.606	35.0789	34.915		231.1		22.64	1.522	0.0226	0.0176	7.989	
1701.0	1683.8	3.505	35.5624	34.932		237.3		21.63	1.445	0.0232	0.0196	8.002	
1800.5	1781.9	3.423	36.0297	34.945		243.0		21.34	1.393	0.0190	0.0108	8.010	
1999.2	1977.6	3.236	36.9488	34.954	r	248.6		20.62	1.347	0.0188	0.0147	8.018	
2200.4	2175.6	3.094	37.8697	34.952		251.7		20.29	1.335	0.0237	0.0147	8.021	
2399.6	2371.5	2.924	38.7746	34.943		251.7		20.46	1.339	0.0205	0.0117	8.021	
2599.3	2567.6	2.765	39.6727	34.932		250.5		20.82	1.372	0.0098	0.0098	8.019	
2798.7	2763.3	2.653	40.5662	34.932		250.6		20.82	1.377	0.0086	0.0117	8.019	
2999.8	2960.5	2.555	41.4611	34.925		250.8		21.00	1.388	0.0098	0.0127	8.017	
3199.0	3155.7	2.462	42.3458	34.920		252.4		20.76	1.375	0.0155	0.0098	8.020	
3398.7	3351.1	2.351	43.2307	34.916		253.2		20.76	1.387	0.0150	0.0088	8.017	
3599.2	3547.2	2.176	44.1181	34.901		252.8		21.20	1.425	0.0132	0.0137	8.013	
3799.6	3743.0	1.859	45.0180	34.872		248.8		22.54	1.522	0.0070	0.0078	8.001	
3899.0	3840.0	1.647	45.4686	34.851		245.2		23.58	1.604	0.0087	0.0088	7.986	
3997.0	3935.7	1.424	45.9128	34.824		241.1		25.14	1.708	0.0046	0.0010	7.976	
4099.0	4035.2	1.188	46.3767	34.801		236.7		26.32	1.810	0.0030	0.0010	7.960	
4199.0	4132.7	1.000	46.8275	34.786		233.9		27.51	1.891	0.0115	0.0068	7.950	
4397.6	4326.2	0.611	47.7198	34.741		227.1		29.77	2.045	0.0353	0.0186	7.923	
4577.2	4501.1	0.094	48.5465	34.690		221.4		32.14	2.234	0.0893	0.0440	7.891	



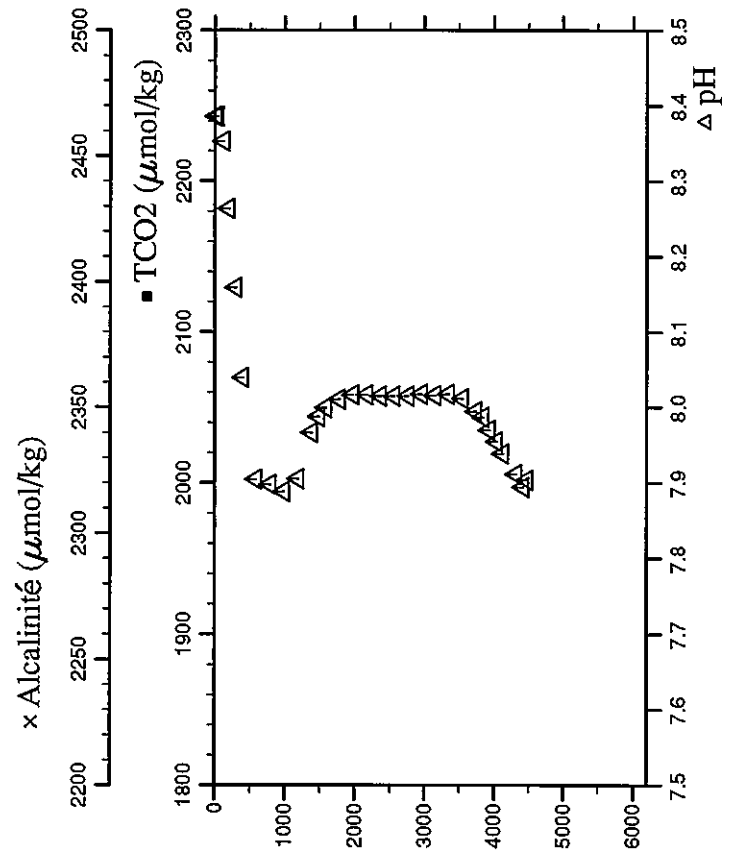
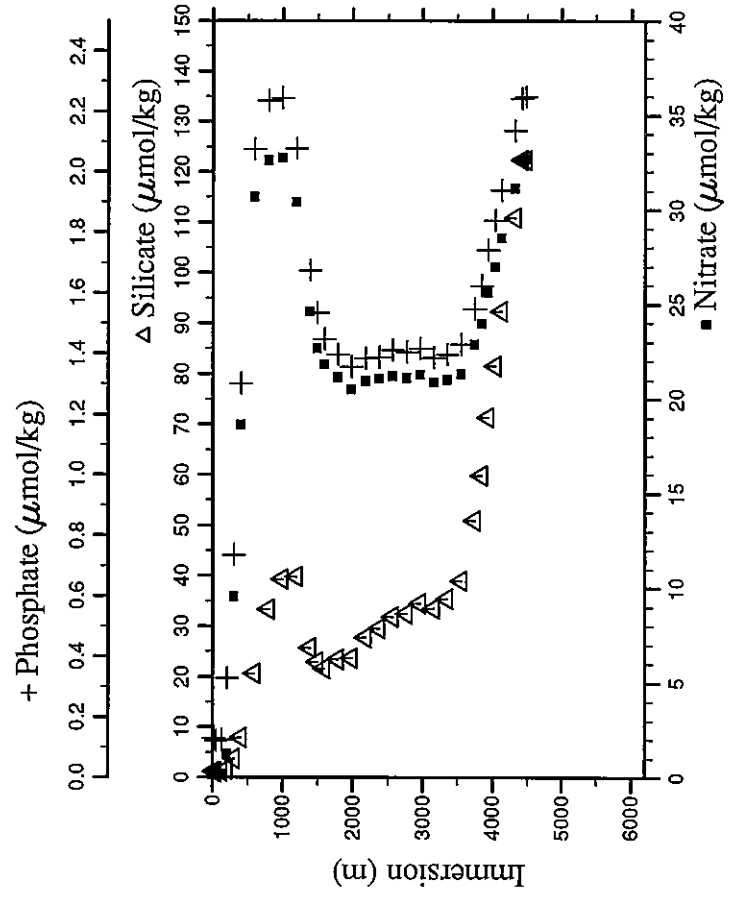
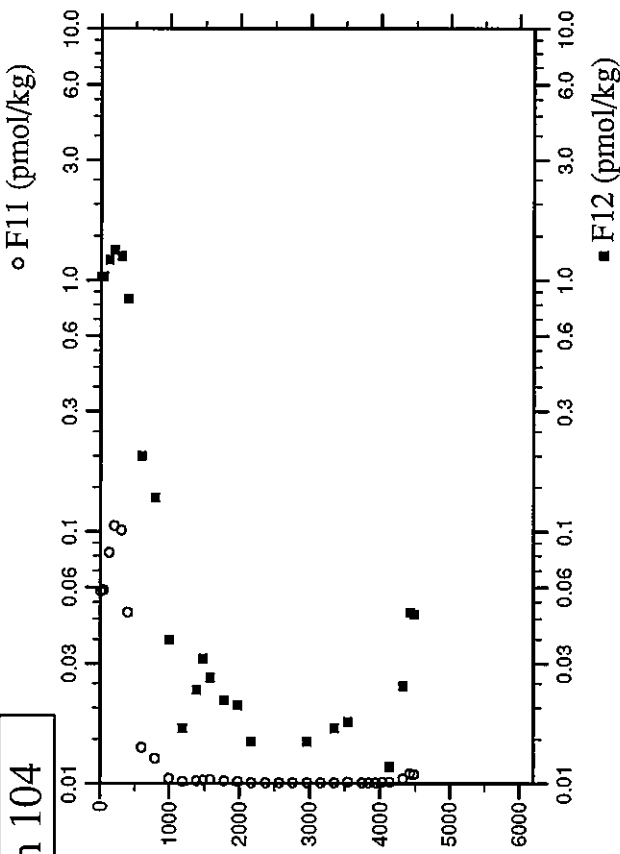
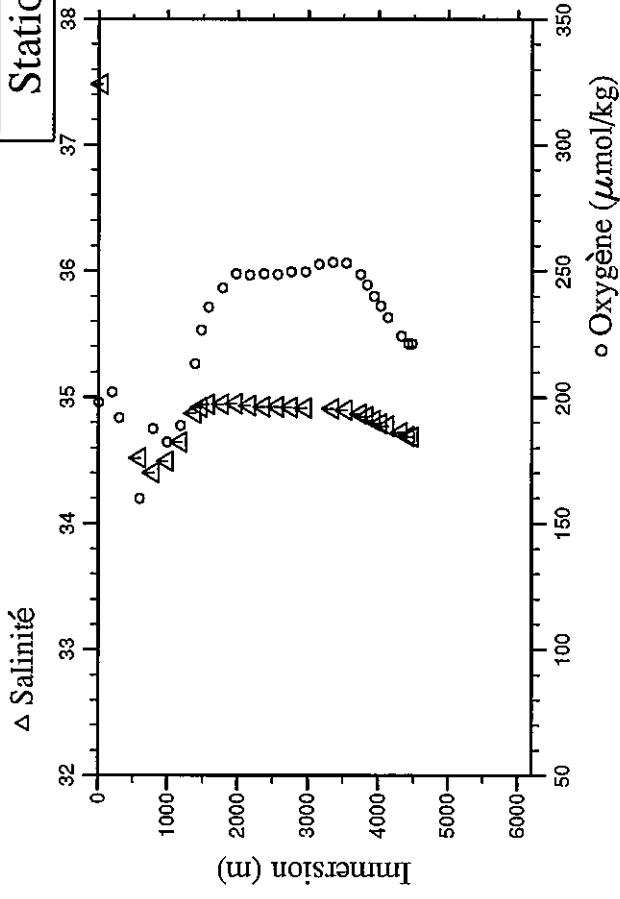
Station 103



Station : 104 Campagne : CITHER 2  
 Date : 07-02-94 Heure : 15 h 23 mn  
 Position : S 18 50.56 W 30 52.81  
 Dernier niveau à : 4557  
 Nb prélèvements : 31

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- um/kg	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
9.1	9.0	27.790	24.3573	37.475	r	0.13	0.131	1.2	1.7805	1.0287			8.386
45.2	44.9	27.579	24.5927	37.486	r	0.13	0.122	1.1	1.7947	1.0355			8.386
125.3	124.5	22.789	25.8947	36.820	r	0.13	0.125	1.2	2.1388	1.2011			8.353
200.4	199.1	19.364	26.6877	36.191	r	1.25	0.329	1.6	2.3856	1.3150			8.263
300.1	298.1	14.325	27.7013	35.362	r	9.56	0.736	3.7	2.3470	1.2483			8.159
400.5	397.7	11.017	28.5226	34.940	r	18.66	1.301	7.9	1.5843	0.8409			8.040
601.0	596.5	6.392	29.8650	34.518		30.67	2.074	20.6	0.3347	0.1995			7.905
798.8	792.4	4.086	30.9846	34.403		32.62	2.237	33.3	0.2352	0.1360			7.898
999.9	991.5	3.623	32.0304	34.491		32.74	2.244	39.3	0.0510	0.0372			7.889
1200.0	1189.3	3.511	33.0762	34.644		30.39	2.078	39.8	0.0193	0.0166			7.906
1399.5	1386.4	3.923	34.1046	34.877		24.61	1.675	25.7	0.0262	0.0235			7.967
1499.4	1485.0	3.849	34.6010	34.922		22.68	1.535	22.9	0.0341	0.0313			7.988
1600.2	1584.5	3.765	35.0836	34.944		21.83	1.447	21.6	0.0366	0.0264			8.000
1799.6	1781.1	3.423	36.0288	34.944		21.15	1.398	23.4	0.0250	0.0215			8.011
1999.6	1978.1	3.231	36.9544	34.952		20.51	1.357	23.7	0.0192	0.0205			8.017
2199.4	2174.7	2.991	37.8703	34.935		20.96	1.384	27.7	0.0088	0.0147			8.017
2398.8	2370.8	2.848	38.7730	34.928		21.09	1.389	29.5	0.0078	0.0088			8.015
2598.8	2567.2	2.712	39.6742	34.924		21.23	1.411	31.8	0.0083	0.0078			8.015
2799.1	2763.8	2.627	40.5701	34.923		21.11	1.405	32.5	0.0088	0.0088			8.015
2998.5	2959.3	2.521	41.4568	34.914		21.29	1.416	34.5	0.0081	0.0147			8.018
3200.2	3156.9	2.454	42.3511	34.914	r	20.87	1.387	33.5	0.0103	0.0088			8.016
3398.9	3351.4	2.334	43.2316	34.913		21.01	1.398	35.4	0.0091	0.0166			8.018
3599.3	3547.4	2.169	44.1199	34.900		21.32	1.431	39.0	0.0131	0.0176			8.012
3798.7	3742.2	1.859	45.0143	34.869		22.89	1.547	50.9	0.0051	0.0078			7.995
3899.5	3840.6	1.629	45.4736	34.849		23.95	1.624	59.8	0.0073	0.0078			7.987
3999.0	3937.7	1.372	45.9284	34.820		25.62	1.742	71.4	0.0066	0.0078			7.970
4097.2	4033.5	1.148	46.3744	34.796		26.99	1.840	81.5	0.0117	0.0088			7.955
4198.4	4132.2	0.907	46.8336	34.774		28.52	1.939	92.3	0.0111	0.0117			7.939
4398.4	4327.1	0.407	47.7438	34.720		31.13	2.137	110.9	0.0437	0.0244			7.912
4498.1	4424.2	0.087	48.2073	34.690		32.61	2.242	122.4	0.0913	0.0479			7.895
4557.0	4481.5	0.086	48.4605	34.688		32.68	2.248	122.4	0.0831	0.0469			7.904

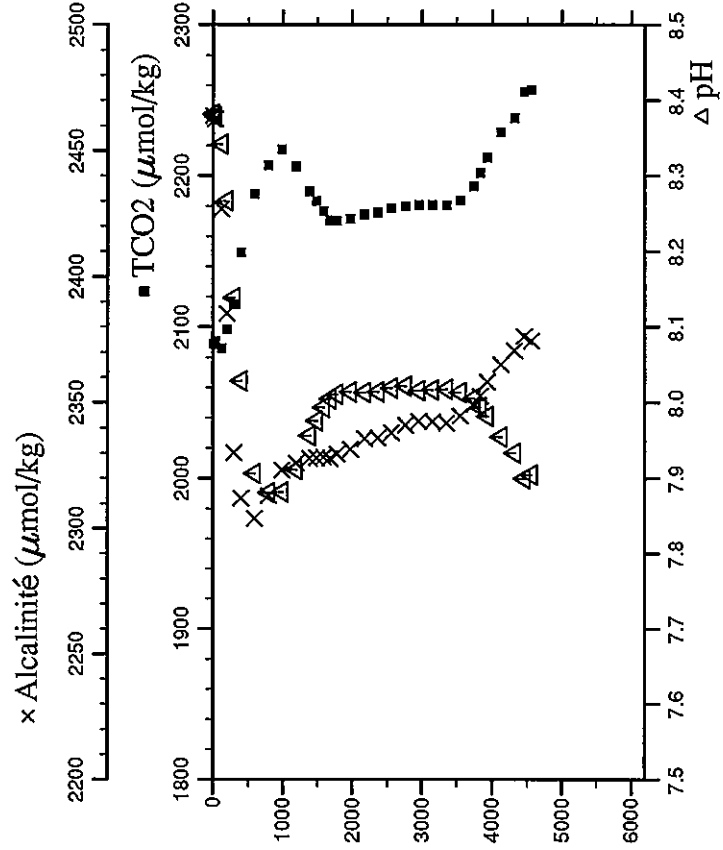
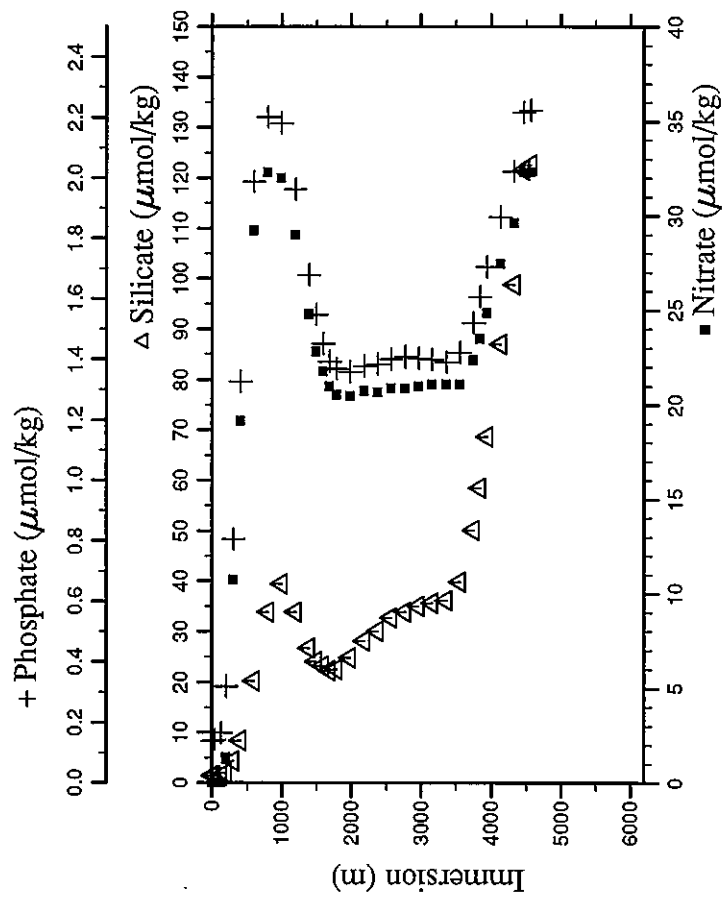
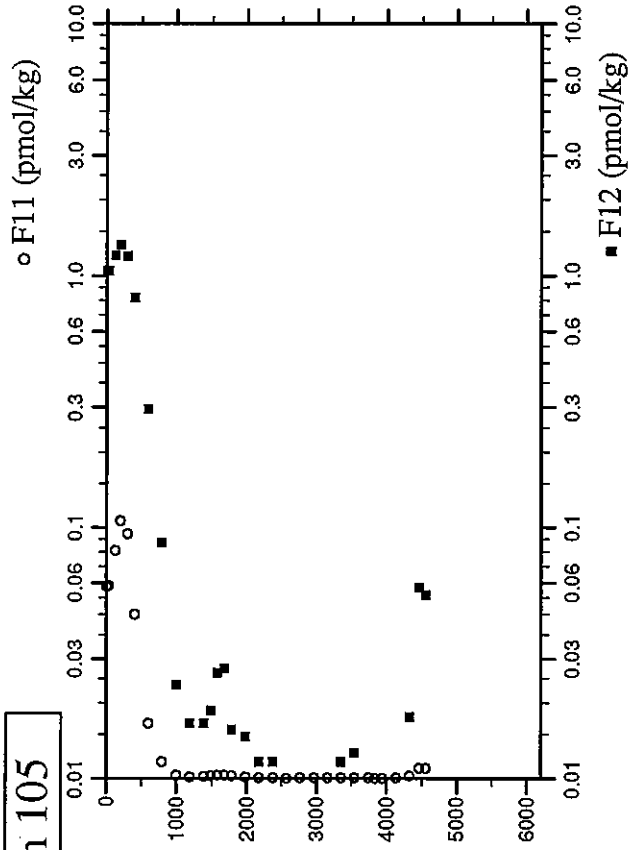
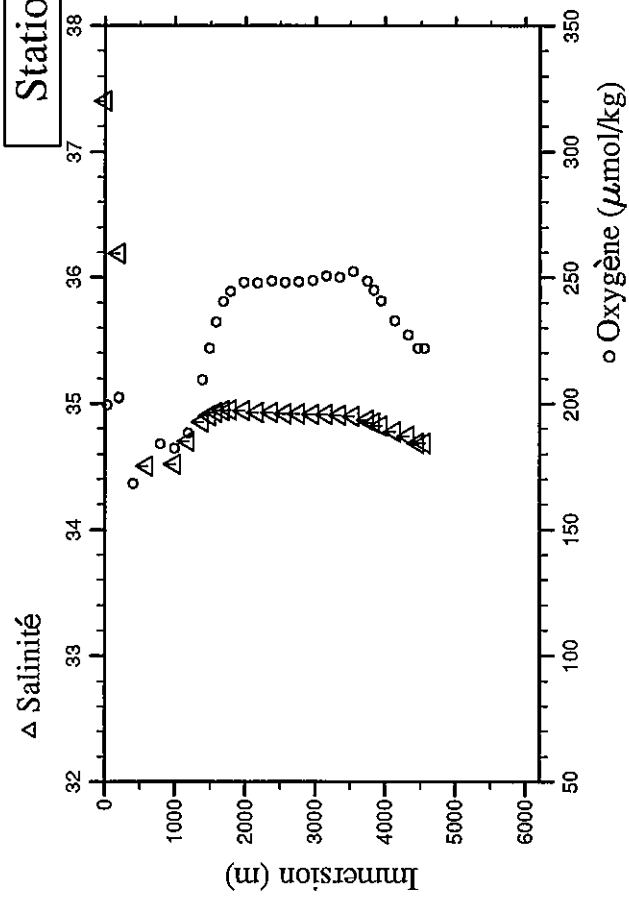
# Station 104



Station : 105 Campagne : CITHER 2  
 Date : 07-02-94 Heure : 21 h 13 mn  
 Position : S 18 21.20 W 30 51.32  
 Dernier niveau à : 4641  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
6.2	6.2	27.759	24.3072	37.404	197.9	r	0.139	1.4	1.7830	1.0454	2088.73	2463.9	8.382
36.3	36.1	27.464	24.5288	37.395	r	0.00	0.142	1.4	1.7907	1.0483	2090.20	2462.6	8.379
126.3	125.5	22.924	25.8938	36.830	r	0.00	0.165	1.4	2.1223	1.2049	2085.67	2426.6	8.342
201.1	199.8	19.391	26.7005	36.192	202.5	r	0.318	1.9	2.3987	1.3198	2385.2	2385.2	8.267
201.8	200.5	19.039	26.7584	36.177	r	1.25	0.321	1.9	2.3943	1.3218	2098.34	2385.3	8.267
300.6	298.6	14.003	27.7467	35.313	r	1.34	0.806	4.4	2.2756	1.1975	2114.91	2330.2	8.139
401.5	398.7	10.872	28.5465	34.931	r	10.73	1.327	8.5	1.5258	0.8194	2149.34	2312.1	8.029
601.9	597.4	6.249	29.8752	34.503	r	19.16	1.988	20.2	0.1583	0.2954	2187.82	2303.9	7.907
800.7	794.4	4.070	31.0040	34.408	r	29.22	2.202	33.9	0.0330	0.0871	2207.07	2313.1	7.881
1001.5	993.1	3.611	32.0625	34.519	182.1	r	2.181	39.5	0.0235	0.0235	2217.52	2323.2	7.882
1201.0	1190.3	3.790	33.0919	34.704	188.4	r	2.181	39.5	0.0145	0.0166	2206.11	2326.1	7.912
1400.8	1387.7	3.898	34.0990	34.857	209.4	r	1.962	26.8	0.0198	0.0166	2189.66	2327.9	7.957
1501.1	1486.7	3.842	34.5982	34.907	221.8	r	1.678	24.1	0.0238	0.0186	2183.03	2328.2	7.976
1600.1	1584.4	3.695	35.0817	34.931	232.4	r	1.547	24.1	0.0289	0.0264	2176.24	2328.4	7.994
1700.2	1683.1	3.569	35.5638	34.948	240.3	r	1.452	22.3	0.0319	0.0274	2170.46	2327.9	8.005
1800.0	1781.5	3.415	36.0336	34.951	244.6	r	1.392	22.6	0.0244	0.0156	2169.94	2329.5	8.011
2000.6	1979.1	3.173	36.9619	34.945	248.0	r	1.369	22.6	0.0116	0.0147	2171.27	2331.5	8.014
2199.6	2175.0	2.953	37.8738	34.933	247.8	r	1.379	28.2	0.0066	0.0117	2174.52	2335.8	8.013
2399.6	2371.6	2.801	38.7813	34.931	248.6	r	1.384	30.1	0.0070	0.0117	2175.69	2335.9	8.014
2599.9	2568.4	2.671	39.6834	34.922	248.0	r	1.402	32.7	0.0049	0.0059	2178.42	2337.9	8.019
2799.7	2764.5	2.582	40.5758	34.921	248.3	r	1.402	33.9	0.0056	0.0050	2179.75	2341.1	8.022
2999.0	2959.9	2.492	41.4622	34.918	248.8	r	1.403	35.0	0.0066	0.0088	2180.74	2342.5	8.016
3198.7	3155.5	2.402	42.3491	34.915	250.7	r	1.400	35.6	0.0063	0.0078	2180.83	2342.3	8.017
3399.5	3352.1	2.305	43.2377	34.912	250.2	r	1.391	36.1	0.0086	0.0117	2180.04	2341.8	8.018
3598.4	3546.6	2.142	44.1189	34.899	252.3	r	1.423	39.8	0.0066	0.0127	2183.60	2344.5	8.013
3799.5	3743.1	1.848	45.0183	34.871	248.5	r	1.520	50.1	0.0071	0.0088	2193.06	2349.2	8.006
3898.0	3839.3	1.650	45.4635	34.851	244.9	r	1.606	58.5	0.0030	0.0088	2201.65	2352.6	7.994
3999.1	3937.9	1.401	45.9243	34.825	240.7	r	1.706	68.7	0.0020	0.0068	2211.83	2358.0	7.982
4199.4	4133.3	0.977	46.8293	34.779	232.9	r	1.872	87.0	0.0083	0.0068	2228.91	2364.9	7.955
4398.1	4326.9	0.635	47.7169	34.745	227.1	r	2.023	98.8	0.0240	0.0176	2238.24	2370.5	7.934
4538.5	4463.7	0.032	48.3859	34.688	221.8	r	2.217	121.6	0.0953	0.0577	2255.52	2376.2	7.900
4638.8	4561.3	0.018	48.8179	34.685	221.8	r	2.223	122.6	0.0977	0.0538	2256.94	2374.4	7.905

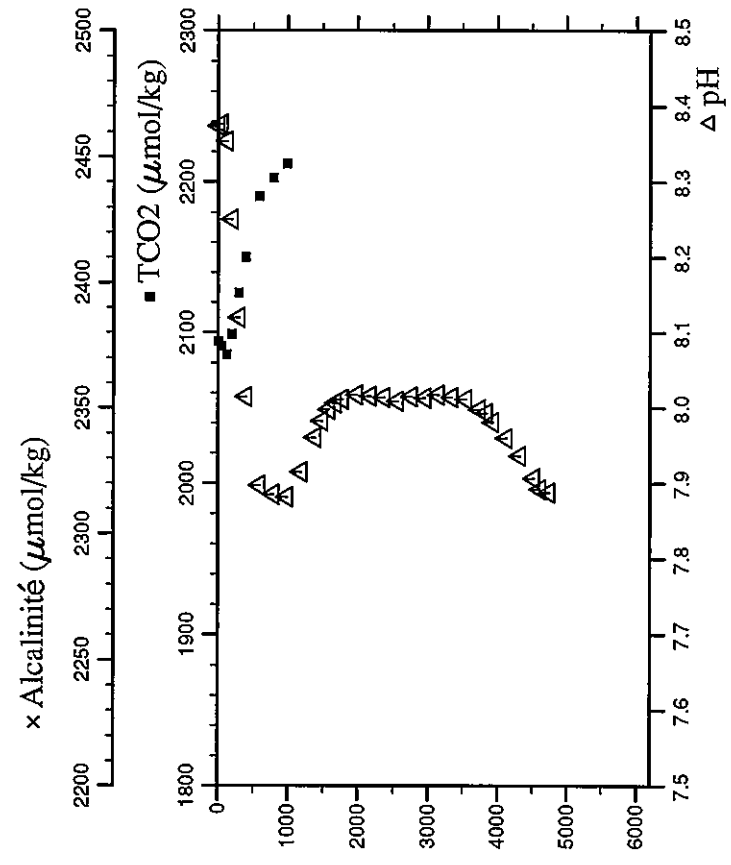
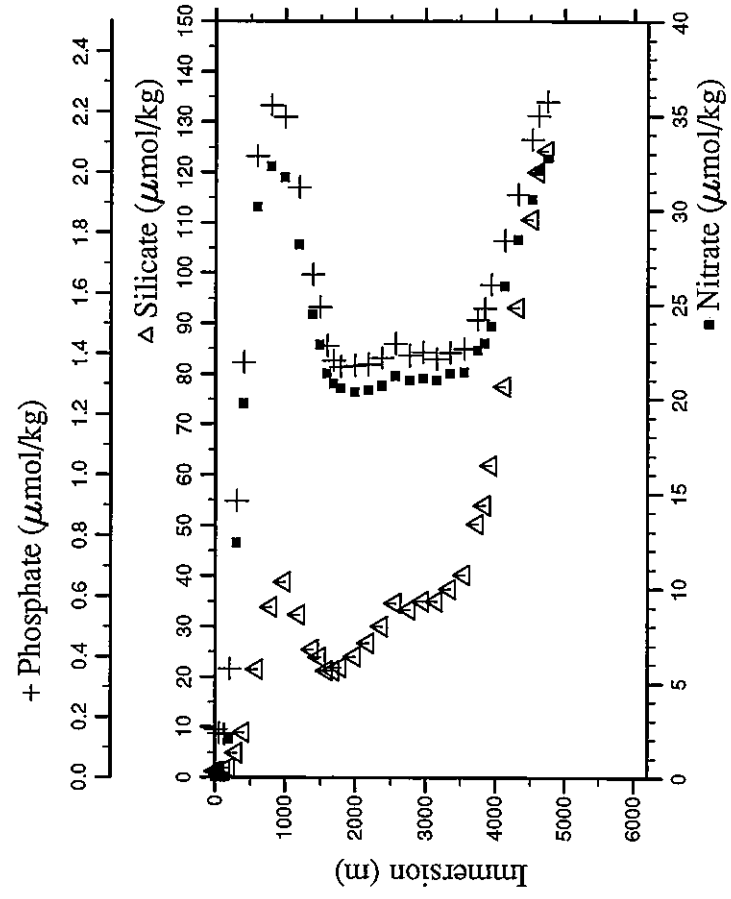
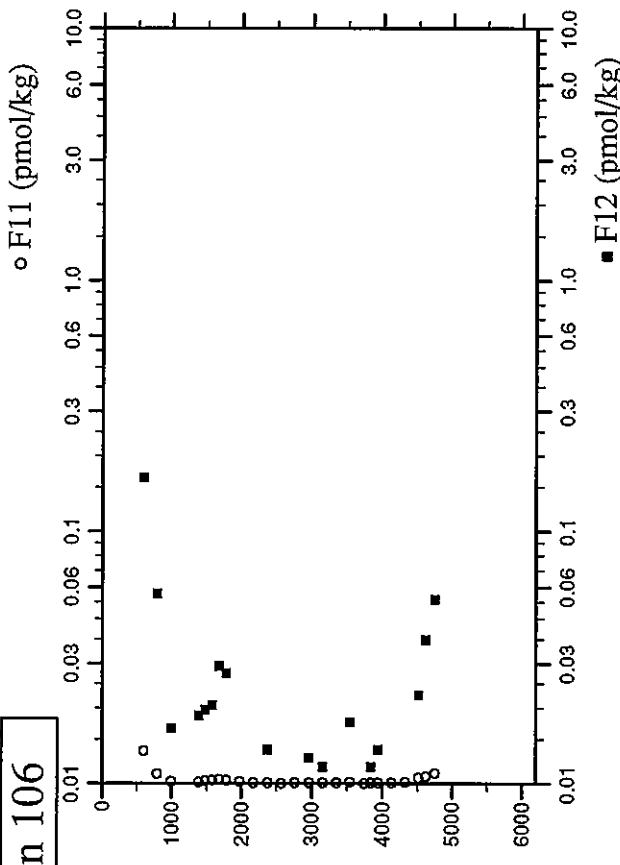
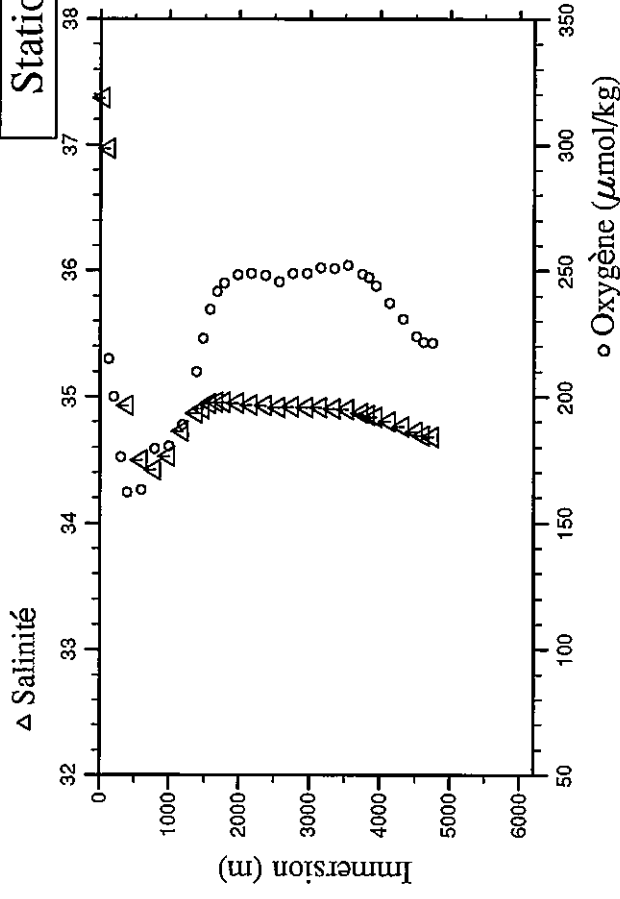
# Station 105



Station : 106 Campagne : CITHER 2  
 Date : 08-02-94 Heure : 3 h 10 mn  
 Position : S 17 51.68 W 30 49.47  
 Dernier niveau à : 4833  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.4	5.4	27.411	24.3520	37.319	199.1	0.04	0.160	1.2	0.3063	0.1634	2094.12		8.374
46.3	46.0	27.431	24.5615	37.372	199.4	0.04	0.148	1.2	0.0890	0.0567	2090.85		8.377
125.0	124.2	23.615	25.7796	36.969	214.9	0.04	0.142	1.4	0.0199	0.0166	2085.28		8.354
200.4	199.1	18.673	26.7726	36.081	200.1	2.03	0.362	2.0			2098.81		8.251
300.0	298.0	13.781	27.7745	35.298	176.0	12.41	0.914	4.9			2126.26		8.120
401.1	398.3	10.841	28.5410	34.930	162.2	19.77	1.372	8.9			2150.05		8.015
602.3	597.8	6.133	29.8909	34.500	163.1	30.16	2.053	21.5			2190.26		7.897
800.2	793.9	4.103	31.0059	34.423	179.4	32.31	2.221	33.8			2202.57		7.885
1001.1	992.7	3.624	32.0691	34.531	180.5	31.72	2.183	38.8			2212.13		7.882
1200.4	1189.8	3.846	33.0961	34.727	188.9	28.17	1.949	32.4					7.915
1399.5	1386.5	3.928	34.0979	34.870	209.9	24.46	1.662	25.5					7.961
1499.0	1484.7	3.809	34.5928	34.906	223.2	22.88	1.553	24.0					7.983
1599.6	1583.9	3.776	35.0788	34.944	234.5	21.37	1.427	21.3					7.998
1700.3	1683.3	3.608	35.5616	34.955	241.6	20.80	1.378	21.3					8.007
1801.0	1782.5	3.484	36.0319	34.954	245.0	20.59	1.357	21.9					8.012
2001.3	1979.8	3.215	36.9612	34.949	248.2	20.37	1.361	24.1					8.018
2199.0	2174.4	3.004	37.8681	34.938	248.9	20.46	1.365	26.8					8.016
2398.7	2370.8	2.820	38.7749	34.930	248.1	20.72	1.386	30.1					8.016
2600.1	2568.6	2.654	39.6813	34.916	245.4	21.23	1.433	34.6					8.009
2799.9	2764.7	2.608	40.5734	34.921	248.8	20.98	1.395	33.3					8.015
2999.6	2960.6	2.498	41.4643	34.917	248.9	21.10	1.406	35.0					8.013
3200.2	3157.1	2.414	42.3544	34.917	251.1	20.97	1.383	35.0					8.018
3398.9	3351.6	2.298	43.2339	34.907	250.9	21.36	1.404	37.4					8.014
3598.6	3546.9	2.128	44.1215	34.898	252.2	21.41	1.417	40.2					8.012
3798.1	3741.8	1.849	45.0135	34.870	248.5	22.57	1.511	50.2					7.998
3899.3	3840.6	1.707	45.4672	34.857	247.2	22.96	1.549	54.0					7.993
3998.6	3937.6	1.548	45.9092	34.840	243.9	23.83	1.627	61.8					7.981
4199.3	4133.3	1.191	46.8099	34.802	237.2	25.96	1.774	77.5					7.960
4398.4	4327.3	0.835	47.6994	34.765	230.7	28.43	1.927	93.1					7.936
4598.3	4522.0	0.395	48.6008	34.721	223.9	30.58	2.108	110.7					7.907
4698.4	4619.4	0.108	49.0648	34.694	221.7	32.09	2.187	120.0					7.892
4831.4	4748.7	-0.029	49.6482	34.683	221.3	32.74	2.233	124.2					7.888

# Station 106

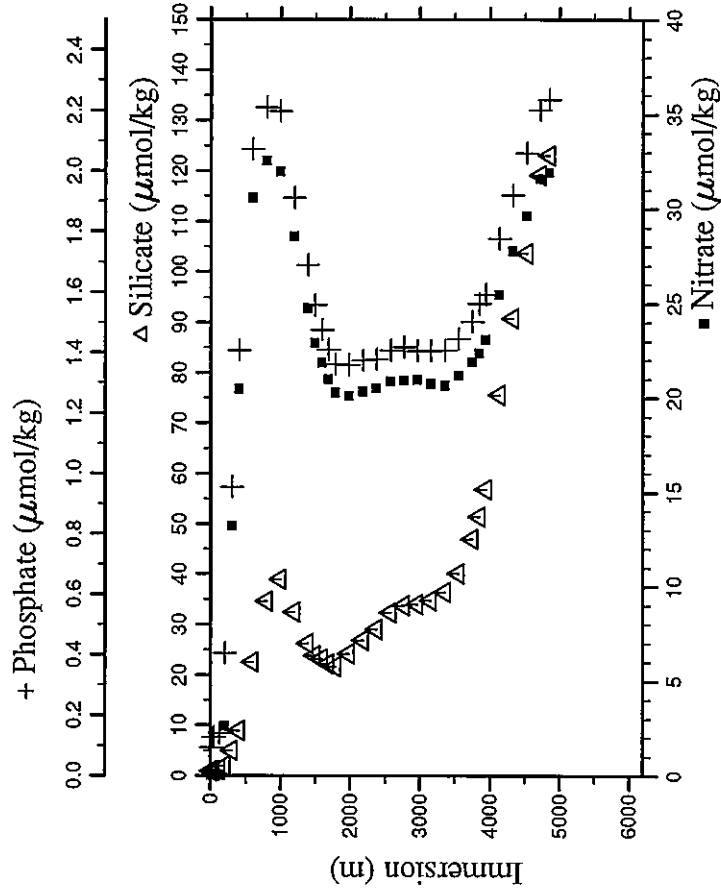
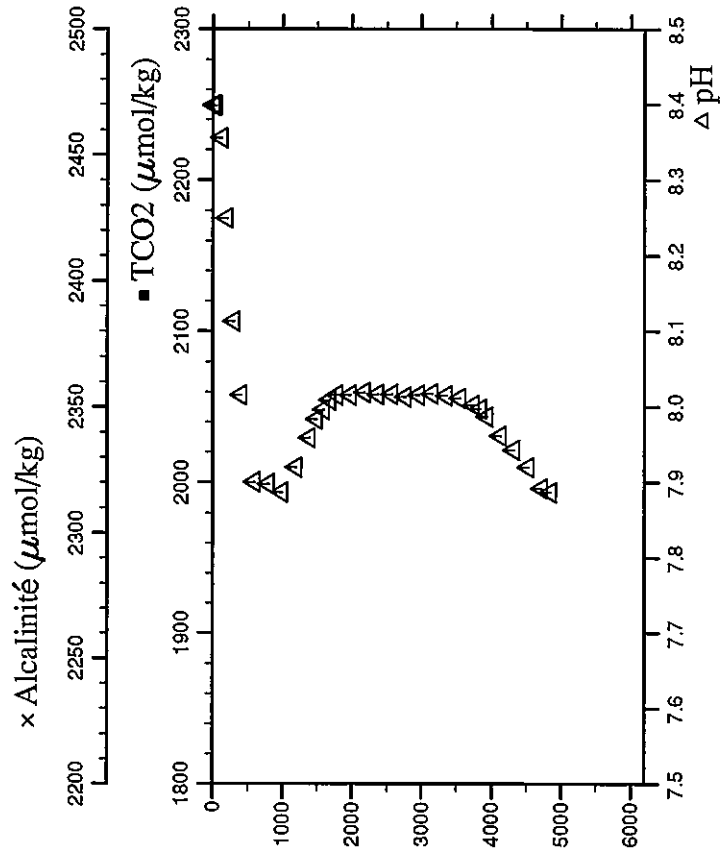
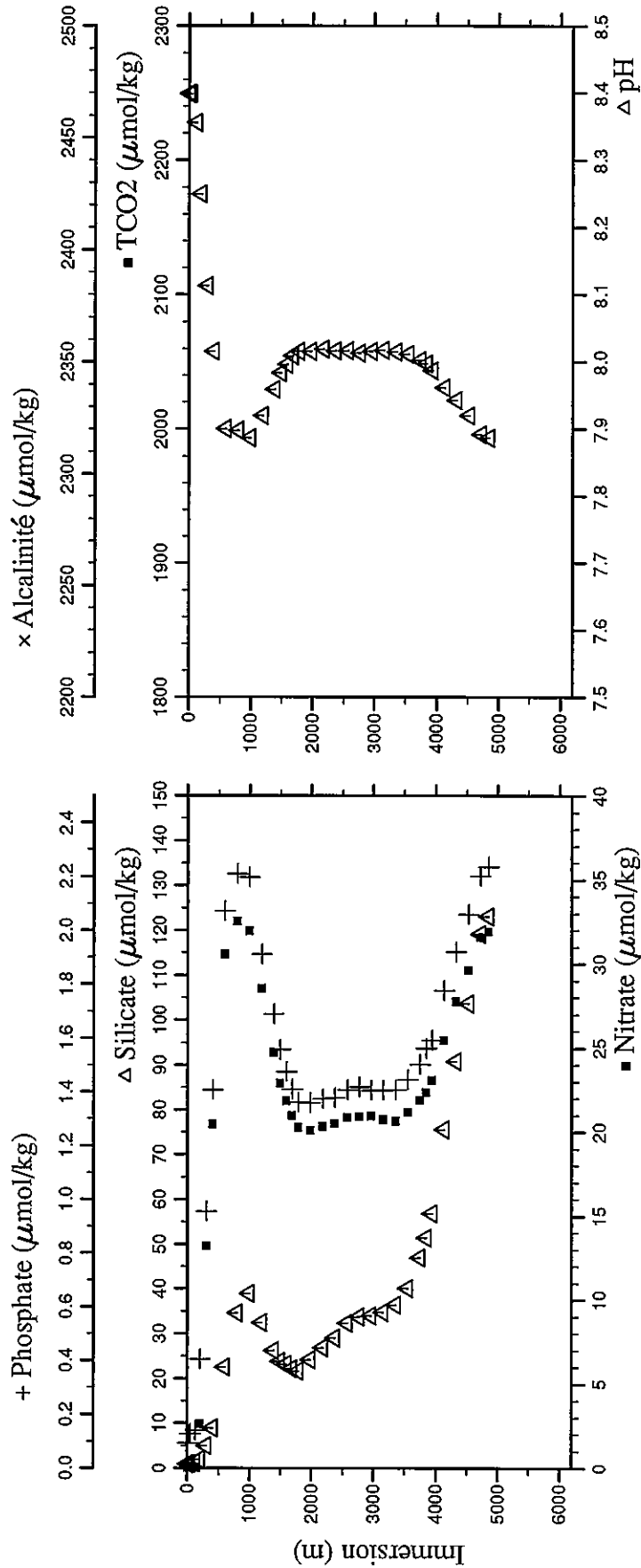
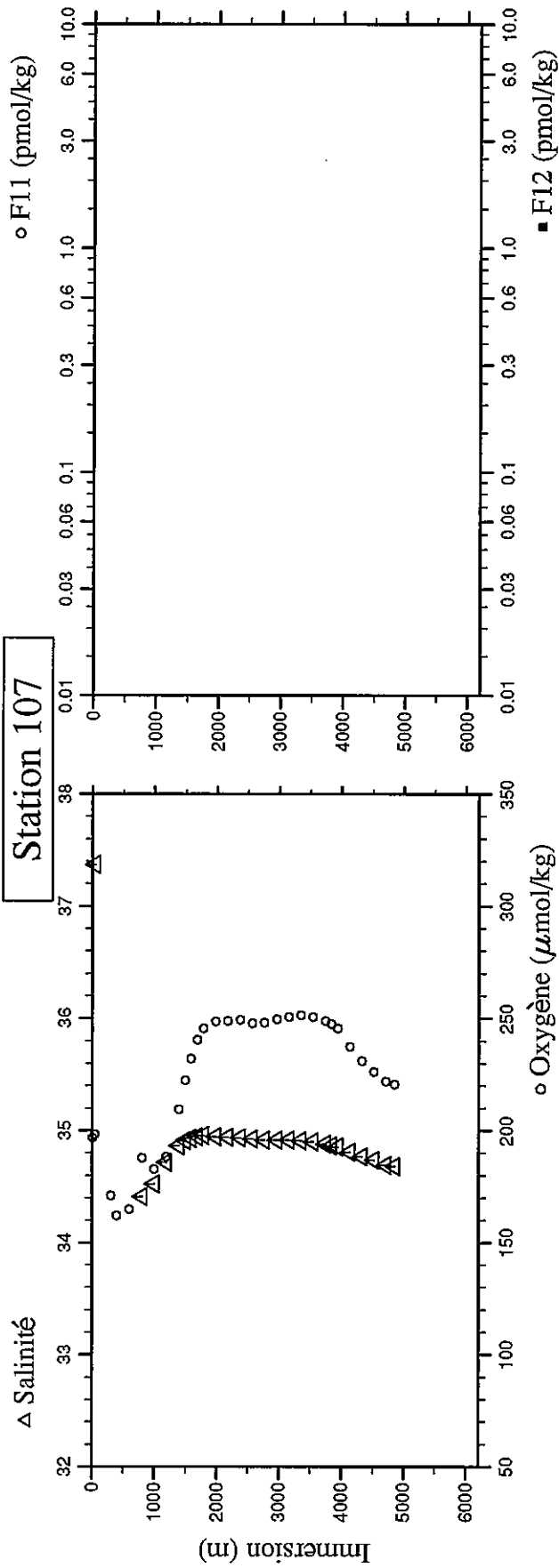


Station : 107 Campagne : CITHER 2  
 Date : 08-02-94 Heure : 9 h 13 mn  
 Position : S 17 22.17 W 30 48.22  
 Dernier niveau à : 4941  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI-	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.7	4.7	27.923	24.2050	37.350	r	196.7	0.093	1.0					8.399
40.7	40.5	27.822	24.4096	37.374		198.3	0.128	1.1					8.399
126.4	125.6	23.983	25.7535	37.066	r	211.4	0.140	1.2					8.356
201.5	200.2	19.026	26.7603	36.116	r	193.4	0.406	1.9					8.250
301.5	299.5	13.814	27.7954	35.305	r	170.9	0.956	5.0					8.113
400.5	397.7	10.741	28.5498	34.912	r	162.1	1.407	8.9					8.016
601.6	597.1	5.818	29.9250	34.480	r	165.0	2.073	22.6					7.901
802.1	795.8	3.921	31.0262	34.412		187.7	2.210	34.6					7.898
1000.3	991.9	3.582	32.0626	34.525		182.7	2.198	39.0					7.887
1200.8	1190.2	3.823	33.0956	34.719		188.4	1.912	32.5					7.920
1401.2	1388.2	3.895	34.1026	34.863		209.3	1.690	26.2					7.959
1500.2	1485.9	3.829	34.5969	34.908		222.3	1.559	23.8					7.984
1600.7	1585.1	3.669	35.0862	34.930		232.0	1.475	23.2					7.996
1700.4	1683.4	3.547	35.5647	34.946		240.5	1.409	22.2					8.009
1799.7	1781.3	3.456	36.0305	34.958		245.5	1.360	21.6					8.016
1999.2	1977.8	3.182	36.9577	34.948		248.6	1.358	24.2					8.016
2199.8	2175.3	2.986	37.8731	34.939		248.7	1.373	26.9					8.019
2400.2	2372.3	2.839	38.7820	34.935		249.3	1.378	29.0					8.017
2600.6	2569.2	2.676	39.6851	34.924		247.8	1.407	32.3					8.017
2800.3	2765.2	2.573	40.5796	34.918		248.0	1.418	33.7					8.013
2999.0	2960.1	2.500	41.4627	34.918		249.5	1.406	34.0					8.016
3199.1	3156.1	2.408	42.3503	34.917		250.7	1.406	34.7					8.018
3400.0	3352.8	2.306	43.2387	34.911		251.3	1.407	36.4					8.015
3598.4	3546.8	2.152	44.1155	34.899		250.5	1.445	40.1					8.012
3798.4	3742.2	1.937	45.0046	34.879		248.8	1.503	46.9					8.002
3899.3	3840.7	1.798	45.4560	34.866		247.6	1.562	51.4					7.997
3998.1	3937.2	1.665	45.8944	34.853		245.6	1.593	56.9					7.987
4197.3	4131.5	1.240	46.7935	34.807		237.3	1.777	75.5					7.962
4398.9	4327.9	0.873	47.6974	34.769		231.1	1.921	103.8					7.943
4598.6	4522.4	0.534	48.5884	34.736		226.2	2.061	190.7					7.920
4799.3	4717.6	0.089	49.4972	34.691		221.9	2.202	119.1					7.892
4934.3	4848.9	-0.008	50.0822	34.684		220.7	2.236	123.1					7.887



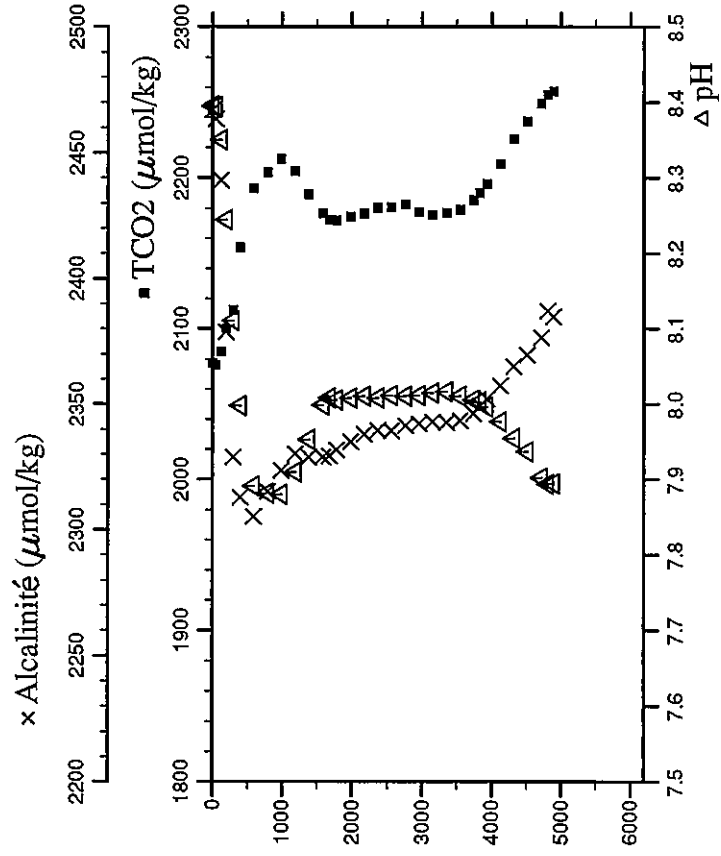
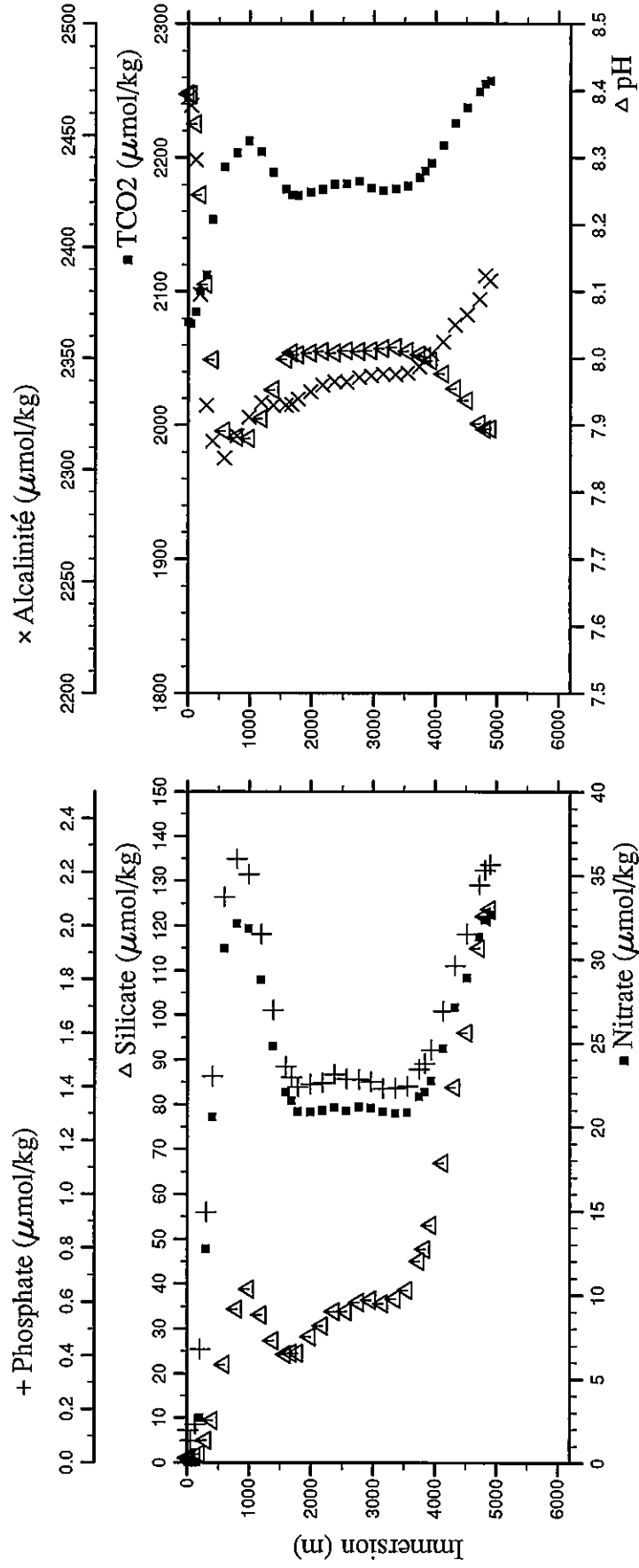
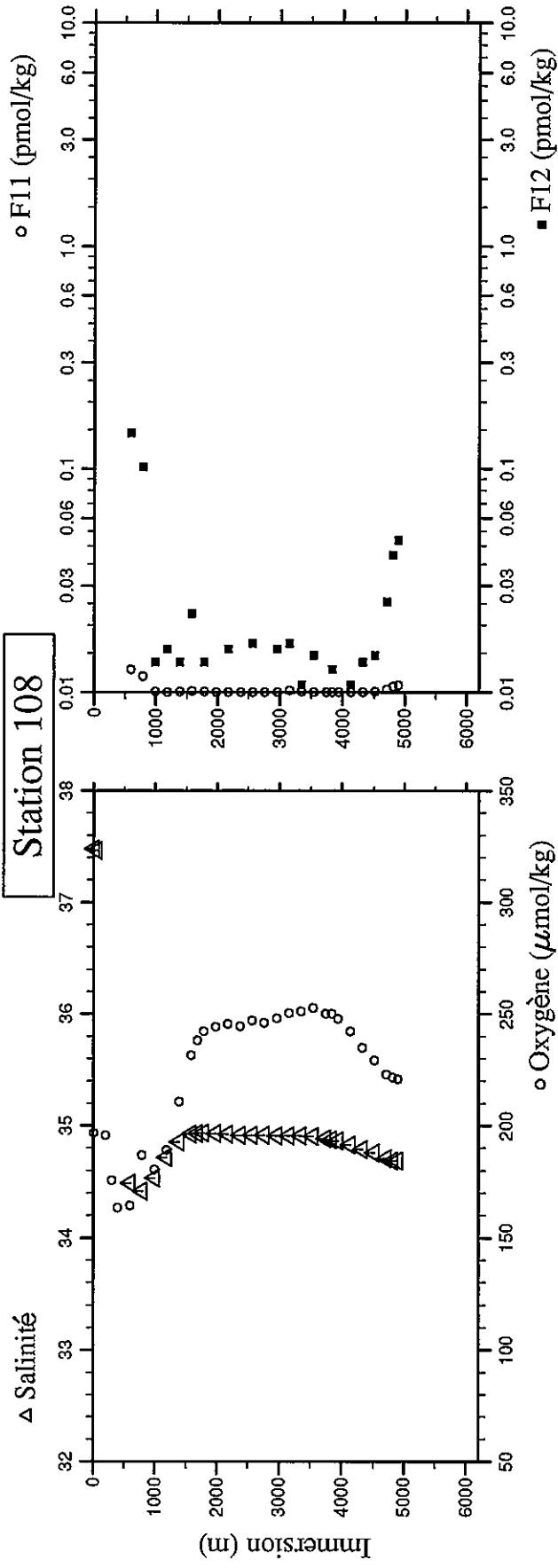
# Station 107



Station : 108 Campagne : CITHER 2  
 Date : 08-02-94 Heure : 15 h 17 mn  
 Position : S 16 52.68 W 30 46.34  
 Dernier niveau à : 4982  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.5	7.5	28.423	24.1502	37.479	196.6	0.04	0.122	1.1	0.2390	0.1448	2077.25	2466.9	8.396
50.7	50.4	27.939	24.4798	37.462	198.1	0.04	0.081	1.2	0.1679	0.1017	2075.98	2463.3	8.395
126.7	125.9	23.622	25.8128	37.027	r	r	0.081	1.3	0.1015	0.0137	2084.89	2439.0	8.351
202.0	200.7	18.771	26.7980	36.093	r	r	0.424	2.0	0.0038	0.0137	2100.18	2378.7	8.245
300.6	298.6	13.541	27.8089	35.277	r	r	0.934	5.0	0.0080	0.0137	2112.48	2328.9	8.111
401.1	398.3	10.265	28.5991	34.876	r	r	1.440	9.4	0.0116	0.0225	2154.04	2312.8	7.998
600.9	596.5	5.914	29.9072	34.486	164.5	20.58	2.106	22.1	0.2390	0.1448	2193.06	2305.3	7.891
799.6	793.3	3.949	31.0134	34.416	186.7	30.56	2.248	34.4	0.1679	0.1017	2203.35	2315.0	7.882
999.2	990.9	3.632	32.0648	34.536	180.4	32.15	2.192	38.8	0.1015	0.0137	2212.37	2323.5	7.880
1200.2	1189.6	3.789	33.0988	34.715	189.1	28.79	1.970	33.1	0.0038	0.0137	2204.35	2330.2	7.910
1400.8	1387.8	3.786	34.1126	34.854	210.8	24.80	1.686	27.4	0.0080	0.0137	2188.95	2328.8	7.953
1599.4	1583.8	3.591	35.0868	34.924	231.6	22.08	1.476	24.3	0.0116	0.0225	2176.46	2328.9	7.999
1699.9	1683.0	3.425	35.5686	34.932	238.2	21.56	1.435	24.6	0.0116	0.0225	2172.23	2329.3	8.008
1800.1	1781.7	3.316	36.0390	34.937	242.3	20.91	1.400	24.6	0.0092	0.0137	2171.86	2331.6	8.006
2001.0	1979.7	3.028	36.9723	34.930	244.2	20.87	1.409	28.3	0.0046	0.0088	2174.43	2334.9	8.008
2199.8	2175.3	2.853	37.8825	34.925	245.4	20.97	1.413	30.7	0.0040	0.0156	2176.47	2337.9	8.011
2400.3	2372.5	2.693	38.7888	34.914	244.5	21.15	1.446	33.8	0.0016	0.0088	2180.42	2339.6	8.008
2598.3	2567.0	2.627	39.6799	34.916	247.0	20.94	1.428	33.9	0.0034	0.0166	2180.70	2339.3	8.012
2800.2	2765.2	2.536	40.5811	34.914	246.1	21.17	1.427	35.9	0.0009	0.0088	2182.19	2341.4	8.011
2999.1	2960.2	2.467	41.4640	34.912	248.0	21.13	1.418	36.4	0.0014	0.0156	2177.29	2342.1	8.012
3198.6	3155.7	2.403	42.3486	34.913	250.3	20.92	1.392	35.6	0.0197	0.0166	2175.64	2342.7	8.015
3399.1	3352.0	2.303	43.2352	34.910	251.2	20.80	1.394	36.6	0.0060	0.0108	2176.88	2342.6	8.017
3599.8	3548.2	2.184	44.1200	34.903	252.5	20.85	1.402	38.6	0.0048	0.0147	2178.99	2343.3	8.011
3799.8	3743.7	1.998	45.0035	34.887	250.0	21.79	1.464	45.0	0.0014	0.0088	2185.47	2346.2	8.006
3898.0	3839.6	1.892	45.4401	34.876	250.2	22.06	1.485	47.7	0.0030	0.0127	2190.10	2349.4	8.003
3998.3	3937.5	1.749	45.8881	34.863	247.8	22.74	1.536	53.1	0.0023	0.0098	2195.96	2352.0	7.996
4198.7	4132.9	1.421	46.7835	34.829	242.1	24.67	1.680	66.9	0.0002	0.0108	2209.15	2357.3	7.977
4398.5	4327.9	1.049	47.6774	34.787	234.8	27.11	1.850	83.8	0.0006	0.0137	2225.63	2365.0	7.955
4597.5	4521.4	0.757	48.5606	34.757	229.3	28.89	1.969	96.0	0.0062	0.0147	2237.30	2369.5	7.937
4797.8	4716.3	0.254	49.4698	34.709	222.8	31.33	2.151	115.0	0.0315	0.0254	2249.51	2376.3	7.902
4899.2	4814.9	0.045	49.9272	34.689	221.5	32.34	2.207	122.1	0.0618	0.0411	2255.31	2387.0	7.894
4979.6	4893.0	0.012	50.2731	34.685	220.8	32.63	2.228	123.6	0.0702	0.0479	2257.25	2384.7	7.895

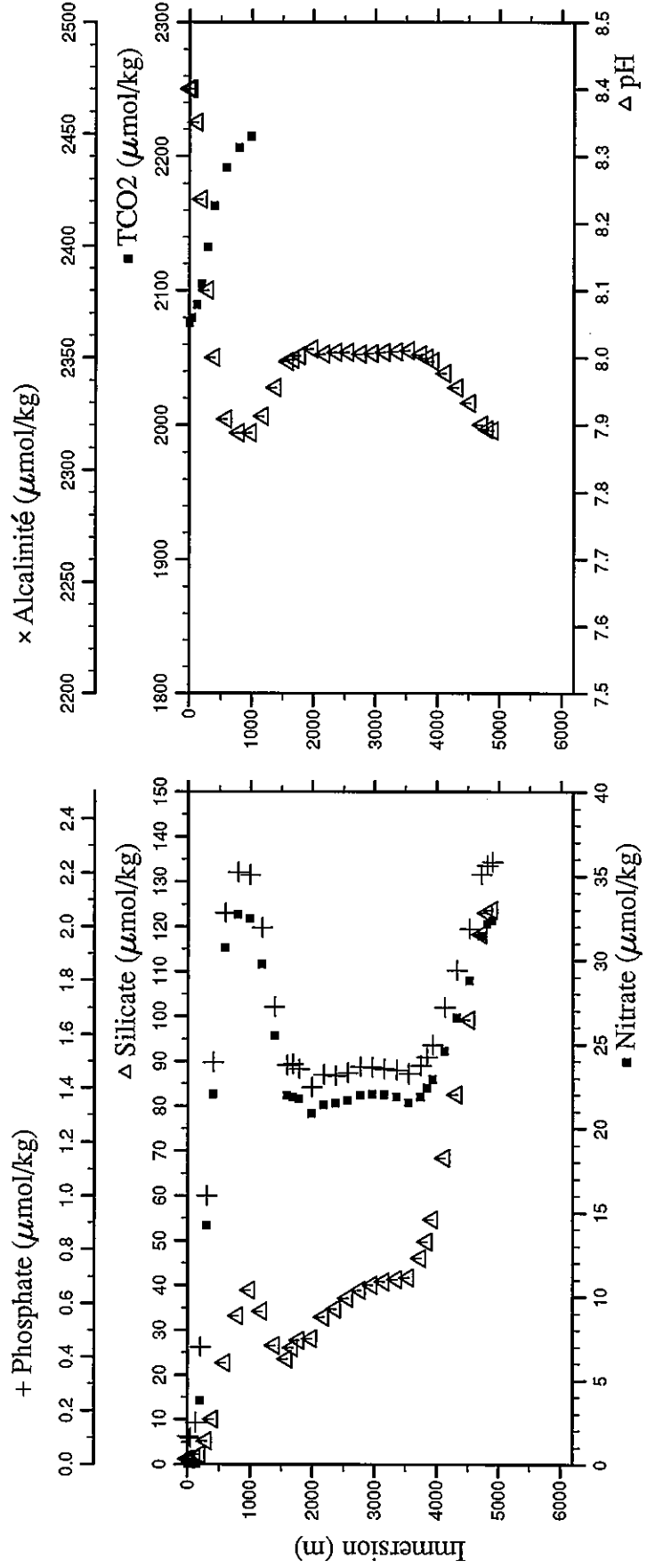
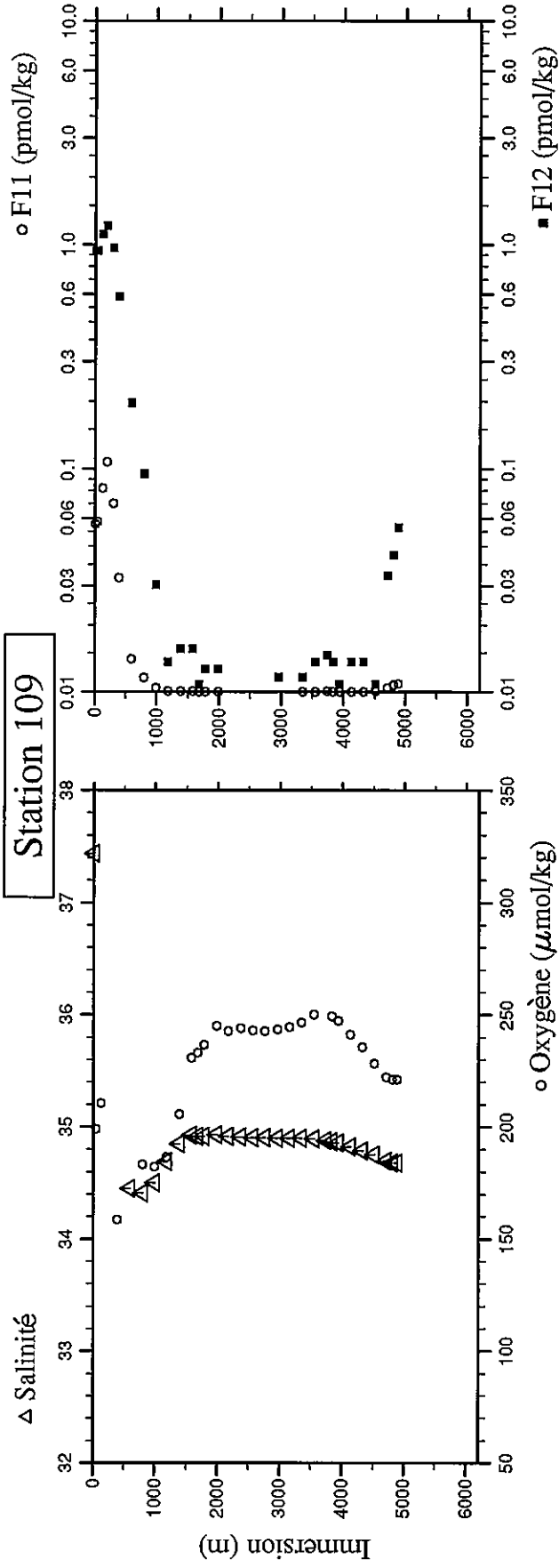
# Station 108



Station : 109 Campagne : CITHER 2  
 Date : 08-02-94 Heure : 21 h 19 mn  
 Position : S 16 23.38 W 30 44.72  
 Dernier niveau à : 4980  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI-NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.2	5.2	28.079	24.2248	37.436	196.0	0.04	0.104	1.2	1.7556	0.9341	2076.11		8.401
40.6	40.4	27.856	24.4647	37.454	199.0	0.04	0.098	1.1	1.7831	0.9370	2079.65		8.401
126.5	125.7	23.480	25.8416	36.977	210.3	0.04	0.156	1.3	2.1345	1.1062	2089.74		8.351
200.3	199.0	18.251	26.8414	35.989	192.7	3.80	0.437	2.2	2.4047	1.2077	2104.92		8.236
301.6	299.6	13.332	27.8393	35.225	170.8	14.22	1.000	5.3	1.9734	0.9610	2132.30		8.101
400.6	397.8	9.999	28.6245	34.850	158.5	22.05	1.497	10.1	1.1925	0.5858	2163.13		8.001
599.6	595.2	5.576	29.9232	34.453	175.9	30.74	2.051	22.7	0.3438	0.1966	2191.82		7.909
802.2	4.094	4.094	31.0068	34.414	183.3	32.72	2.202	33.2	0.1474	0.0949	2206.63		7.889
1000.7	992.4	3.644	32.0434	34.506	182.1	32.47	2.192	39.0	0.0461	0.0303	2215.14		7.889
1197.9	1187.4	3.785	33.0632	34.690	186.6	29.77	1.996	34.3	0.0067	0.0137			7.913
1401.7	1388.7	3.942	34.0934	34.849	205.7	25.52	1.703	26.6	0.0072	0.0156			7.956
1601.2	1585.6	3.681	35.0848	34.924	230.8	21.95	1.485	23.6	0.1005	0.0108			7.995
1699.7	1682.8	3.427	35.5554	34.915	233.1	21.88	1.490	26.1	0.0002	0.0108			7.997
1800.3	1782.0	3.246	36.0340	34.917	236.7	21.76	1.471	27.7	0.0006	0.0127			8.003
2009.6	1988.2	3.030	37.0129	34.931	245.1	20.87	1.404	28.1	0.0045	0.0127			8.013
2200.2	2175.8	2.801	37.8850	34.915	242.8	21.39	1.450	33.0	-0.0001	0.0098			8.006
2400.8	2373.0	2.683	38.7939	34.912	244.0	21.48	1.446	34.7	-0.0016	0.0068			8.008
2599.7	2568.4	2.576	39.6858	34.905	243.0	21.66	1.456	37.2	-0.0018	0.0059			8.006
2799.2	2764.3	2.494	40.5761	34.904	242.8	21.97	1.479	38.9	-0.0023	0.0088			8.008
2999.1	2960.3	2.419	41.4654	34.900	243.4	22.02	1.478	40.1	-0.0013	0.0117			8.007
3199.7	3156.8	2.344	42.3534	34.899	244.5	21.99	1.472	40.9	-0.0020	0.0059			8.008
3399.8	3352.7	2.259	43.2377	34.899	246.6	21.86	1.466	41.3	0.0022	0.0117			8.009
3600.5	3549.0	2.136	44.1275	34.894	250.0	21.53	1.454	41.8	0.0007	0.0137			8.011
3799.7	3743.7	1.949	45.0097	34.882	248.0	21.88	1.483	46.1	0.0056	0.0147			8.005
3898.8	3840.4	1.836	45.4495	34.870	249.4	22.40	1.516	49.7	0.0008	0.0137			8.000
3998.6	3937.9	1.711	45.8933	34.858	247.3	22.93	1.560	54.7	0.0031	0.0108			7.995
4199.0	4133.3	1.397	46.7869	34.825	241.2	24.62	1.699	68.4	0.0012	0.0137			7.977
4396.9	4326.2	1.090	47.6665	34.790	235.7	26.56	1.837	82.5	0.0018	0.0137			7.956
4598.0	4522.0	0.700	48.5664	34.751	228.3	28.77	1.992	99.2	0.0052	0.0108			7.933
4798.4	4717.0	0.164	49.4830	34.697	222.0	31.46	2.193	118.3	0.0449	0.0333			7.901
4897.3	4813.2	0.023	49.9203	34.684	221.0	32.17	2.228	123.1	0.0761	0.0411			7.894
4978.1	4891.7	0.001	50.2673	34.682	221.0	32.37	2.240	123.8	0.0843	0.0548			7.892

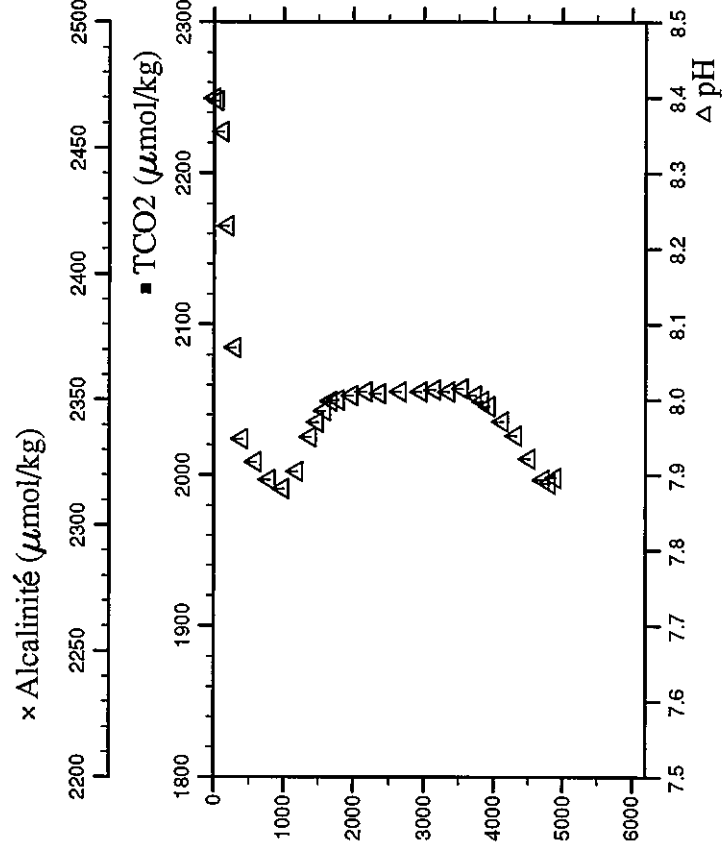
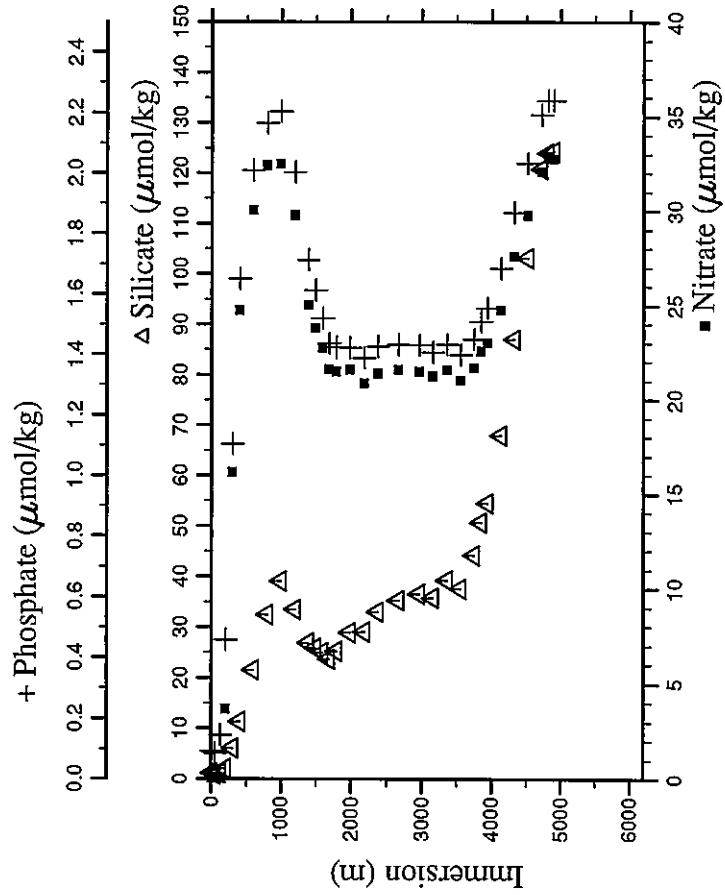
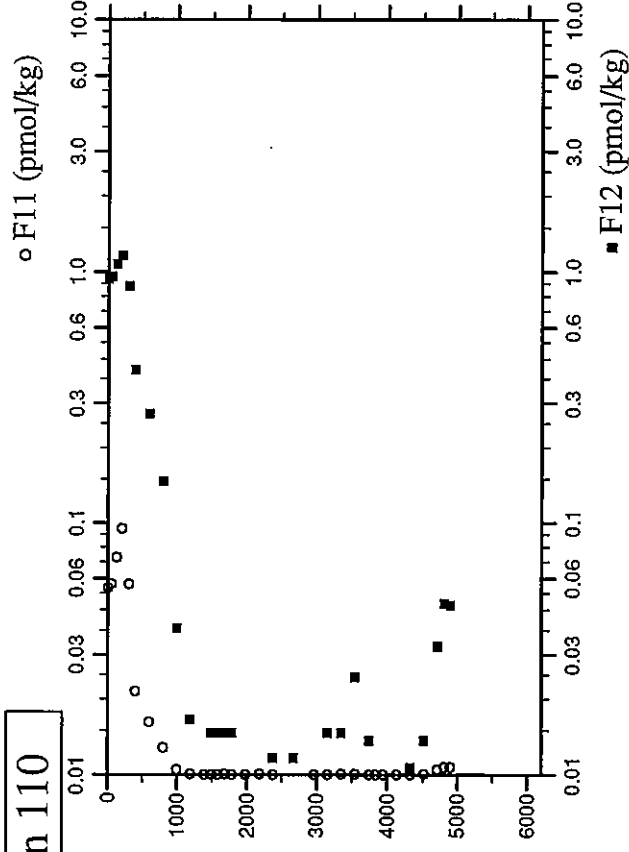
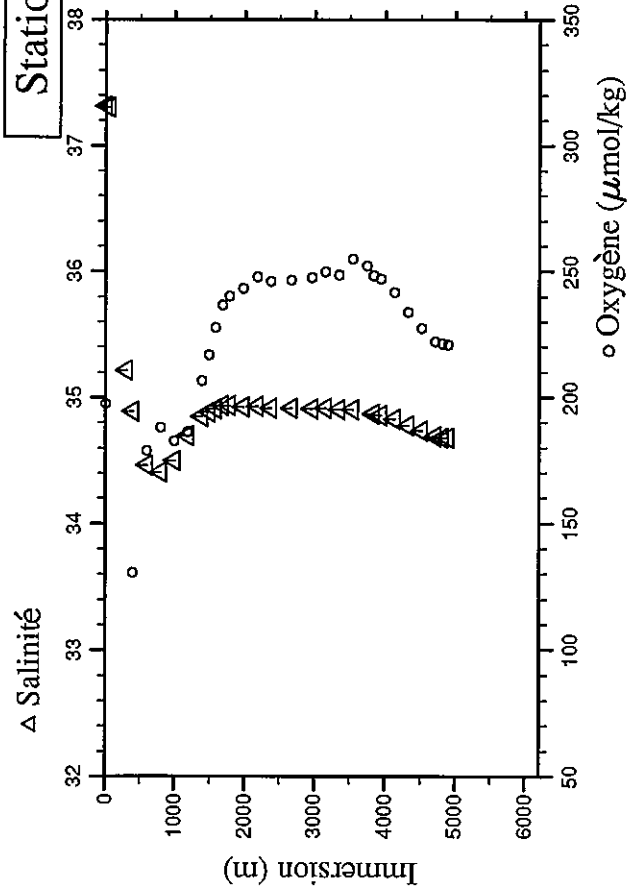
# Station 109



Station : 110 Campagne : CITHER 2  
 Date : 09-02-94 Heure : 3 h 55 mn  
 Position : S 15 53.69 W 30 43.12  
 Dernier niveau à : 4980  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.1	4.1	27.850	24.2013	37.315	197.4	0.04	0.092	1.2	1.7260	0.9351			8.399
52.2	51.9	27.831	24.4072	37.307	198.6	0.04	0.086	1.0	1.7638	0.9586			8.396
125.7	124.9	24.001	25.7399	37.089	198.6	0.04	0.145	1.2	2.0141	1.0730			8.355
200.2	198.9	18.433	26.8709	36.038	189.2	3.71	0.459	2.1	2.2800	1.1568			8.230
302.0	300.0	13.089	27.8775	35.217	158.3	16.17	1.104	6.1	1.7638	0.8789			8.069
400.0	397.3	10.164	28.6335	34.888	130.7	24.76	1.652	11.3	0.7758	0.4087			7.948
599.7	595.3	5.791	29.9025	34.464	178.8	30.04	2.010	21.5	0.4865	0.2719			7.918
801.5	795.2	4.158	30.9878	34.405	188.1	32.42	2.167	32.5	0.2515	0.1467			7.894
999.6	991.3	3.636	32.0343	34.500	182.6	32.48	2.204	39.1	0.0497	0.0381			7.882
1200.4	1189.9	3.831	33.0759	34.695	186.2	29.75	2.002	33.5	0.0057	0.0166			7.905
1399.2	1386.3	3.868	34.0879	34.849	206.7	25.03	1.712	26.9	0.0020	0.0059			7.951
1500.6	1486.4	3.740	34.5910	34.885	216.9	23.78	1.613	25.9	0.0014	0.0147			7.970
1601.6	1586.1	3.603	35.0869	34.913	227.8	22.74	1.530	25.0	0.0029	0.0147			7.985
1699.6	1682.7	3.528	35.5546	34.936	236.5	21.63	1.438	23.7	0.0056	0.0147			7.998
1800.9	1782.6	3.343	36.0327	34.934	240.1	21.50	1.425	25.2	0.0047	0.0147			8.000
1999.3	1978.1	3.038	36.9610	34.926	243.1	21.60	1.423	28.9	0.0015	0.0078			8.006
2202.6	2178.2	2.907	37.8934	34.933	247.9	20.87	1.388	29.0	0.0061	0.0078			8.011
2400.9	2373.2	2.716	38.7929	34.916	245.9	21.39	1.426	33.0	0.0022	0.0117			8.008
2699.0	2666.0	2.582	40.1286	34.918	246.4	21.58	1.433	35.3	-0.0007	0.0117			8.011
2998.6	2959.9	2.473	41.4614	34.913	247.6	21.50	1.430	36.5	0.0001	0.0098			8.011
3198.9	3156.1	2.406	42.3485	34.916	249.8	21.24	1.407	35.8	0.0013	0.0147			8.013
3400.3	3353.3	2.289	43.2370	34.906	248.5	21.60	1.434	39.2	0.0052	0.0147			8.011
3599.3	3547.9	2.200	44.1168	34.903	254.8	21.00	1.400	37.5	0.0057	0.0244			8.015
3798.7	3742.8	1.975	45.0041	34.896	252.0	21.70	1.449	44.1	0.0038	0.0137			8.006
3899.0	3840.7	1.847	45.4486	34.869	248.3	22.58	1.509	50.7	0.0002	0.0088			7.998
3998.7	3938.1	1.736	45.8912	34.861	247.1	23.02	1.554	54.4	0.0006	0.0059			7.991
4198.0	4132.5	1.426	46.7792	34.828	241.7	24.76	1.685	67.9	0.0016	0.0098			7.971
4398.3	4327.7	0.992	47.6824	34.780	233.7	27.59	1.870	87.0	0.0038	0.0107			7.952
4596.8	4521.0	0.607	48.5705	34.738	227.4	29.77	2.032	103.2	0.0097	0.0137			7.922
4799.0	4717.7	0.111	49.4926	34.693	222.2	32.06	2.193	120.8	0.0485	0.0323			7.894
4899.9	4815.8	-0.001	49.9346	34.684	221.4	32.78	2.240	124.0	0.0752	0.0479			7.889
4979.2	4892.9	-0.009	50.2731	34.681	220.9	32.73	2.240	124.3	0.0741	0.0469			7.896

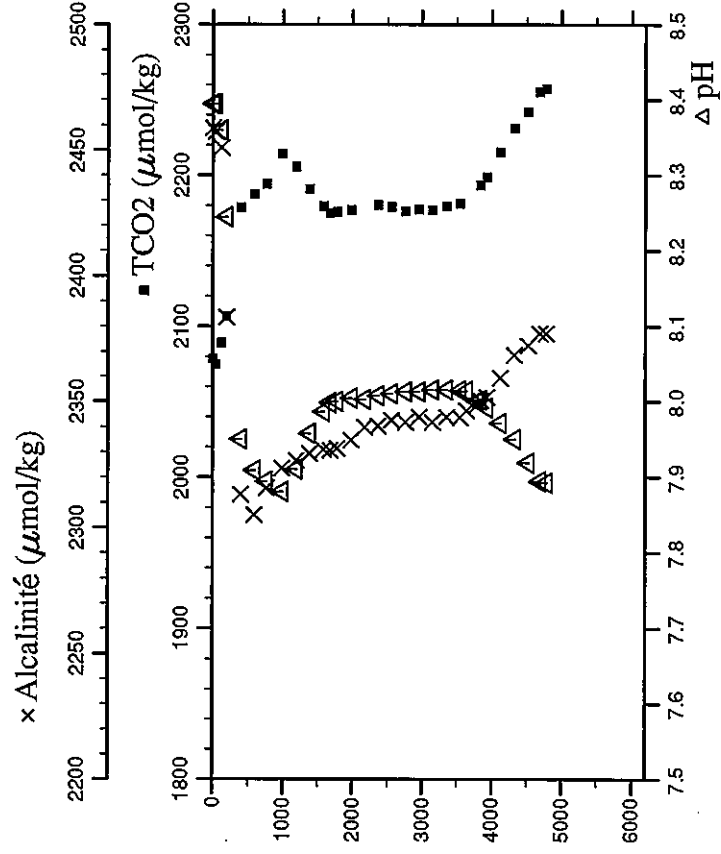
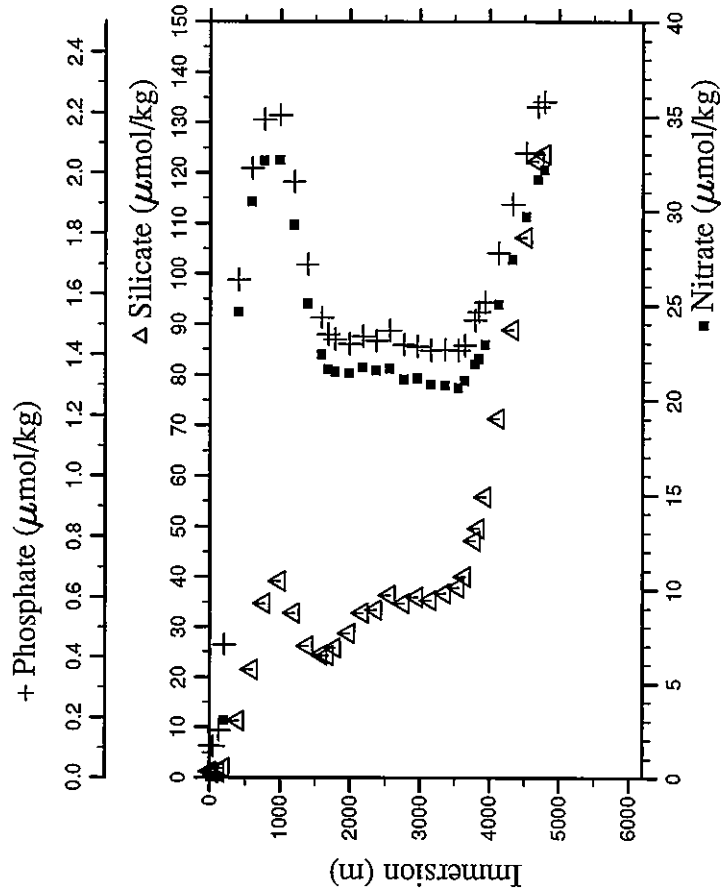
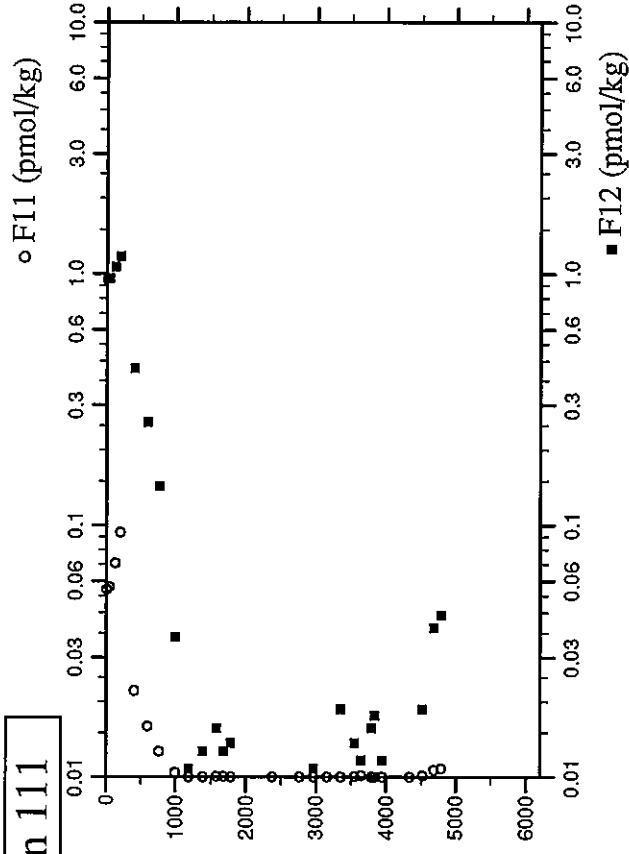
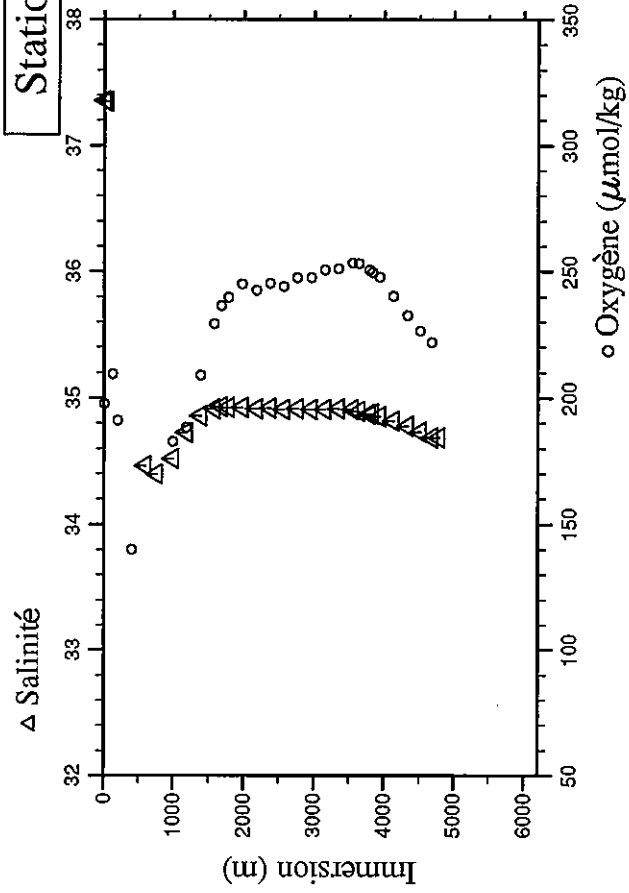
# Station 110



Station : 111 Campagne : CITHR 2  
 Date : 09-02-94 Heure : 9 h 59 mn  
 Position : S 15 24.25 W 30 41.71  
 Dernier niveau à : 4870  
 Nb prélèvements : 31

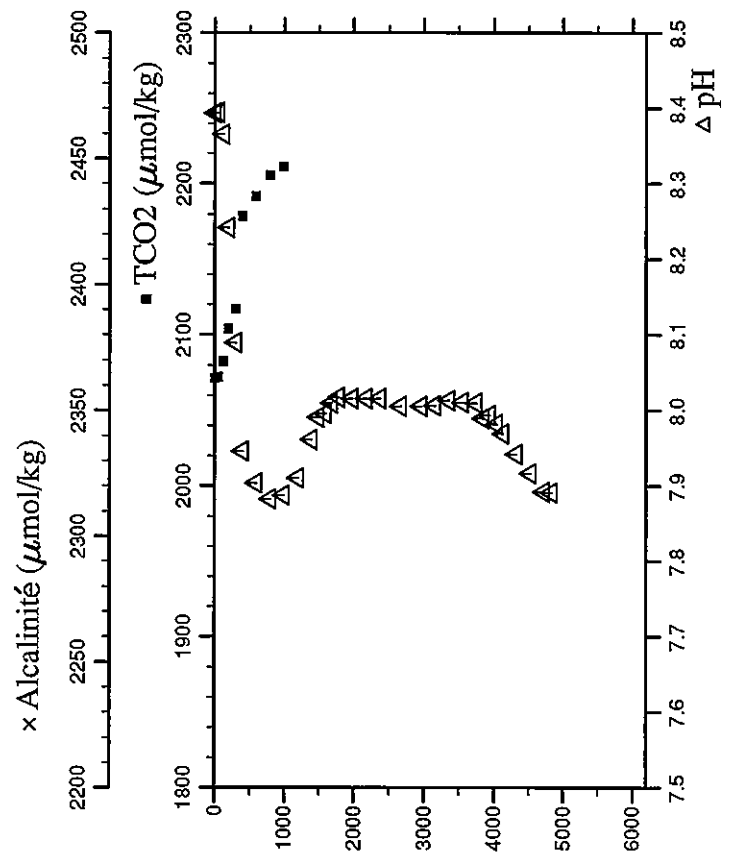
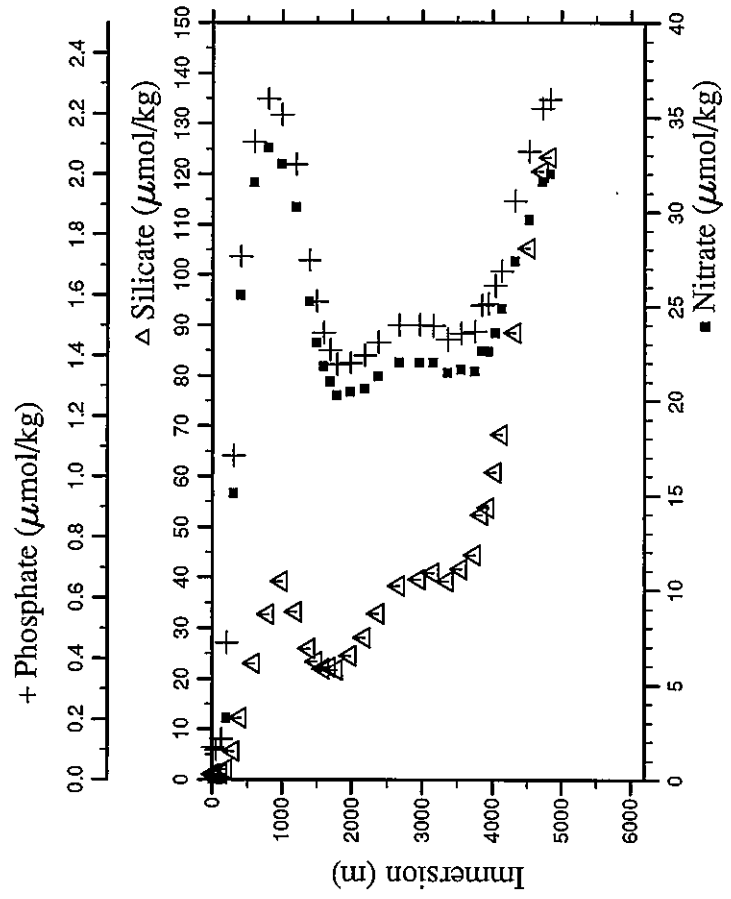
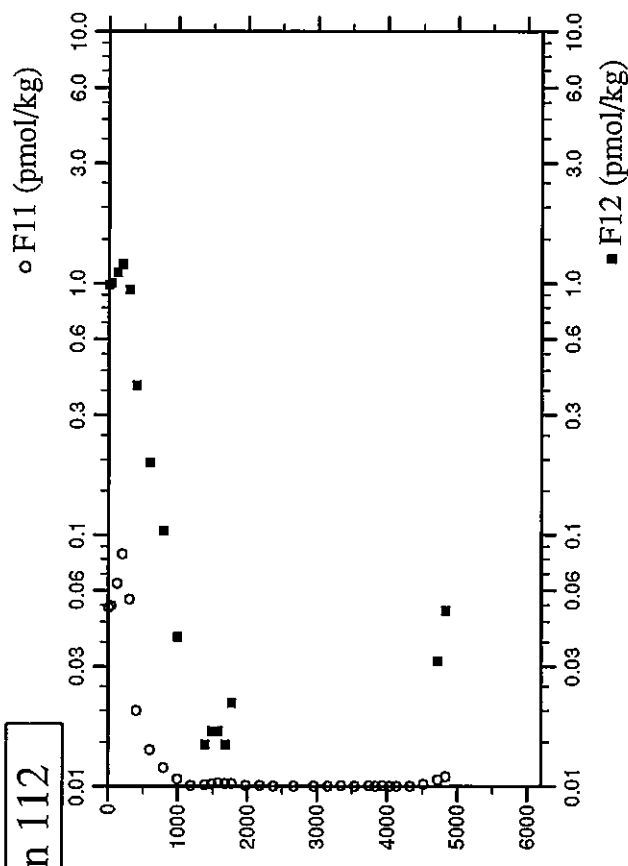
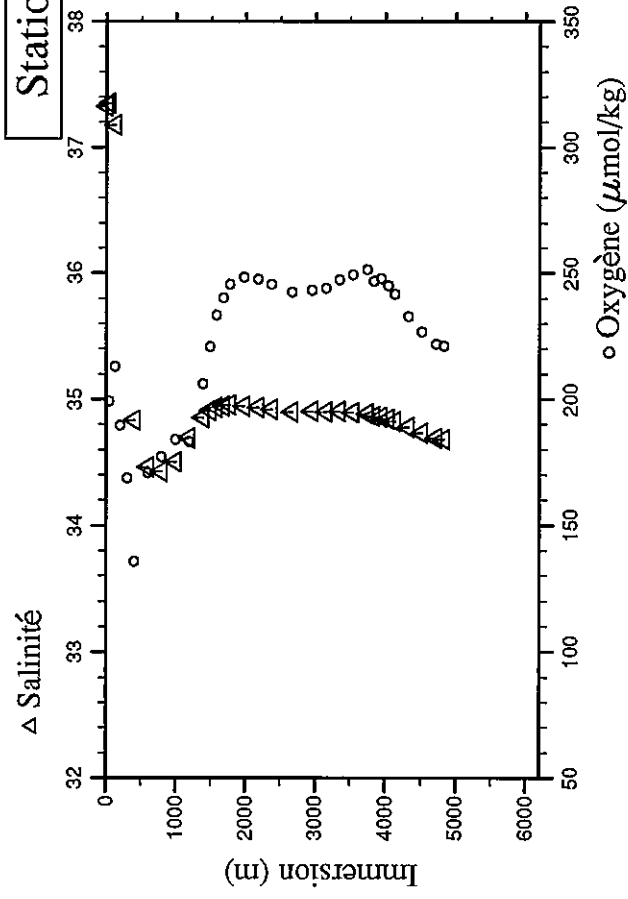
PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.7	4.7	27.840	24.2414	37.357	197.7	0.04	0.107	1.2	1.7413	0.9546	2078.61	2458.7	8.395
42.6	42.3	27.728	24.4327	37.352	198.4	0.04	0.104	1.0	1.7655	0.9605	2074.63	2457.2	8.395
125.6	124.8	24.569	25.6573	37.155	209.3	0.04	0.157	1.1	1.9810	1.0650	2089.28	2450.9	8.360
201.1	199.8	19.230	26.7401	36.134	191.2	3.06	0.441	1.9	2.2672	1.1684	2106.30	2383.4	8.245
401.8	399.1	9.919	28.6545	34.861	140.0	24.64	1.646	11.3	0.8003	0.4205	2178.44	2313.0	7.951
600.4	596.0	5.787	29.9020	34.463	178.9	30.47	2.015	21.5	0.4728	0.2573	2187.52	2304.9	7.909
769.9	764.0	3.966	30.8637	34.396	192.5	32.66	2.177	34.7	0.2399	0.1428	2194.38	2315.6	7.895
1002.1	993.8	3.622	32.0609	34.518	182.7	32.68	2.192	39.2	0.0462	0.0362	2214.17	2323.5	7.881
1200.4	1189.9	3.870	33.0969	34.727	188.3	29.26	1.972	32.9	0.0030	0.0108	2205.67	2326.5	7.911
1401.5	1388.6	3.872	34.1074	34.860	208.9	25.07	1.698	26.2	0.0020	0.0127	2190.88	2329.3	7.958
1600.2	1584.7	3.633	35.0809	34.917	229.2	22.40	1.522	24.4	0.0081	0.0156	2179.23	2330.9	7.987
1701.3	1684.5	3.484	35.5653	34.931	236.4	21.62	1.466	24.3	0.0075	0.0127	2174.56	2330.7	7.999
1800.4	1782.2	3.305	36.0349	34.928	239.7	21.49	1.450	25.8	0.0041	0.0137	2175.37	2331.5	8.001
2001.3	1980.1	3.046	36.9689	34.925	244.9	21.41	1.436	28.8	-0.0006	0.0088	2176.69	2334.7	8.005
2200.6	2176.3	2.816	37.8833	34.917	242.5	21.73	1.460	32.8	-0.0001	0.0078	2176.69	2339.7	8.003
2399.2	2371.6	2.714	38.7842	34.919	245.3	21.57	1.445	33.5	0.0017	0.0088	2180.20	2340.4	8.008
2599.5	2568.4	2.588	39.6854	34.912	244.1	21.66	1.479	36.4	-0.0013	0.0078	2179.06	2342.5	8.011
2799.8	2765.0	2.550	40.5786	34.918	247.6	21.10	1.433	34.7	0.0009	0.0068	2176.12	2341.9	8.013
2999.9	2961.2	2.465	41.4690	34.913	247.5	21.15	1.426	36.0	0.0022	0.0108	2177.38	2343.9	8.013
3200.3	3157.6	2.394	42.3576	34.913	250.5	20.81	1.415	35.4	0.0022	0.0098	2176.80	2341.8	8.016
3400.8	3353.9	2.291	43.2445	34.914	251.2	20.77	1.417	36.8	0.0037	0.0186	2179.25	2343.8	8.016
3600.8	3549.5	2.170	44.1275	34.908	253.4	20.64	1.413	37.9	0.0058	0.0137	2180.99	2343.6	8.015
3699.3	3645.8	2.080	44.5633	34.897	253.2	21.00	1.430	40.1	0.0111	0.0117	2180.99	2346.3	8.014
3845.5	3788.6	1.898	45.2148	34.875	250.6	21.89	1.514	47.2	0.0025	0.0156	2180.99	2348.4	8.001
3899.4	3841.2	1.827	45.4543	34.873	249.7	22.16	1.542	49.6	0.0044	0.0176	2193.22	2350.4	8.002
4000.7	3940.1	1.680	45.9064	34.855	247.8	22.92	1.573	55.8	0.0017	0.0117	2198.85	2351.6	7.992
4196.0	4130.6	1.329	46.7809	34.818	240.2	25.05	1.735	71.4	-0.0014	0.0098	2215.61	2359.3	7.972
4402.3	4331.7	0.942	47.7059	34.776	232.5	27.42	1.898	88.9	0.0018	0.0078	2231.04	2368.4	7.951
4598.8	4523.0	0.513	48.5909	34.735	226.4	29.68	2.066	107.2	0.0141	0.0186	2242.16	2372.4	7.919
4770.4	4690.0	0.058	49.3748	34.687	221.9	31.67	2.220	122.4	0.0679	0.0391	2255.37	2377.2	7.895
4867.2	4784.1	0.003	49.7951	34.685	221.4	32.18	2.235	123.7	0.0789	0.0440	2257.50	2377.1	7.893





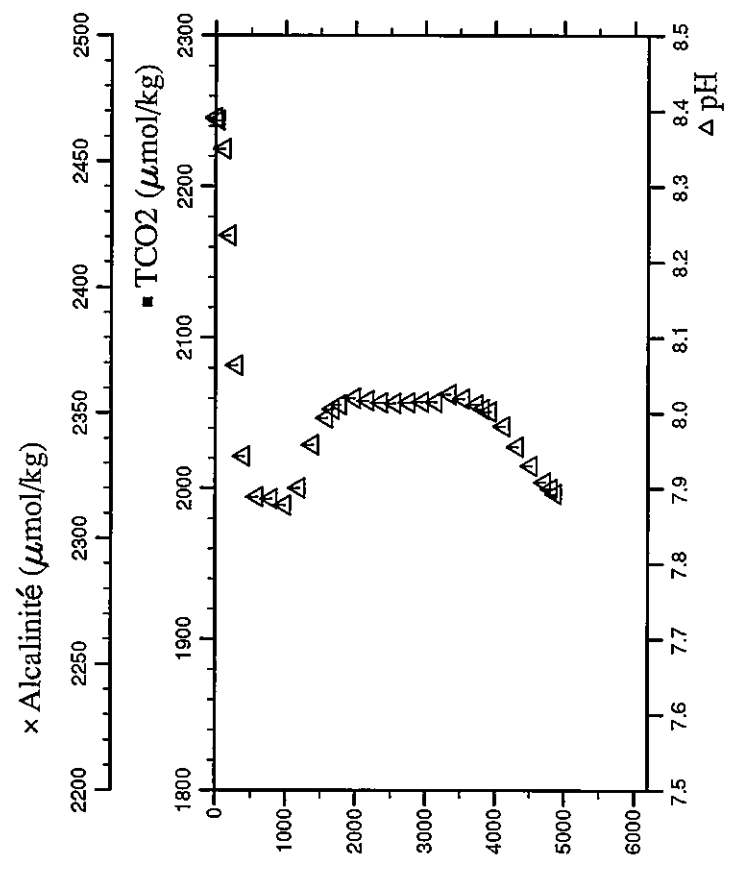
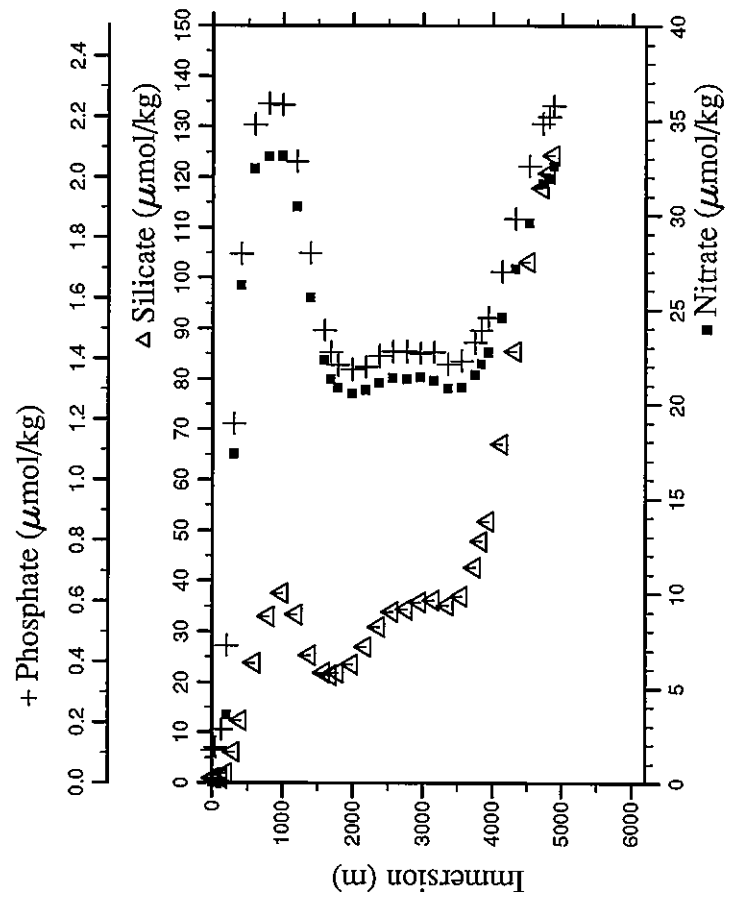
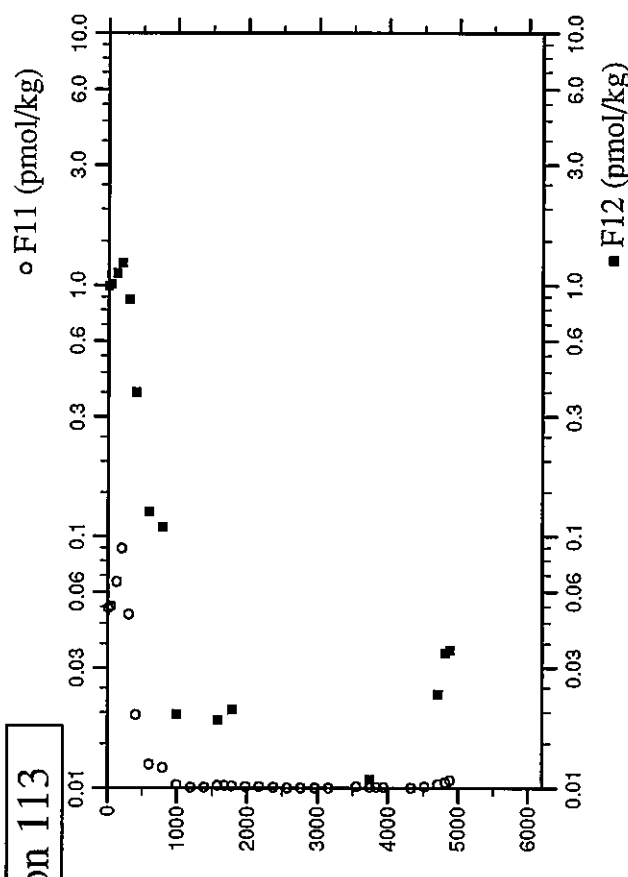
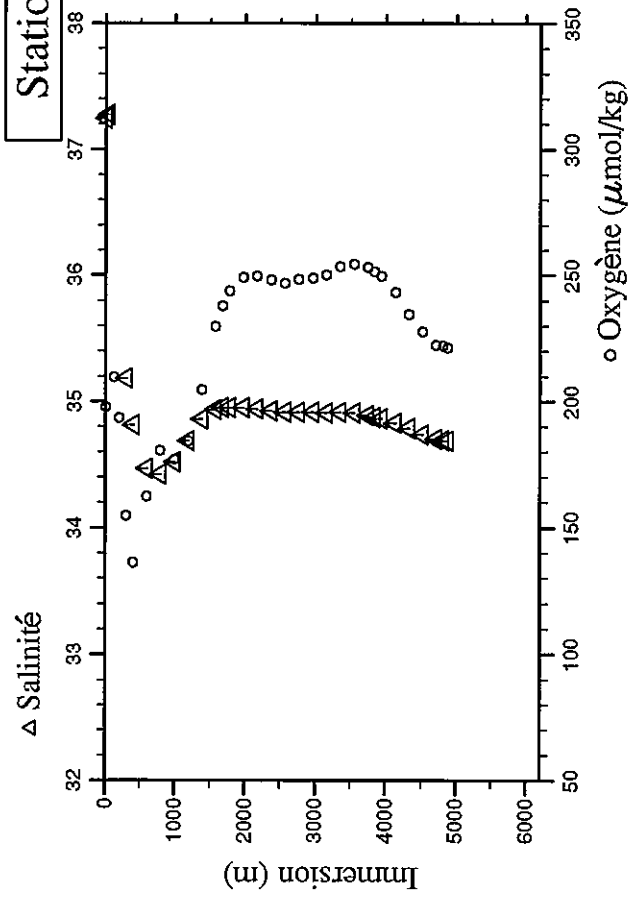
Station : 112 Campagne : CITHIER 2  
 Date : 09-02-94 Heure : 16 h 16 mn  
 Position : S 14 54.82 W 30 40.01  
 Dernier niveau à : 4919  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
3.3	3.3	27.893	24.1914	37.325	197.8	0.04	0.107	1.1	1.6545	0.9878	2071.54		8.394
46.3	46.0	27.612	24.4858	37.352	199.3	0.04	0.098	1.1	1.6724	1.0015	2072.04		8.395
125.0	124.2	24.627	25.6328	37.178	213.0	0.04	0.134	1.2	1.8810	1.1012	2082.46		8.366
200.9	199.6	18.883	26.7687	36.130	189.5	3.25	0.453	2.1	2.1527	1.1900	2104.03		8.242
302.0	300.0	13.011	27.8769	35.201	168.6	15.11	1.059	5.7	1.7347	0.9434	2117.10		8.090
401.9	399.2	9.648	28.6888	34.835	135.7	25.59	1.727	12.3	0.7041	0.3931	2178.59		7.946
600.5	596.1	5.626	29.9273	34.463	170.7	31.57	2.107	23.0	0.3426	0.1937	2191.69		7.904
798.7	792.5	4.224	30.9840	34.426	177.2	33.38	2.248	32.7	0.1722	0.1037	2205.49		7.883
1000.6	992.4	3.637	32.0413	34.506	184.1	32.54	2.195	39.2	0.0695	0.0391	2211.31		7.888
1199.7	1189.3	3.856	33.0649	34.690	183.1	30.26	2.032	33.2	0.0067	0.0039			7.911
1398.1	1385.3	3.986	34.0767	34.855	206.1	25.26	1.715	26.0	0.0125	0.0147			7.962
1499.4	1485.3	3.884	34.5846	34.909	220.9	23.08	1.579	22.5	0.0213	0.0166			7.991
1601.1	1585.7	3.740	35.0827	34.937	233.2	21.82	1.476	22.0	0.0303	0.0166			7.996
1699.2	1682.4	3.568	35.5568	34.948	240.2	21.02	1.419	22.3	0.0267	0.0147			8.010
1796.9	1778.8	3.460	36.0177	34.957	245.4	20.30	1.371	21.8	0.0272	0.0215			8.018
2000.6	1979.4	3.190	36.9610	34.948	248.2	20.47	1.375	24.6	0.0100	0.0078			8.016
2200.7	2176.4	2.965	37.8776	34.935	247.6	20.64	1.402	28.2	0.0092	0.0020			8.016
2400.6	2373.0	2.749	38.7874	34.919	245.4	21.30	1.443	32.8	0.0026	0.0078			8.016
2701.0	2668.1	2.542	40.1349	34.902	242.5	22.04	1.501	38.3	0.0014	-0.0010			8.006
2997.1	2958.5	2.442	41.4514	34.903	243.2	22.04	1.500	39.6	0.0003	0.0000			8.006
3197.4	3154.8	2.360	42.3395	34.898	244.0	22.03	1.499	40.8	0.0016	-0.0010			8.007
3401.3	3354.4	2.286	43.2431	34.905	247.2	21.49	1.455	39.2	0.0057	0.0068			8.013
3596.8	3545.7	2.156	44.1068	34.895	249.4	21.66	1.474	41.6	0.0028	0.0000			8.011
3798.5	3742.8	1.992	45.0013	34.887	251.3	21.56	1.480	44.4	0.0075	0.0078			8.010
3998.7	3840.6	1.842	45.4469	34.866	246.9	22.66	1.567	52.4	0.0005	-0.0019			7.990
3999.2	3938.7	1.722	45.8950	34.861	247.9	22.61	1.571	53.8	0.0054	0.0000			7.994
4101.4	4038.4	1.556	46.3515	34.842	244.9	23.58	1.633	60.8	0.0004	0.0049			7.982
4200.0	4134.6	1.402	46.7906	34.826	241.8	24.88	1.679	68.3	0.0004	0.0020			7.969
4398.0	4327.6	0.949	47.6855	34.776	232.9	27.39	1.912	88.5	0.0044	0.0088			7.942
4599.8	4524.1	0.539	48.5936	34.734	226.7	29.58	2.074	105.3	0.0179	0.0078			7.917
4801.6	4720.5	0.105	49.5042	34.694	221.9	31.60	2.218	120.6	0.0636	0.0313			7.892
4915.8	4831.5	0.007	50.0020	34.684	221.0	32.02	2.247	123.4	0.0883	0.0499			7.891



Station : 113 Campagne : CITHIER 2  
 Date : 09-02-94 Heure : 22 h 20 mn  
 Position : S 14 25.35 W 30 38.45  
 Dernier niveau à : 4960  
 Nb prélèvements : 32

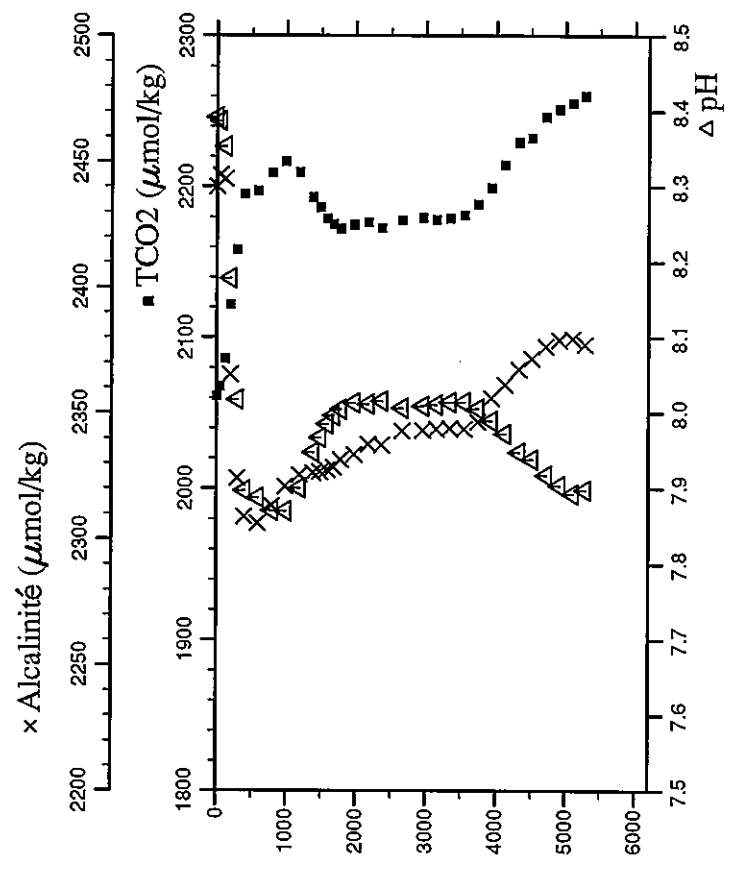
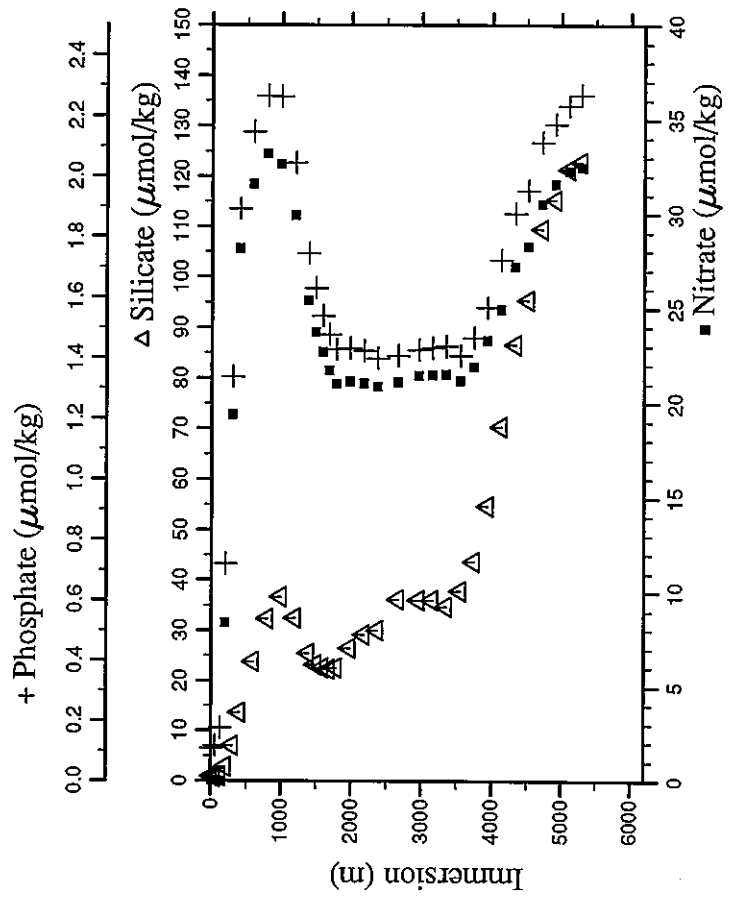
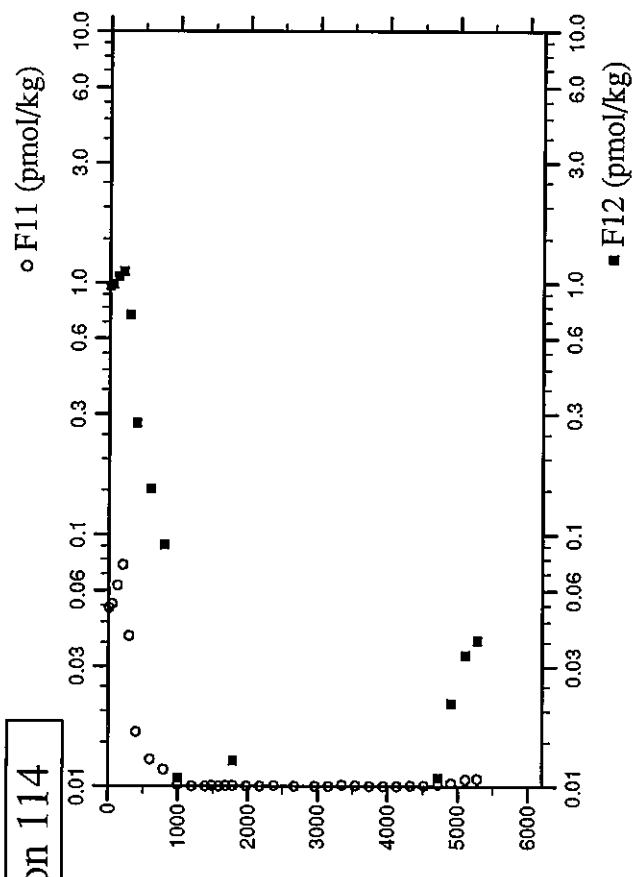
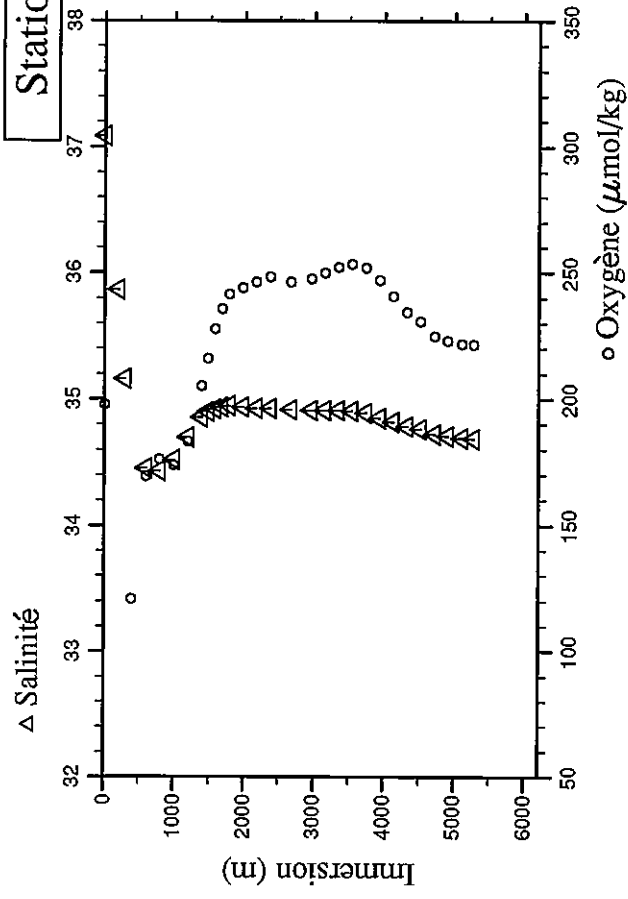
PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- um/kg	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.0	5.0	27.718	24.1964	37.247	197.8	0.04	0.108	0.9	1.6672	0.9928			8.391
42.2	42.0	27.480	24.4574	37.276	199.9	0.04	0.117	0.9	1.6872	1.0123			8.388
126.7	125.9	23.881	25.7373	37.050	209.7	0.04	0.176	1.0	1.9110	1.1189			8.350
200.0	198.7	17.790	26.8958	35.962	193.4	3.58	0.455	2.0	2.2179	1.2253			8.235
299.6	297.6	12.849	27.8958	35.183	154.8	17.36	1.185	6.2	1.6087	0.8770			8.063
402.0	399.3	9.464	28.7048	34.812	136.2	26.26	1.746	12.4	0.6765	0.3765			7.943
601.7	597.3	5.549	29.9457	34.468	162.3	32.44	2.172	23.8	0.2218	0.1252			7.889
800.2	794.0	4.177	30.9924	34.422	180.4	33.08	2.243	33.0	0.1944	0.1086			7.886
1001.4	993.2	3.749	32.0420	34.518	176.9	33.11	2.239	37.6	0.0328	0.0196			7.878
1203.2	1192.7	3.861	33.0785	34.686	184.3	30.45	2.052	33.4	0.0060	0.0029			7.901
1399.2	1386.4	4.004	34.0769	34.859	204.6	25.64	1.748	25.4	0.0094	0.0078			7.958
1600.0	1584.6	3.834	35.0640	34.934	229.8	22.35	1.494	21.9	0.0273	0.0186			7.994
1700.6	1683.8	3.674	35.5497	34.949	237.9	21.33	1.423	21.4	0.0276	0.0098			8.006
1800.4	1782.2	3.505	36.0248	34.953	243.7	20.89	1.381	21.9	0.0225	0.0205			8.012
2001.8	1980.7	3.241	36.9630	34.953	249.0	20.53	1.365	23.6	0.0116	0.0098			8.020
2197.4	2173.2	3.001	37.8627	34.943	249.5	20.75	1.374	27.0	0.0120	0.0098			8.017
2399.1	2371.6	2.784	38.7809	34.927	248.1	21.13	1.410	30.9	0.0050	0.0039			8.014
2599.2	2568.2	2.647	39.6817	34.918	246.8	21.39	1.425	33.9	0.0032	0.0010			8.013
2798.1	2763.4	2.567	40.5701	34.918	248.4	21.32	1.425	34.4	0.0025	0.0059			8.014
3001.6	2963.0	2.470	41.4767	34.915	248.7	21.42	1.418	35.8	0.0025	0.0039			8.015
3199.1	3156.6	2.395	42.3511	34.912	250.1	21.26	1.423	36.2	0.0022	0.0059			8.015
3400.1	3353.3	2.321	43.2391	34.916	253.3	20.86	1.382	35.1					8.025
3601.7	3550.5	2.196	44.1297	34.911	254.4	20.87	1.393	36.9	0.0114	0.0068			8.019
3797.9	3742.3	2.008	44.9980	34.889	253.1	21.55	1.454	42.6	0.0079	0.0108			8.012
3897.1	3839.1	1.868	45.4390	34.875	251.3	22.15	1.494	47.8	0.0060	0.0088			8.006
4000.4	3940.0	1.764	45.8964	34.864	249.6	22.74	1.536	51.8	0.0053	0.0059			8.002
4197.0	4131.8	1.435	46.7741	34.831	243.1	24.59	1.687	67.0	-0.0004	0.0039			7.983
4396.8	4326.5	1.038	47.6713	34.786	234.6	27.14	1.864	85.5	0.0036	0.0039			7.956
4597.6	4522.1	0.609	48.5749	34.740	227.6	29.61	2.037	103.2	0.0150	0.0068			7.930
4798.4	4717.4	0.200	49.4817	34.703	222.4	31.66	2.176	117.9	0.0400	0.0235			7.908
4899.3	4815.6	0.116	49.9194	34.693	222.2	31.94	2.199	120.8	0.0537	0.0342			7.900
4960.7	4875.2	0.010	50.1928	34.686	221.3	32.59	2.237	124.4	0.0727	0.0352			7.893



Station : 114 Campagne : CIPHER 2  
 Date : 10-02-94 Heure : 4 h 26 mn  
 Position : S 13 55.86 W 30 36.78  
 Dernier niveau à : 5383  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.6	4.6	27.667	24.0940	37.088	197.6	0.04	0.108	0.9	1.6550	0.9714	2061.08	2439.9	8.392
51.5	51.2	27.376	24.4246	37.152	200.6	r 0.04	0.117	0.8	1.6911	0.9870	2067.45	2444.5	8.387
126.6	125.8	24.314	25.6826	37.089	210.0	r 0.00	0.176	0.9	1.8650	1.0563	2085.86	2443.1	8.353
201.9	200.6	17.290	26.9919	35.869	172.3	r 8.41	0.722	0.9	2.0544	1.1091	2121.87	2365.3	8.179
299.0	297.1	12.440	27.9517	35.161	139.6	r 19.40	1.338	7.1	1.3951	0.7450	2158.19	2324.1	8.018
400.6	397.9	9.137	28.7532	34.794	120.6	r 28.16	1.893	13.7	0.5037	0.2768	2194.95	2308.8	7.897
601.2	596.8	5.359	29.9584	34.454	169.5	31.58	2.147	23.8	0.2523	0.1516	2197.26	2306.2	7.888
800.6	794.4	4.221	30.9966	34.430	176.0	33.18	2.266	32.4	0.1563	0.0910	2209.03	2313.0	7.871
1000.4	992.2	3.793	32.0358	34.521	173.7	32.65	2.263	36.7	0.0165	0.0108	2216.79	2320.8	7.870
1201.4	1191.0	3.847	33.0787	34.696	183.1	29.94	2.046	32.5	0.0021	0.0010	2209.50	2325.4	7.901
1401.4	1388.6	3.929	34.0955	34.854	205.1	25.41	1.745	25.5	0.0039	0.0020	2192.99	2326.1	7.948
1499.2	1485.2	3.905	34.5737	34.899	216.1	23.76	1.631	23.2	0.0066	0.0068	2186.13	2326.5	7.968
1600.4	1585.0	3.744	35.0696	34.922	227.6	22.71	1.539	22.6	0.0048	0.0058	2178.85	2327.3	7.985
1698.5	1681.8	3.594	35.5436	34.946	235.7	22.74	1.477	22.3	0.0056	0.0098	2174.97	2328.4	7.996
1798.8	1780.7	3.450	36.0186	34.946	241.5	21.03	1.429	22.6	0.0066	0.0127	2172.27	2331.4	8.005
2000.3	1979.2	3.113	36.9621	34.935	244.1	21.15	1.432	26.5	0.0033	-0.0020	2174.54	2333.5	8.013
2199.6	2175.4	2.906	37.8774	34.928	246.3	21.06	1.424	29.2	0.0043	0.0029	2176.47	2337.4	8.012
2400.3	2372.8	2.774	38.7897	34.928	248.4	20.89	1.400	30.0	0.0058	0.0049	2172.79	2337.2	8.016
2699.4	2666.6	2.585	40.1319	34.917	246.3	21.13	1.407	36.1	0.0015	0.0049	2177.90	2342.7	8.007
2998.6	2960.1	2.452	41.4662	34.911	247.5	21.46	1.426	36.0	0.0016	-0.0039	2179.56	2343.2	8.009
2998.6	2960.1	2.452	41.4662	34.911	247.5	21.46	1.426	36.0	0.0016	-0.0039	2179.56	2343.2	8.009
3200.1	3157.6	2.382	42.3575	34.913	249.8	21.50	1.432	36.0	0.0016	0.0000	2177.94	2343.6	8.011
3398.0	3351.3	2.286	43.2344	34.912	252.1	21.53	1.439	34.8	0.0158	0.0098	2179.02	2343.8	8.014
3597.9	3546.9	2.152	44.1179	34.905	253.4	21.19	1.407	37.8	0.0089	0.0039	2181.23	2343.5	8.014
3798.4	3742.8	1.966	45.0052	34.889	251.8	21.94	1.468	43.7	0.0048	0.0059	2188.21	2346.5	8.006
3996.6	3936.4	1.700	45.8868	34.852	247.1	23.31	1.567	54.7	0.0040	0.0039	2199.26	2355.7	7.990
4196.5	4131.4	1.329	46.7827	34.820	240.7	24.94	1.723	70.3	0.0036	-0.0010	2214.75	2361.1	7.973
4399.6	4329.3	0.987	47.6905	34.783	234.2	27.21	1.878	86.6	0.0073	0.0068	2229.35	2367.3	7.948
4596.8	4521.4	0.787	48.5537	34.761	230.7	28.28	1.955	95.4	0.0067	0.0078	2232.18	2371.6	7.939
4799.9	4719.0	0.407	49.4619	34.724	224.9	30.55	2.114	109.5	0.0227	0.0108	2246.32	2376.5	7.918
4997.5	4911.1	0.233	50.3221	34.707	223.1	31.58	2.172	115.3	0.0327	0.0215	2251.22	2379.0	7.904
5199.0	5106.8	0.048	51.1977	34.690	221.8	32.29	2.233	121.5	0.0670	0.0333	2255.66	2379.4	7.893
5376.1	5278.7	0.027	51.9467	34.687	221.6	32.49	2.269	122.9	0.0736	0.0381	2260.18	2377.1	7.898

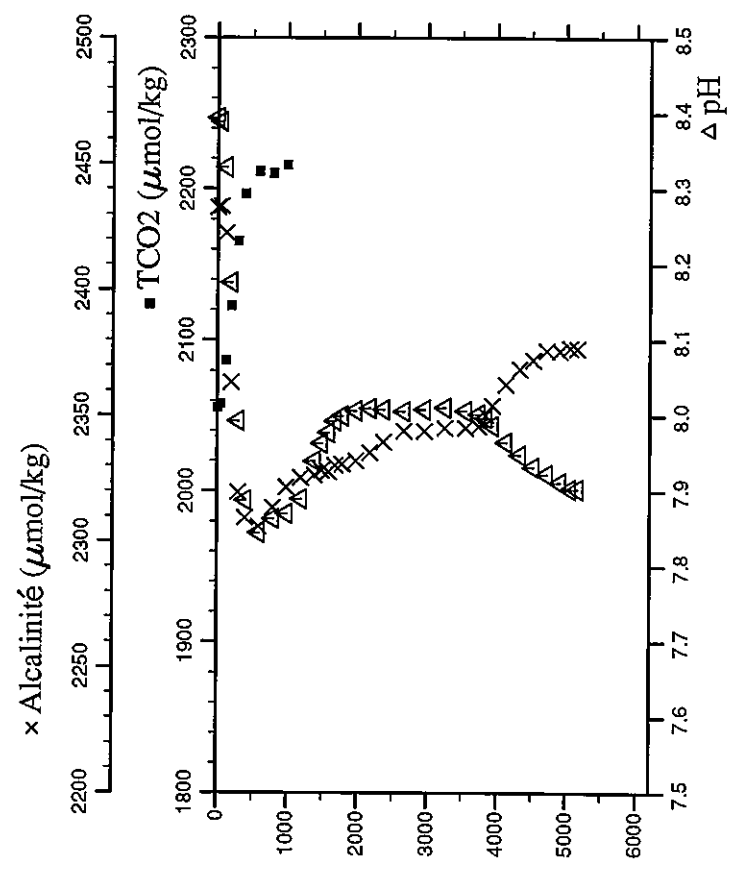
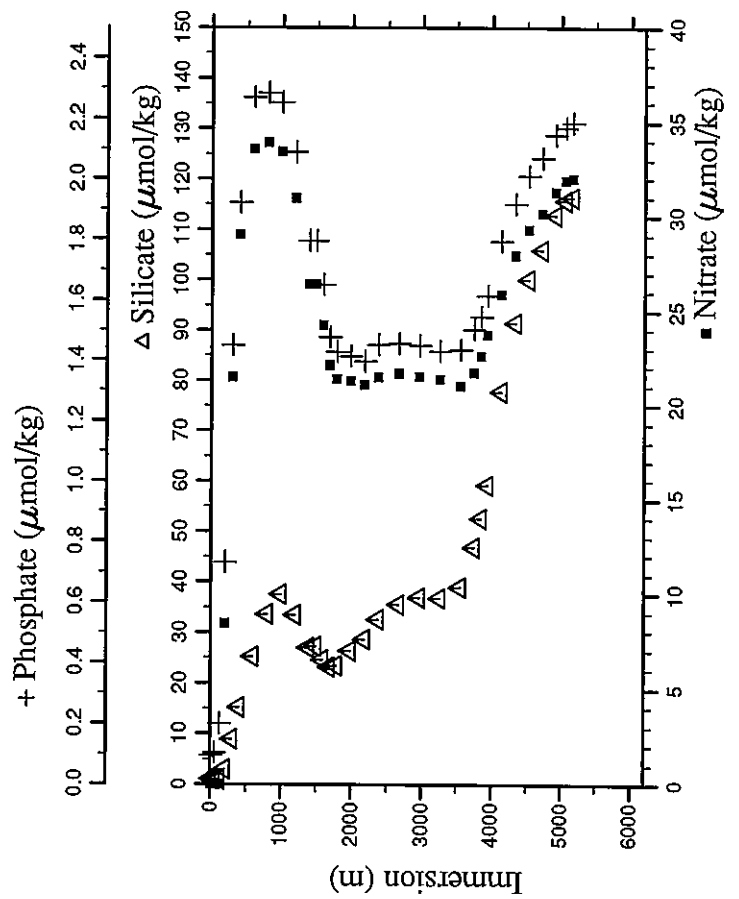
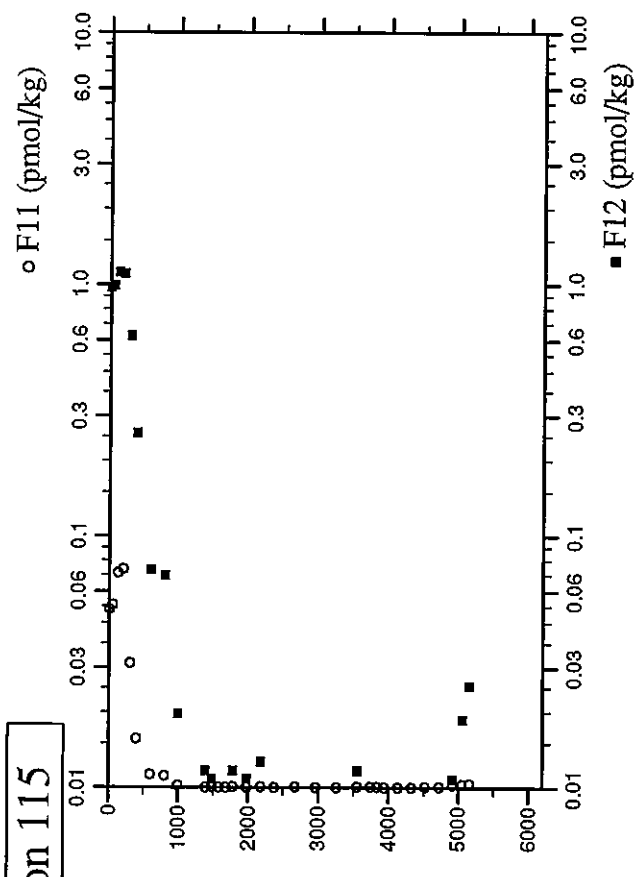
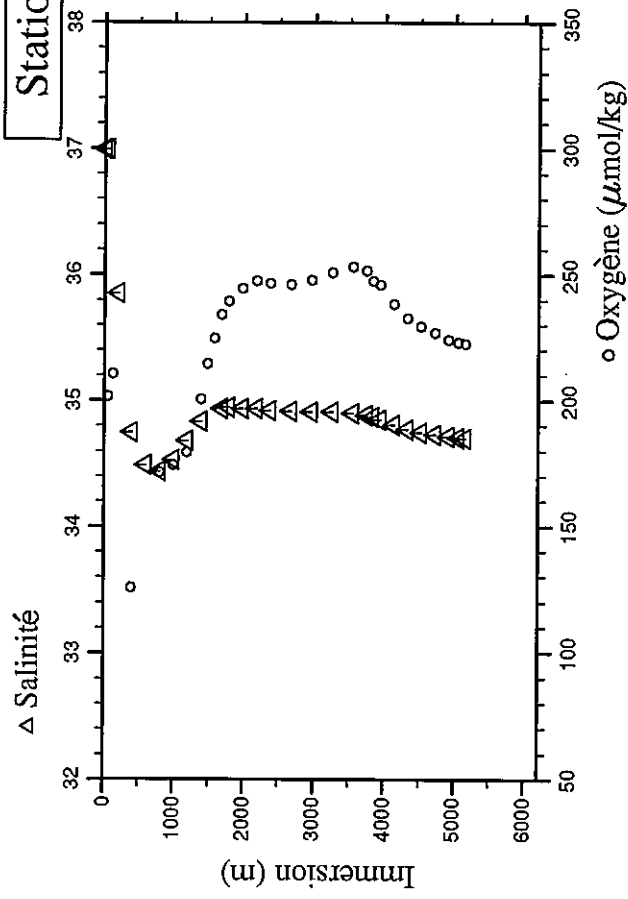
# Station 114



Station : 115 Campagne : CIPHER 2  
 Date : 10-02-94 Heure : 10 h 29 mn  
 Position : S 13 26.36 W 30 35.16  
 Dernier niveau à : 5254  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.2	5.2	27.903	23.9473	36.993	197.2	r	0.096	1.1	1.6491	0.9695	2055.15	2432.6	8.394
50.8	50.5	27.429	24.2971	36.996	201.4	0.00	0.105	1.0	1.6919	0.9861	2057.80	2433.2	8.389
126.7	125.9	23.074	25.7876	r	210.4	0.00	0.200	1.0	1.9899	1.1142	2086.73	2422.4	8.329
201.6	200.3	17.051	27.0333	35.849	170.7	r	0.731	3.0	2.0240	1.1032	2122.73	2363.2	8.176
301.7	299.7	11.457	28.0653	35.044	137.7	r	1.450	9.0	1.1555	0.6248	2165.40	2319.5	7.993
400.7	398.0	8.542	28.8027	34.750	125.7	r	1.923	15.2	0.4548	0.2572	2196.71	2309.3	7.888
601.0	596.7	5.558	29.9585	34.490	144.9	r	2.269	25.2	0.1181	0.0734	2211.55	2305.7	7.845
801.2	795.0	4.233	31.0064	34.439	171.5	r	2.285	33.6	0.1100	0.0695	2210.45	2313.3	7.863
1001.7	993.5	3.800	32.0496	34.528	174.3	r	2.254	37.5	0.0217	0.0196	2215.67	2321.5	7.870
1200.7	1190.3	3.839	33.0660	34.680	179.3	r	2.090	33.5	-0.0022	0.0068	2325.3	2325.3	7.890
1400.4	1387.6	3.927	34.0750	34.833	200.4	r	1.796	27.0	0.0041	0.0117	2326.2	2326.2	7.940
1496.6	1482.6	3.907	34.5547	34.834	214.6	r	1.796	27.3	0.0061	0.0108	2328.0	2328.0	7.963
1600.8	1585.5	3.750	35.0664	34.889	224.6	r	1.652	24.6	0.0005	0.0068	2327.5	2327.5	7.978
1701.4	1684.7	3.625	35.5505	34.936	234.0	r	1.477	23.2	0.0047	0.0098	2330.1	2330.1	7.993
1800.5	1782.4	3.495	36.0210	34.945	239.4	r	1.429	23.4	0.0086	0.0117	2330.7	2330.7	8.000
2000.5	1979.5	3.213	36.9505	34.938	244.5	r	1.415	26.3	0.0028	0.0108	2332.0	2332.0	8.007
2202.2	2178.0	2.979	37.8823	34.935	247.5	r	1.398	28.6	0.0070	0.0127	2335.1	2335.1	8.010
2401.4	2373.9	2.769	38.7900	34.922	246.6	r	1.452	32.6	0.0049	0.0088	2339.6	2339.6	8.008
2698.8	2666.1	2.592	40.1256	34.915	246.0	r	1.456	35.5	0.0053	0.0068	2343.9	2343.9	8.006
2999.8	2961.4	2.460	41.4681	34.911	247.8	r	1.449	36.9	0.0042	0.0088	2343.8	2343.8	8.008
3299.4	3254.9	2.343	42.7963	34.909	250.8	r	1.431	36.8	0.0026	0.0068	2345.2	2345.2	8.011
3600.2	3549.2	2.146	44.1267	34.902	253.2	r	1.436	39.0	0.0079	0.0117	2345.2	2345.2	8.007
3800.4	3744.9	1.939	45.0152	34.884	251.7	r	1.502	46.8	0.0051	0.0098	2345.6	2345.6	8.002
3900.1	3842.2	1.780	45.4621	34.868	247.6	r	1.546	52.5	0.0067	0.0059	2350.2	2350.2	7.997
3998.7	3938.5	1.614	45.9018	34.848	246.1	r	1.616	59.1	0.0049	0.0098	2353.9	2353.9	7.987
4199.4	4134.3	1.222	46.8056	34.809	238.4	r	1.796	77.7	0.0038	0.0098	2362.3	2362.3	7.965
4399.2	4329.0	0.902	47.6969	34.773	232.8	r	1.918	91.4	0.0013	0.0049	2368.6	2368.6	7.948
4598.1	4522.7	0.683	48.5708	34.749	229.6	r	2.012	100.1	0.0050	0.0059	2372.1	2372.1	7.932
4800.1	4719.3	0.529	49.4489	34.735	226.9	r	2.071	106.0	0.0073	0.0078	2375.8	2375.8	7.923
4998.0	4911.7	0.337	50.3101	34.716	224.2	r	2.147	112.8	0.0279	0.0108	2375.6	2375.6	7.912
5148.9	5058.3	0.255	50.9590	34.707	223.2	r	2.171	115.7	0.0318	0.0186	2376.9	2376.9	7.903
5253.4	5159.8	0.208	51.4059	34.702	222.5	r	2.188	116.4	0.0372	0.0254	2376.6	2376.6	7.903

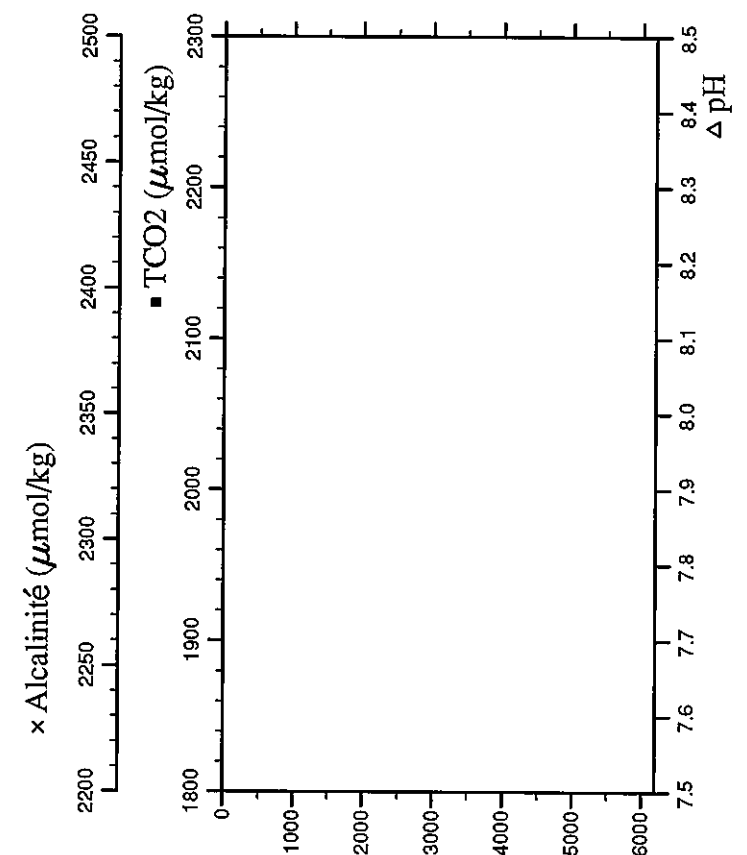
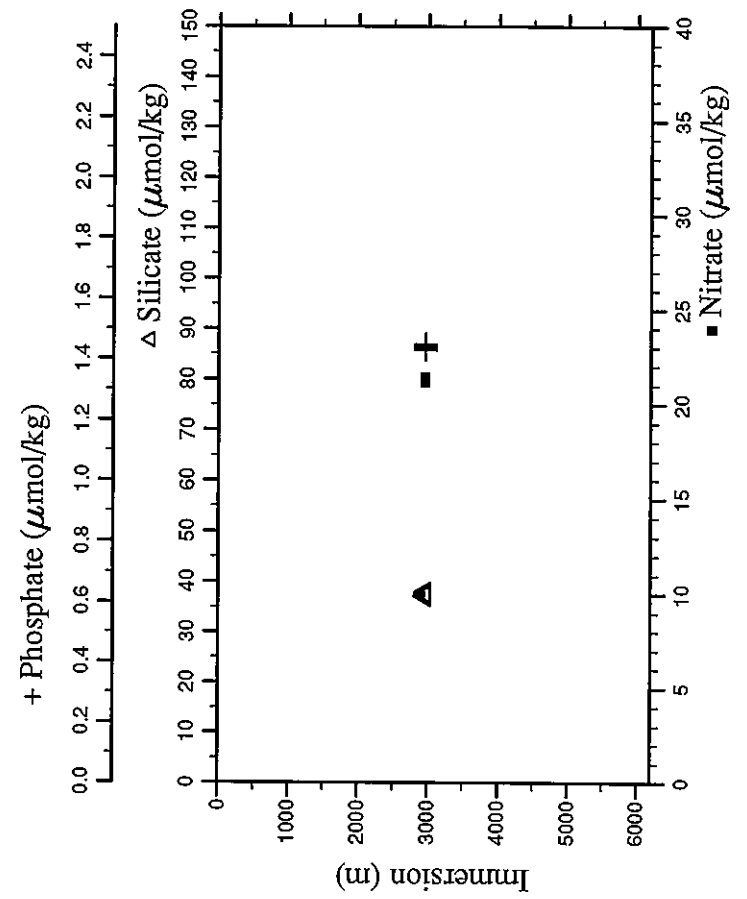
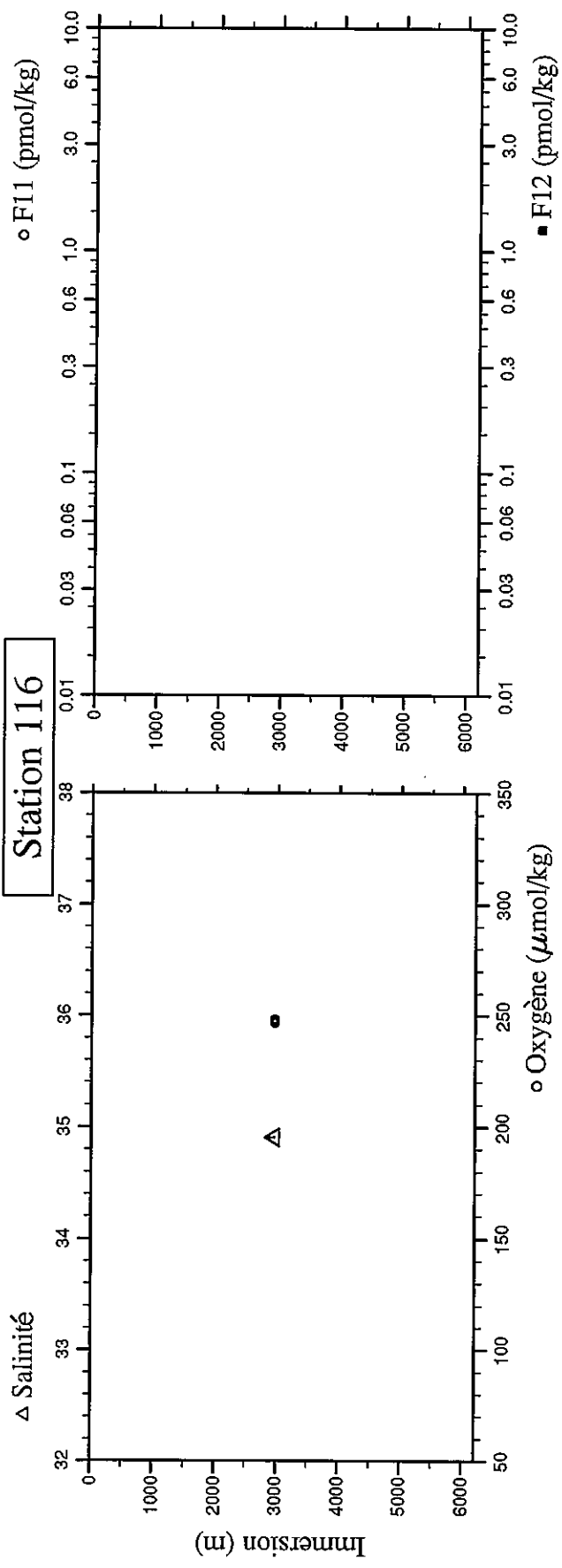




Station : 116 Campagne : CIPHER 2  
 Date : 10-02-94 Heure : 18 h 40 mn  
 Position : S 13 26.38 W 30 35.15  
 Dernier niveau à : 3000  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg. cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
2998.8	2960.4	2.448	41.4654	34.909	246.9	21.27	1.437	37.9					
2999.0	2960.6	2.448	41.4653	34.908	246.9	21.27	1.431	37.7					
2999.2	2960.8	2.448	41.4670	34.910	248.4	21.15	1.429	37.8					
2999.2	2960.8	2.449	41.4660	34.910	247.0	21.35	1.435	37.5					
2999.3	2960.9	2.448	41.4674	34.909	246.6	21.31	1.430	37.7					
2999.3	2960.9	2.448	41.4665	34.911	246.7	21.18	1.449	37.3					
2999.5	2961.1	2.448	41.4682	34.910	246.6	21.27	1.435	37.6					
2999.6	2961.2	2.448	41.4687	34.908	246.8	21.27	1.432	37.7					
2999.6	2961.2	2.448	41.4687	34.910	247.0	21.27	1.433	37.7					
2999.6	2961.2	2.448	41.4687	34.909	246.9	21.18	1.440	37.2					
2999.7	2961.3	2.448	41.4691	34.908	246.9	21.33	1.431	37.4					
2999.8	2961.4	2.448	41.4695	34.911	247.2	21.19	1.441	37.6					
3000.3	2961.9	2.447	41.4715	34.911	246.9	21.31	1.443	37.4					
3000.4	2962.0	2.449	41.4709	34.908	247.1	21.18	1.443	37.5					
3000.4	2962.0	2.448	41.4710	34.908	247.2	21.18	1.447	37.5					
3000.5	2962.1	2.447	41.4724	34.909	246.8	21.31	1.438	37.5					
3000.5	2962.1	2.447	41.4724	34.908	247.0	21.31	1.439	37.5					
3000.5	2962.1	2.448	41.4723	34.910	246.9	21.18	1.448	37.3					
3000.6	2962.2	2.448	41.4718	34.908	246.9	21.17	1.445	37.8					
3000.7	2962.3	2.447	41.4732	34.907	246.7	21.27	1.431	37.7					
3000.8	2962.4	2.447	41.4736	34.909	246.8	21.31	1.437	37.6					
3000.9	2962.5	2.448	41.4739	34.909	246.7	21.15	1.446	37.8					
3001.0	2962.6	2.447	41.4744	34.907	246.9	21.18	1.447	37.2					
3001.0	2962.6	2.447	41.4753	34.910	246.7	21.27	1.435	37.5					
3001.0	2962.6	2.448	41.4743	34.908	246.9	21.27	1.448	37.6					
3001.1	2962.7	2.448	41.4747	34.910	247.0	21.27	1.437	37.7					
3001.2	2962.8	2.447	41.4752	34.904	247.1	21.18	1.442	37.5					
3001.3	2962.9	2.447	41.4756	34.910	246.8	21.24	1.430	37.4					
3001.3	2962.9	2.447	41.4756	34.911	246.7	21.18	1.433	37.7					
3001.4	2963.0	2.447	41.4760	34.909	247.3	21.43	1.429	37.8					
3001.6	2963.1	2.447	41.4777	34.909	247.2	21.35	1.435	37.5					
3001.7	2963.2	2.447	41.4781	34.910	246.5	21.27	1.436	37.7					

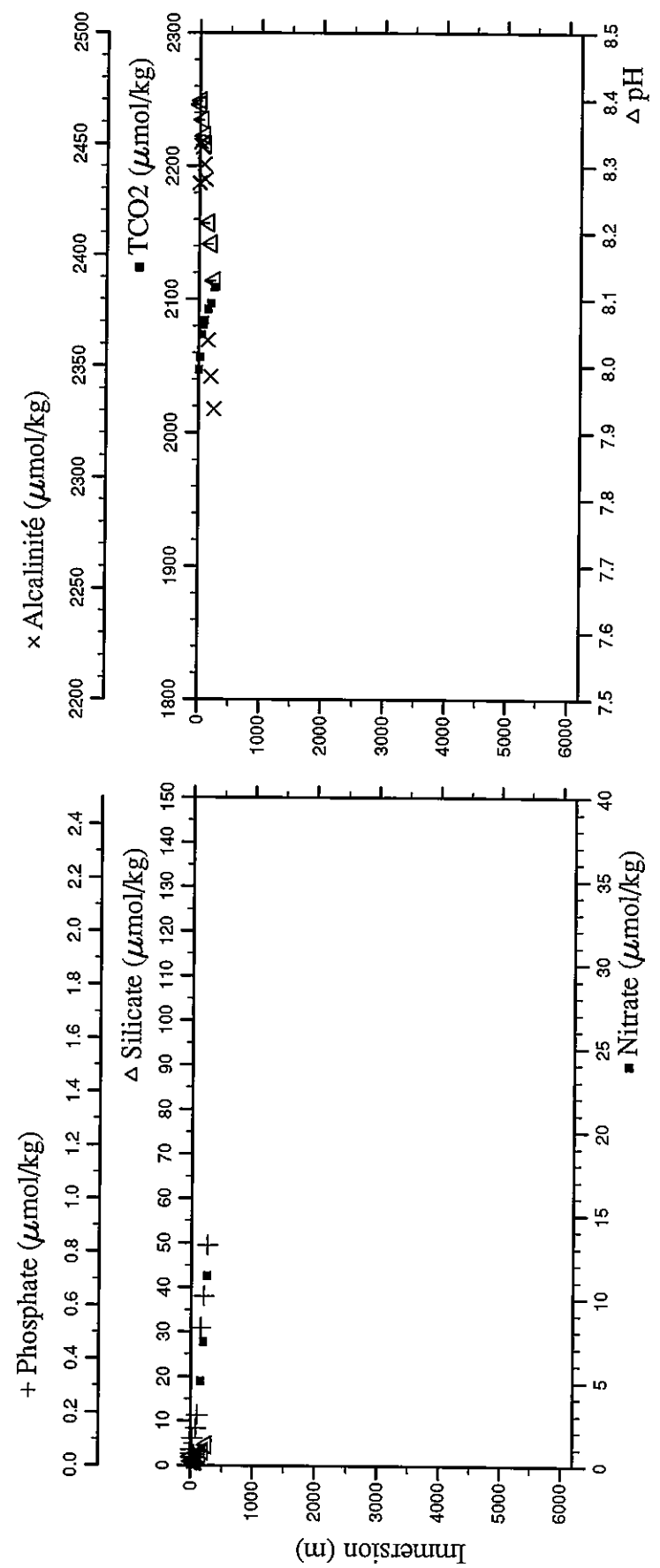
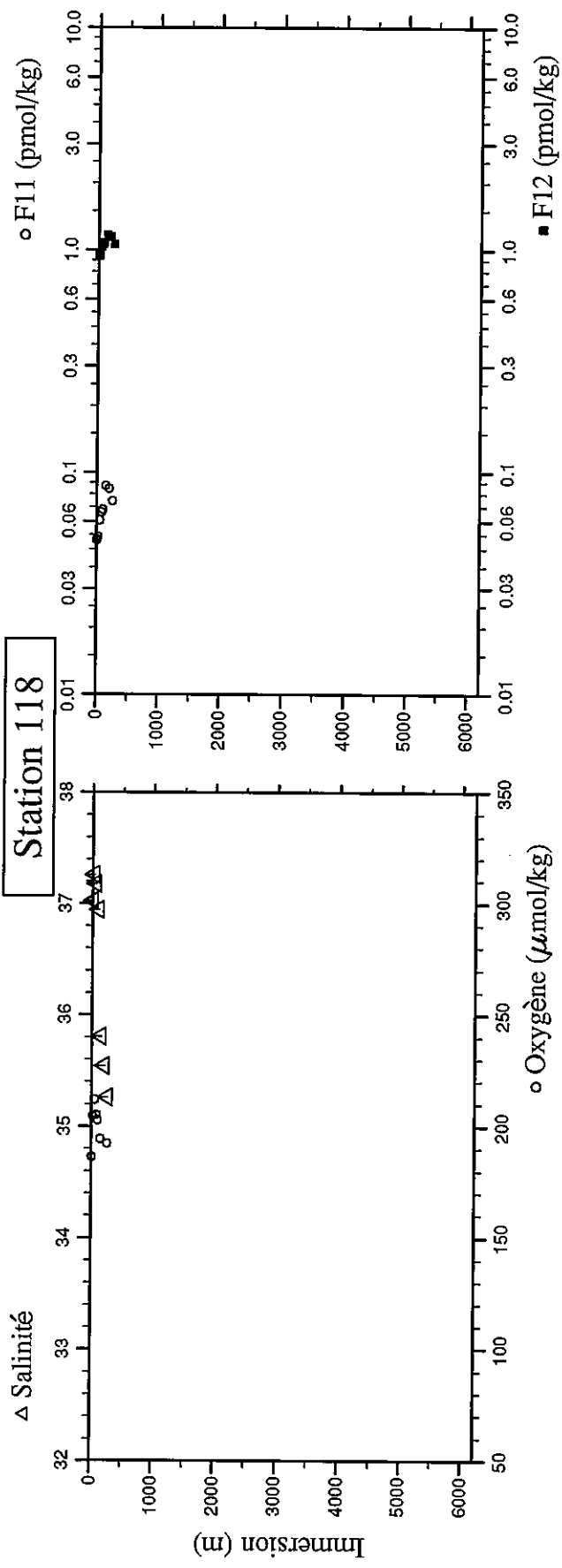
Station 116



Station : 118 Campagne : CIPHER 2  
 Date : 17-02-94 Heure : 23 h 24 mn  
 Position : S 12 21.89 W 37 37.95  
 Dernier niveau à : 261  
 Nb prélèvements : 9

PRESSION CHIMIE	IMMERSSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.2	5.2	28.427	23.7976	37.026	186.2	0.04	0.061	2.0	1.6203	0.9363	2432.3	2432.3	8.392
5.5	5.5	28.430	23.7976	37.022	196.8	0.04	0.046	2.0	1.6282	0.9392	2047.05	2432.1	8.392
25.9	25.7	28.381	24.0797	37.262	204.6	0.04	0.102	1.0	1.6549	0.9469	2056.34	2450.5	8.398
50.9	50.6	25.447	25.0694	37.178	211.9	0.04	0.044	1.3	1.8289	1.0250	2073.62	2448.4	8.369
76.8	76.3	24.223	25.4662	37.049	205.2	0.04	0.141	1.0	1.9107	1.0583	2080.61	2440.6	8.346
101.2	100.6	23.430	25.7199	36.946	202.8	0.12	0.189	1.1	1.9423	1.0799	2084.01	2433.9	8.332
150.6	149.7	17.039	26.7795	35.803	194.5	5.06	0.515	2.5	2.1921	1.1639	2092.42	2361.4	8.214
202.4	201.1	15.453	27.1758	35.543	199.4	7.40	0.635	3.2	2.1624	1.1406	2096.84	2345.0	8.183
253.4	251.8	13.506	27.6100	35.259	192.3	11.36	0.824	4.6	2.0317	1.0597	2109.03	2330.6	8.128

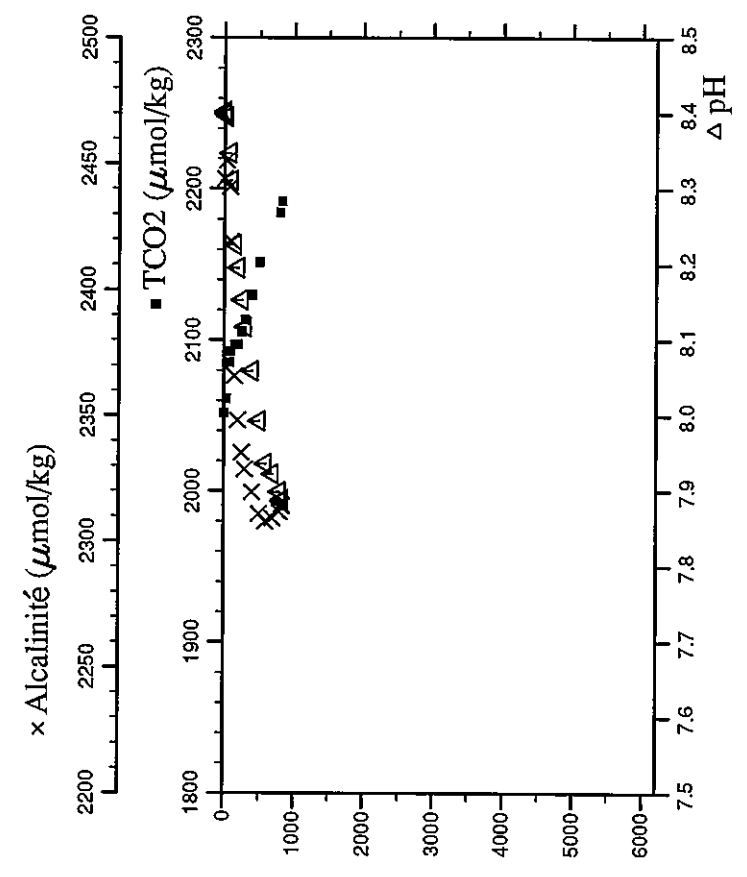
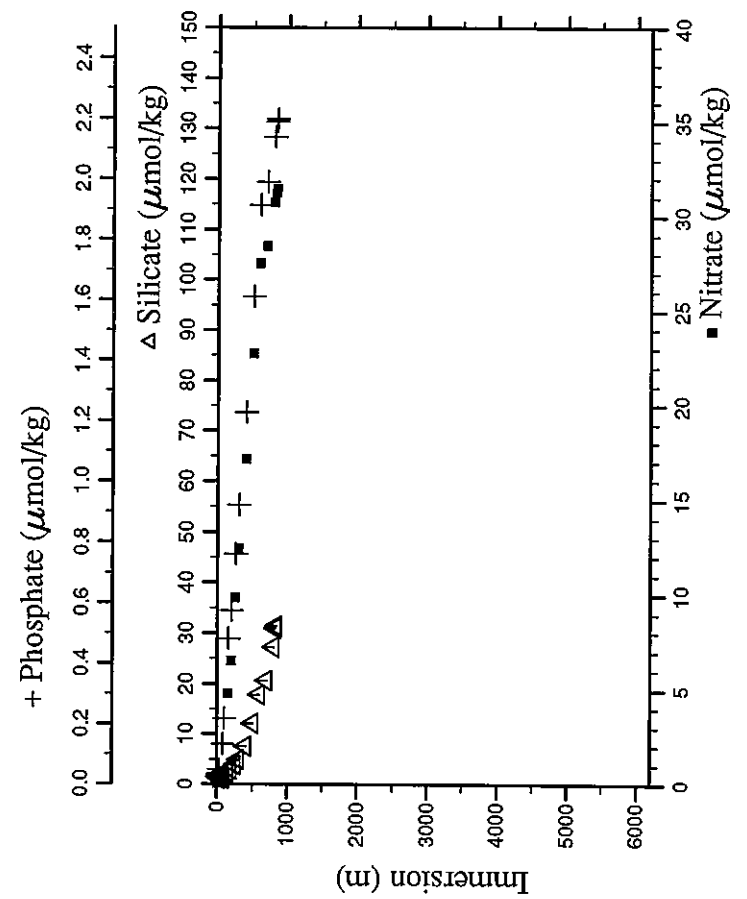
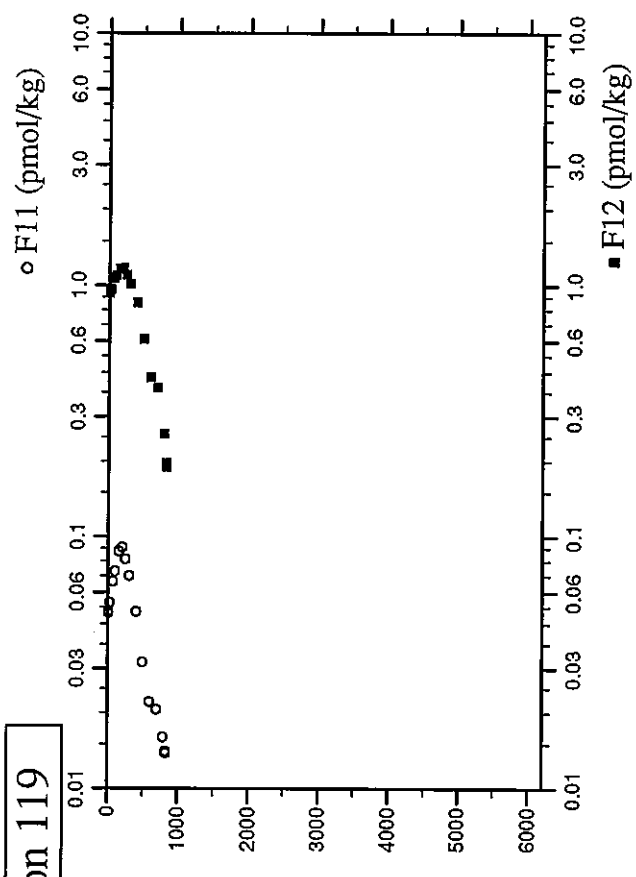
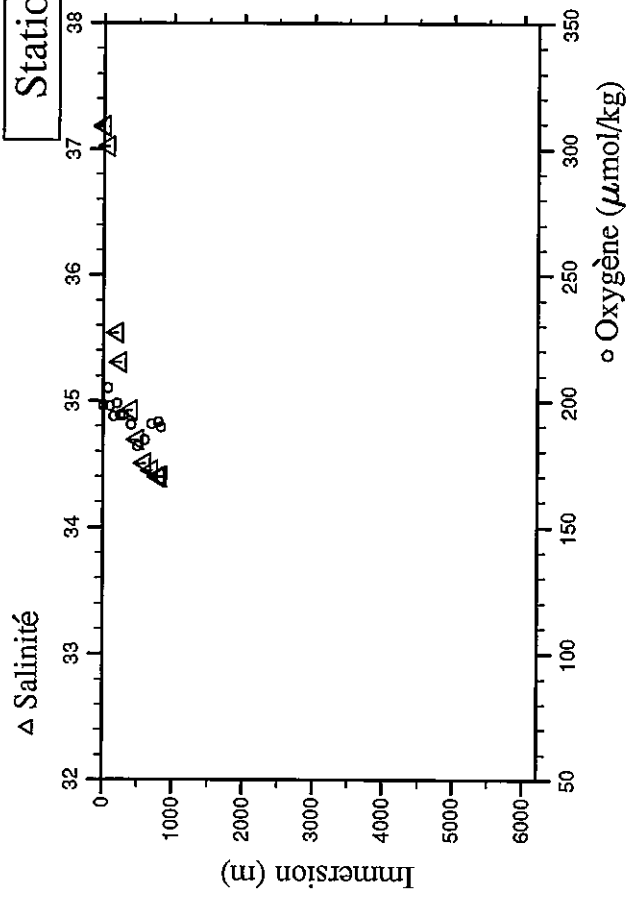
# Station 118



Station : 119 Campagne : CITHER 2  
 Date : 18-02-94 Heure : 1 h 54 mn  
 Position : S 12 23.18 W 37 35.78  
 Dernier niveau à : 972  
 Nb prélèvements : 16

PRESSION CHIMIE	IMMERSTON	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
3.6	3.6	28.446	23.9040	37.182	198.5	0.04	0.035	1.6	1.6413	0.9342	2052.03	2443.8	8.399
3.8	3.8	28.447	23.9050	37.180	197.9	0.04	0.035	1.6	1.6301	0.9284		2444.1	8.402
29.3	29.1	28.202	24.2357	37.249			0.050	1.1	1.7244	0.9634	2061.28	2451.2	8.396
75.8	75.4	23.559	25.6230	37.022	205.0	0.04	0.135	1.1	1.9191	1.0652	2085.48	2440.8	8.347
100.8	100.2	21.878	25.9592	36.712	198.0	0.54	0.219	1.3	2.0156	1.0928	2092.70	2419.2	8.311
151.5	150.6	17.247	26.7621	35.828	193.8	4.80	0.481	2.5	2.1993	1.1628	2096.76	2365.7	8.226
201.4	200.1	15.587	27.1444	35.540	198.9	6.55	0.574	3.0	2.2307	1.1680	2097.09	2348.1	8.196
252.6	251.0	13.999	27.5388	35.309	194.4	9.85	0.761	3.9	2.1249	1.0958	2105.14	2335.2	8.153
302.1	300.1	12.747	27.8934	35.160	194.4	12.48	0.923	4.9	1.9737	1.0129	2113.29	2328.5	8.118
402.3	399.6	10.831	28.5442	34.924	190.6	17.15	1.227	7.5	1.6383	0.8546	2129.95	2319.5	8.059
501.1	497.6	8.641	29.1971	34.691	181.9	22.74	1.610	12.1	1.1705	0.6103	2151.26	2310.7	7.993
599.4	595.1	6.575	29.8214	34.506	184.6	27.53	1.913	17.9	0.8013	0.4284		2307.8	7.936
700.0	694.8	5.835	30.3393	34.449	190.8	28.45	1.991	20.7	0.7303	0.3913		2309.0	7.923
799.8	793.7	4.731	30.9023	34.397	191.7	30.74	2.139	27.2	0.4762	0.2563	2184.64	2311.5	7.899
829.5	823.1	4.347	31.0901	34.399	189.6	31.25	2.190	31.0	0.3480	0.1966	2191.76	2314.5	7.886
836.6	830.1	4.283	31.1322	34.400	189.6	31.45	2.198	31.5	0.3307	0.1898		2313.9	7.889

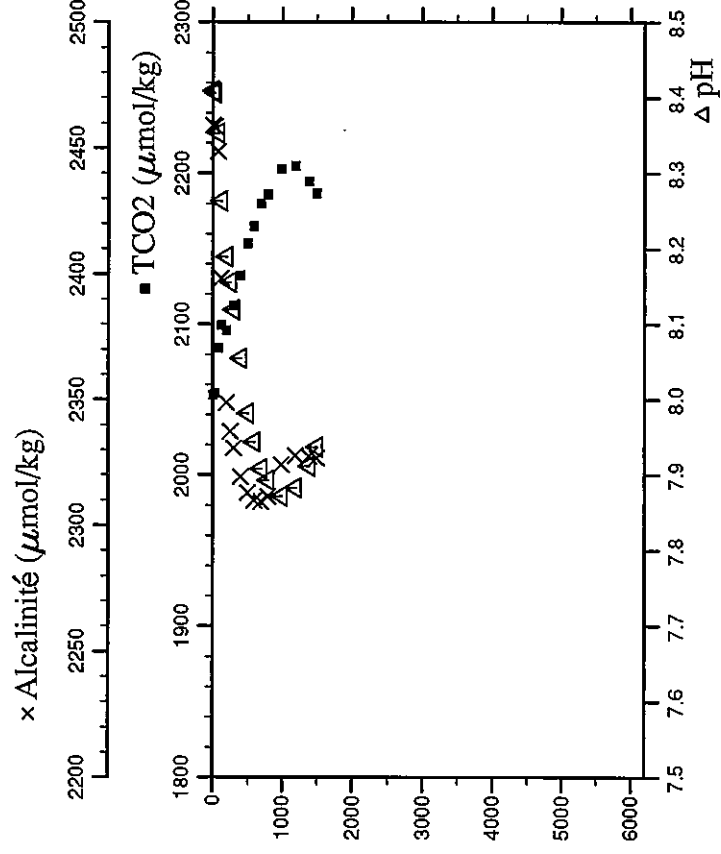
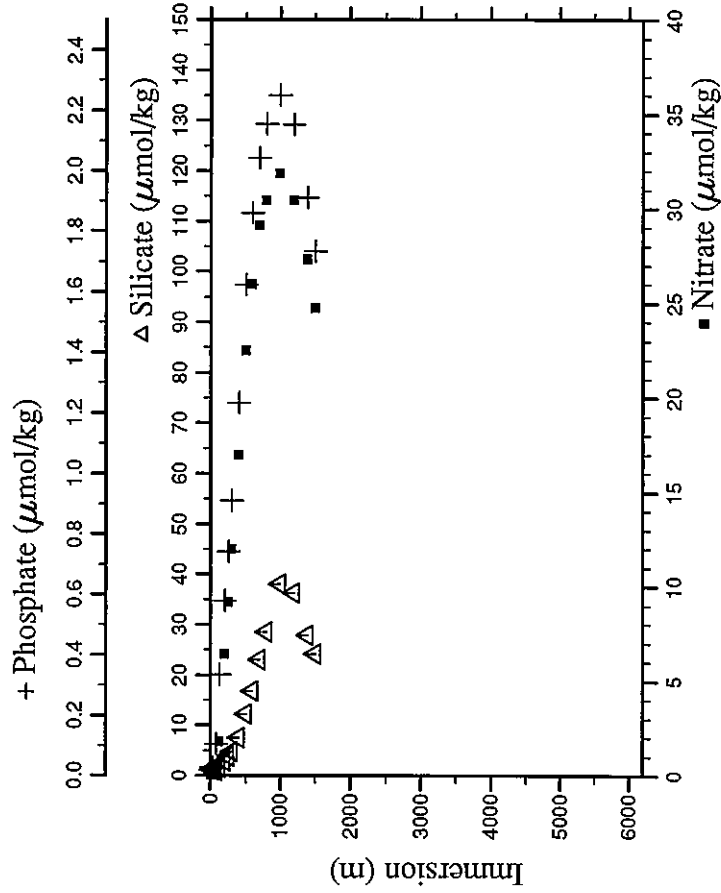
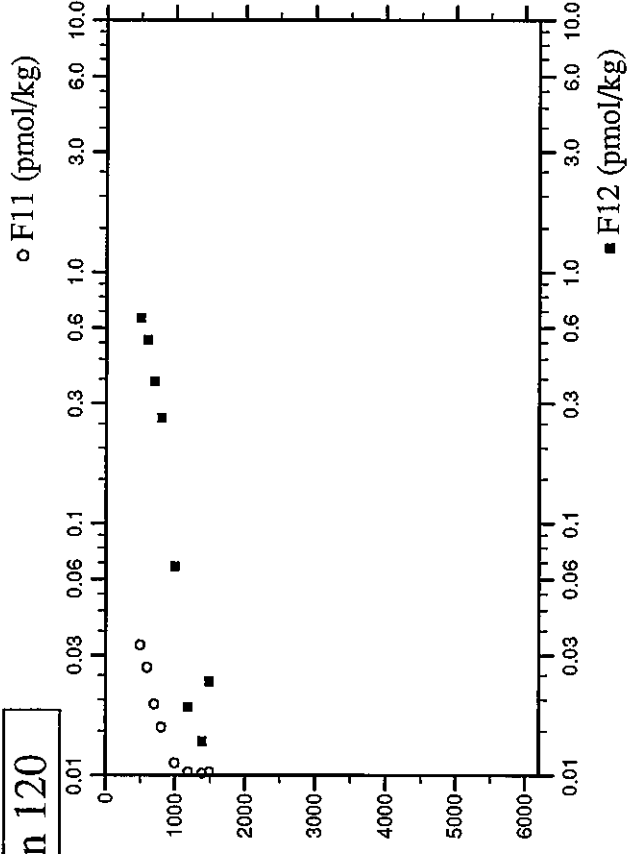
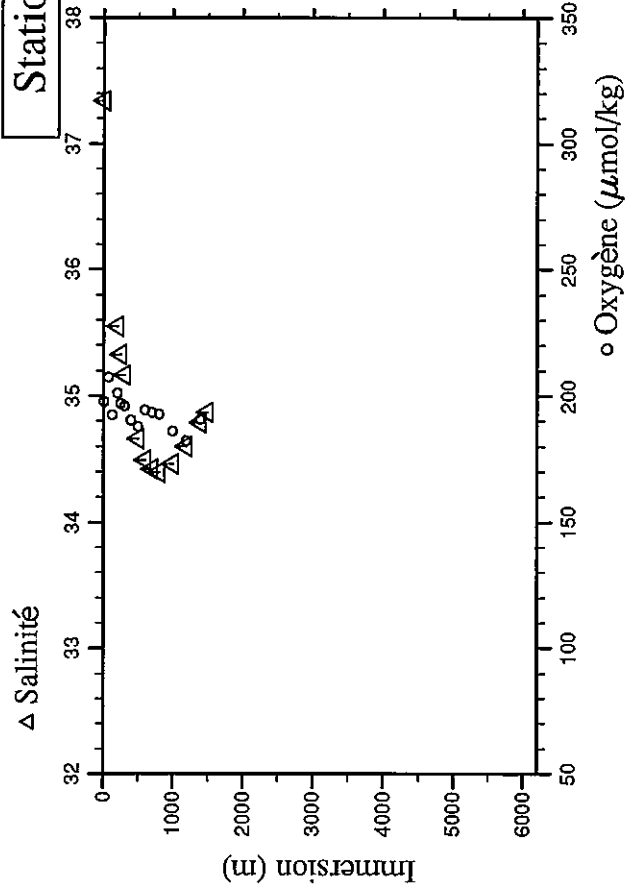
Station 119



Station : 120 Campagne : CITHER 2  
 Date : 18-02-94 Heure : 4 h 49 mn  
 Position : S 12 24.53 W 37 34.29  
 Dernier niveau à : 1514  
 Nb prélèvements : 16

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg. cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
2.5	2.5	28.742	23.9181	37.341	197.8	0.04	0.029	1.2			2053.11	2459.0	8.409
31.1	30.9	28.531	24.1319	37.331	201.1	0.04	0.026	1.2			2054.39	2458.5	8.407
75.6	75.2	24.500	25.4425	37.132	207.4	0.04	0.104	1.1			2083.87	2448.5	8.353
126.6	125.8	20.197	26.2931	36.340	192.3	1.79	0.336	1.6			2099.38	2398.3	8.263
200.7	199.5	15.606	27.1434	35.549	201.1	6.45	0.580	2.9			2096.02	2348.7	8.190
251.7	250.1	14.085	27.5318	35.326	197.0	9.20	0.742	3.8			2089.59	2337.3	8.156
301.2	299.3	12.895	27.8799	35.165	195.9	11.99	0.911	4.8			2112.27	2330.6	8.119
400.2	397.5	10.843	28.5409	34.915	190.3	16.99	1.234	7.5			2132.37	2319.1	8.055
501.7	498.2	8.454	29.2091	34.663	187.9	22.52	1.623	12.2	1.2050	0.6543	2153.70	2312.7	7.982
601.4	597.1	6.634	29.8171	34.496	194.5	26.01	1.861	16.8	1.0003	0.5380	2165.05	2309.7	7.944
700.9	695.7	5.365	30.3858	34.420	193.5	29.11	2.043	23.0	0.6616	0.3658	2179.82	2309.2	7.908
800.9	794.8	4.555	30.9286	34.395	192.6	30.45	2.156	28.5	0.4467	0.2622	2185.75	2311.4	7.893
999.9	991.8	3.717	31.9966	34.465	185.9	31.88	2.251	38.0	0.1124	0.0675	2202.83	2324.0	7.872
1200.4	1190.1	3.777	33.0049	34.602	182.3	30.44	2.153	36.3	0.0332	0.0186	2204.93	2327.5	7.883
1400.5	1387.8	4.102	34.0071	34.789	190.7	27.33	1.912	27.9	0.0193	0.0137	2194.69	2327.2	7.912
1505.8	1491.8	4.164	34.5408	34.868	203.8	24.74	1.734	24.2	0.0300	0.0235	2186.43	2326.6	7.937

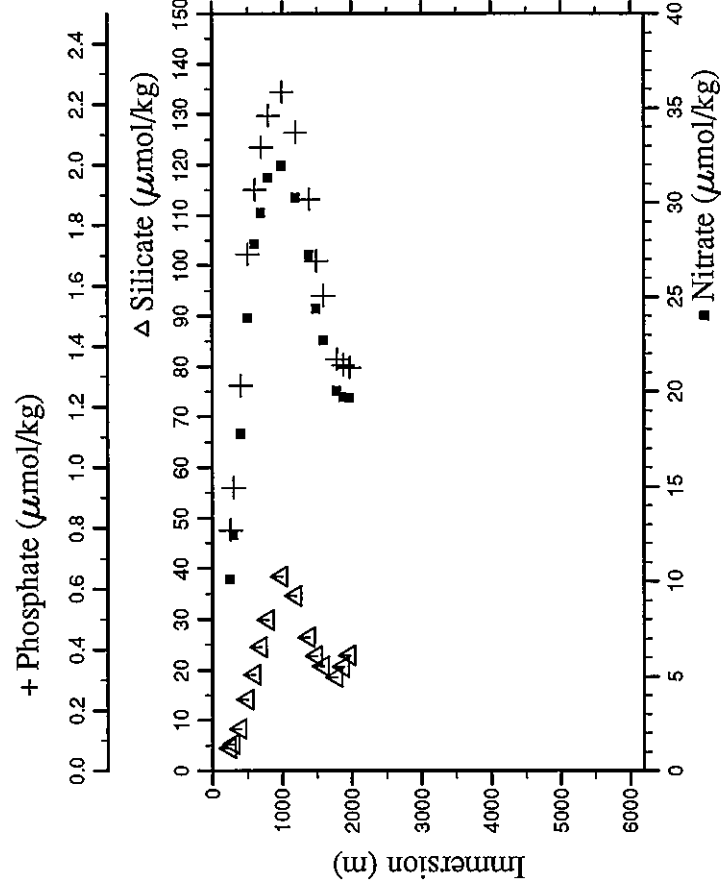
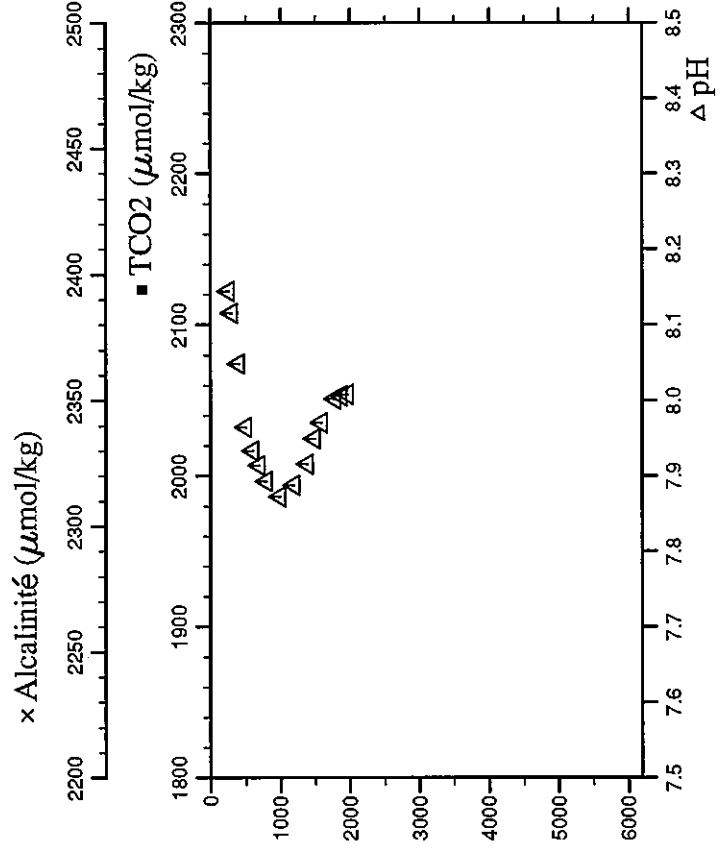
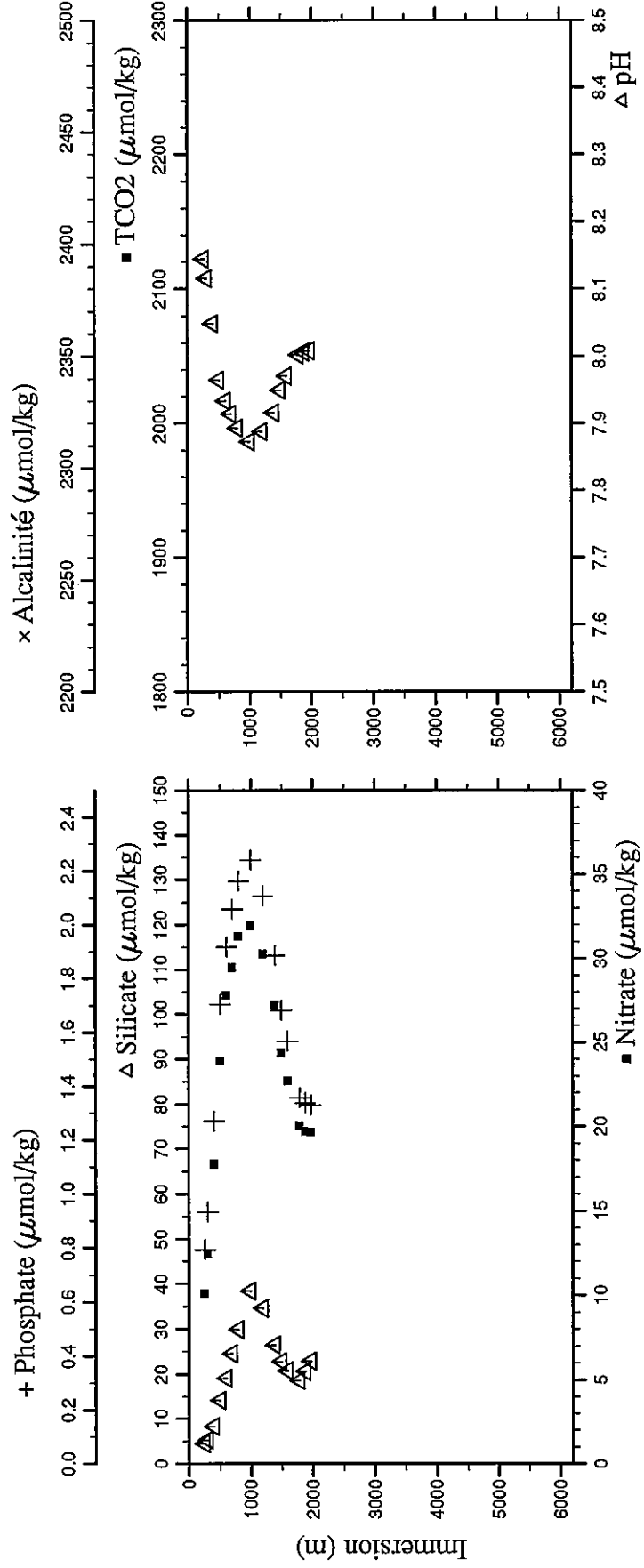
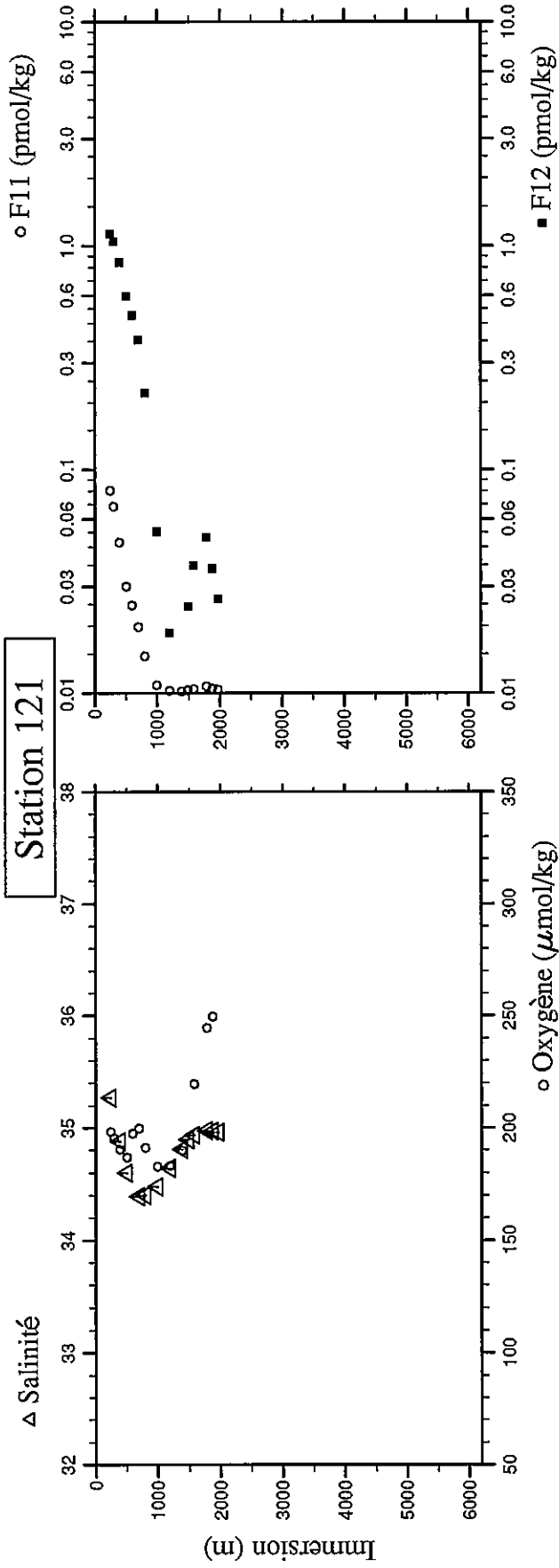




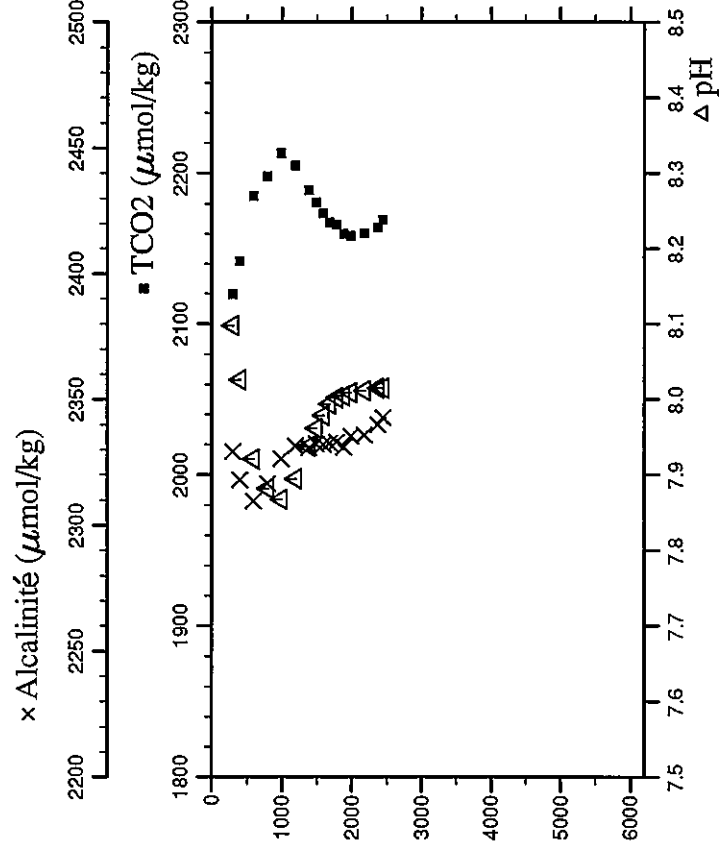
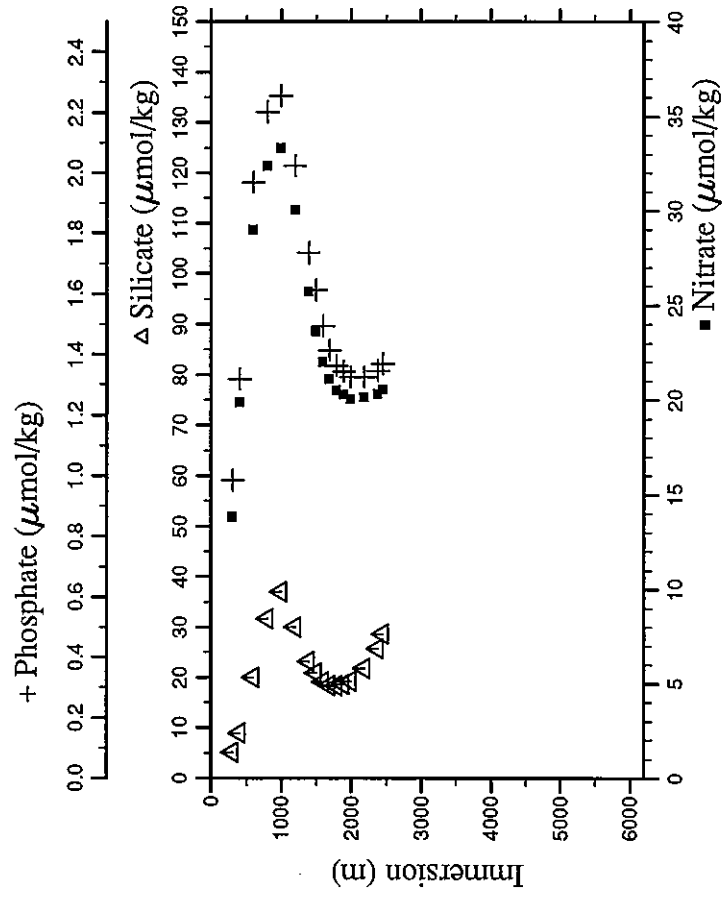
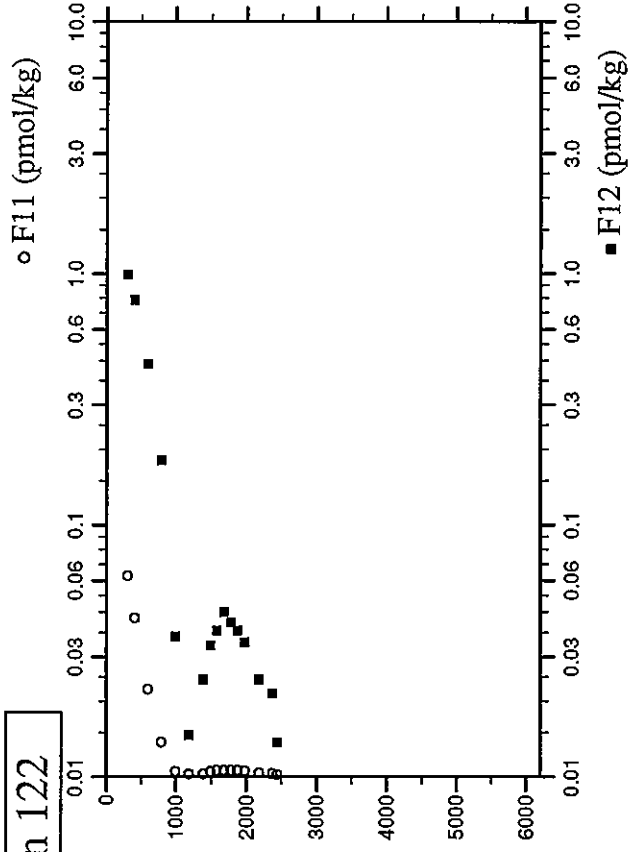
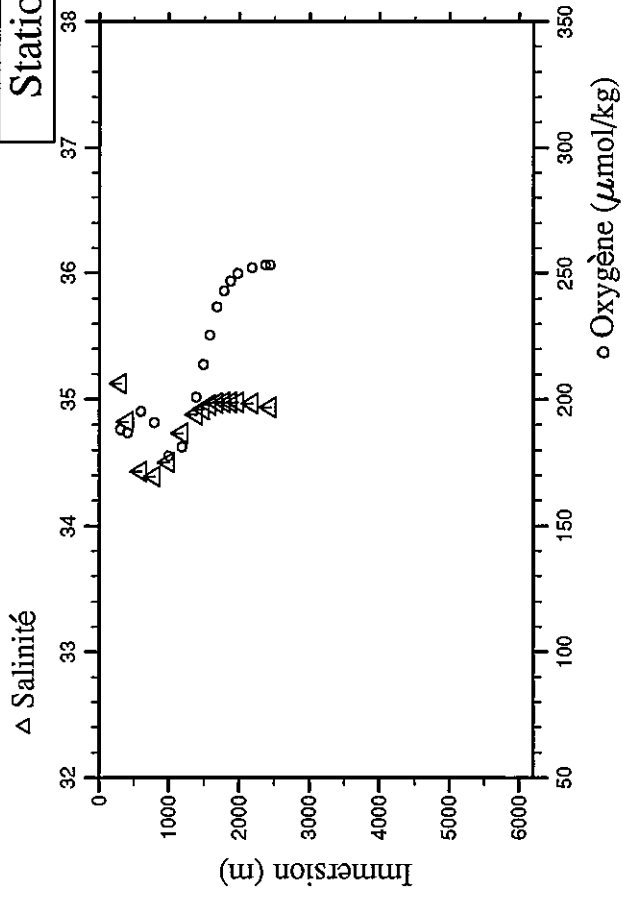
Station : 121 Campagne : CITHER 2  
 Date : 18-02-94 Heure : 8 h 5 mn  
 Position : S 12 25.46 W 37 32.57  
 Dernier niveau à : 1987  
 Nb prélèvements : 15

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	PH
dbar	metres	deg. cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
251.8	250.2	13.731	27.5712	35.271	198.2	10.10	0.793	4.5	2.1132	1.1272			8.145
299.9	298.0	12.757	27.8988	35.144	195.4	12.43	0.934	5.3	1.9459	1.0451			8.116
401.2	398.5	10.499	28.5731	34.881	190.4	17.75	1.269	8.3	1.5748	0.8439			8.049
503.6	500.1	7.764	29.2767	34.600	186.9	23.89	1.704	14.2	1.1108	0.5976			7.965
603.1	598.8	6.111	29.8723	34.451	197.5	27.81	1.918	19.1	0.9167	0.4891			7.934
703.2	698.0	4.957	30.4249	34.393	199.8	29.46	2.058	24.6	0.6917	0.3805			7.914
804.1	797.9	4.425	30.9601	34.401	191.0	31.31	2.162	29.9	0.3886	0.2201			7.893
1002.1	994.0	3.701	32.0191	34.480	182.8	31.98	2.241	38.4	0.0866	0.0528			7.873
1201.9	1191.6	3.848	33.0351	34.642	182.9	30.27	2.107	34.6	0.0248	0.0186			7.888
1401.8	1389.1	4.217	34.0183	34.809	189.7	27.23	1.887	26.5	0.0172	0.0098			7.916
1500.5	1486.5	4.235	34.5273	34.894	208.0	24.37	1.682	22.8	0.0303	0.0244			7.971
1600.6	1585.3	4.150	35.0183	34.935	219.7	22.70	1.566	20.8	0.0426	0.0372			8.002
1799.0	1781.0	3.787	35.9949	34.976	244.5	20.04	1.357	18.6	0.0713	0.0499			8.007
1894.0	1874.6	3.450	36.4628	34.971	249.7	19.71	1.337	20.7	0.0512	0.0362			8.007
1986.1	1965.4	3.183	36.9072	34.961	253.0	19.66	1.329	22.9	0.0401	0.0264			8.008

Station 121



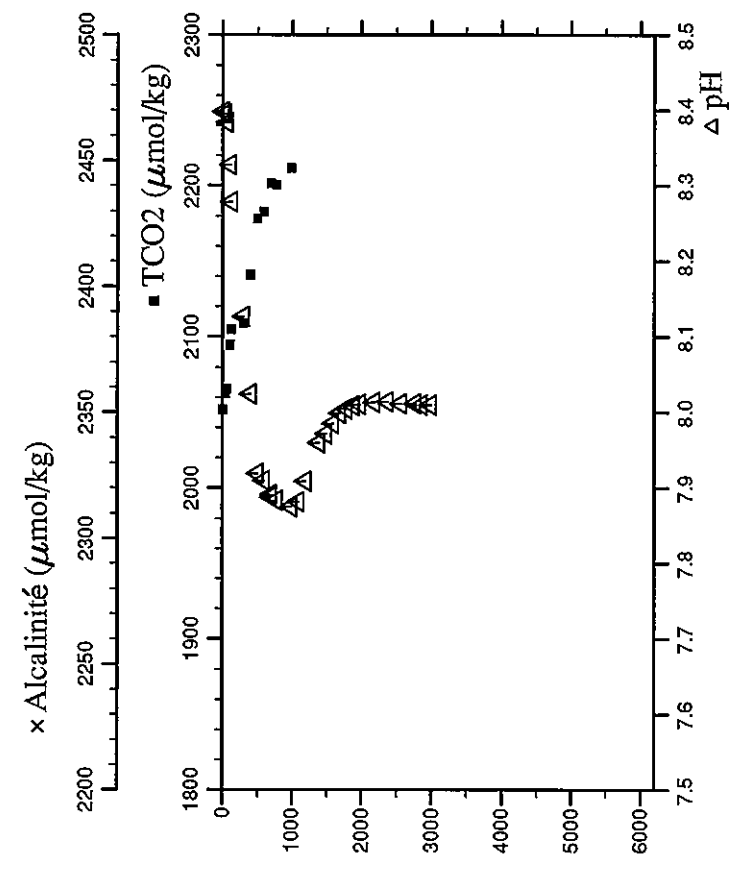
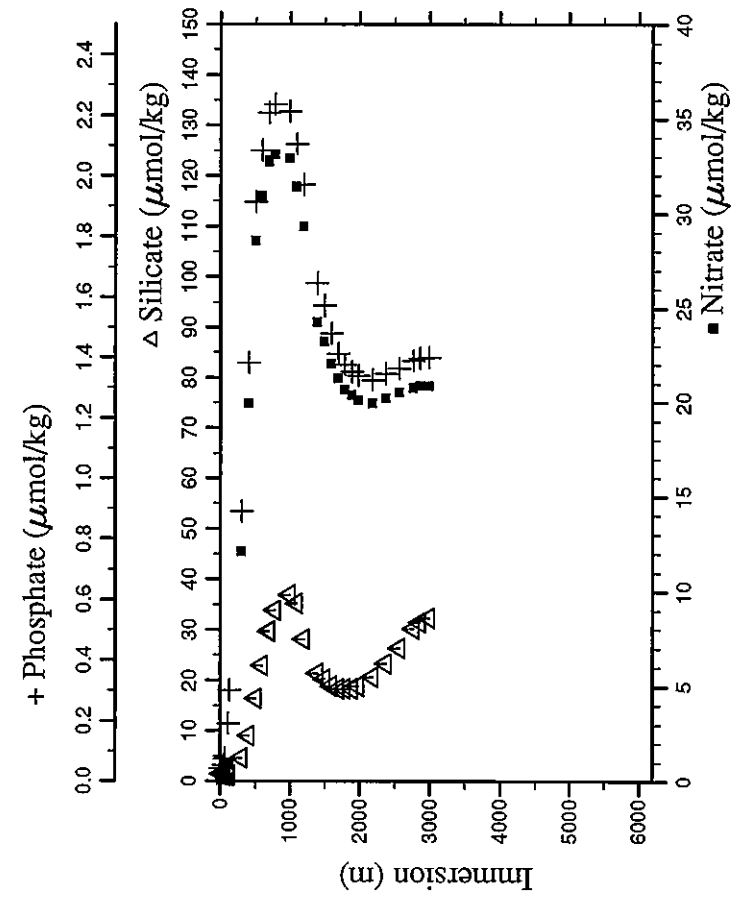
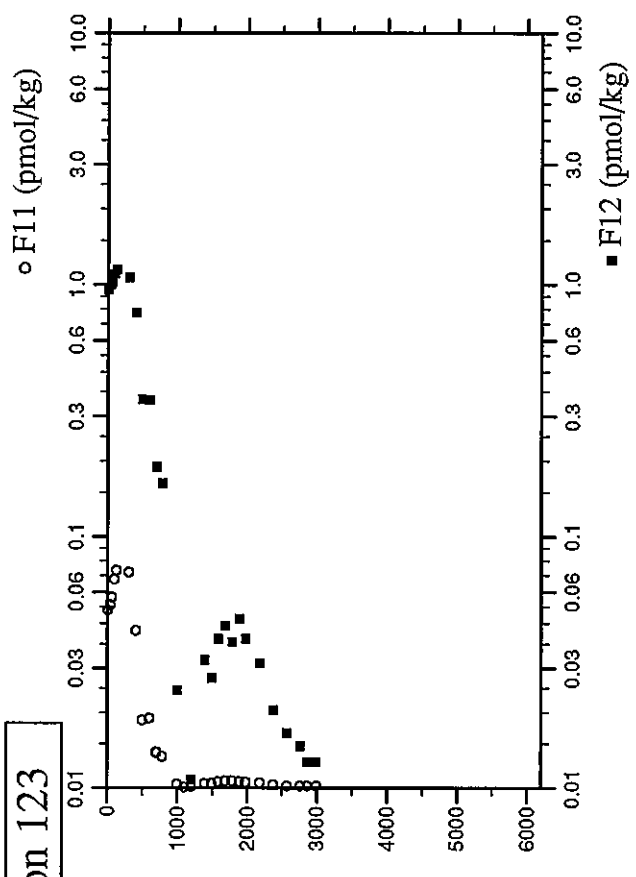
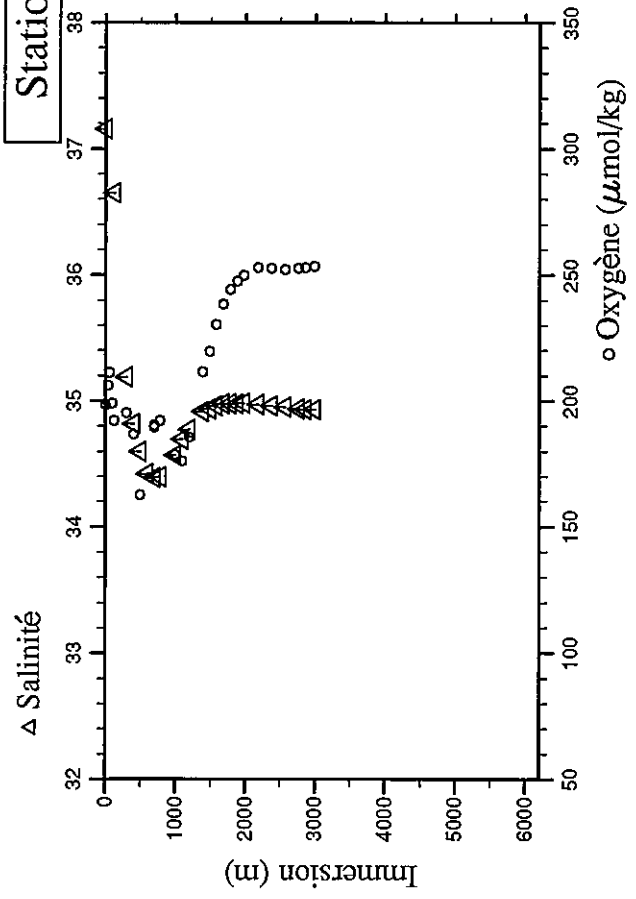
# Station 122



Station : 123 Campagne : CIPHER 2  
 Date : 18-02-94 Heure : 18 h 17 mn  
 Position : S 12 34.39 W 37 20.45  
 Dernier niveau à : 3029  
 Nb prélèvements : 28

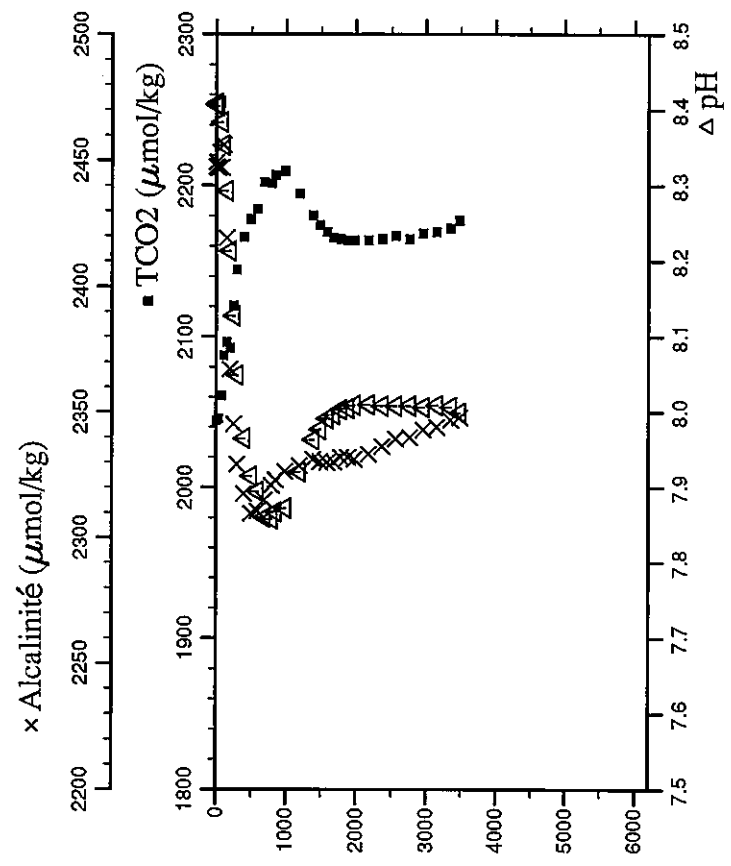
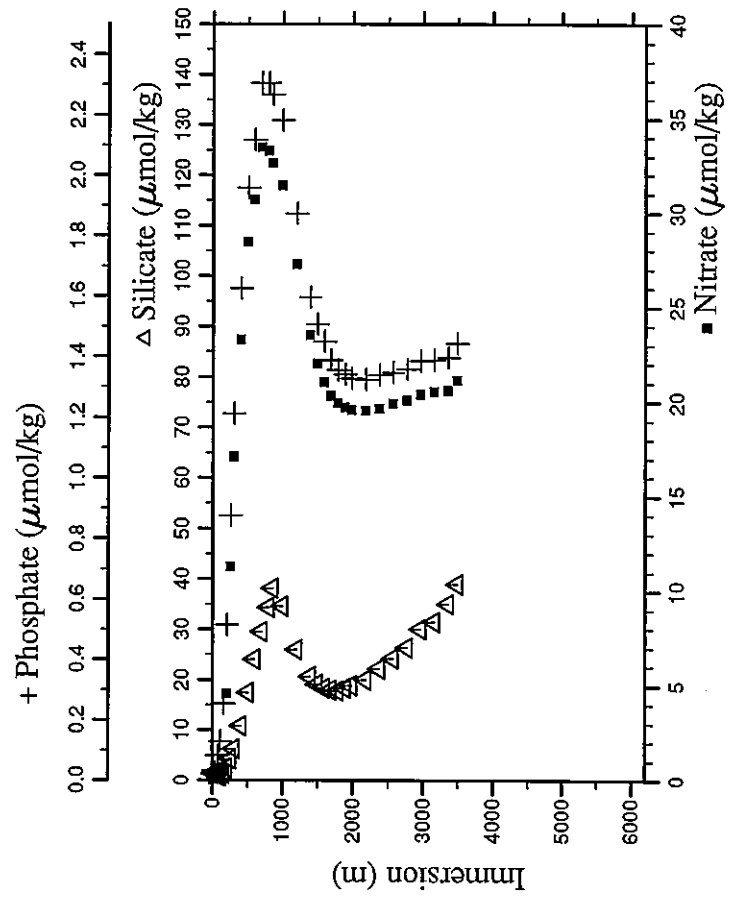
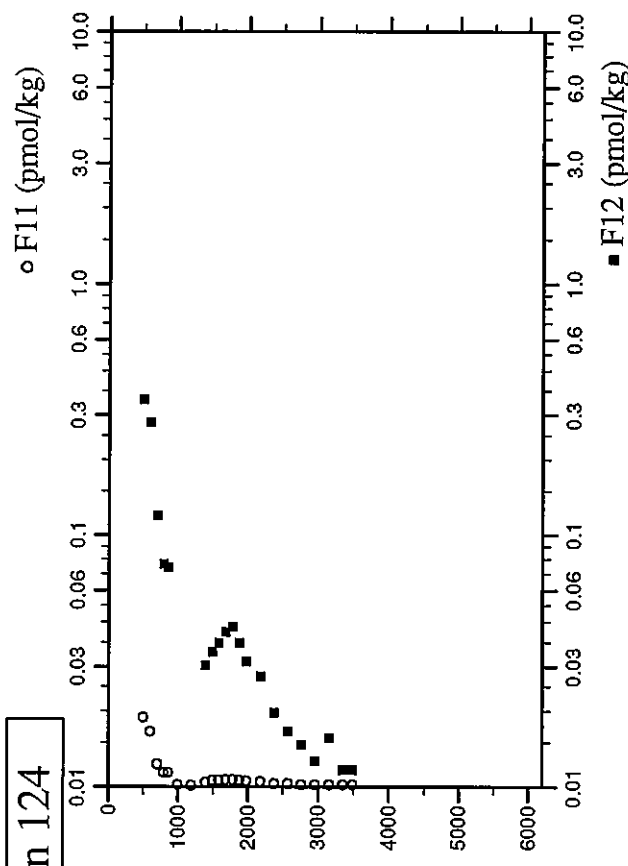
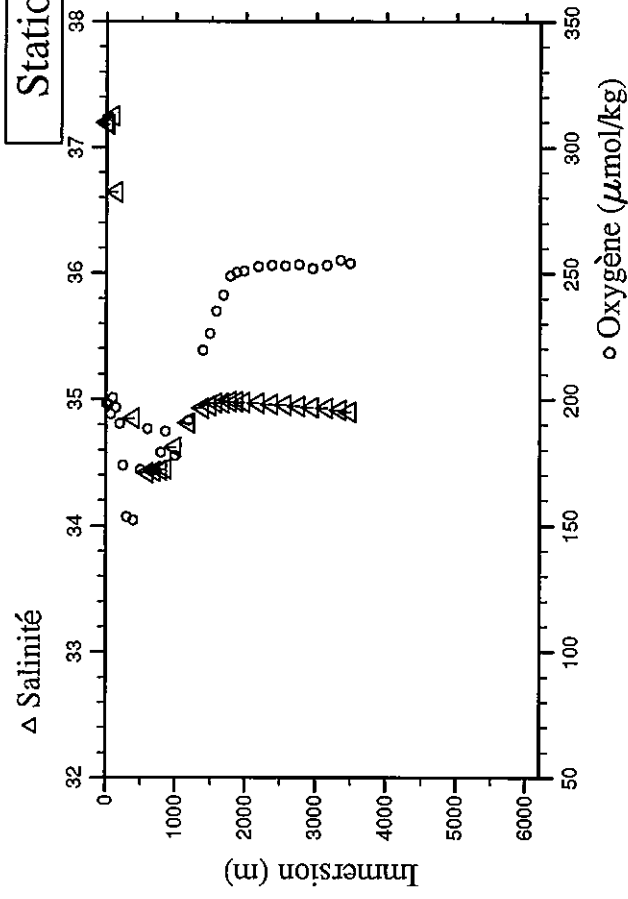
PRESSON CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg. cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.3	4.3	28.792	23.7725	37.158	198.3	0.04	0.044	1.5	1.6531	0.9518	2051.78		8.398
41.2	41.0	27.719	24.3100	37.183	206.0	0.04	0.053	1.2	1.6985	0.9996	2062.45		8.396
60.9	60.5	26.270	24.9145	37.210	211.3	0.04	0.074	1.1	1.7707	1.0220	2065.33		8.384
102.3	101.7	23.685	25.6917	37.020	199.0	0.17	0.191	1.1	1.9384	1.1023	2094.77		8.328
129.1	128.3	21.787	26.0806	36.650	192.0	0.90	0.301	1.3	2.0207	1.1416	2104.61		8.279
300.9	299.0	13.101	27.8598	35.192	195.1	12.15	0.890	4.6	2.0009	1.0656	2108.87		8.127
401.3	398.6	9.942	28.6274	34.818	186.8	19.97	1.382	9.1	1.4592	0.7696	2140.86		8.024
501.2	497.7	7.361	29.3366	34.599	162.5	28.57	1.915	16.4	0.6328	0.3492	2178.06		7.919
601.7	597.4	5.375	29.9325	34.420	189.7	30.93	2.083	22.9	0.6482	0.3473	2182.71		7.910
699.5	694.3	4.377	30.4878	34.394	189.5	32.75	2.209	29.7	0.3267	0.1898	2201.37		7.888
699.7	694.5	4.445	30.4853	34.391	190.3	32.80	2.209	29.8	0.3362	0.1878			7.891
783.7	777.7	4.017	30.9232	34.398	192.1	33.13	2.236	33.9	0.2907	0.1624	2200.38		7.884
1001.3	993.2	3.731	32.0806	34.571	178.7	32.92	2.213	36.9	0.0366	0.0245	2211.39		7.875
1101.8	1092.6	4.124	32.5926	34.699	176.0	31.43	2.104	35.3	0.0101	0.0078			7.882
1201.5	1191.2	4.142	33.1018	34.775	185.6	29.33	1.972	28.2	0.0114	0.0108			7.909
1401.3	1388.6	4.256	34.0964	34.914	211.4	24.27	1.648	21.4	0.0437	0.0323			7.960
1501.2	1487.2	4.176	34.5741	34.936	219.6	23.26	1.572	20.3	0.0430	0.0274			7.972
1601.2	1585.9	4.077	35.0565	34.962	230.3	22.06	1.480	18.9	0.0595	0.0391			7.985
1701.8	1685.2	3.960	35.5346	34.978	238.3	21.29	1.412	18.3	0.0683	0.0440			7.999
1801.9	1783.9	3.814	36.0053	34.978	244.2	20.69	1.376	18.4	0.0671	0.0381			8.005
1901.0	1881.5	3.707	36.4659	34.977	247.5	20.39	1.352	18.3	0.0638	0.0469			8.009
1997.0	1976.1	3.596	36.9090	34.980	249.9	20.13	1.340	18.9	0.0563	0.0391			8.011
2200.3	2176.2	3.348	37.8461	34.972	252.9	19.96	1.324	20.6	0.0474	0.0313			8.013
2399.0	2371.7	3.147	38.7483	34.959	252.6	20.23	1.347	23.3	0.0293	0.0205			8.014
2598.6	2567.8	2.940	39.6547	34.949	252.2	20.53	1.364	26.3	0.0221	0.0166			8.012
2799.7	2765.2	2.653	40.5771	34.935	252.7	20.79	1.388	30.2	0.0201	0.0147			8.012
2899.0	2862.6	2.544	41.0262	34.933	252.9	20.88	1.396	31.5	0.0199	0.0127			8.010
3026.1	2987.3	2.466	41.5932	34.931	253.5	20.88	1.399	32.3	0.0179	0.0127			8.010

Station 123



Station : 124 Campagne : CITHER 2  
 Date : 19-02-94 Heure : 0 h 15 mn  
 Position : S 12 42.93 W 37 7.97  
 Dernier niveau à : 3543  
 Nb prélèvements : 32

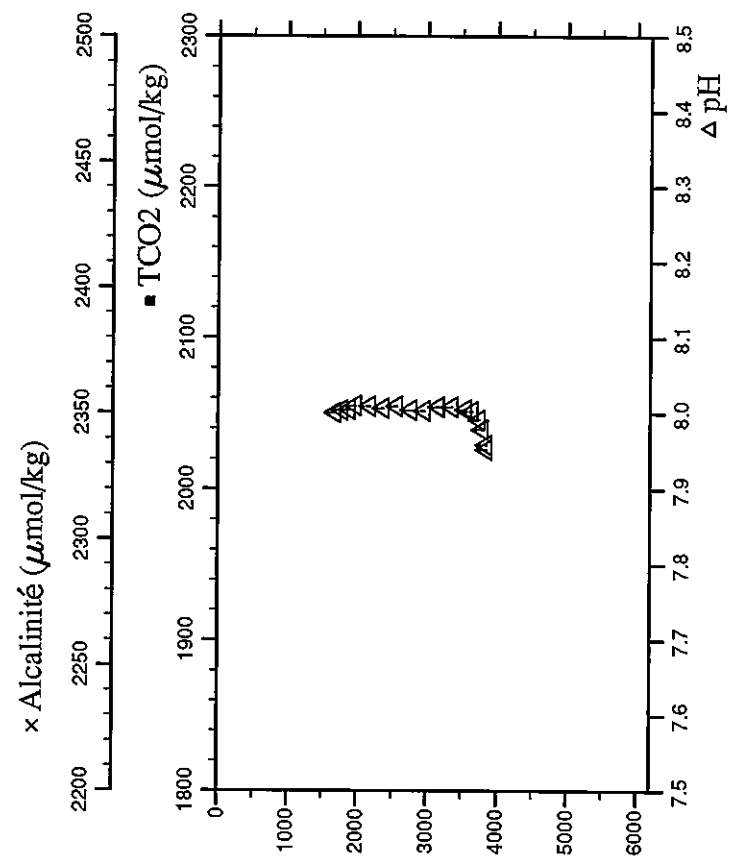
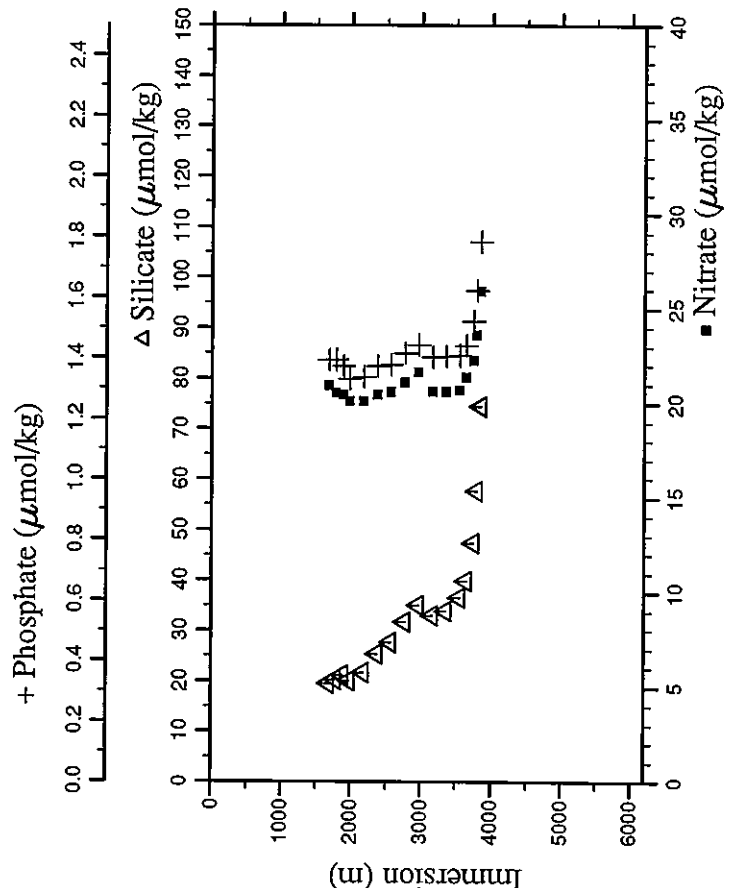
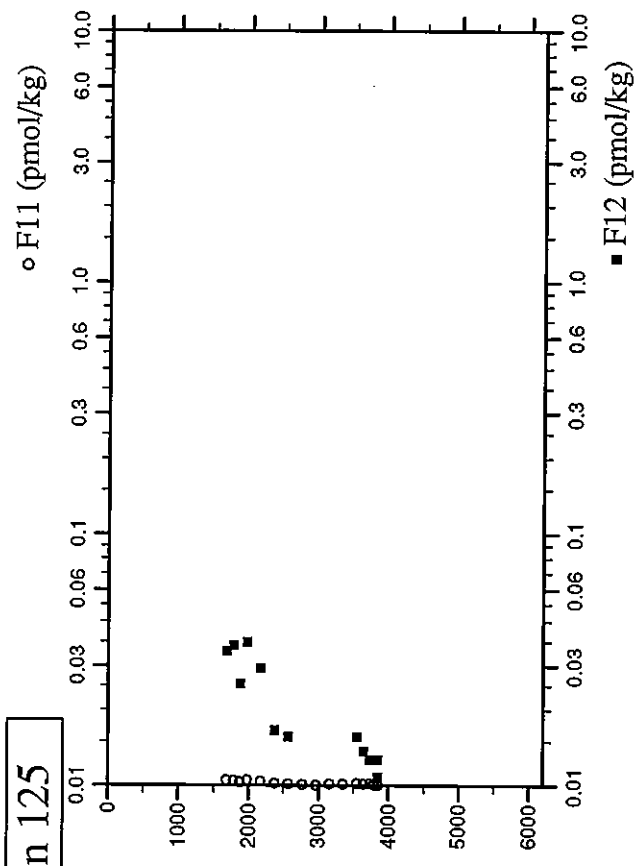
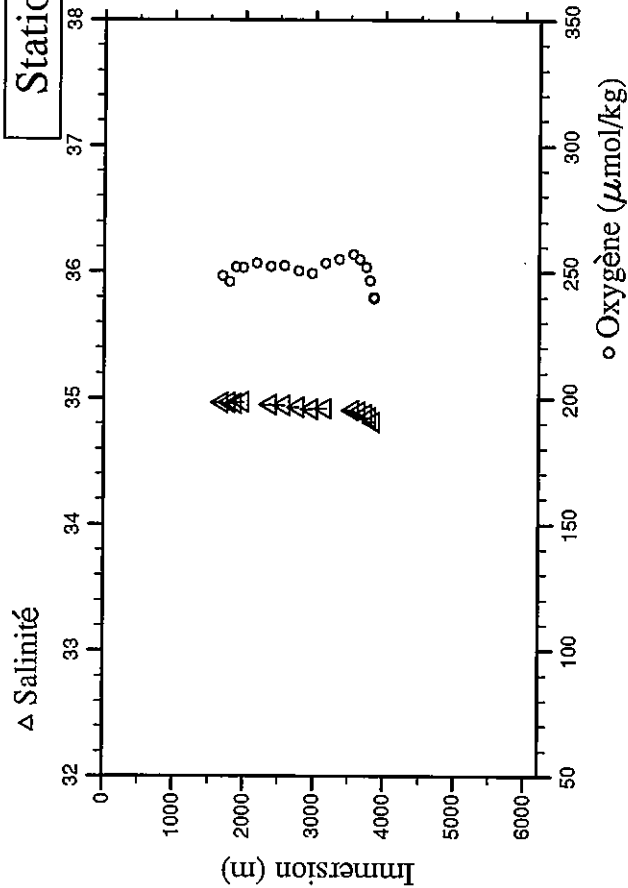
PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
3.5	3.5	28.685	23.8334	37.198	198.5	0.04	0.032	1.3			2044.36	2447.2	8.408
3.6	3.6	28.685	23.8339	37.197	198.3	0.04	0.026	1.3			2044.36	2449.0	8.407
31.0	30.8	28.566	23.9784	37.186	197.9	0.04	0.026	1.4			2045.49	2446.7	8.405
75.0	74.6	26.710	24.7576	37.133	194.2	0.04	0.083	1.0			2060.95	2447.1	8.384
101.7	101.1	25.041	25.4640	37.252	200.4	0.08	0.131	1.0			2087.49	2455.9	8.353
150.0	149.1	21.684	26.1950	36.647	196.7	0.56	0.256	1.3			2096.31	2419.2	8.293
200.9	199.6	17.311	27.0110	35.850	190.4	4.61	0.516	2.4			2092.53	2367.0	8.213
250.3	248.7	14.647	27.4827	35.451	173.8	11.33	0.876	4.2			2120.70	2345.2	8.128
300.9	299.0	12.735	27.9247	35.198	153.4	17.11	1.212	6.3			2144.36	2329.0	8.049
400.7	398.0	9.871	28.6549	34.847	152.2	23.28	1.625	10.8		0.6418	2166.02	2317.5	7.965
500.7	497.2	6.821	29.3551	34.545	172.0	28.49	1.958	17.5		0.2798	2177.90	2309.4	7.915
600.5	596.2	5.138	29.9501	34.415	188.3	30.70	2.118	24.1		0.5140	2184.39	2310.5	7.895
700.4	695.2	4.555	30.4955	34.427	171.8	33.49	2.307	29.6		0.2088	2202.43	2314.9	7.860
799.7	793.6	4.028	31.0297	34.439	178.8	33.28	2.307	34.4		0.1339	2201.45	2320.6	7.858
860.1	853.4	3.656	31.3554	34.447	187.2	32.64	2.268	38.2		0.1306	2206.83	2323.1	7.868
1001.4	993.2	3.874	32.1105	34.620	177.5	31.47	2.184	34.6		0.0191	2209.36	2326.2	7.873
1199.5	1189.2	4.202	33.1177	34.816	191.7	27.28	1.874	26.0		0.0125	2194.80	2328.5	7.921
1399.7	1387.0	4.227	34.1021	34.929	219.2	23.52	1.597	20.6		0.0434	2180.08	2331.1	7.963
1499.4	1485.4	4.135	34.5834	34.952	226.0	22.05	1.508	19.1		0.0631	2173.97	2330.2	7.977
1600.4	1585.1	4.011	35.0658	34.969	234.8	21.06	1.449	18.4		0.0588	2169.14	2329.9	7.991
1700.2	1683.6	3.882	35.5366	34.972	241.2	20.33	1.389	18.0		0.0372	2165.35	2330.0	7.996
1801.0	1783.0	3.770	36.0067	34.980	248.9	19.95	1.357	17.9		0.0411	2165.35	2330.0	7.996
1900.3	1880.8	3.667	36.4660	34.980	250.3	19.73	1.341	18.3		0.0631	2164.62	2331.8	8.003
2000.0	1979.0	3.543	36.9277	34.978	250.9	19.60	1.329	18.9		0.0672	2163.52	2331.8	8.005
2200.1	2176.0	3.387	37.8377	34.969	252.5	19.56	1.325	20.0		0.0313	2163.70	2331.2	8.010
2399.9	2372.5	3.199	38.7446	34.962	253.2	19.65	1.339	22.2		0.0497	2163.59	2333.2	8.008
2599.5	2568.7	3.051	39.6439	34.956	252.8	19.92	1.348	24.2		0.0196	2164.73	2336.1	8.008
2798.0	2763.5	2.885	40.5380	34.946	253.3	20.09	1.359	26.4		0.0294	2166.82	2339.3	8.008
2996.6	2958.3	2.676	41.4333	34.935	251.9	20.39	1.387	30.0		0.0224	2164.75	2339.8	8.008
3196.1	3153.8	2.534	42.3247	34.930	253.2	20.53	1.389	31.4		0.0188	2168.28	2342.7	8.007
3398.5	3352.0	2.260	43.2414	34.914	255.1	20.61	1.398	35.0		0.0183	2169.02	2343.9	8.009
3534.0	3484.6	2.110	43.8461	34.901	253.8	21.14	1.443	39.0		0.0203	2171.83	2346.7	8.007
										0.0173	2176.69	2347.7	7.999





Station : 125 Campagne : CITHER 2  
 Date : 19-02-94 Heure : 5 h 40 mn  
 Position : S 12 57.34 W 36 47.29  
 Dernier niveau à : 3906  
 Nb prélèvements : 17

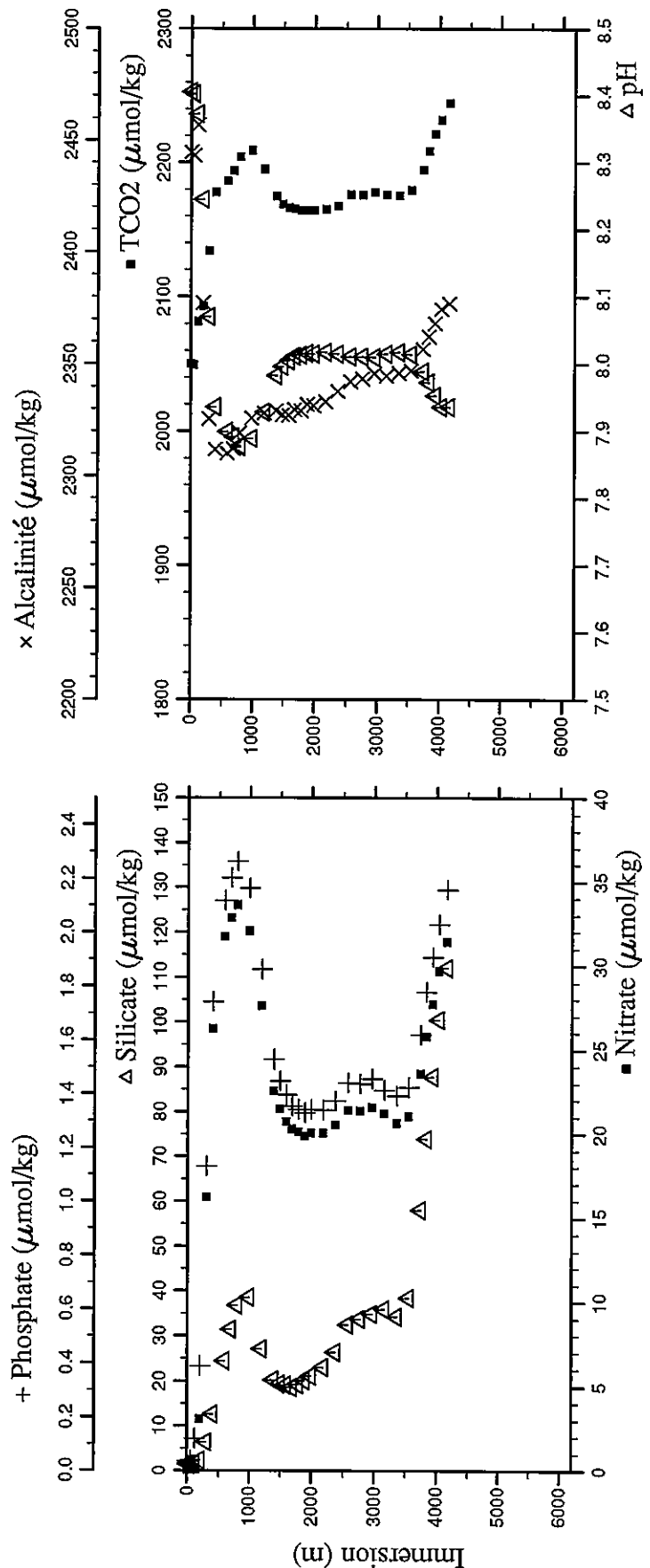
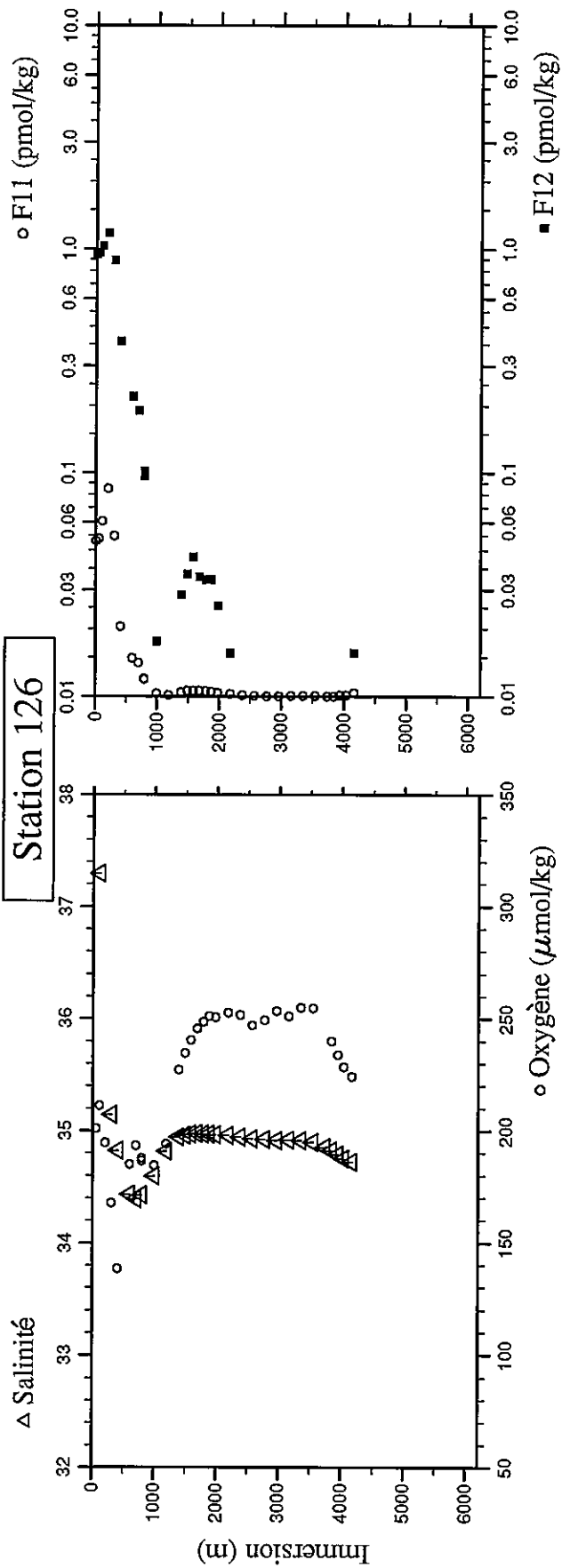
PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
1699.5	1682.9	3.722	35.5506	34.968	248.3	20.94	1.392	19.5	0.0521	0.0342			8.001
1799.4	1781.4	3.595	36.0158	34.967	245.9	20.57	1.395	20.3	0.0445	0.0362			8.004
1899.1	1879.6	3.481	36.4765	34.963	251.9	20.49	1.374	21.1	0.0326	0.0254			8.005
2000.4	1979.4	3.437	36.9427	34.970	251.6	20.12	1.332	20.0	0.0489	0.0372			8.010
2200.0	2175.9	3.264	37.8509	34.972	253.3	20.13	1.337	21.7	0.0398	0.0293			8.009
2399.8	2372.4	3.032	38.7619	34.953	252.1	20.47	1.373	25.4	0.0215	0.0166			8.007
2599.3	2568.4	2.852	39.6666	34.945	252.4	20.61	1.377	27.6	0.0154	0.0156			8.009
2800.3	2765.8	2.660	40.5725	34.929	250.4	21.13	1.416	31.7	0.0103	0.0098			8.004
3000.0	2961.6	2.518	41.4631	34.917	249.3	21.65	1.444	35.0	0.0045	0.0039			8.003
3202.3	3159.9	2.441	42.3643	34.921	253.3	20.66	1.403	33.0	0.0124	0.0088			8.008
3399.7	3353.1	2.327	43.2392	34.907	254.9	20.66	1.406	33.9	0.0155	0.0098			8.008
3599.3	3548.4	2.175	44.1234	34.905	256.9	20.71	1.410	36.5	0.0180	0.0156			8.005
3698.4	3645.3	2.074	44.5632	34.897	254.8	21.39	1.442	39.8	0.0145	0.0137			8.002
3794.6	3739.3	1.877	44.9988	34.875	251.8	22.28	1.521	47.4	0.0181	0.0127			7.991
3848.4	3791.8	1.653	45.2519	34.852	246.6	23.63	1.624	57.6	0.0087	0.0059			7.979
3902.0	3844.2	1.304	45.5165	34.816	239.8	25.93	1.785	74.4	0.0124	0.0127			7.958
3902.1	3844.3	1.294	45.5193	34.813	239.3	25.94	1.785	74.6	0.0047	0.0108			7.952



Station : 126 Campagne : CITHER 2  
 Date : 19-02-94 Heure : 11 h 47 mn  
 Position : S 13 12.39 W 36 27.07  
 Dernier niveau à : 4239  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.0	7.0	28.601	23.8810	34.722	r	0.04	0.035	1.5	1.6206	0.9430	2050.36	2444.4	8.406
50.9	50.6	28.390	24.1300	37.181	r	0.04	0.038	1.5	1.6460	0.9596	2049.42	2443.1	8.402
111.4	110.7	25.198	25.4858	37.293	r	0.04	0.119	1.4	1.8280	1.0279	2081.53	2456.8	8.373
200.4	199.1	18.493	26.8133	36.048	r	3.08	0.388	2.3	2.1697	1.1754	2092.79	2377.2	8.245
301.5	299.5	12.645	27.9152	35.144	r	16.24	1.131	6.4	1.6731	0.8868	2133.90	2325.5	8.070
401.7	399.0	9.542	28.7023	34.825	r	26.26	1.743	12.6	0.7228	0.3873	2177.55	2311.7	7.936
601.4	597.1	5.259	29.9541	34.430	r	31.72	2.117	24.5	0.3973	0.2191	2186.30	2309.9	7.900
701.1	695.9	4.240	30.5074	34.392	r	32.86	2.202	31.5	0.3521	0.1898	2193.75	2312.1	7.892
799.6	793.5	3.834	31.0378	34.427	r	33.58	2.264	36.8	0.1793	0.1017	2204.60	2319.3	7.877
799.8	793.7	3.835	31.0395	34.428	r	33.63	2.264	36.8	0.1842	0.0968	2204.60	2319.2	7.879
1000.3	992.1	3.647	32.1115	34.596	r	32.07	2.164	38.6	0.0336	0.0176	2208.97	2325.7	7.890
1199.5	1189.2	4.090	33.1315	34.817	r	27.64	1.864	27.1	0.0132	0.0078	2194.96	2328.2	7.929
1399.6	1386.9	4.083	34.1363	34.946	r	22.57	1.528	20.2	0.0419	0.0284	2174.94	2329.2	7.983
1500.2	1486.2	3.945	34.6227	34.963	r	21.49	1.447	19.4	0.0616	0.0352	2168.73	2327.2	7.996
1600.1	1584.8	3.830	35.0937	34.972	r	20.75	1.397	19.1	0.0635	0.0420	2166.18	2327.0	8.005
1700.1	1683.4	3.732	35.5612	34.977	r	20.32	1.355	18.6	0.0609	0.0342	2165.46	2329.6	8.012
1801.6	1783.5	3.592	36.0337	34.973	r	20.14	1.343	19.3	0.0562	0.0332	2163.98	2329.2	8.013
1900.5	1881.0	3.489	36.4905	34.974	r	19.89	1.330	20.1	0.0498	0.0332	2164.00	2331.9	8.015
2001.1	1980.1	3.385	36.9503	34.959	r	20.07	1.340	23.1	0.0385	0.0254	2163.94	2331.3	8.018
2200.1	2176.0	3.195	37.8596	34.959	r	20.07	1.340	23.1	0.0285	0.0156	2164.85	2333.1	8.015
2400.1	2372.7	2.972	38.7711	34.947	r	20.55	1.374	26.4	0.0149	0.0098	2167.37	2337.7	8.011
2600.2	2569.3	2.726	39.6768	34.930	r	21.42	1.441	32.5	0.0103	0.0059	2175.86	2342.0	8.010
2800.2	2765.6	2.498	40.5747	34.927	r	21.38	1.437	33.7	0.0026	0.0049	2175.59	2343.3	8.015
2999.3	2960.9	2.417	41.4617	34.916	r	21.60	1.457	34.9	0.0042	0.0010	2177.52	2345.6	8.018
3199.1	3156.7	2.312	42.3512	34.921	r	20.65	1.415	35.9	0.0064	0.0059	2176.13	2344.6	8.014
3398.8	3352.2	2.144	43.2377	34.918	r	21.05	1.392	34.2	0.0089	0.0068	2175.12	2345.9	8.018
3598.3	3547.4	1.643	44.1207	34.902	r	21.05	1.425	38.4	0.0107	0.0059	2179.50	2347.0	7.989
3796.8	3741.4	1.321	45.0320	34.854	r	23.58	1.620	58.0	0.0038	0.0049	2194.60	2356.5	7.953
3895.8	3838.1	1.014	45.4891	34.824	r	25.78	1.778	73.9	0.0023	0.0030	2208.54	2362.1	7.936
3996.9	3936.8	0.715	45.9553	34.787	r	27.74	1.907	87.7	0.0145	0.0030	2221.25	2368.1	7.953
4097.8	4035.2	0.422	46.4201	34.754	r	29.69	2.029	100.5	0.0123	0.0049	2232.09	2374.3	7.936
4229.6	4163.8	0.422	47.0169	34.722	r	31.43	2.158	112.0	0.0348	0.0156	2244.61	2377.0	7.936

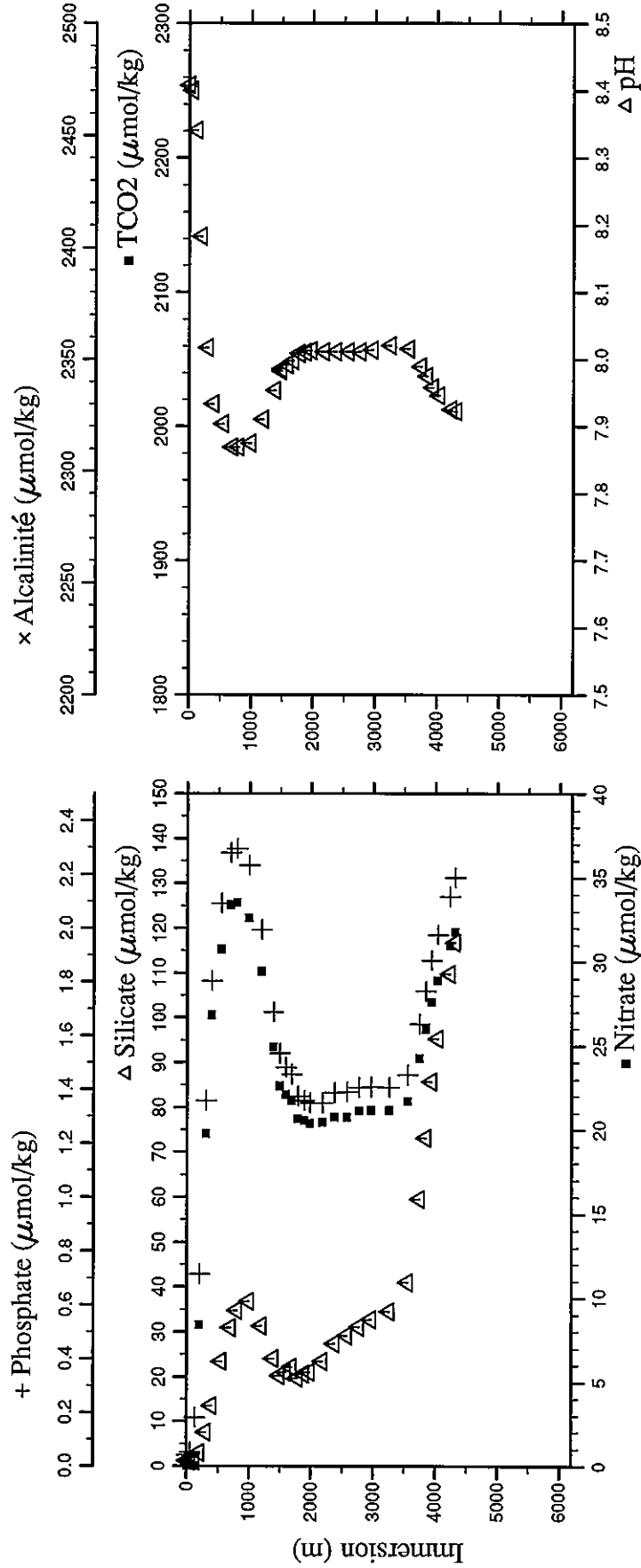
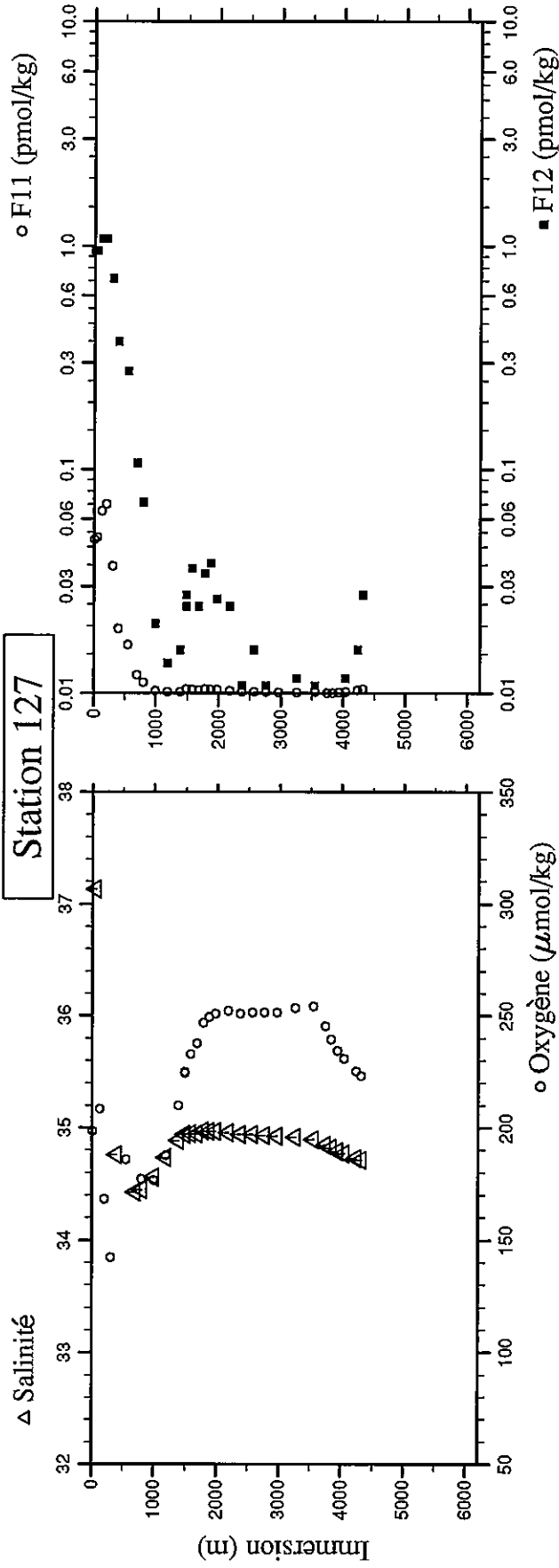
# Station 126



Station : 127 Campagne : CITHER 2  
 Date : 19-02-94 Heure : 17 h 49 mn  
 Position : S 13 13.46 W 35 57.69  
 Dernier niveau à : 4388  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSTION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.4	5.4	28.555	23.8753	37.198	198.4	0.04	0.040	1.2	1.6010	0.9508			8.408
51.9	51.6	28.158	24.1652	37.135	201.4	0.04	0.052	1.1	1.6259	0.9499			8.401
126.5	125.7	24.032	25.6631	36.962	208.4	0.04	0.180	1.1	1.9022	1.0789			8.341
201.8	200.5	17.927	26.9225	35.962	168.2	8.41	0.714	3.0	1.9721	1.0767			8.184
302.2	300.2	12.285	27.9894	35.131	142.4	19.77	1.359	7.5	1.3257	0.7147			8.018
395.7	393.0	8.860	28.7339	34.756	143.8	26.83	1.804	13.5	0.6730	0.3726			7.934
551.5	547.6	5.329	29.7062	34.427	185.8	30.76	2.092	23.5	0.5089	0.2749			7.904
701.1	695.9	4.437	30.5125	34.429	174.0	33.40	2.280	31.0	0.1892	0.1066			7.869
801.6	795.4	4.033	31.0366	34.446	177.0	33.51	2.295	34.8	0.1135	0.0714			7.869
1001.6	993.4	3.769	32.0708	34.560	176.6	32.60	2.233	36.8	0.0248	0.0205			7.875
1200.6	1190.2	3.927	33.0902	34.735	187.5	29.41	1.994	31.3	0.0122	0.0137			7.911
1400.9	1388.1	4.025	34.1030	34.884	209.8	24.92	1.687	24.1	0.0131	0.0156			7.954
1499.6	1485.6	4.063	34.5862	34.942	224.8	22.60	1.534	20.3	0.0440	0.0244			7.986
1499.8	1485.8	4.063	34.5861	34.942	224.3	22.58	1.533	20.3	0.0427	0.0274			7.983
1601.5	1586.2	3.835	35.0800	34.948	232.8	22.11	1.481	21.0	0.0379	0.0362			7.992
1700.5	1683.8	3.608	35.5547	34.946	237.6	21.73	1.456	22.2	0.0293	0.0244			7.998
1798.8	1780.8	3.582	36.0171	34.969	246.8	20.66	1.375	19.7	0.0423	0.0342			8.009
1900.5	1881.0	3.464	36.4880	34.967	249.2	20.55	1.359	20.6	0.0403	0.0381			8.011
1999.6	1978.6	3.370	36.9430	34.964	250.9	20.37	1.350	21.0	0.0395	0.0264			8.013
2200.6	2176.5	3.137	37.8672	34.956	252.0	20.45	1.351	23.5	0.0278	0.0244			8.012
2399.4	2372.0	2.912	38.7721	34.941	250.8	20.75	1.389	27.4	0.0114	0.0108			8.012
2600.2	2569.3	2.763	39.6816	34.942	251.4	20.75	1.390	29.1	0.0150	0.0156			8.012
2799.5	2765.0	2.629	40.5749	34.932	251.3	21.11	1.408	31.1	0.0150	0.0108			8.012
2998.7	2960.3	2.512	41.4641	34.924	251.4	21.16	1.409	32.7	0.0089	0.0088			8.014
3299.3	3254.8	2.346	42.7990	34.915	253.3	21.16	1.407	34.5	0.0076	0.0117			8.021
3600.9	3549.9	2.035	44.1452	34.894	254.1	21.70	1.455	41.0	0.0155	0.0108			8.016
3799.4	3743.9	1.610	45.0451	34.846	245.3	24.24	1.643	59.6	0.0013	0.0068			7.990
3899.9	3842.1	1.306	45.5091	34.818	239.4	25.97	1.765	73.2	0.0045	0.0049			7.975
3998.5	3938.3	1.043	45.9595	34.787	234.3	27.60	1.881	85.7	0.0095	0.0098			7.958
4099.3	4036.7	0.831	46.4155	34.766	230.7	28.88	1.976	95.2	0.0154	0.0117			7.946
4298.6	4231.0	0.465	47.3102	34.728	225.1	30.96	2.117	109.8	0.0343	0.0156			7.925
4386.5	4316.7	0.284	47.7070	34.710	223.2	31.75	2.187	116.7	0.0446	0.0274			7.923

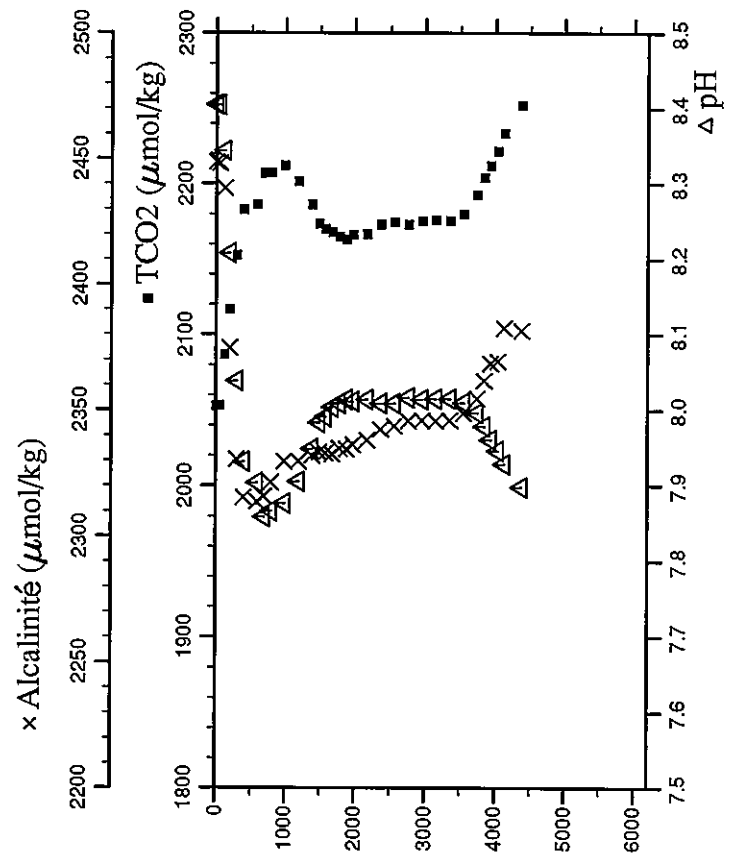
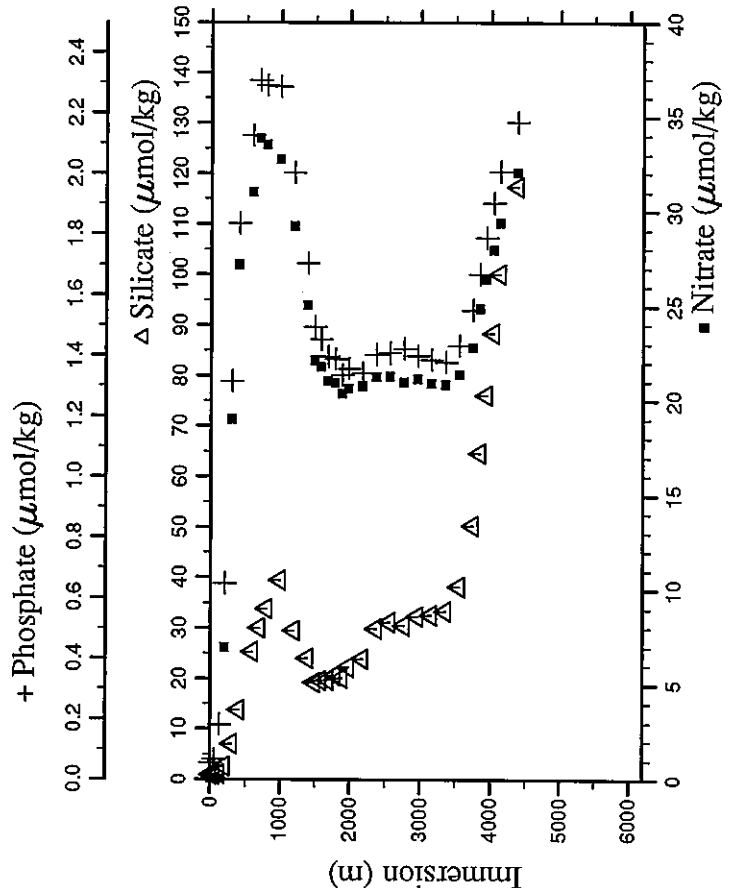
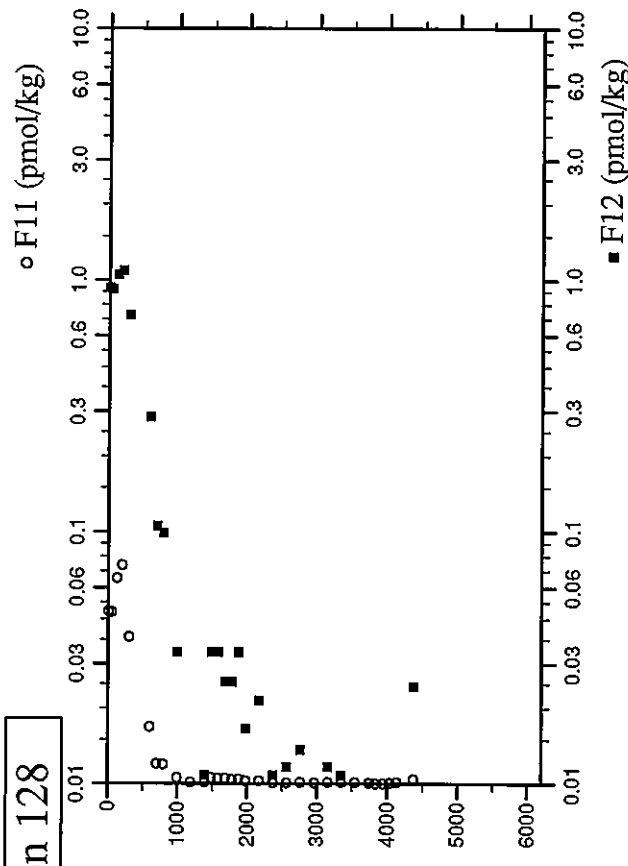
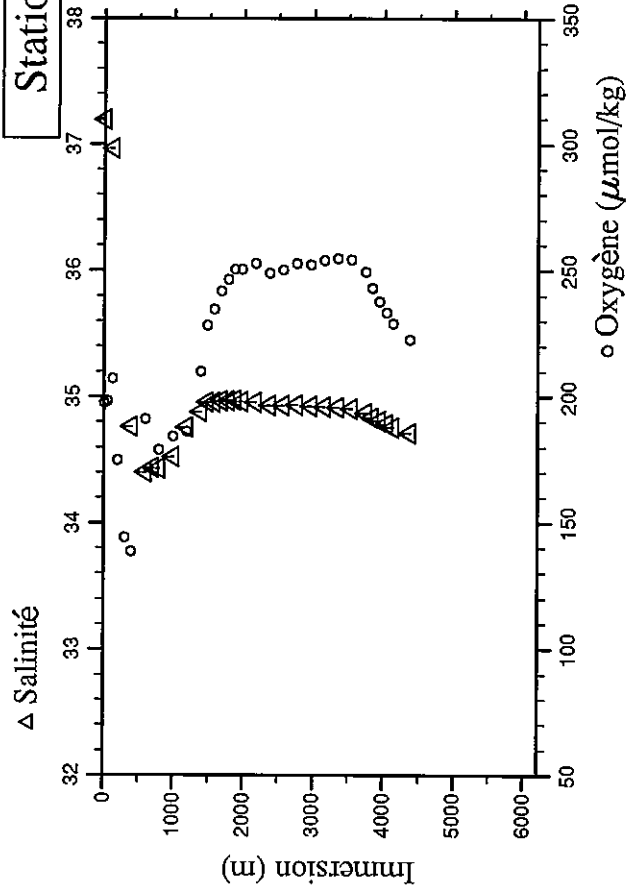
# Station 127



Station : 128 Campagne : CITHER 2  
 Date : 20-02-94 Heure : 0 h 2 mn  
 Position : S 13 14.61 W 35 28.59  
 Dernier niveau à : 4318  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSTION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.0	4.0	28.538	23.8817	37.193	197.4	0.04	0.056	0.9	1.5968	0.9294	2052.51	2448.7	8.406
50.5	50.2	28.372	24.1287	37.177	198.2	0.04	0.067	0.9	1.5948	0.9196	2052.97	2448.2	8.405
125.0	124.2	23.832	25.7123	36.964	207.2	0.04	0.180	1.1	1.9052	1.0545	2086.63	2438.1	8.344
200.4	199.1	17.800	26.9583	35.993	174.9	6.99	0.648	2.6	2.0267	1.0884	2116.70	2374.7	8.208
300.9	298.9	12.629	27.9454	35.176	144.0	19.03	1.315	7.0	1.3604	0.7215	2152.87	2330.4	8.039
400.4	397.7	8.904	28.7555	34.762	138.5	27.19	1.835	13.8			2182.89	2315.3	7.932
600.0	595.7	4.966	29.9637	34.402	191.2	31.02	2.126	25.4	0.5290	0.2847	2186.25	2313.6	7.904
699.8	694.6	4.547	30.5012	34.440	168.7	33.85	2.309	30.1	0.1857	0.1056	2207.09	2315.6	7.859
799.8	793.7	4.084	31.0094	34.430	178.8	33.51	2.291	33.9	0.1771	0.0988	2207.23	2321.2	7.867
1000.5	992.3	3.595	32.0634	34.526	184.3	32.73	2.287	39.4	0.0567	0.0333	2212.14	2329.6	7.877
1200.8	1190.4	4.089	33.0970	34.759	186.3	29.23	2.004	29.6	0.0110	0.0029	2201.52	2329.6	7.906
1400.8	1388.0	4.040	34.1024	34.881	209.8	25.05	1.705	24.1	0.0144	0.0108	2186.18	2331.9	7.949
1499.0	1485.0	4.088	34.5913	34.955	228.2	22.13	1.495	19.3	0.0577	0.0332	2173.59	2333.2	7.984
1598.7	1583.4	3.908	35.0673	34.956	234.5	21.79	1.454	19.6	0.0507	0.0332	2170.15	2333.0	7.991
1699.0	1682.3	3.717	35.5506	34.964	241.8	21.06	1.397	19.7	0.0471	0.0254	2168.05	2332.5	8.004
1799.6	1781.5	3.549	36.0216	34.965	246.3	20.95	1.388	20.6	0.0348	0.0254	2165.12	2334.7	8.009
1899.5	1880.0	3.467	36.4871	34.971	250.4	20.38	1.335	20.1	0.0457	0.0332	2163.19	2334.5	8.014
1999.9	1978.9	3.294	36.9521	34.959	250.3	20.65	1.357	22.3	0.0242	0.0166	2166.39	2336.1	8.012
2199.0	2174.9	3.087	37.8692	34.955	252.7	20.78	1.343	24.0	0.0277	0.0215	2166.64	2337.9	8.014
2399.1	2371.7	2.838	38.7758	34.931	248.9	21.27	1.403	29.9	0.0092	0.0108	2173.10	2342.2	8.009
2599.3	2568.4	2.718	39.6789	34.929	250.0	21.29	1.409	31.2	0.0100	0.0117	2174.55	2343.6	8.009
2799.8	2765.2	2.640	40.5762	34.934	252.5	20.99	1.422	30.5	0.0120	0.0137	2173.13	2345.7	8.017
2999.5	2961.1	2.530	41.4651	34.927	252.0	21.15	1.399	32.4	0.0108	0.0049	2175.35	2345.9	8.014
3198.9	3156.5	2.443	42.3504	34.922	254.0	20.93	1.387	32.6	0.0121	0.0117	2175.97	2345.7	8.015
3398.8	3352.2	2.354	43.2320	34.917	254.6	20.85	1.378	33.3	0.0137	0.0108	2175.43	2345.8	8.015
3598.2	3547.3	2.166	44.1177	34.904	254.1	21.40	1.434	38.2	0.0114	0.0078	2179.89	2348.6	8.010
3800.0	3744.5	1.823	45.0266	34.870	249.4	22.81	1.549	50.2	0.0053	0.0068	2192.50	2354.6	7.996
3998.5	3840.7	1.519	45.4816	34.836	243.0	24.89	1.668	64.6	0.0001	0.0010	2203.97	2361.6	7.979
3999.3	3939.1	1.255	45.9435	34.811	237.7	26.40	1.788	76.1	0.0023	0.0059	2211.88	2368.4	7.961
4099.0	4036.4	0.990	46.3973	34.785	233.2	27.95	1.904	88.4	0.0061	0.0068	2221.97	2369.3	7.946
4198.7	4133.6	0.725	46.8539	34.756	228.9	29.40	2.008	100.1	0.0142	0.0088	2233.79	2382.4	7.929
4446.5	4375.2	0.295	47.9633	34.713	222.6	32.06	2.171	117.4	0.0411	0.0244	2252.11	2381.4	7.898

# Station 128





Station : 129 Campagne : CITHER 2  
 Date : 20-02-94 Heure : 7 h 20 mn  
 Position : S 13 15.76 W 34 59.23  
 Dernier niveau à : 4490  
 Nb prélèvements : 16

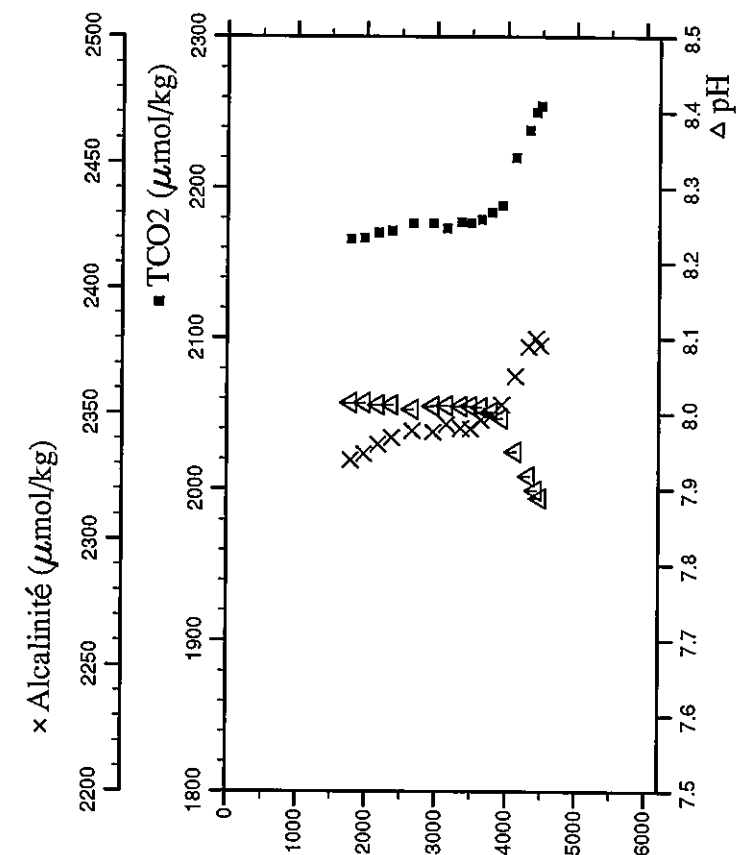
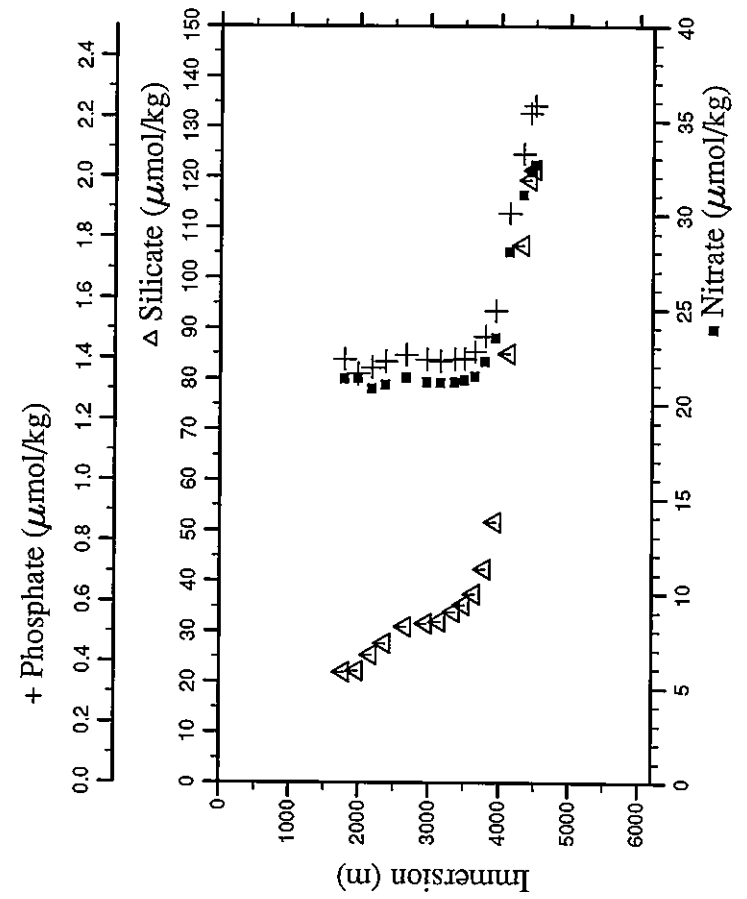
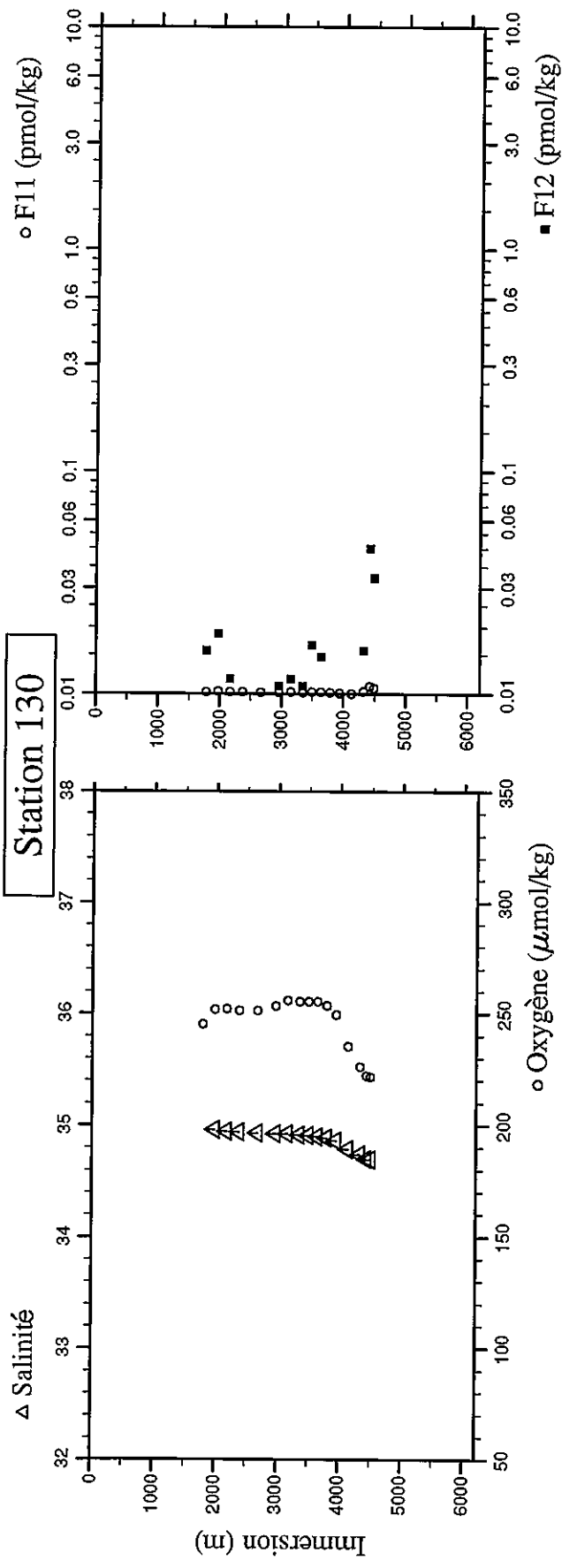
PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
1801.1	1783.0	3.618	36.0295	34.974	248.1	20.56	1.324	19.0	0.0374	0.0244			8.022
2000.4	1979.4	3.343	36.9531	34.964	251.8	20.41	1.322	21.2	0.0229	0.0205			8.022
2199.8	2175.7	3.045	37.8766	34.950	252.4	20.67	1.349	24.7	0.0173	0.0166			8.020
2399.8	2372.4	2.859	38.7864	34.941	252.1	20.66	1.354	27.3	0.0117	0.0147			8.021
2598.8	2567.9	2.704	39.6834		258.8	20.93	1.381	29.9	0.0092	0.0049			8.019
2699.8	2667.1	2.620	40.1381	34.926	250.7	21.29	1.404	31.8	0.0126	0.0108			8.013
2999.0	2960.6	2.477	41.4727		259.5	21.20	1.406	32.9	0.0156	0.0117			8.019
3199.7	3157.3	2.389	42.3617	34.919	252.3	21.07	1.377	32.7	0.0171	0.0117			8.019
3399.6	3353.0	2.312	43.2418	34.914	255.5	20.92	1.373	33.5	0.0199	0.0166			8.018
3548.6	3498.8	2.218	43.9000	34.911	255.7	21.08	1.372	35.3	0.0138	0.0137			8.015
3699.1	3645.9	2.146	44.5598	34.900	255.5	21.36	1.442	37.2	0.0144	0.0098			8.013
3849.5	3792.8	1.882	45.2361	34.876	251.3	22.51	1.510	47.2	0.0392	0.0235			8.002
3999.5	3939.3	1.477	45.9228	34.833	243.8	25.07	1.690	65.0	0.0048	0.0049			7.979
4199.1	4134.0	0.930	46.8363	34.774	243.5	28.45	1.929	90.8	0.0034	0.0029			7.943
4399.4	4329.3	0.341	47.7582	34.717	223.4	31.76	2.168	114.4	0.0378	0.0254			7.910
4488.8	4416.4	0.186	48.1566	34.700	222.1	32.33	2.206	121.2	0.0629	0.0352			7.895



Station : 130 Campagne : CITHER 2  
 Date : 20-02-94 Heure : 14 h 17 mn  
 Position : S 13 16.90 W 34 30.07  
 Dernier niveau à : 4573  
 Nb prélèvements : 16

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
1800.8	1782.7	3.443	36.0368	34.940	245.3	21.33	1.396	21.9	0.0198	0.0156	2165.94	2331.4	8.014
2000.1	1979.1	3.222	36.9663	34.961	251.8	21.34	1.350	22.2	0.0286	0.0186	2166.83	2333.8	8.014
2199.5	2175.4	2.974	37.8820	34.948	252.1	20.81	1.369	25.4	0.0225	0.0117	2170.17	2337.7	8.012
2399.4	2372.0	2.854	38.7828	34.940	251.4	21.00	1.390	27.6	0.0181	0.0088	2171.40	2340.4	8.012
2699.4	2666.7	2.647	40.1320	34.931	251.3	21.39	1.411	31.0	0.0113	0.0078	2176.57	2343.1	8.006
2999.0	2950.6	2.515	41.4667	34.926	253.4	21.15	1.398	31.6	0.0126	0.0108	2176.35	2342.5	8.010
3200.4	3158.0	2.425	42.3603	34.925	256.0	21.11	1.391	32.0	0.0172	0.0117	2173.08	2345.6	8.011
3398.6	3352.0	2.290	43.2407	34.916	255.5	21.14	1.398	33.8	0.0149	0.0108	2177.35	2344.2	8.010
3548.0	3498.2	2.198	43.8994	34.912	255.3	21.25	1.400	35.2	0.0227	0.0166	2176.96	2343.9	8.010
3699.7	3646.5	2.117	44.5647	34.902	255.3	21.45	1.422	37.4	0.0199	0.0147	2178.84	2347.3	8.008
3848.4	3791.8	1.982	45.2204	34.889	253.6	22.23	1.474	42.4	0.0125	0.0088	2183.61	2349.1	8.002
3998.5	3938.3	1.773	45.8893	34.867	249.6	23.48	1.558	51.7	0.0075	0.0088	2188.10	2353.6	7.994
4198.1	4133.0	1.076	46.8181	34.790	235.3	28.03	1.880	85.0	0.0019	0.0068	2220.21	2364.9	7.950
4398.2	4328.1	0.554	47.7268	34.741	226.2	31.06	2.077	106.5	0.0257	0.0156	2238.30	2376.6	7.918
4499.2	4426.5	0.212	48.1980	34.702	222.2	32.27	2.212	119.4	0.0808	0.0450	2250.31	2379.9	7.899
4567.3	4492.8	0.144	48.4982	34.698	221.5	32.66	2.239	121.5	0.0621	0.0333	2254.56	2377.1	7.889

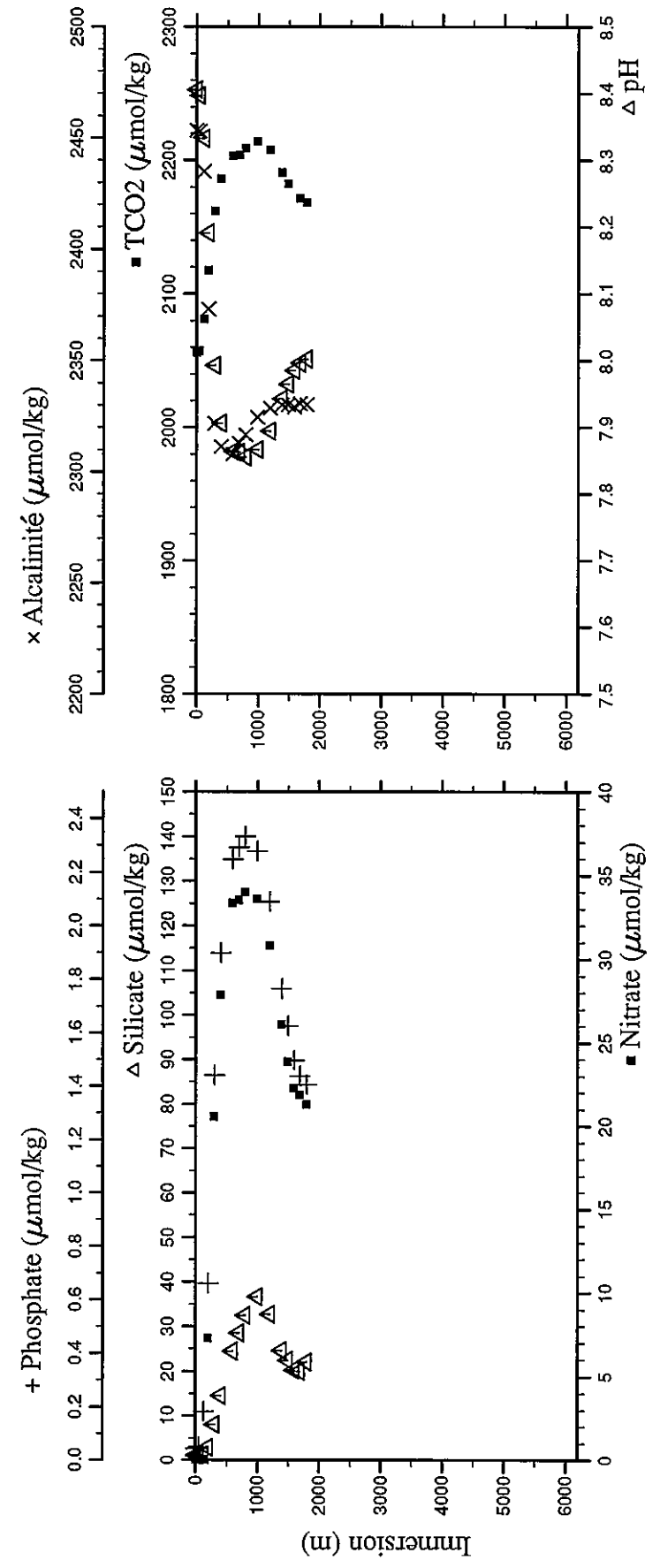
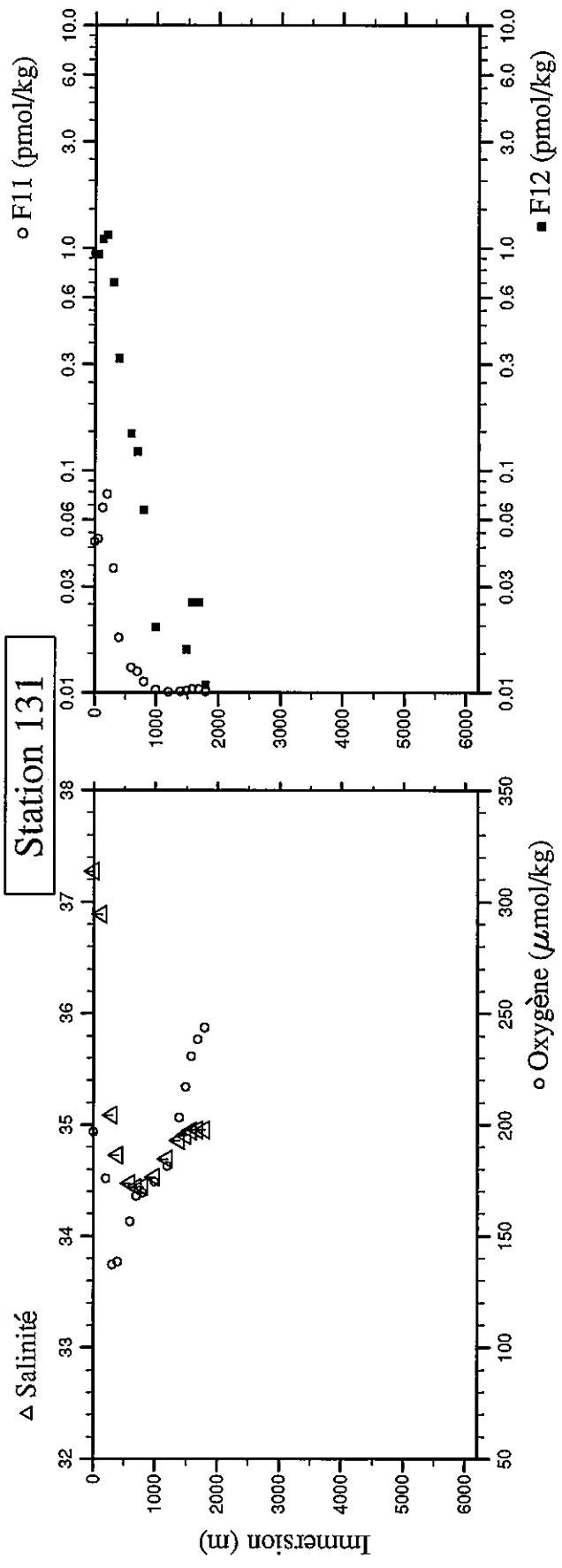
Station 130



Station : 131 Campagne : CIPHER 2  
 Date : 20-02-94 Heure : 18 h 35 mn  
 Position : S 13 16.91 W 34 29.97  
 Dernier niveau à : 1807  
 Nb prélèvements : 16

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
2.1	2.1	28.616	23.9115	37.275	196.9	0.04	0.043	1.1	1.5832	0.9351	2056.21	2453.4	8.406
52.9	52.6	28.422	24.1795	37.257	198.1	0.04	0.049	1.1	1.6132	0.9342	2057.47	2452.8	8.397
126.7	125.9	23.864	25.6509	36.891	210.7	0.04	0.182	1.2	1.9411	1.0936	2081.25	2434.9	8.333
202.0	200.7	18.016	26.9116	35.985	175.9	7.29	0.662	2.9	2.0830	1.1402	2117.72	2373.2	8.191
302.9	300.9	11.910	28.0202	35.087	137.2	20.58	1.441	8.1	1.3097	0.6981	2162.08	2321.7	7.993
401.2	398.5	8.553	28.7910	34.729	138.5	27.87	1.900	14.6	0.5753	0.3188	2185.99	2311.3	7.907
600.2	595.9	5.517	29.9494	34.474	156.5	33.36	2.249	24.5	0.2646	0.1467	2202.98	2308.1	7.864
701.3	696.1	4.777	30.4780	34.439	168.0	33.51	2.293	28.5	0.2204	0.1213	2204.12	2312.8	7.863
801.0	794.8	4.302	30.9987	34.444	169.6	33.99	2.333	32.5	0.1140	0.0665	2208.93	2316.6	7.856
1000.9	992.7	3.804	32.0427	34.529	174.4	33.59	2.278	36.7	0.0290	0.0196	2214.28	2324.6	7.867
1201.3	1190.9	3.876	33.0667	34.691	181.4	30.80	2.090	32.7	0.0065	0.0039	2207.75	2328.6	7.895
1401.9	1389.1	4.091	34.0809	34.862	203.3	26.11	1.765	24.6	0.0143	0.0098	2190.77	2330.1	7.943
1500.9	1486.9	4.010	34.5708	34.907	217.0	23.86	1.625	22.4	0.0211	0.0156	2182.54	2330.2	7.965
1600.5	1585.2	3.901	35.0659	34.946	230.7	22.28	1.497	20.2	0.0367	0.0254	2188.26	2329.2	7.985
1698.5	1681.9	3.760	35.5327	34.957	238.3	21.85	1.437	20.0	0.0352	0.0254	2171.22	2330.7	7.996
1807.4	1789.2	3.466	36.0601	34.954	243.6	21.30	1.405	22.0	0.0154	0.0108	2168.31	2330.0	8.002

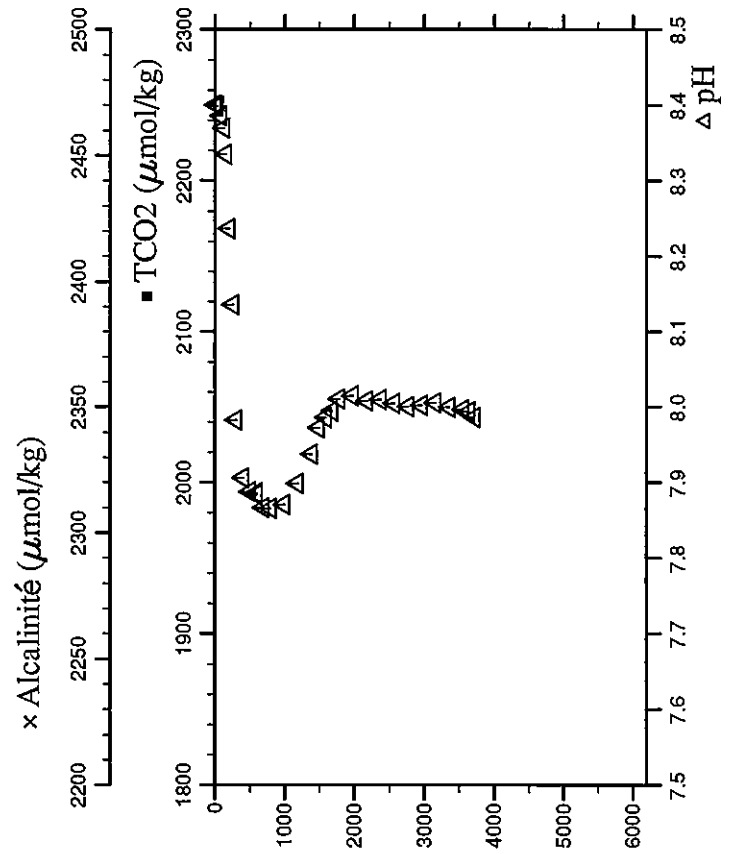
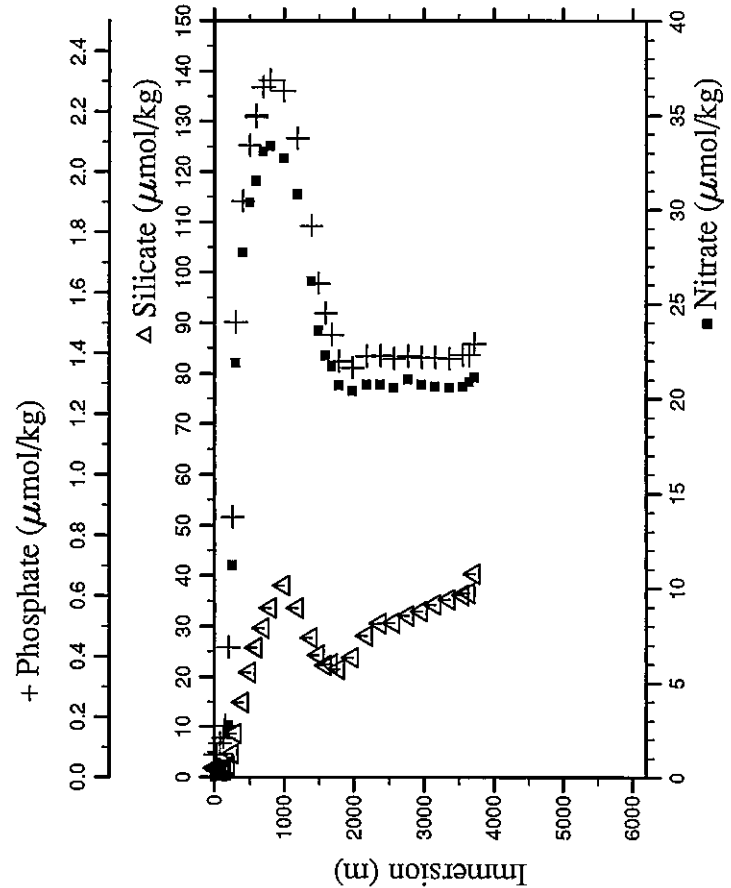
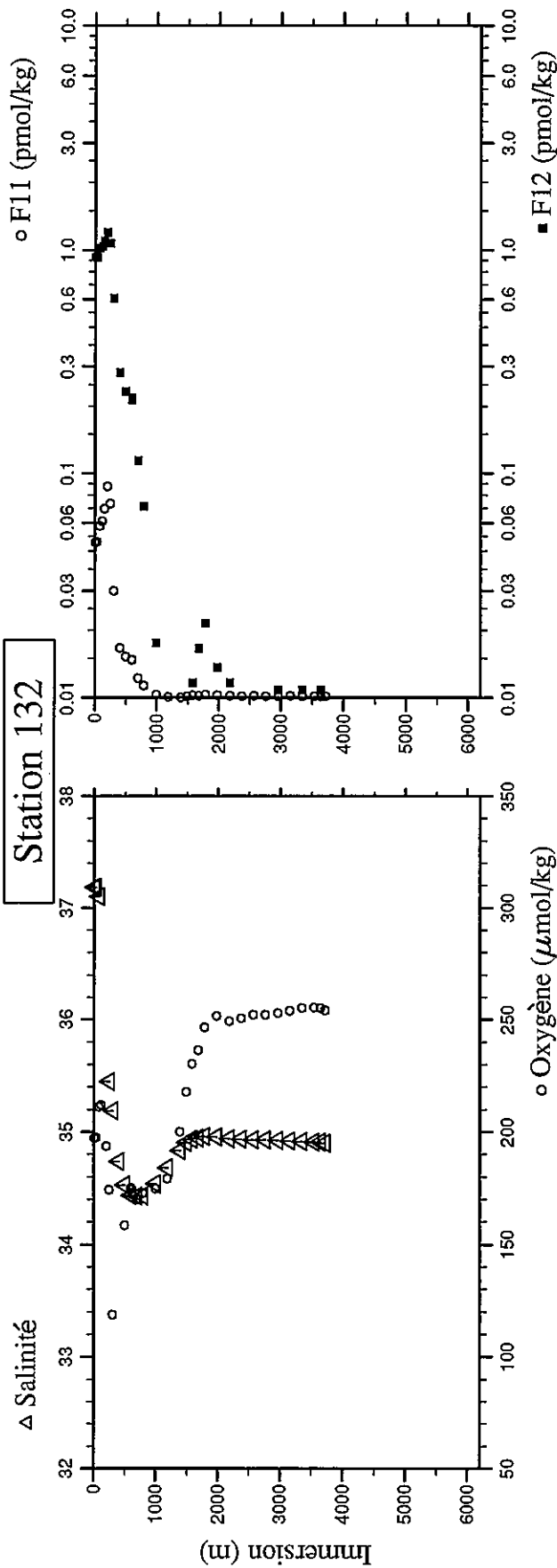
Station 131



Station : 132 Campagne : CITHER 2  
 Date : 20-02-94 Heure : 23 h 17 mn  
 Position : S 13 18.09 W 34 0.62  
 Dernier niveau à : 3775  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.5	4.5	28.216	23.9868	37.185	197.1	0.04	0.074	1.8	1.6185	0.9323			8.401
31.8	31.6	28.194	24.1056	37.183	197.4	0.04	0.074	1.4	1.6204	0.9274			8.399
81.1	80.6	26.358	24.8492	37.104	211.2	0.04	0.113	1.4	1.7895	1.0134			8.386
121.4	120.7	25.208	25.5182	37.268	212.0	0.04	0.131	1.5	1.8346	1.0396			8.370
152.3	151.4	23.535	25.9150	36.981	248.8	r	0.170	1.5	1.9668	1.0994			8.335
201.5	200.2	18.866	26.7778	36.100	193.6	r	0.431	2.3	2.1958	1.1949			8.237
252.5	250.9	14.757	27.4816	35.451	174.4	11.21	0.861	4.6	2.0162	1.0684			8.136
302.9	300.9	12.390	28.0068	35.190	118.6	21.89	1.503	8.7	1.1104	0.6052			7.983
401.3	398.6	8.652	28.7877	34.740	133.7	27.72	1.904	14.9	0.5159	0.2826			7.907
500.5	497.0	6.493	29.4072	34.530	158.6	30.38	2.087	20.9	0.4290	0.2328			7.888
601.3	597.0	5.240	29.9642	34.440	175.2	31.50	2.187	25.8	0.4014	0.2132			7.886
601.6	597.3	5.238	29.9628	34.436	174.6	31.52	2.181	25.7	0.3941	0.2181			7.884
700.0	694.8	4.724	30.4782	34.432	169.9	33.10	2.280	29.7	0.2053	0.1135			7.867
800.3	794.1	4.272	30.9949	34.433	172.8	33.37	2.303	33.6	0.1257	0.0714			7.866
1000.5	992.3	3.827	32.0446	34.537	174.9	32.71	2.268	38.0	0.0320	0.0176			7.871
1197.9	1187.6	3.949	33.0432	34.683	179.2	30.81	2.112	33.6	0.0072	0.0020			7.899
1400.1	1387.4	3.929	34.0706	34.832	200.0	26.21	1.820	27.8	0.0026	0.0049			7.938
1500.4	1486.4	3.937	34.5769	34.905	217.7	23.58	1.630	24.3	0.0143	0.0068			7.973
1599.3	1584.0	3.828	35.0629	34.938	230.3	22.26	1.533	22.3	0.0246	0.0117			7.986
1700.0	1683.3	3.676	35.5431	34.946	236.3	21.68	1.461	22.5	0.0176	0.0166			7.995
1800.1	1782.0	3.549	36.0230	34.962	246.4	20.71	1.374	21.5	0.0344	0.0215			8.011
2000.2	1979.2	3.235	36.9599	34.957	251.7	20.40	1.352	23.8	0.0254	0.0137			8.015
2200.2	2176.1	2.995	37.8749	34.942	249.4	20.76	1.391	28.1	0.0208	0.0117			8.008
2400.1	2372.7	2.797	38.7877	34.937	250.5	20.76	1.392	30.5	0.0115	0.0068			8.010
2599.1	2568.2	2.711	39.6806	34.932	252.1	20.57	1.383	30.7	0.0187	0.0098			8.005
2799.3	2764.7	2.606	40.5762	34.929	252.0	21.03	1.390	32.1	0.0129	0.0078			8.001
2998.1	2959.7	2.520	41.4603	34.924	252.9	20.73	1.387	33.0	0.0141	0.0108			8.002
3198.6	3156.2	2.427	42.3495	34.922	253.8	20.65	1.386	34.2	0.0172	0.0068			8.006
3398.7	3352.1	2.323	43.2348	34.914	255.1	20.58	1.383	35.2	0.0140	0.0108			8.000
3598.9	3548.0	2.268	44.1087	34.912	255.5	20.66	1.394	36.1	0.0167	0.0088			7.996
3698.5	3645.3	2.241	44.5427	34.910	255.2	20.89	1.394	36.5	0.0153	0.0108			7.994
3775.1	3720.2	2.111	44.8866	34.900	254.1	21.13	1.430	40.3	0.0153	0.0068			7.986

# Station 132

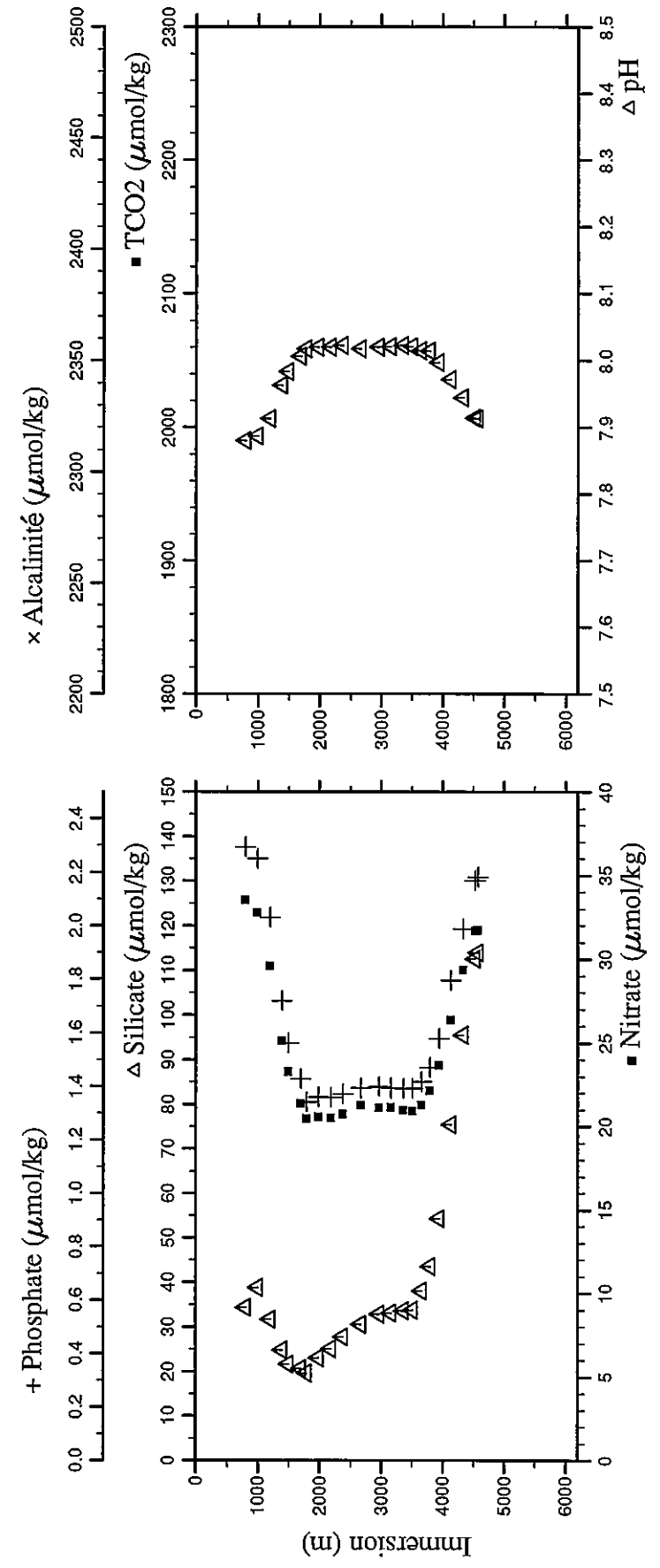
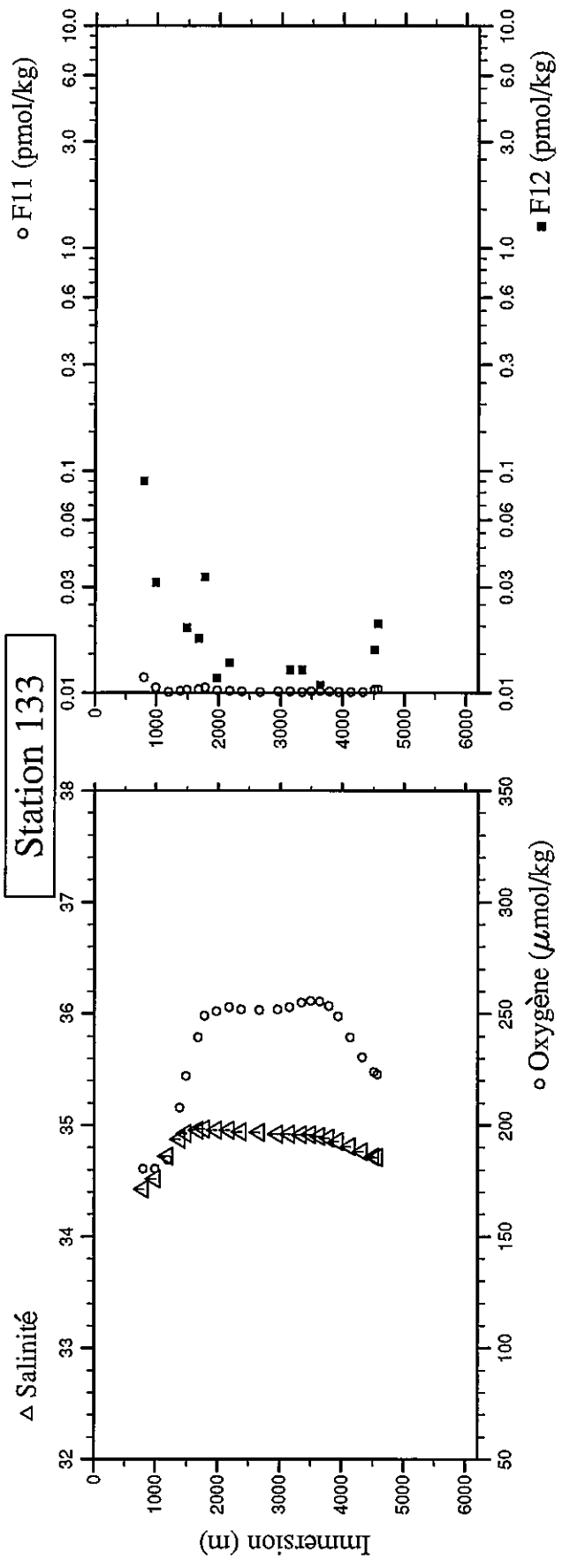




Station : 133 Campagne : CIPHER 2  
 Date : 21-02-94 Heure : 4 h 57 mn  
 Position : S 13 19.19 W 33 31.34  
 Dernier niveau à : 4651  
 Nb prélèvements : 22

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
801.8	795.6	4.070	31.0155	34.427	180.4	33.54	2.293	34.4	0.1631	0.0900			7.880
998.6	990.5	3.690	32.0346	34.521	180.4	32.79	2.251	38.8	0.0536	0.0313			7.887
1201.2	1190.8	3.943	33.0829	34.720	184.6	29.60	2.031	31.7	0.0065	0.0068			7.913
1401.7	1388.9	4.027	34.0932	34.873	207.8	25.12	1.720	24.8	0.0194	0.0098			7.963
1501.0	1487.0	3.989	34.5872	34.925	222.2	23.30	1.563	21.7	0.0311	0.0196			7.984
1703.4	1686.7	3.695	35.5617	34.954	239.4	21.39	1.429	20.7	0.0354	0.0176			8.007
1801.0	1782.9	3.544	36.0371	34.968	249.0	20.46	1.342	19.6	0.0548	0.0332			8.018
2000.0	1979.0	3.236	36.9601	34.956	251.1	20.58	1.361	23.0	0.0250	0.0117			8.020
2200.5	2176.4	3.046	37.8784	34.954	252.8	20.50	1.359	25.1	0.0189	0.0137			8.020
2399.8	2372.4	2.869	38.7832	34.942	251.9	20.74	1.372	27.8	0.0167	0.0078			8.023
2700.2	2667.5	2.685	40.1327	34.934	251.6	21.29	1.395	30.6	0.0100	0.0059			8.018
2998.5	2960.1	2.527	41.4624	34.923	251.9	21.13	1.399	32.8	0.0117	0.0088			8.020
3200.7	3158.3	2.435	42.3594	34.920	253.0	21.16	1.395	33.1	0.0150	0.0127			8.021
3399.4	3352.8	2.361	43.2334	34.916	254.8	20.98	1.392	33.6	0.0105	0.0127			8.023
3549.2	3499.4	2.265	43.8957	34.917	255.6	20.90	1.393	33.7	0.0145	0.0088			8.021
3700.0	3646.8	2.116	44.5663	34.900	255.5	21.30	1.419	38.1	0.0183	0.0108			8.015
3850.0	3793.3	1.969	45.2288	34.884	253.4	22.13	1.471	43.5	0.0112	0.0088			8.014
3999.0	3938.8	1.707	45.8967	34.857	248.8	23.65	1.579	54.3	0.0101	0.0098			7.997
4199.6	4134.5	1.263	46.8035	34.810	239.4	26.37	1.795	75.4	0.0051	0.0039			7.972
4398.6	4328.5	0.798	47.7062	34.762	230.6	29.37	1.988	95.5	0.0074	0.0039			7.945
4598.6	4523.3	0.363	48.6076	34.716	224.0	31.68	2.168	112.5	0.0342	0.0156			7.914
4649.3	4572.6	0.314	48.8288	34.713	222.8	31.73	2.180	113.9	0.0362	0.0205			7.913

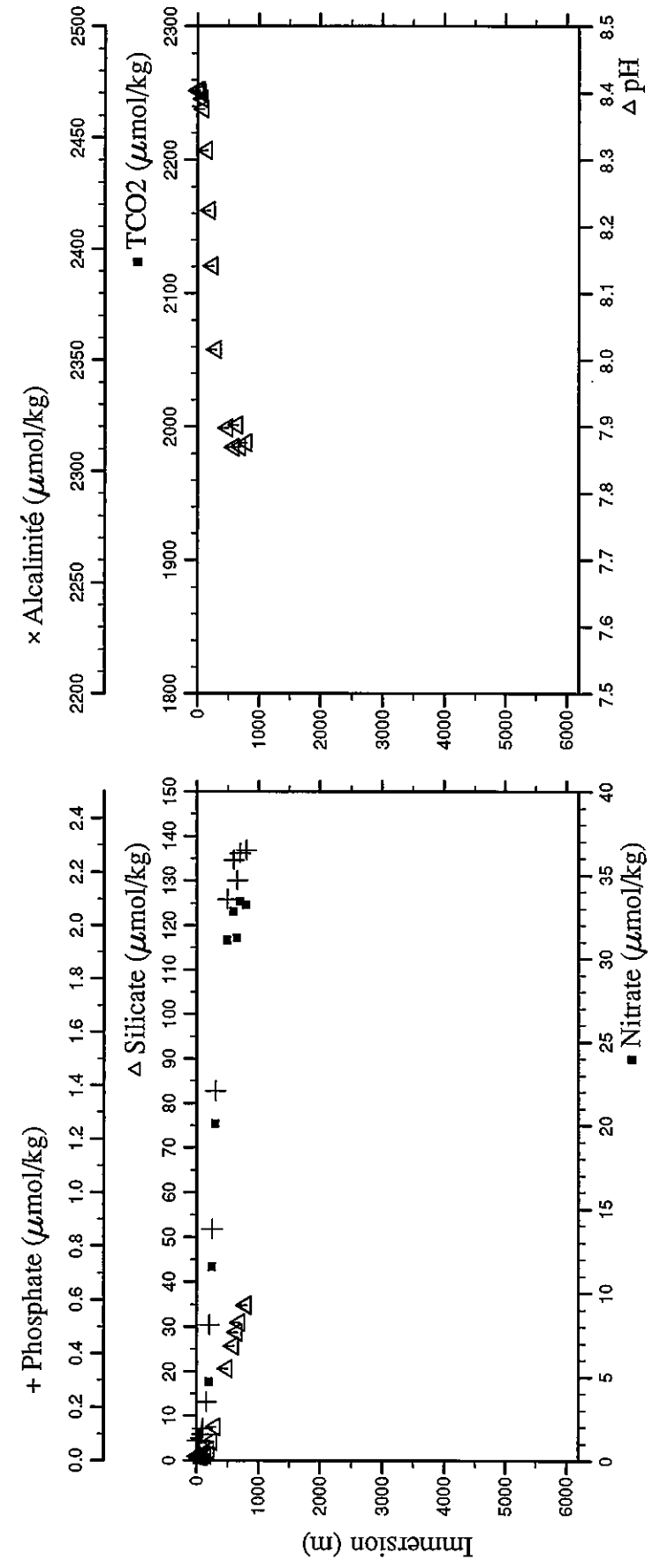
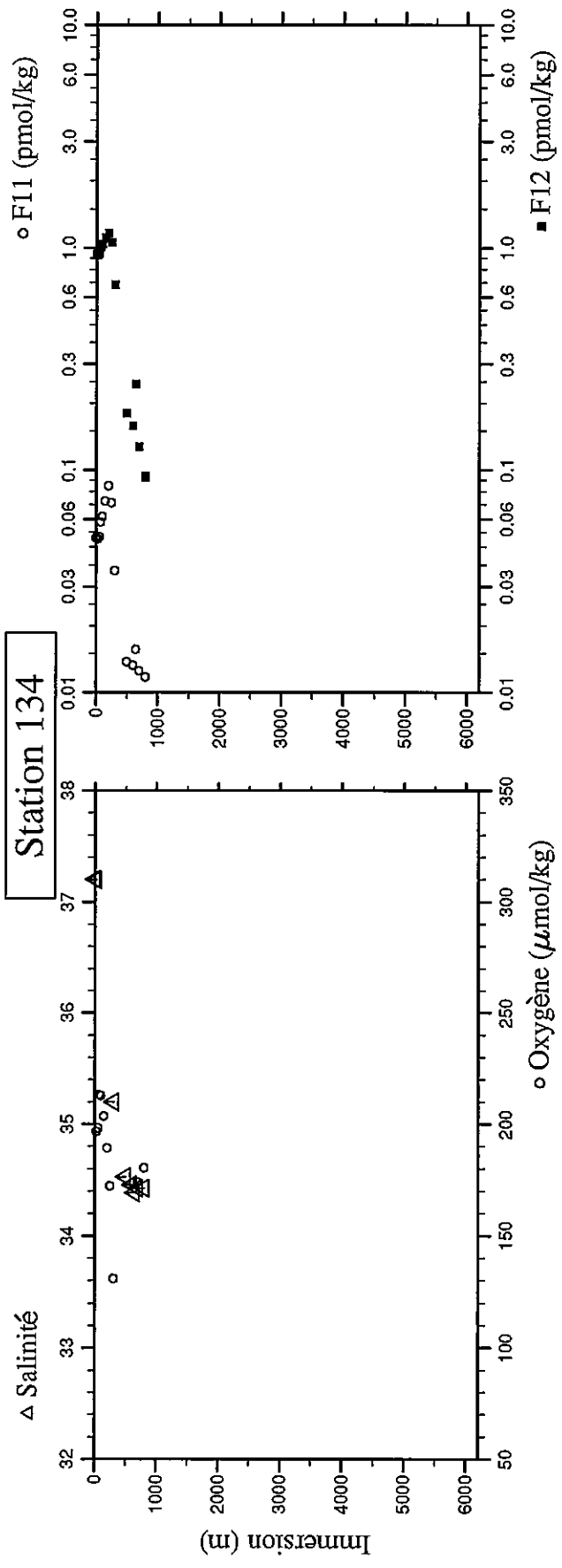
# Station 133



Station : 134 Campagne : CIPHER 2  
 Date : 21-02-94 Heure : 10 h 24 mn  
 Position : S 13 19.08 W 33 31.34  
 Dernier niveau à : 809  
 Nb prélèvements : 16

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
0.8	0.8	28.200	23.9860	37.202	202.0	0.04	0.075	1.0	1.6188	0.9342			8.404
30.1	29.9	28.201	24.1080	37.200	196.8	0.04	0.075	1.0	1.6109	0.9264			8.404
49.7	49.4	28.189	24.1952	37.204	198.1	0.04	0.075	0.9	1.6313	0.9430			8.401
75.6	75.1	26.548	24.8428	37.220	213.3	0.04	0.099	0.9	1.7868	1.0084			8.391
100.8	100.2	25.405	25.3219	37.265	212.8	0.04	0.120	1.0	1.8479	1.0416			8.376
150.6	149.7	23.040	25.9966	36.759	203.6	0.16	0.219	1.2	2.0078	1.1073			8.314
200.2	198.9	17.867	26.9031	35.919	189.2	4.72	0.507	2.3	2.1675	1.1598			8.224
249.6	248.0	14.909	27.4519	35.458	172.3	11.57	0.863	4.2	1.9875	1.0615			8.141
301.0	299.0	12.650	27.9505	35.199	130.9	20.11	1.381	7.6	1.2795	0.6804			8.016
499.9	496.4	6.401	29.4123	34.531	156.6	31.11	2.099	20.7	0.3218	0.1800			7.898
601.4	597.1	5.308	29.9655	34.459	161.8	32.86	2.245	25.7	0.2882	0.1575			7.869
650.3	645.5	4.532	30.2337	34.388	193.1	31.24	2.168	28.8	0.4502	0.2436			7.902
701.7	696.5	4.519	30.5020	34.425	174.0	33.42	2.269	30.9	0.2300	0.1272			7.870
802.6	796.4	4.067	31.0207	34.425	180.5	33.23	2.281	34.7	0.1620	0.0939			7.876
802.8	796.6	4.067	31.0216	34.425	180.5	33.22	2.281	34.9	0.1632	0.0920			7.876

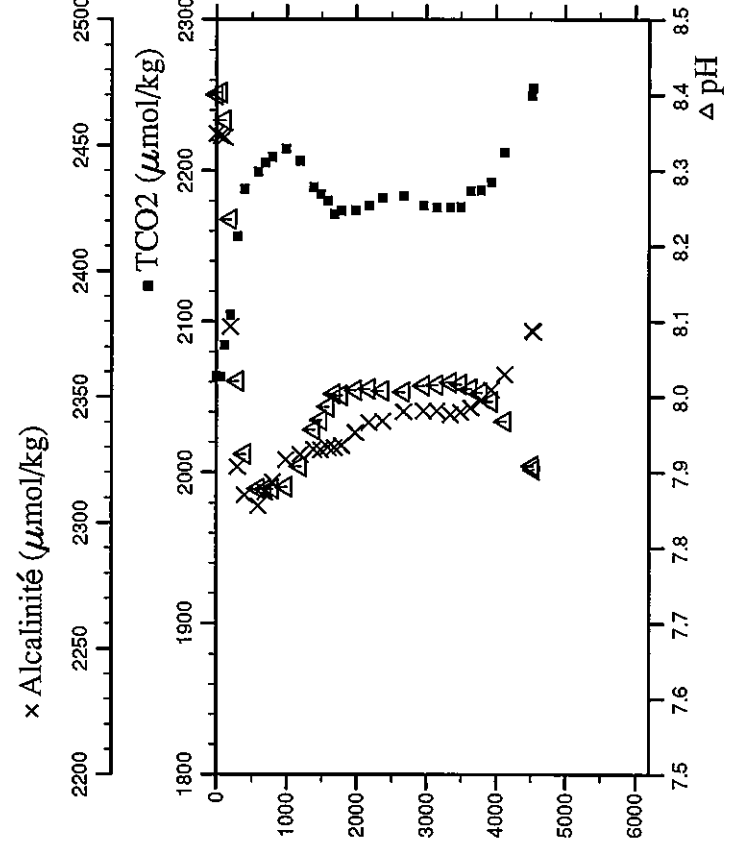
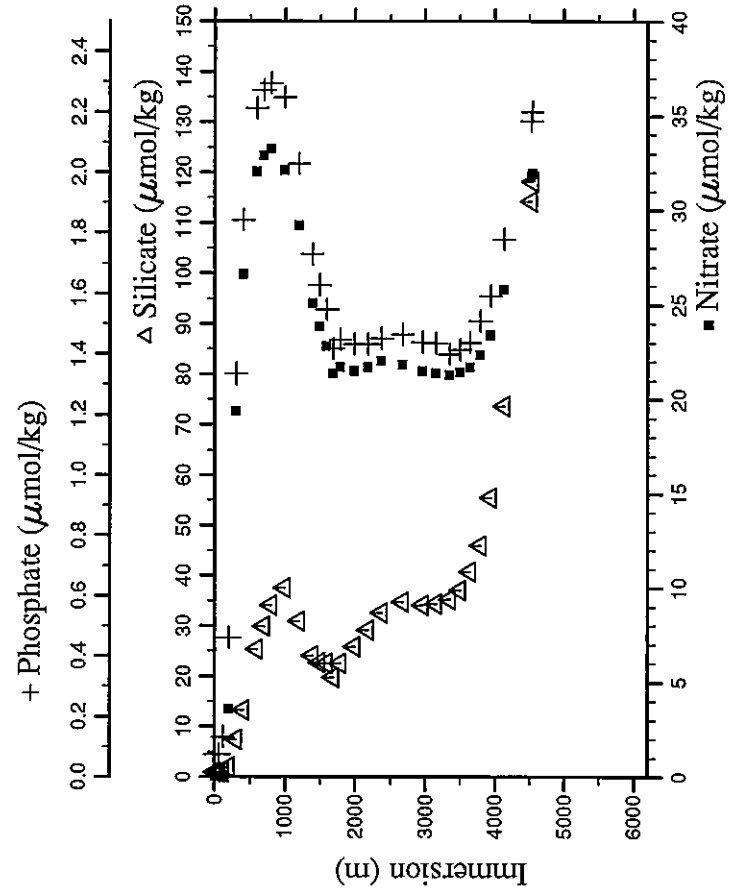
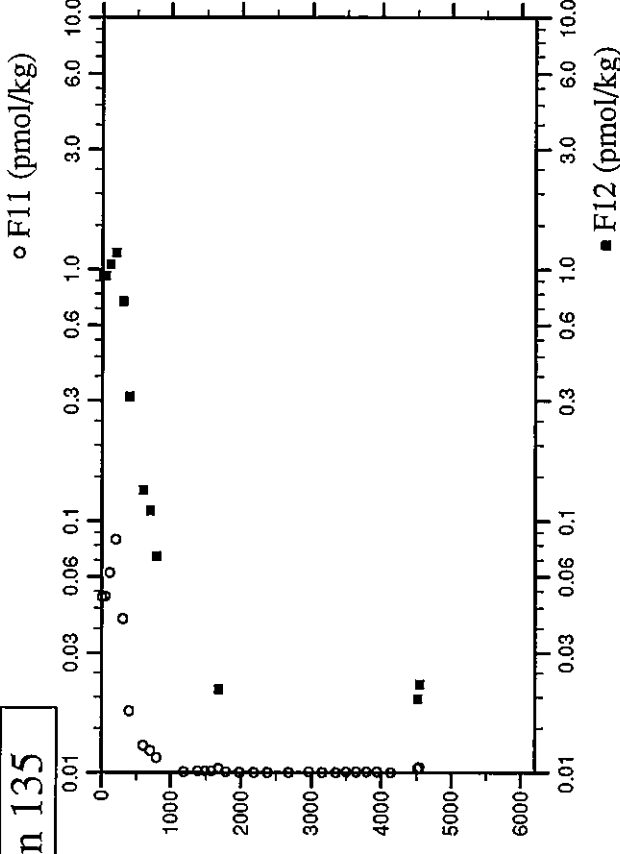
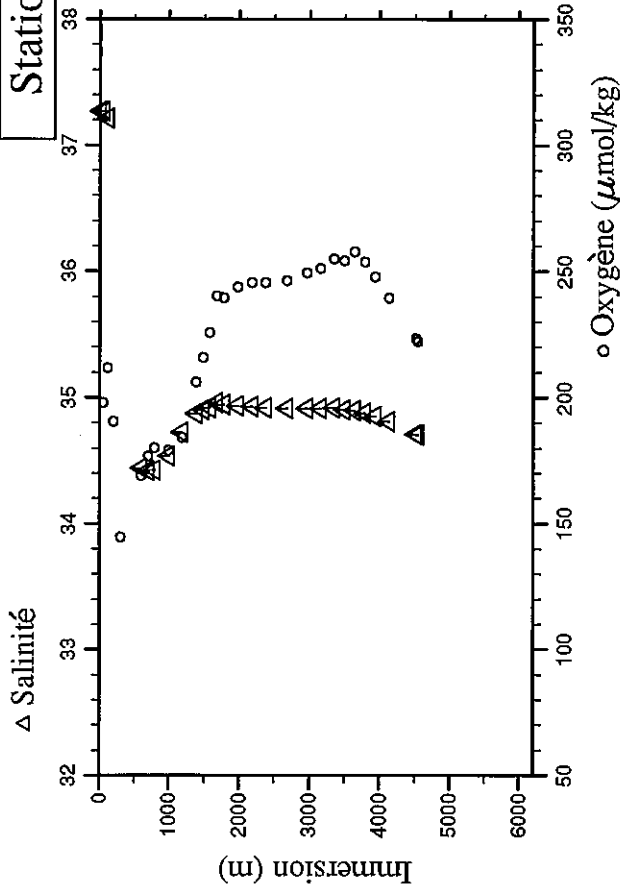
Station 134



Station : 135 Campagne : CITHER 2  
 Date : 21-02-94 Heure : 14 h 35 mn  
 Position : S 13 20.60 W 33 1.95  
 Dernier niveau à : 4624  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
3.3	3.3	28.172	24.0609	37.270	198.4	r 0.04	0.075	1.0	1.6252	0.9381	2063.54	2454.6	8.401
55.6	55.3	28.167	24.2814	37.270	198.0	0.04	0.075	0.9	1.6325	0.9391	2063.28	2453.6	8.403
118.8	118.1	24.960	25.5337	37.215	211.8	0.04	0.132	1.0	1.8517	1.0445	2084.50	2453.1	8.367
199.2	198.0	18.499	26.8166	36.041	r 190.6	3.60	0.460	2.0	2.1625	1.1617	2104.31	2378.0	8.235
302.0	300.0	12.349	27.9657	35.125	r 144.5	19.38	1.336	7.4	1.4267	0.7460	2156.41	2322.2	8.021
400.1	397.4	9.220	28.7339	34.795	r 130.6	r 26.62	1.841	13.3	0.5718	0.3120	2187.86	2311.0	7.924
600.1	595.8	5.178	29.9715	34.443	169.0	32.03	2.212	25.3	0.1321	0.1321	2199.25	2306.7	7.879
700.9	695.7	4.515	30.4969	34.421	176.9	32.89	2.272	29.9	0.2045	0.1096	2205.28	2312.1	7.878
800.7	794.5	4.052	31.0196	34.428	180.1	33.24	2.296	34.1	0.1362	0.0724	2209.04	2316.0	7.879
1000.1	991.9	3.720	32.0562	34.537	179.2	32.10	2.249	37.5			2214.38	2324.9	7.881
1200.5	1190.1	3.947	33.0863	34.726	184.2	29.19	2.028	31.0	0.0063	0.0000	2206.45	2327.1	7.908
1400.6	1387.8	4.061	34.0881	34.873	206.0	25.09	1.729	24.1	0.0163	0.0078	2189.09	2329.0	7.957
1499.8	1485.8	3.966	34.5741	34.904	215.8	23.86	1.627	22.7	0.0137	0.0068	2184.53	2328.8	7.969
1601.0	1585.7	3.760	35.0702	34.923	225.7	22.82	1.548	22.5	0.0109	0.0078	2180.14	2329.9	7.987
1700.4	1683.7	3.749	35.5478	34.960	240.2	21.36	1.419	19.7	0.0373	0.0215	2171.31	2329.9	8.004
1799.5	1781.4	3.496	36.0165	34.944	239.3	21.68	1.447	22.5	0.0082	0.0049	2173.58	2330.7	8.002
2001.1	1980.1	3.176	36.9597	34.937	243.7	21.48	1.432	25.9	0.0021	0.0039	2173.94	2335.6	8.002
2200.4	2176.3	2.939	37.8772	34.929	245.5	21.68	1.433	29.1	0.0029	0.0049	2176.76	2339.7	8.011
2400.0	2372.6	2.744	38.7859	34.919	245.4	22.04	1.452	32.6	0.0000	0.0010	2181.77	2340.2	8.008
2708.6	2675.7	2.579	40.1740	34.914	246.3	21.84	1.465	34.8	0.0033	0.0059	2183.10	2344.1	8.007
2998.6	2960.2	2.472	41.4668	34.916	249.2	21.49	1.439	34.1	0.0064	0.0049	2176.79	2344.4	8.015
3199.2	3156.8	2.396	42.3547	34.915	251.0	21.38	1.436	34.4	0.0045	0.0039	2175.74	2344.3	8.016
3397.4	3350.8	2.319	43.2298	34.919	254.8	21.30	1.400	35.2	0.0030	0.0049	2175.40	2342.9	8.019
3547.9	3498.1	2.226	43.8920	34.906	254.1	21.41	1.413	37.0	0.0079	0.0020	2175.98	2343.8	8.017
3698.8	3645.6	2.099	44.5625	34.898	257.8	21.70	1.438	40.7	0.0084	0.0068	2186.46	2345.7	8.011
3847.8	3791.2	1.937	45.2222	34.882	253.7	22.33	1.509	45.9	0.0053	0.0068	2186.83	2348.6	8.006
3999.1	3938.9	1.702	45.8984	34.857	247.8	23.39	1.593	55.5	0.0060	0.0039	2192.59	2352.8	7.994
4196.0	4131.0	1.280	46.7873	34.812	239.5	25.80	1.778	73.7	0.0037	0.0010	2211.84	2358.9	7.968
4598.8	4523.4	0.316	48.6154	34.711	223.1	31.73	2.170				2249.76		7.908
4599.0	4523.6	0.321	48.6159	34.713	223.5	31.78	2.170	114.2	0.0395	0.0196	2254.54	2376.3	7.909
4622.4	4546.4	0.240	48.7223	34.706	222.2	31.94	2.200	118.2	0.0494	0.0225	2254.54	2375.9	7.904

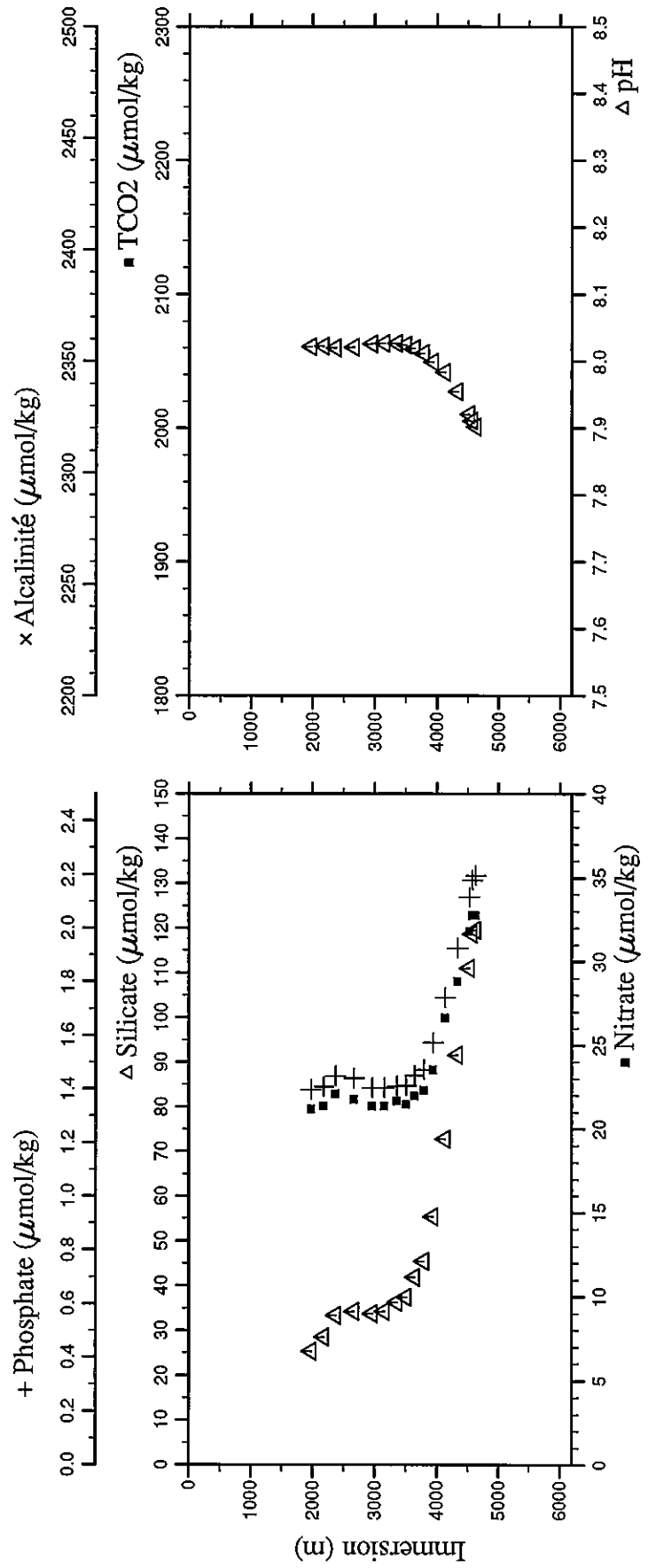
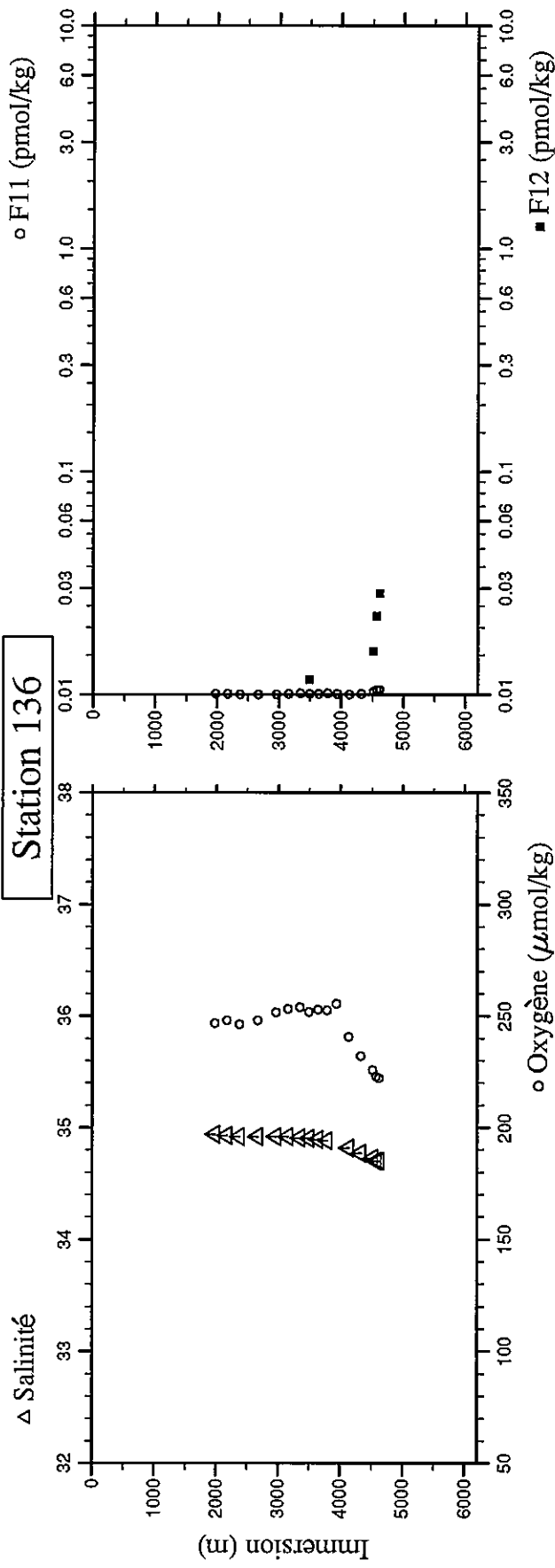
Station 135



Station : 136 Campagne : CITHER 2  
 Date : 21-02-94 Heure : 20 h 47 mn  
 Position : S 13 21.58 W 32 32.95  
 Dernier niveau à : 4705  
 Nb prélèvements : 16

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
1999.9	1978.9	3.189	36.9542	34.939	246.9	21.18	1.397	25.3	0.0097	0.0068			8.022
2197.3	2173.2	2.953	37.8639	34.932	248.1	21.34	1.407	28.5	0.0100	0.0059			8.023
2401.0	2373.6	2.733	38.7914	34.920	246.3	22.09	1.448	33.4	0.0001	0.0010			8.020
2699.0	2666.3	2.599	40.1294	34.919	248.1	21.77	1.439	34.2	0.0010	0.0000			8.021
2999.8	2961.4	2.491	41.4688	34.923	251.6	21.34	1.403	33.7	0.0049	0.0098			8.026
3198.2	3155.8	2.412	42.3479	34.919	253.1	21.34	1.403	34.3	0.0064	0.0078			8.027
3401.0	3354.4	2.298	43.2455	34.912	253.9	21.66	1.410	36.3	0.0112	0.0059			8.027
3550.3	3500.4	2.197	43.9053	34.904	251.9	21.46	1.412	37.4	0.0092	0.0117			8.024
3698.6	3645.4	2.055	44.5627	34.896	252.9	21.97	1.451	41.9	0.0085	0.0049			8.019
3848.6	3792.0	1.933	45.2247	34.884	252.6	22.29	1.472	45.4	0.0109	0.0078			8.012
3999.6	3939.4	1.708	45.8972		255.3	23.52	1.573	55.4	0.0053	0.0049			7.999
4196.8	4131.8	1.338	46.7833	34.820	240.6	26.64	1.741	72.7	0.0040	0.0010			7.984
4399.0	4328.9	0.921	47.6927	34.775	232.1	28.81	1.924	91.6	0.0095	0.0039			7.955
4598.1	4522.8	0.413	48.5975	34.727	225.7	31.79	2.115	111.0	0.0325	0.0156			7.921
4649.4	4572.7	0.226	48.8390	34.704	222.9	32.75	2.179	118.6	0.0479	0.0225			7.911
4702.8	4624.7	0.189	49.0702	34.700	222.2	32.75	2.196	119.6	0.0482	0.0284			7.902

# Station 136

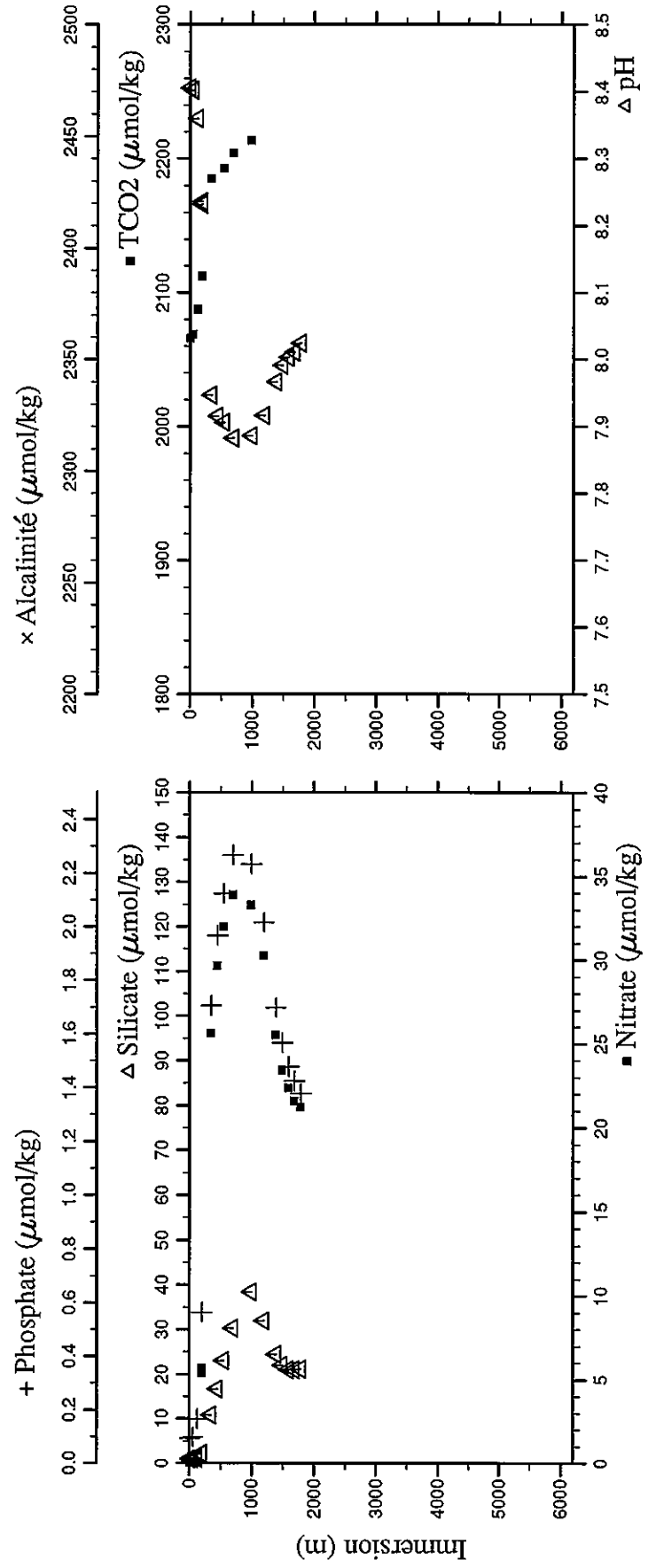
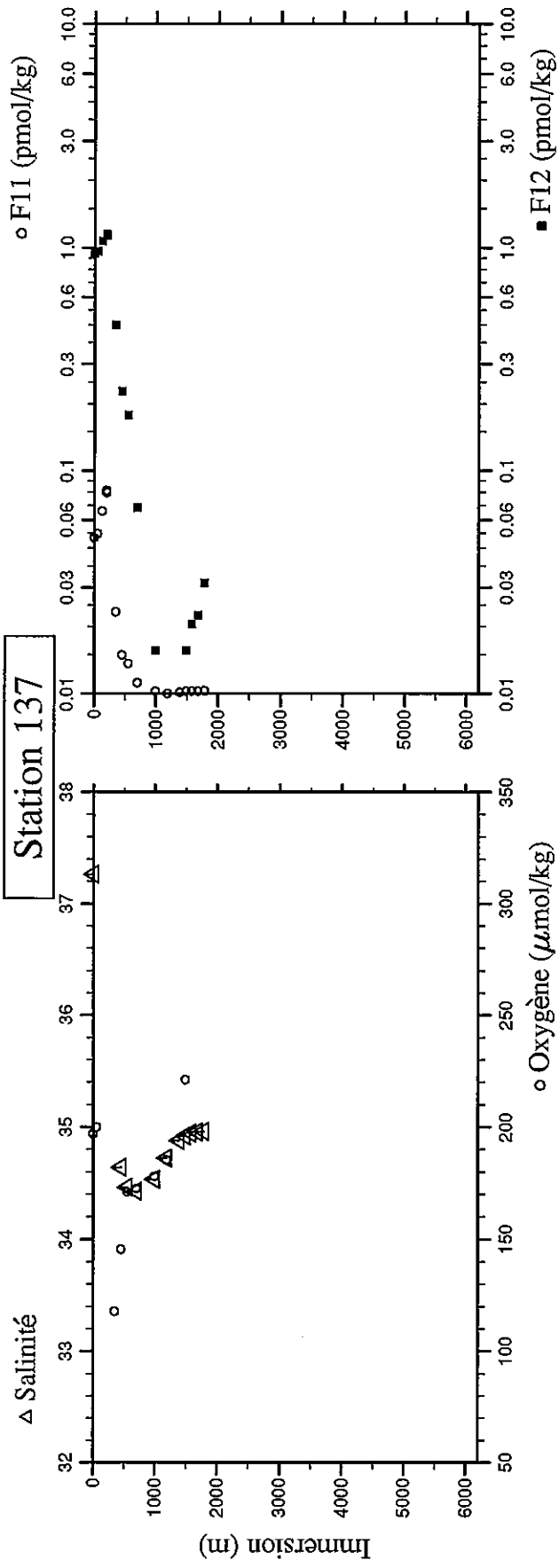




Station : 137 Campagne : CITHER 2  
 Date : 22-02-94 Heure : 1 h 8 mn  
 Position : S 13 21.66 W 32 32.83  
 Dernier niveau à : 1800  
 Nb prélèvements : 16

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
2.3	2.3	27.999	24.1102	37.265	197.0	0.04	0.093	0.9	1.6359	0.9420	2065.88		8.406
50.8	50.5	27.895	24.3564	37.259	200.1	0.04	0.099	0.9	1.6752	0.9654	2068.61		8.402
125.6	124.8	24.145	25.7070	37.074	222.8	0.04	0.167	1.1	1.9126	1.0720	2087.43		8.360
199.2	198.0	18.617	26.8433	36.102	238.0	5.68	0.565	2.2	2.1006	1.1372	2112.96		8.232
199.2	198.0	18.617	26.8433	36.112	181.8	5.40	0.565	2.1	2.1278	1.1499	2112.38		8.236
351.2	348.9	10.430	28.3991	34.949	117.8	25.63	1.707	10.9	0.8549	0.4508	2185.14		7.947
449.8	446.7	7.658	29.0879	34.641	145.7	29.67	1.966	16.7	0.4077	0.2269	2198.90	d	7.916
555.8	551.8	5.588	29.7265	34.462	171.0	31.99	2.123	23.1	0.3191	0.1770	2192.90		7.907
701.6	696.4	4.552	30.4979	34.426	172.5	33.91	2.267	30.3	0.1168	0.0685	2204.28		7.883
999.0	990.8	3.720	32.0470	34.533	177.9	33.30	2.234	38.4	0.0255	0.0156	2213.52		7.886
1199.4	1189.0	3.910	33.0784	34.720	185.3	30.28	2.015	32.0	0.0034	0.0000			7.917
1399.8	1387.1	4.020	34.0931	34.878	220.2	25.53	1.697	24.5	0.0120	0.0059			7.967
1499.5	1485.5	3.965	34.5848	34.923	221.1	23.42	1.567	22.1	0.0243	0.0156			7.991
1601.3	1586.0	3.860	35.0733	34.945	291.0	22.37	1.478	21.0	0.0275	0.0205			8.003
1700.0	1683.3	3.690	35.5480	34.954	277.5	21.58	1.425	21.0	0.0283	0.0225			8.011
1800.4	1782.3	3.547	36.0234	34.961	271.9	21.22	1.377	21.1	0.0323	0.0313			8.024

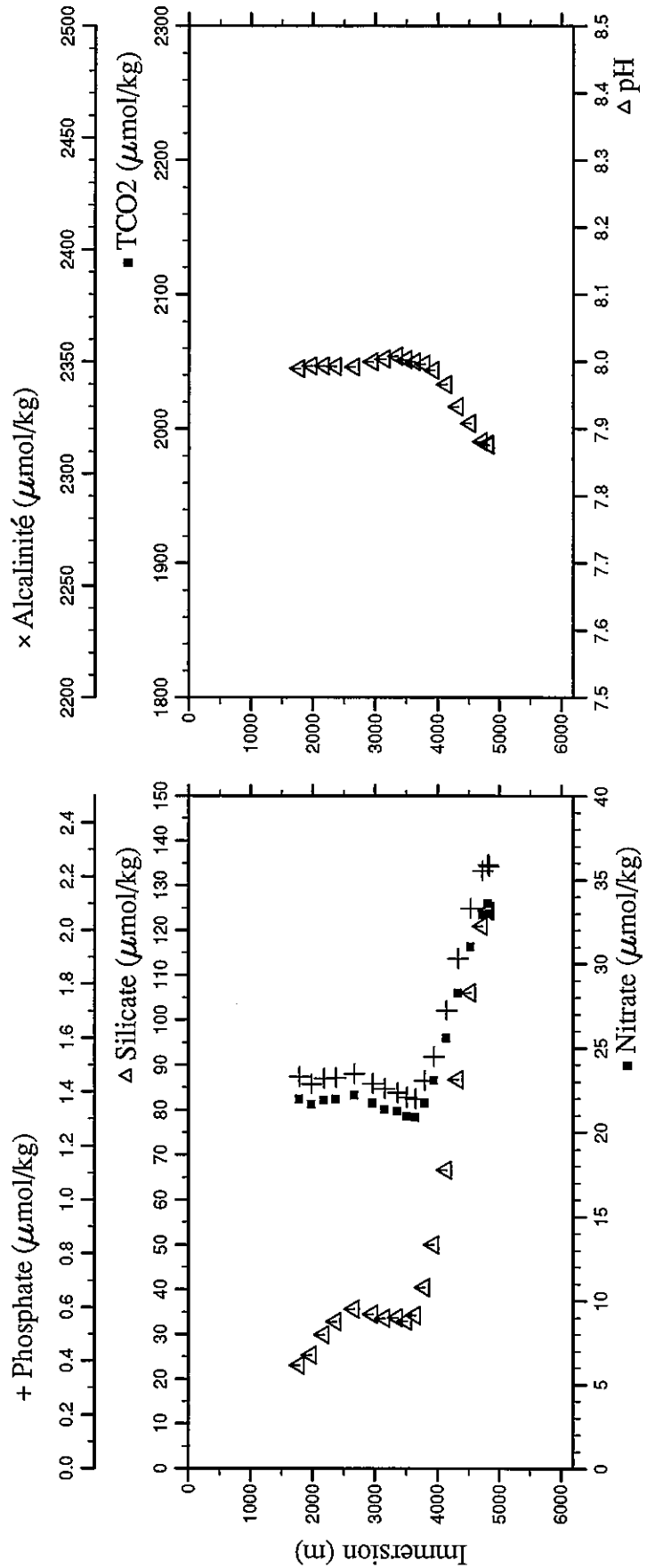
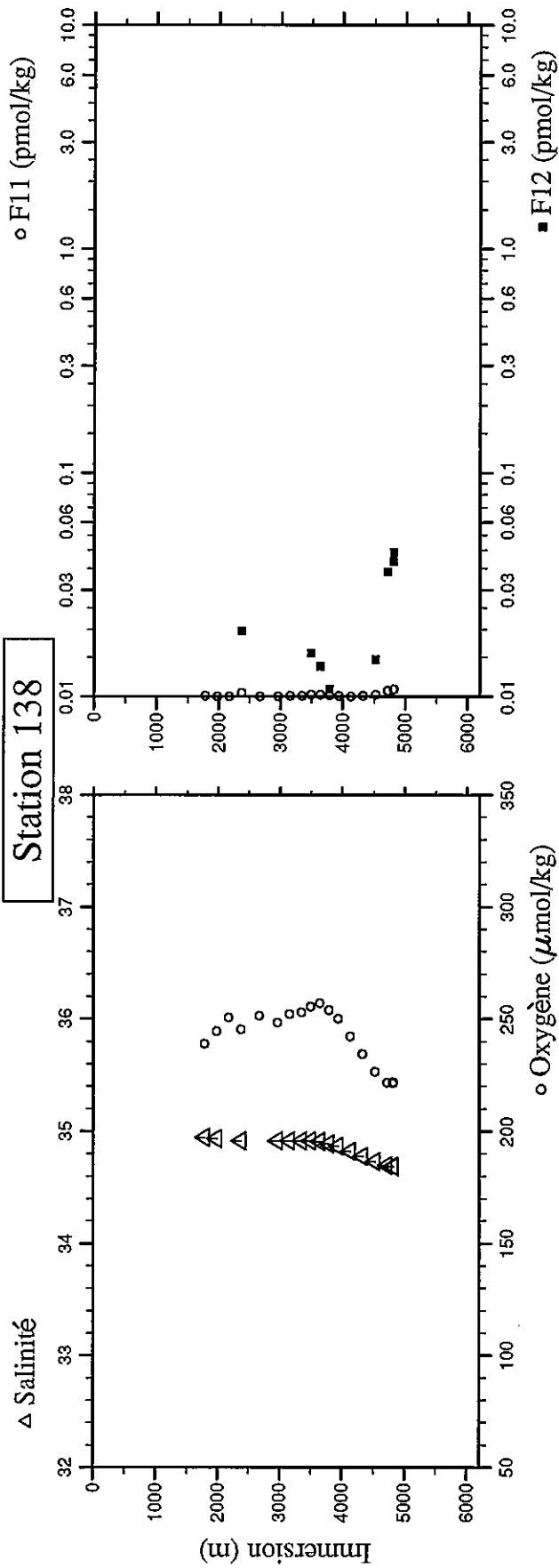
# Station 137



Station : 138 Campagne : CIPHER 2  
 Date : 22-02-94 Heure : 5 h 40 mn  
 Position : S 13 22.79 W 32 3.30  
 Dernier niveau à : 4914  
 Nb prélèvements : 18

PRESSON CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
1800.0	1781.9	3.494	36.0149	34.946	238.9	21.97	1.456	23.0	0.0083	0.0049			7.990
1999.3	1978.3	3.169	36.9508	34.938	244.6	21.66	1.429	25.4	0.0048	0.0010			7.994
2198.6	2174.5	2.911	37.8673		250.6	21.89	1.449	29.9	0.0037	0.0068			7.994
2399.5	2372.1	2.733	38.7834	34.914	245.3	21.97	1.453	32.9	0.0373	0.0196			7.993
2700.6	2667.9	2.567	40.1355		251.4	22.21	1.466	35.6	0.0010	0.0020			7.992
2997.5	2959.1	2.491	41.4557	34.914	248.2	21.73	1.431	34.5	0.0008	0.0039			8.000
3198.3	3155.9	2.418	42.3470	34.917	252.2	21.34	1.411	33.6	0.0075	0.0078			8.004
3399.8	3353.2	2.356	43.2325	34.915	252.9	21.26	1.396	33.7	0.0106	0.0078			8.008
3550.0	3500.1	2.288	43.8946	34.915	255.4	20.95	1.381	33.0	0.0175	0.0156			8.003
3699.4	3646.2	2.178	44.5552	34.909	256.9	20.87	1.374	34.2	0.0186	0.0137			8.000
3848.7	3792.0	2.018	45.2158	34.891	254.0	21.73	1.442	40.5	0.0161	0.0108			7.996
3998.9	3938.7	1.784	45.8877	34.868	250.0	23.08	1.530	50.0	0.0104	0.0078			7.987
4200.9	4135.8	1.416	46.7930	34.826	242.2	25.58	1.702	66.7	0.0032	0.0020			7.966
4397.5	4327.4	0.970	47.6811	34.780	234.3	28.26	1.895	86.8	0.0085	0.0059			7.933
4599.9	4524.5	0.513	48.5950	34.732	226.4	31.03	2.082	106.1	0.0221	0.0147			7.908
4799.9	4719.1	0.102	49.4963	34.696	221.7	32.90	2.222	120.9	0.0618	0.0362			7.881
4897.8	4814.3	0.044	49.9199	34.693	221.3	33.60	2.245	124.4	0.0721	0.0401			7.878
4910.8	4827.0	0.044	49.9753	34.686	221.9	33.00	2.239	124.4	0.0774	0.0440			7.876

Station 138

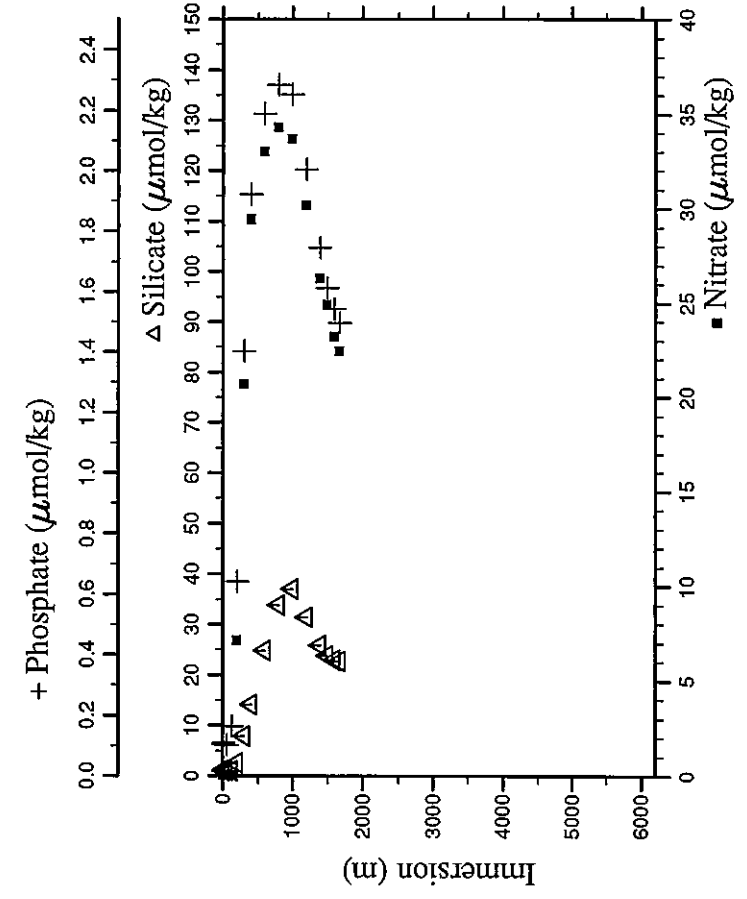
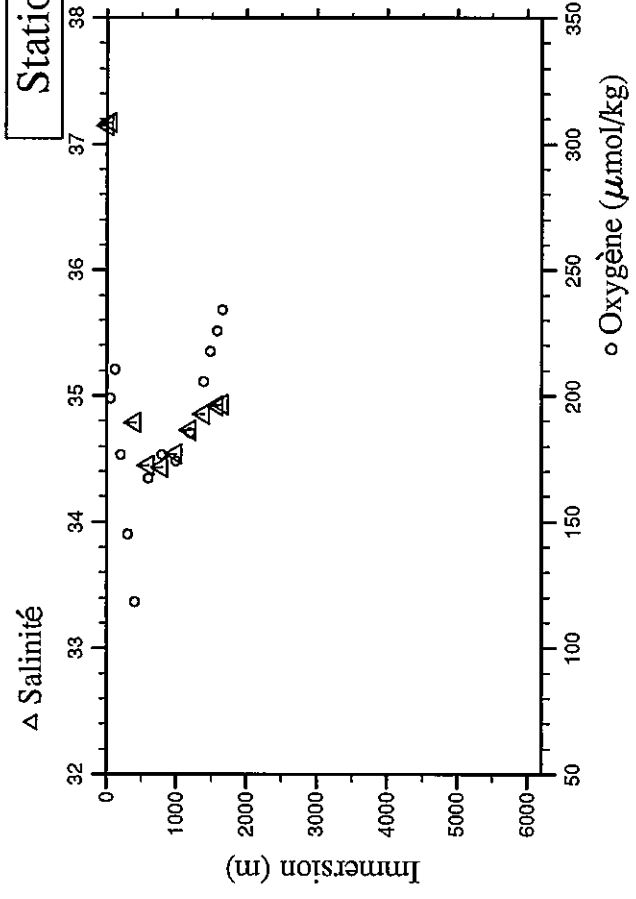
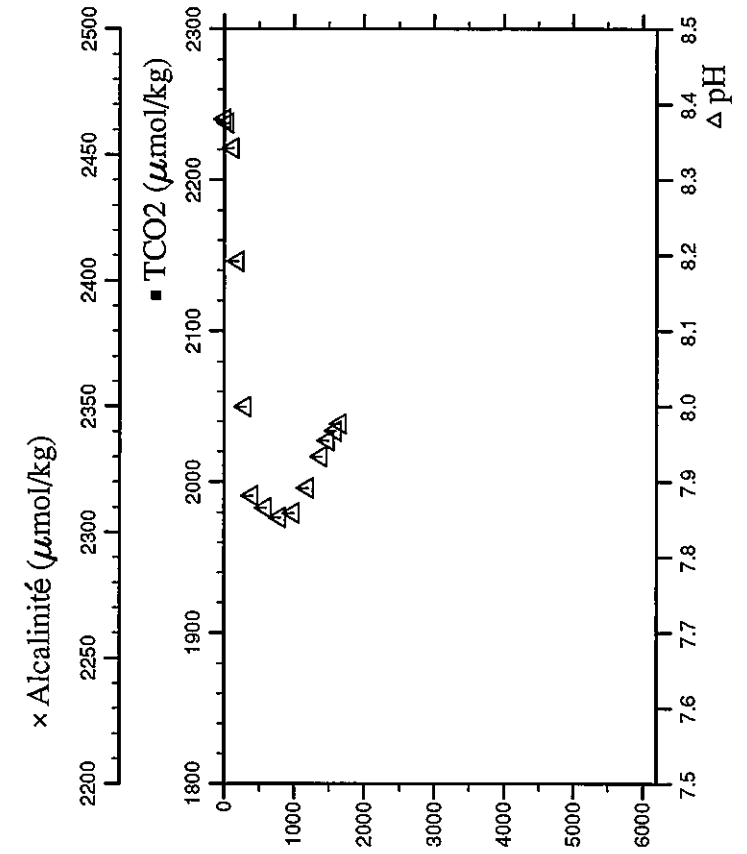
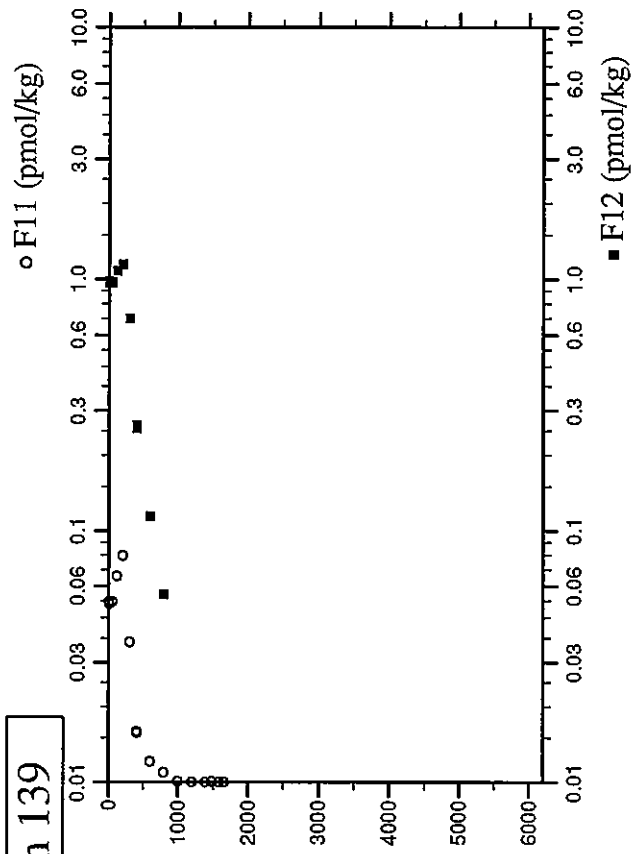


■ Nitrate ( $\mu\text{mol/kg}$ )

Station	: 139	Campagne	: CITHER 2
Date	: 22-02-94	Heure	: 10 h 30 mn
Position	: S 13 22.73	W	32 3.40
Dernier niveau à	: 1742		
Nb prélèvements	: 16		

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI-NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.3	4.3	27.742	24.1125			0.04	0.110	1.2	1.6740	0.9782			8.380
5.5	5.5	27.738	24.1199	37.148	198.2	0.04	0.105	1.1	1.6582	0.9655			8.380
50.8	50.5	27.718	24.3369	37.173	198.9	0.04	0.102	1.1	1.6732	0.9713			8.375
122.0	121.3	24.350	25.6484	37.092	210.4	0.04	0.164	1.1	1.9135	1.0778			8.342
199.0	197.8	18.336	26.8472	36.005	176.6	7.14	0.543	2.6	2.1003	1.1441			8.192
300.5	298.5	12.166	27.9849		145.1	20.71	1.403	7.9	1.3039	0.6991			8.000
401.7	399.0	9.085	28.7510	34.790	118.4	29.47	1.922	14.1	0.4590	0.2552			7.882
402.3	399.6	9.085	28.7543			29.42	1.922	14.1	0.4714	0.2631			7.882
600.8	596.5	5.298	29.9625	34.450	167.2	33.00	2.190	24.8	0.1901	0.1144			7.866
800.5	794.3	4.128	31.0099	34.435	176.6	34.31	2.285	33.8	0.0934	0.0558			7.853
1000.2	992.0	3.787	32.0479	34.540	174.1	33.71	2.253	37.0	0.0086	0.0098			7.859
1202.2	1191.8	3.894	33.0960	34.726	185.3	30.17	2.005	31.4	0.0003	0.0000			7.892
1400.2	1387.4	3.898	34.0915	34.854	205.6	26.29	1.746	25.8	0.0009	0.0010			7.934
1498.8	1484.8	3.845	34.5781	34.907	217.5	24.93	1.613	23.8	0.0054	0.0049			7.955
1600.9	1585.6	3.722	35.0705	34.922	225.6	23.23	1.544	22.9	0.0021	0.0029			7.968
1676.6	1660.2	3.624	35.4353	34.932	234.1	22.44	1.497	22.7	0.0022	0.0088			7.977

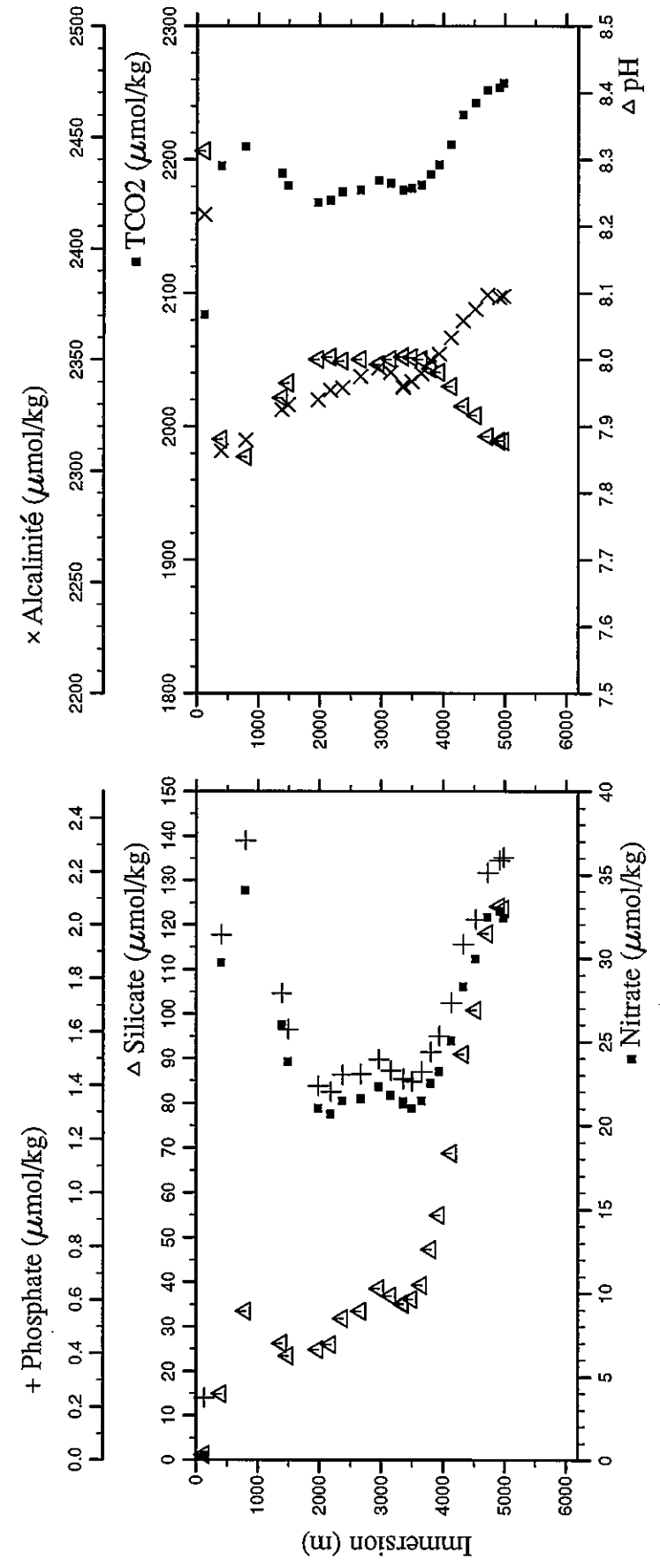
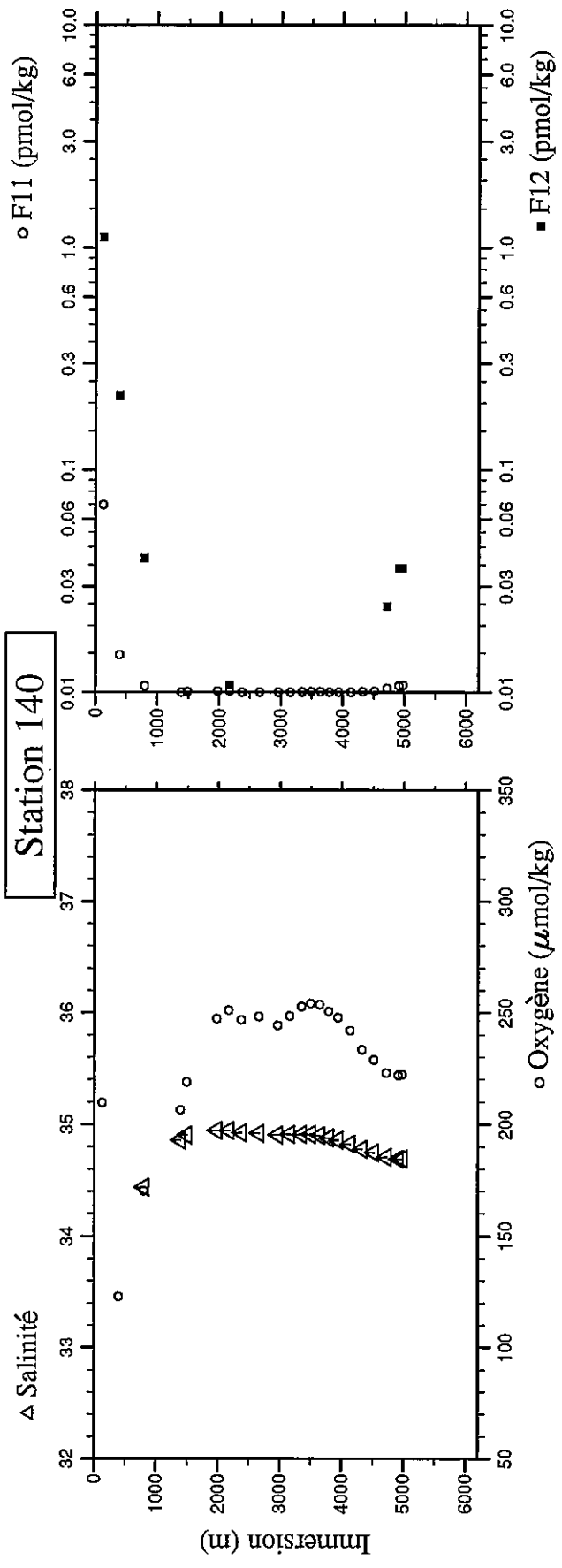
Station 139



Station : 140 Campagne : CITHER 2  
 Date : 22-02-94 Heure : 16 h 38 mn  
 Position : S 13 24.01 W 31 34.12  
 Dernier niveau à : 5070  
 Nb prélèvements : 23

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
126.5	125.7	22.683	25.8403	36.657	209.6	0.28	0.233	1.2	1.9675	1.1074	2084.18	2415.4	8.313
400.0	397.3	8.690	28.7751	34.758	122.9	29.73	1.962	14.9	0.3935	0.2171	2195.37	2309.0	7.881
802.5	796.3	4.214	31.0181	34.440	170.2	34.08	2.317	33.5	0.0401	0.0401	2209.88	2313.8	7.855
1402.1	1389.3	3.891	34.1068	34.859	206.4	26.05	1.744	26.2	0.0009	-0.0010	2189.90	2327.6	7.943
1501.1	1487.1	3.882	34.5931	34.906	218.7	23.80	1.608	23.5	0.0104	0.0068	2180.57	2329.6	7.965
2000.0	1979.0	3.216	36.9551	34.947	247.4	21.03	1.397	24.8	0.0140	0.0078	2168.07	2331.9	8.001
2199.4	2175.3	3.009	37.8754	34.947	251.0	20.67	1.375	26.0	0.0112	0.0108	2169.56	2336.1	8.004
2398.7	2371.3	2.781	38.7778	34.924	246.7	21.45	1.440	31.8	0.0008	0.0039	2176.09	2337.2	7.998
2894.1	2661.5	2.643	40.1043	34.922	248.2	21.60	1.441	33.5	0.0032	0.0020	2177.16	2342.3	8.001
2999.8	2961.4	2.462	41.4646	34.904	244.3	22.31	1.497	38.6	0.0009	-0.0020	2184.36	2346.1	7.993
3199.6	3157.2	2.401	42.3512	34.911	248.5	21.80	1.454	36.9	0.0019	-0.0029	2182.19	2344.0	8.001
3399.2	3352.6	2.337	43.2329	34.913	252.9	21.27	1.422	35.0	0.0041	0.0029	2337.5	2337.5	8.005
3399.6	3353.0	2.336	43.2355	34.912	252.7	21.42	1.425	35.3	0.0054	0.0020	2177.47	2338.2	8.004
3542.9	3493.2	2.244	43.8697	34.909	254.1	21.02	1.415	36.2	0.0104	0.0078	2178.68	2340.0	8.003
3699.9	3646.7	2.120	44.5635	34.899	253.7	21.45	1.449	39.3	0.0067	0.0049	2181.23	2343.5	8.001
3852.2	3795.5	1.916	45.2409	34.879	250.7	22.51	1.524	47.4	0.0008	0.0000	2189.26	2349.8	7.986
3998.2	3938.0	1.735	45.8888	34.861	247.8	23.21	1.584	55.0	0.0041	0.0049	2196.24	2352.6	7.981
4199.0	4133.9	1.377	46.7895	34.822	242.0	25.05	1.708	68.8	0.0021	0.0039	2211.12	2359.9	7.960
4397.9	4327.8	0.937	47.6873	34.777	233.3	28.32	1.927	91.0	0.0052	0.0039	2233.44	2367.6	7.930
4598.8	4523.4	0.692	48.5724	34.750	228.7	29.97	2.021	100.9	0.0164	0.0078	2242.32	2372.9	7.917
4798.9	4718.1	0.226	49.4786	34.707	223.0	32.45	2.196	118.0	0.0436	0.0244	2252.01	2379.2	7.885
4999.0	4912.7	0.079	50.3467	34.691	221.9	32.80	2.243	124.1	0.0693	0.0362	2253.79	2378.1	7.879
5068.3	4980.0	0.058	50.6438	34.690	222.1	32.42	2.252	123.6	0.0720	0.0362	2257.20	2378.6	

# Station 140

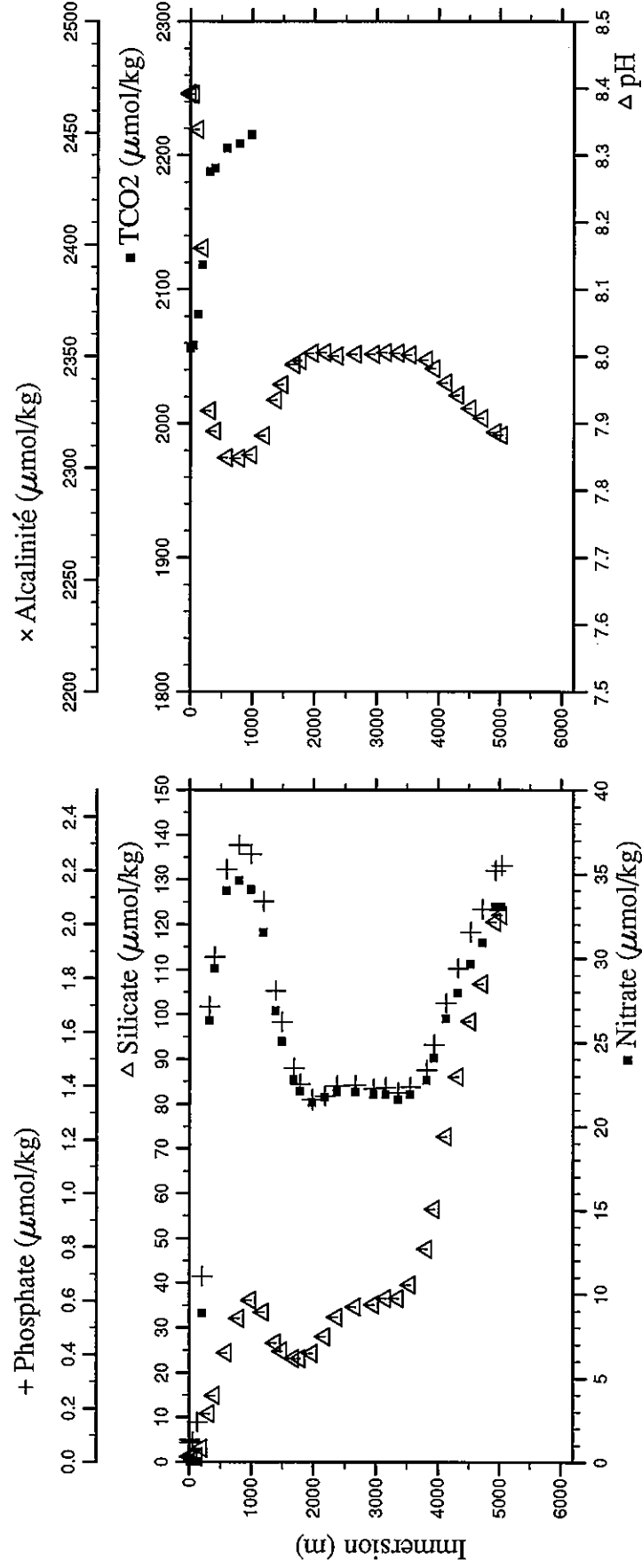
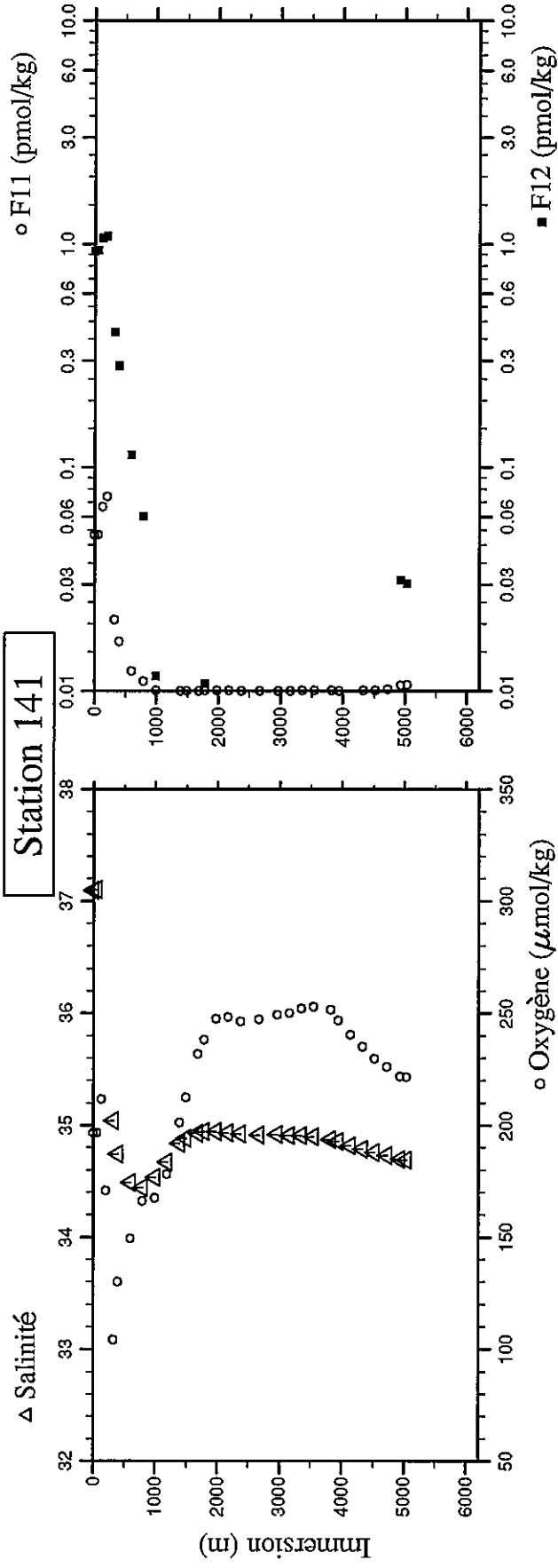




Station : 141 Campagne : CIPHER 2  
 Date : 22-02-94 Heure : 23 h 8 mn  
 Position : S 13 25.24 W 31 4.92  
 Dernier niveau à : 5125  
 Nb prélèvements : 31

PRESSION CHIMIE	IMMERSTION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
1.5	1.5	27.873	24.0215	37.094	196.6	0.04	0.072	1.2	1.6289	0.9284	2056.06		8.391
1.9	1.9	27.875	24.0218	37.097	196.6	0.04	0.083	1.2	1.6337	0.9265			8.393
51.1	50.8	27.874	24.2327	37.101	196.6	0.04	0.075	1.2	1.6341	0.9343	2058.19		8.391
124.2	123.4	24.059	25.6304	36.963	211.7	0.04	0.149	1.1	1.9270	1.0652	2081.53		8.339
200.9	199.6	17.016	27.0211	35.867	170.8	8.86	0.692	3.1	2.0338	1.0827	2118.31		8.162
320.7	318.6	10.984	28.2411	35.045	104.1	26.32	1.696	10.8	0.7458	0.4038	2187.92		7.919
400.4	397.7	8.471	28.8069	34.744	130.1	29.40	1.881	14.9	0.5190	0.2846	2190.41		7.889
601.4	597.1	5.596	29.9533	34.489	149.5	34.00	2.204	24.5	0.2078	0.1135	2205.09		7.849
800.0	793.8	4.420	30.9815	34.443	166.1	34.60	2.295	32.1	0.1030	0.0606	2208.45		7.848
1000.9	992.7	3.898	32.0334	34.534	167.5	34.06	2.262	36.2	0.0086	0.0117	2215.31		7.853
1200.4	1190.0	3.839	33.0567	34.670	178.1	31.54	2.086	33.5	-0.0003	0.0010			7.882
1399.7	1387.0	3.924	34.0781	34.837	201.3	26.89	1.755	26.6	0.0038	0.0010			7.935
1500.1	1486.1	3.876	34.5690	34.883	212.5	25.06	1.638	24.9	0.0022	0.0020			7.958
1700.6	1683.9	3.650	35.5400	34.933	231.7	22.81	1.466	23.2	0.0041	0.0049			7.994
1801.8	1783.7	3.522	36.0199	34.944	238.2	22.11	1.407	23.2	0.0069	0.0108			8.005
2000.5	1979.5	3.266	36.9512	34.947	247.5	21.42	1.350	24.3	0.0108	0.0049			8.006
2199.1	2175.0	2.978	37.8718	34.937	248.2	21.73	1.363	28.0	0.0058	0.0068			8.001
2400.2	2372.8	2.772	38.7853	34.926	246.2	22.08	1.402	32.4	0.0021	0.0000			8.003
2700.2	2667.5	2.604	40.1347	34.917	247.4	22.08	1.403	34.6	0.0036	0.0020			8.006
2998.5	2960.1	2.494	41.4622	34.919	249.4	21.89	1.391	35.1	0.0041	0.0049			8.003
3198.3	3155.9	2.394	42.3481	34.912	250.1	21.89	1.394	36.5	0.0040	0.0020			8.006
3399.2	3352.6	2.300	43.2379	34.913	252.1	21.59	1.376	36.5	0.0066	0.0020			8.005
3598.9	3547.9	2.162	44.1199	34.902	253.0	21.90	1.398	39.6	0.0065	0.0029			8.002
3878.8	3821.4	1.889	45.3591	34.877	251.6	22.75	1.461	47.6	0.0075	0.0068			7.995
3998.2	3938.0	1.708	45.8924	34.858	246.8	24.07	1.554	56.5	0.0018	0.0009			7.982
4198.6	4133.5	1.350	46.7905	34.820	240.4	26.39	1.708	72.7	-0.0009	0.0020			7.961
4397.5	4327.4	1.046	47.6748	34.788	235.2	27.93	1.837	86.1	0.0065	0.0029			7.942
4596.9	4521.6	0.747	48.5599	34.756	229.8	29.67	1.972	98.5	0.0107	0.0078			7.923
4799.8	4719.0	0.531	49.4479	34.735	226.3	30.92	2.055	106.8	0.0200	0.0098			7.908
5019.4	4932.5	0.126	50.4277	34.697	221.8	33.05	2.201	120.6	0.0594	0.0313			7.887
5120.9	5031.1	0.076	50.8640	34.691	221.6	33.06	2.220	122.1	0.0659	0.0303			7.883

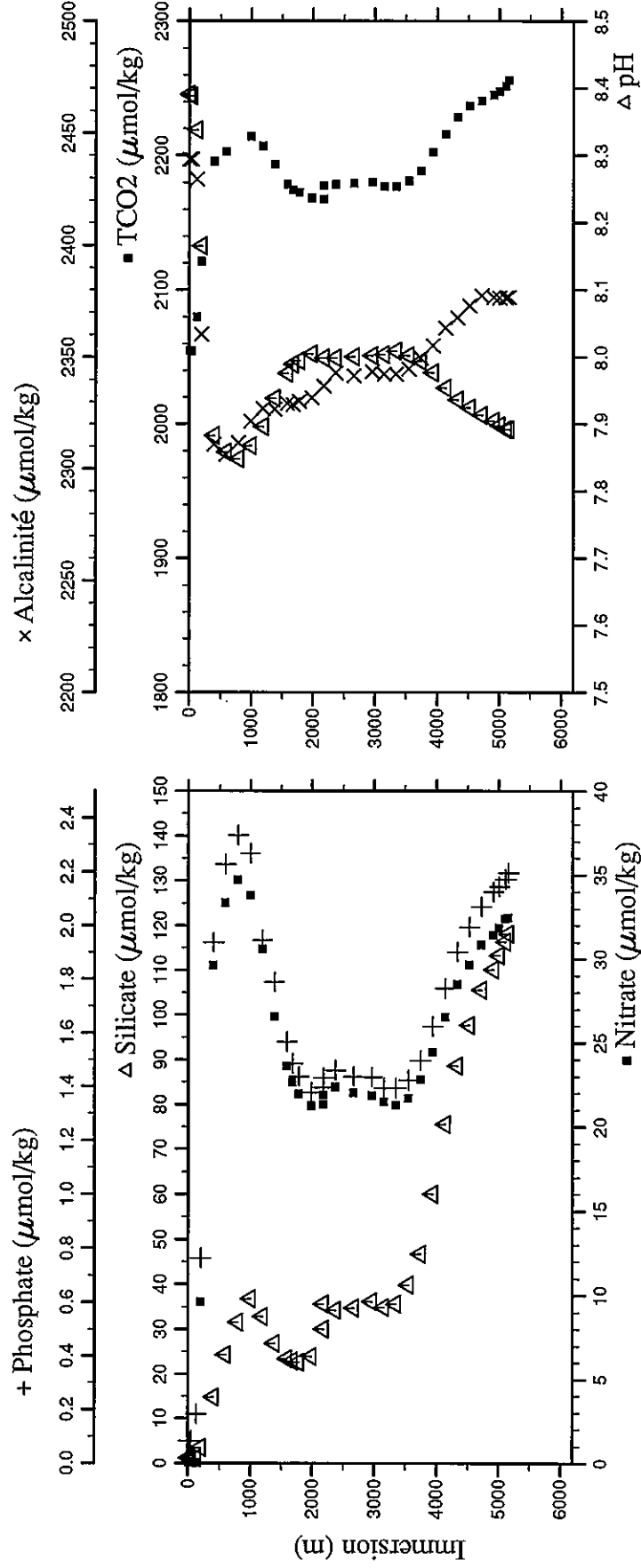
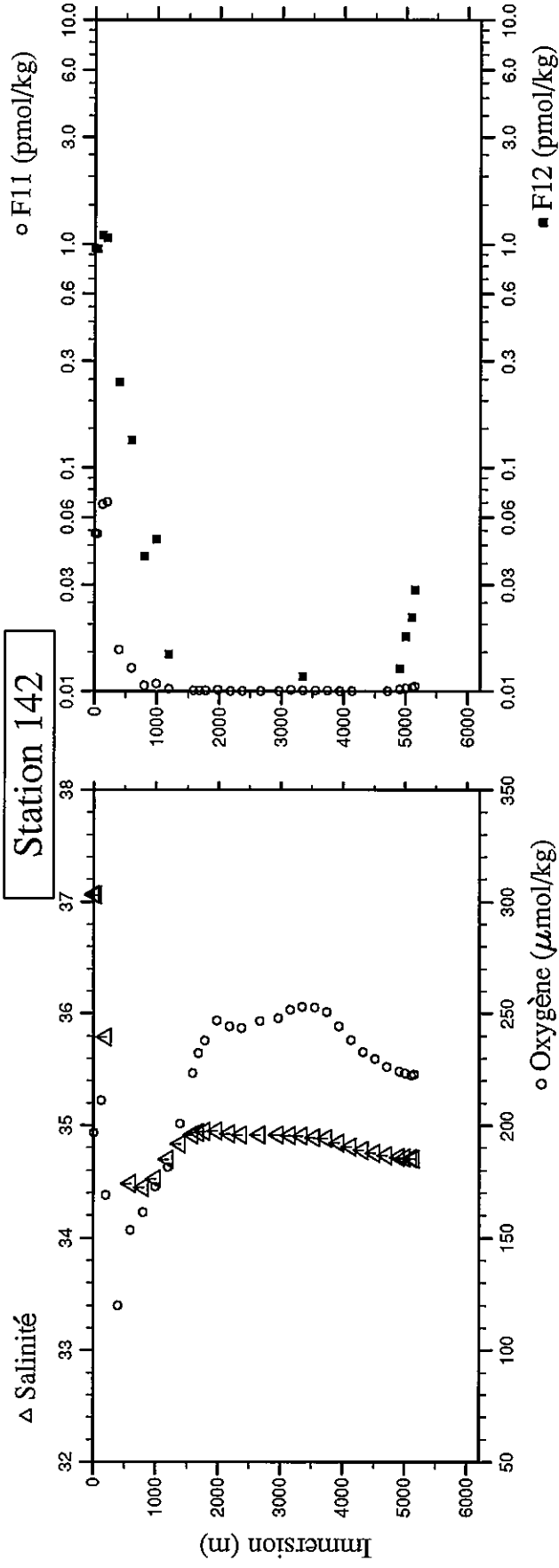
# Station 141



Station : 142 Campagne : CITHER 2  
 Date : 23-02-94 Heure : 5 h 42 mn  
 Position : S 13 26.32 W 30 35.36  
 Dernier niveau à : 5254  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSTON	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.4	4.4	27.770	24.0381	37.064	196.8	0.04	0.084	1.2	1.6499	0.9597	2054.69	2438.2	8.391
41.4	41.2	27.765	24.1951	37.059	196.9	0.04	0.084	1.1	1.6446	0.9509	2054.57	2438.2	8.389
126.1	125.3	23.450	25.7270	36.853	211.1	0.04	0.183	1.2	1.9535	1.0946	2079.92	2429.2	8.338
201.0	199.7	16.755	27.0573	35.788	159.1	9.63	0.763	3.5	1.9791	1.0622	2121.30	2360.1	8.166
400.8	398.1	8.780	28.8070	34.772	119.9	29.64	1.938	14.8	0.4376	0.2415	2195.56	2310.9	7.883
601.2	596.9	5.585	29.9495	34.481	153.5	33.35	2.228	24.3	0.2457	0.1321	2202.91	2306.3	7.858
800.8	794.6	4.475	30.9797	34.449	161.3	34.70	2.336	31.6	0.0618	0.0401	2311.6	2311.6	7.848
1003.3	995.1	3.819	32.0423	34.525	172.9	33.81	2.267	36.8	0.0820	0.0479	2214.18	2321.1	7.868
1201.5	1191.1	3.843	33.0778	34.696	181.4	30.60	1.946	32.9	0.0250	0.0147	2206.81	2326.7	7.896
1400.3	1387.5	3.923	34.0751	34.836	200.8	26.54	1.788	26.9	-0.0059	0.0039	2193.23	2326.6	7.939
1602.0	1586.7	3.754	35.0688	34.916	223.4	23.63	1.566	23.4	0.0090	0.0078	2178.54	2329.2	7.976
1700.9	1684.2	3.636	35.5456	34.935	232.2	22.63	1.485	22.9	0.0080	0.0059	2174.21	2328.5	7.990
1801.3	1783.2	3.528	36.0166	34.946	238.0	21.98	1.438	22.7	0.0085	0.0098	2172.58	2330.0	7.995
2001.8	1980.8	3.250	36.9591	34.951	246.9	21.25	1.377	24.0	0.0139	0.0088	2168.31	2331.6	8.005
2200.2	2176.1	2.921	37.8750	34.914	253.1	21.33	1.398	35.7	0.0002	0.0039	2177.55		
2200.3	2176.2	2.921	37.8754	34.928	244.3	21.91	1.432	30.1	0.0002	0.0039	2167.52	2337.1	7.999
2399.2	2371.8	2.702	38.7842	34.916	243.5	22.38	1.460	34.2	0.0000	0.0000	2178.70	2342.9	7.999
2701.4	2668.6	2.570	40.1421	34.917	246.6	22.03	1.437	34.8	0.0034	0.0020	2179.28	2341.5	8.001
2999.4	2961.0	2.462	41.4676	34.915	247.8	21.88	1.436	36.1	0.0026	0.0039	2180.17	2343.3	8.002
3199.2	3156.8	2.369	42.3579	34.908	251.7	21.49	1.395	34.9	0.0112	0.0039	2176.92	2342.2	8.004
3397.3	3350.7	2.276	43.2327	34.904	250.7	21.30	1.395	34.9	0.0085	0.0117	2176.79	2342.3	8.009
3600.9	3549.9	2.099	44.1356	34.891	252.6	21.69	1.425	35.6	0.0107	0.0039	2181.13	2344.5	8.002
3800.6	3745.1	1.890	45.0212	34.883	250.7	22.81	1.497	46.7	0.0082	0.0059	2188.28	2349.4	7.994
4000.1	3939.9	1.576	45.9137	34.846	244.2	24.44	1.624	60.1	0.0015	0.0039	2202.36	2354.9	7.977
4200.2	4135.1	1.228	46.8088	34.811	238.1	26.51	1.766	75.5	0.0015	0.0059	2215.90	2362.9	7.954
4398.6	4328.5	0.925	47.6926	34.778	232.9	28.48	1.901	88.6	-0.0002	0.0049	2228.48	2367.5	7.936
4599.0	4523.6	0.700	48.5728	34.753	229.8	29.67	1.994	97.7	-0.0001	0.0049	2237.21	2372.7	7.924
4797.7	4717.0	0.497	49.4424	34.733	226.3	30.86	2.070	105.6	0.0042	0.0068	2240.92	2377.3	7.913
4998.1	4911.8	0.371	50.3079	34.719	224.2	31.41	2.125	110.2	0.0190	0.0127	2245.25	2376.7	7.905
5097.3	5008.2	0.282	50.7371	34.713	223.3	31.85	2.144	113.3	0.0307	0.0176	2247.75	2376.5	7.898
5198.0	5106.0	0.202	51.1742	34.706	222.4	32.39	2.173	116.4	0.0387	0.0215	2251.67	2376.4	7.892
5249.8	5156.3	0.151	51.3984	34.700	223.0	32.47	2.196	118.2	0.0483	0.0284	2256.26	2376.7	7.892

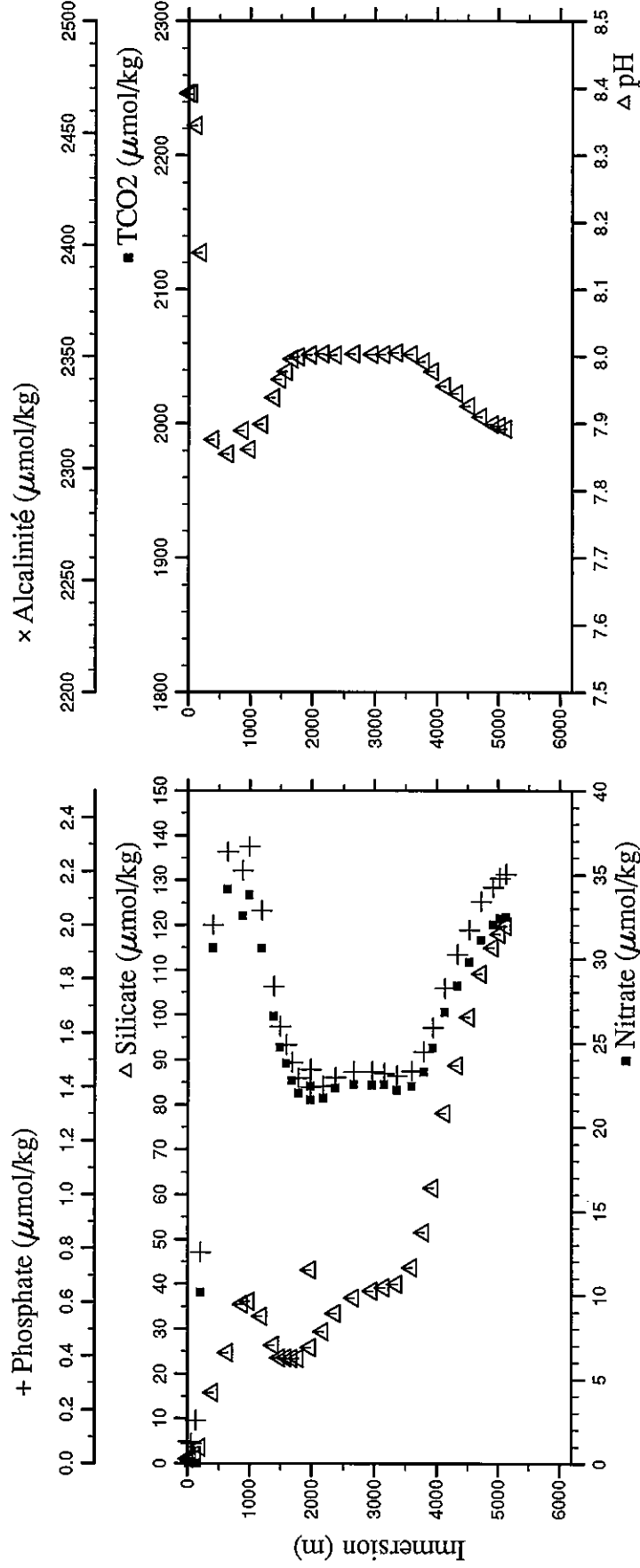
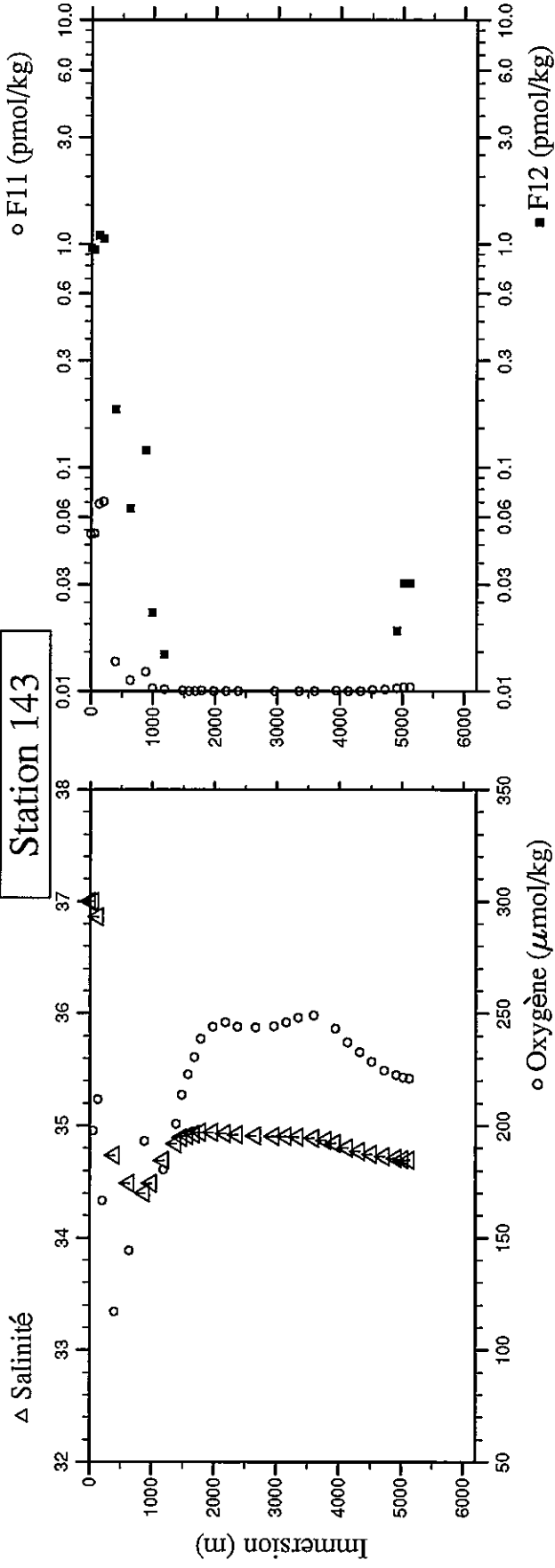
# Station 142



Station : 143 Campagne : CITHER 2  
 Date : 23-02-94 Heure : 12 h 10 mn  
 Position : S 12 56.58 W 30 33.93  
 Dernier niveau à : 5219  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSTION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	PH
dbar	metres	deg. cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
1.9	1.9	27.964	23.9208	37.002	197.5	0.04	0.081	1.1	1.6414	0.9578			8.393
49.3	49.0	27.840	24.1563	36.998	197.7	0.04	0.075	1.2	1.6441	0.9392			8.392
124.9	124.1	23.734	25.5634	36.863	211.7	0.04	0.159	1.2	1.9539	1.0878			8.345
201.4	200.1	16.524	27.1065	35.740	166.7	10.17	0.784	3.6	1.9750	1.0603			8.155
400.4	397.7	8.328	28.8295	34.736	117.0	30.64	2.001	15.8	0.3100	0.1819			7.876
640.7	636.0	5.533	30.1424	34.488	144.4	34.13	2.273	24.7	0.1155	0.0655			7.855
885.8	878.8	3.848	31.4105	34.402	193.1	32.54	2.202	35.5	0.2020	0.1193			7.890
1000.1	992.0	3.861	31.9884	34.488	169.8	33.79	2.291	36.1	0.0291	0.0225			7.862
1199.3	1189.0	3.861	33.0617	34.694	180.3	30.61	2.054	32.8	0.0220	0.0147			7.899
1399.9	1387.2	3.929	34.0769	34.841	200.8	26.57	1.771	26.4	-0.0057	0.0059			7.939
1498.3	1484.3	3.932	34.5637	34.897	213.7	24.73	1.623	23.6	0.0101	0.0049			7.966
1601.0	1585.7	3.744	35.0642	34.911	223.0	23.78	1.557	23.6	0.0038	0.0059			7.978
1698.5	1681.9	3.618	35.5338	34.927	230.4	22.77	1.491	23.5	0.0024	0.0020			7.996
1800.3	1782.3	3.472	36.0196	34.942	238.7	22.05	1.432	23.5	0.0055	0.0039			8.000
2000.5	1979.5	3.197	36.9552	34.892	249.2	22.43	1.464	43.2	0.0007	0.0010			8.003
2000.6	1979.6	3.197	36.9556	34.939	243.9	22.61	1.404	43.2	0.0044	0.0039			8.002
2200.6	2176.5	2.936	37.8788	34.931	246.0	21.73	1.404	29.4	0.0046	0.0039			8.004
2399.4	2372.0	2.737	38.7835	34.919	244.1	22.35	1.435	33.5	0.0006	0.0039			8.002
2698.9	2666.2	2.557	40.1289	34.912	243.6	22.55	1.457	36.9	-0.0012	0.0029			8.004
2999.6	2961.2	2.437	41.4678	34.904	244.3	22.51	1.456	38.4	0.0022	0.0020			8.003
3197.6	3155.3	2.348	42.3479	34.905	246.0	22.55	1.449	39.2	-0.0018	0.0020			8.003
3399.0	3352.5	2.258	43.2360	34.902	248.0	22.20	1.442	40.0	0.0008	0.0010			8.006
3647.7	3595.7	2.078	44.3367	34.891	249.0	22.44	1.458	43.6	0.0019	0.0088			8.003
3847.8	3791.2	1.835	45.2303	34.868	245.0	23.30	1.530	51.5	-0.0018	-0.0009			7.992
3998.7	3938.6	1.587	45.9064	34.843	243.3	24.72	1.620	61.4	0.0053	0.0059			7.978
4198.7	4133.7	1.204	46.8050	34.805	237.2	26.82	1.766	78.1	0.0012	0.0010			7.956
4398.6	4328.5	0.931	47.6931	34.775	232.7	28.36	1.890	88.8	0.0000	0.0020			7.945
4598.1	4522.8	0.677	48.5694	34.748	228.4	29.78	1.982	99.4	0.0121	0.0088			7.926
4798.8	4718.1	0.436	49.4519	34.725	224.7	31.13	2.088	109.1	0.0197	0.0088			7.910
4998.5	4912.3	0.262	50.3223	34.710	222.5	32.03	2.140	115.0	0.0295	0.0186			7.899
5116.5	5026.9	0.187	50.8306	34.703	221.7	32.39	2.175	118.0	0.0455	0.0303			7.896
5216.3	5123.8	0.142	51.2583	34.698	221.1	32.49	2.190	119.8	0.0464	0.0303			7.892

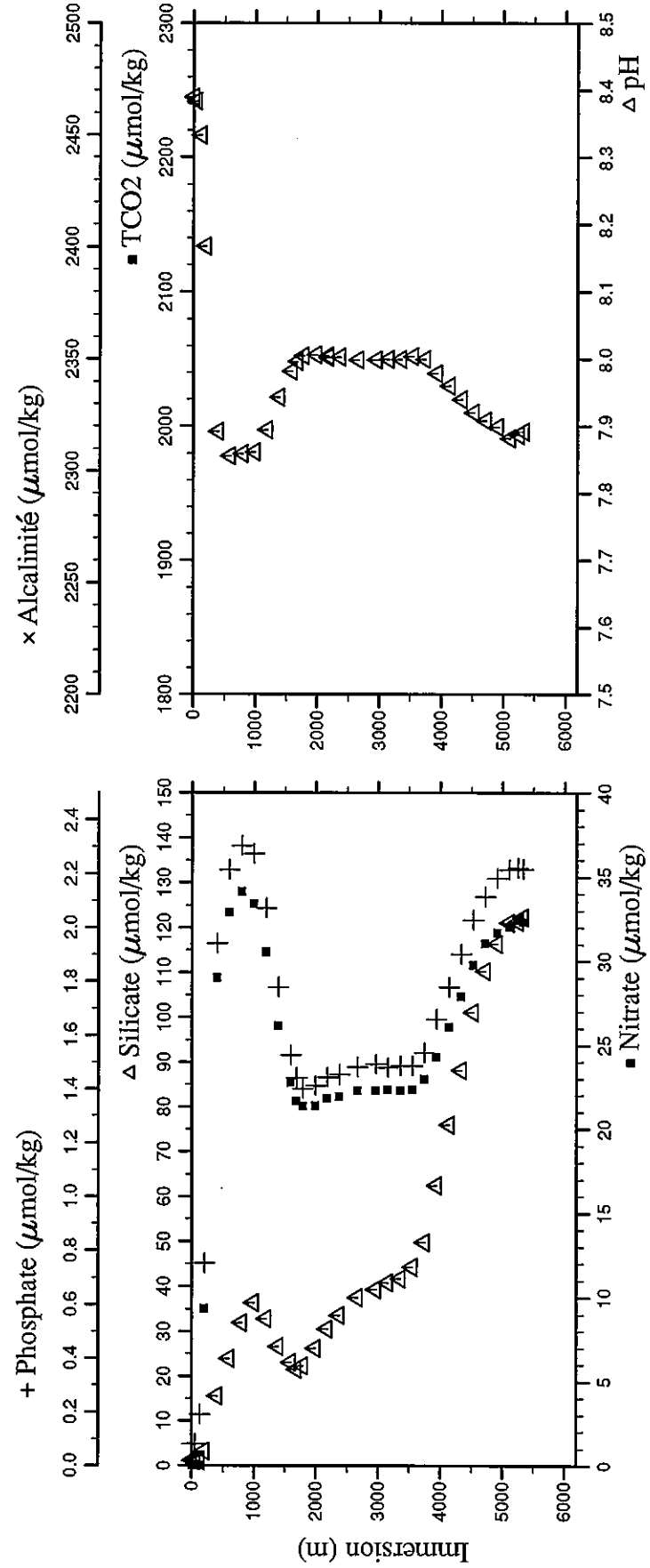
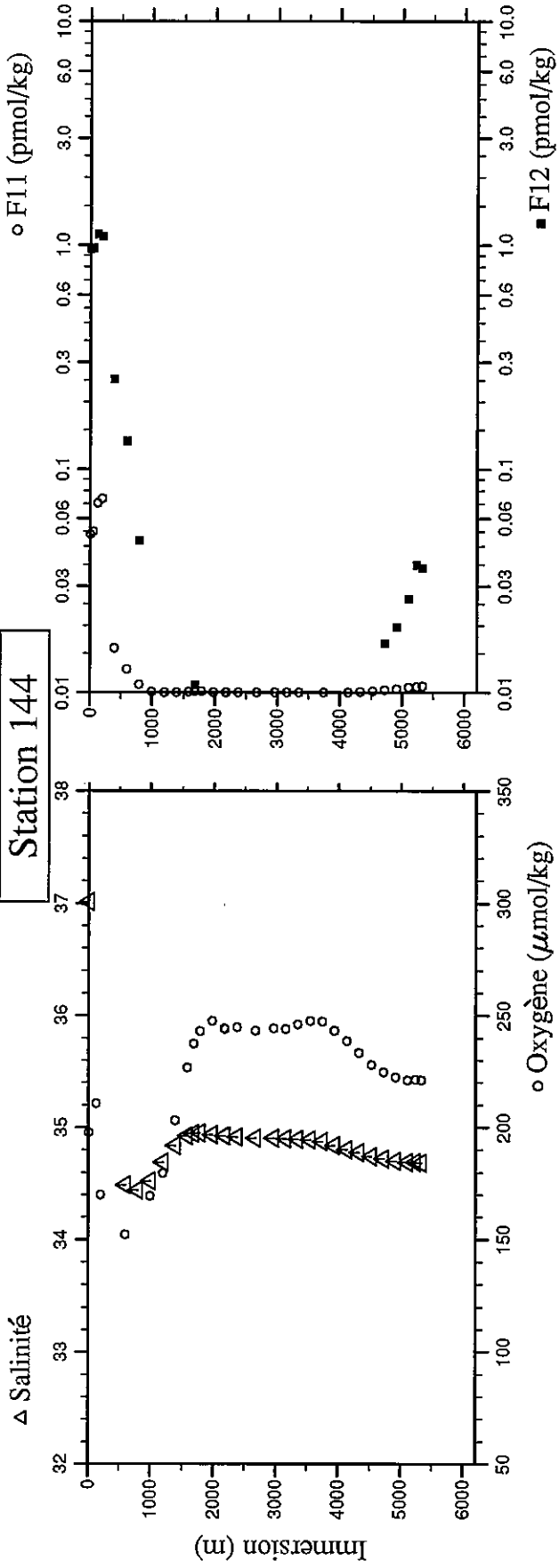
# Station 143



Station : 144 Campagne : CITHER 2  
 Date : 23-02-94 Heure : 18 h 29 mn  
 Position : S 12 26.74 W 30 32.35  
 Dernier niveau à : 5427  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSTION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.4	7.4	27.796	24.0112	37.017	197.8	0.04	0.081	1.2	1.6499	0.9588			8.390
52.3	52.0	27.687	24.2262	36.999	200.0	0.04	0.081	1.1	1.6823	0.9676			8.384
127.5	126.7	23.199	25.7768	36.778	210.7	0.04	0.191	1.1	1.9750	1.1132			8.333
200.7	199.5	17.125	27.0152	35.843	170.0	9.36	0.752	3.2	2.0267	1.0905			8.168
400.6	397.9	8.142	28.8341	34.697	137.9	29.02	1.942	15.5	0.4649	0.2523			7.892
601.4	597.1	5.617	29.9462	34.487	152.3	32.91	2.214	24.0	0.2459	0.1330			7.856
800.6	794.5	4.398	30.9883	34.443	164.8	34.14	2.304	31.9	0.0874	0.0479			7.859
999.9	991.8	3.866	32.0262	34.525	169.4	33.44	2.274	36.4	0.0089	0.0088			7.862
1201.5	1191.2	3.864	33.0707	34.690	179.7	30.54	2.073	32.9	0.0008	0.0020			7.895
1399.9	1387.2	3.912	34.0831	34.840	203.1	26.16	1.779	26.6	0.0009	0.0029			7.943
1601.7	1586.4	3.765	35.0763	34.928	226.7	22.79	1.527	23.1	0.0066	0.0078			7.982
1699.9	1683.3	3.647	35.5511	34.948	237.4	21.66	1.442	21.5	0.0139	0.0108			7.996
1800.1	1782.1	3.470	36.0291	34.951	242.9	21.34	1.402	22.3	0.0114	0.0088			8.005
2000.8	1979.9	3.147	36.9641	34.938	247.5	21.38	1.411	26.2	0.0005	0.0020			8.007
2199.7	2175.7	2.915	37.8742	34.926	244.2	21.84	1.444	30.6	0.0014	0.0059			8.005
2200.1	2176.0	2.912	37.8769	34.924	244.1	21.84	1.444	30.6	0.0002	0.0088			8.002
2401.6	2374.2	2.734	38.7917	34.914	244.7	21.92	1.454	33.6	0.0017	0.0000			8.003
2699.5	2666.9	2.553	40.1306	34.904	243.1	22.30	1.481	37.5	0.0017	0.0039			7.999
3000.6	2962.3	2.434	41.4711	34.903	244.2	22.30	1.492	39.3	0.0015	0.0020			7.999
3200.0	3157.7	2.346	42.3559	34.900	244.0	22.34	1.479	40.9	0.0001	0.0068			8.000
3400.5	3354.0	2.243	43.2420	34.895	246.0	22.29	1.487	41.8	0.0009	0.0020			8.000
3599.8	3549.0	2.108	44.1260	34.889	247.5	22.33	1.487	44.3	-0.0023	-0.0020			8.004
3801.7	3746.3	1.911	45.0215	34.876	247.2	22.99	1.535	49.8	0.0006	0.0068			8.000
3999.5	3939.4	1.557	45.9114	34.839	243.1	24.31	1.660	62.5	-0.0023	0.0020			7.979
4200.0	4135.0	1.234	46.8103	34.805	238.7	26.10	1.779	75.9	0.0048	0.0059			7.960
4398.6	4328.6	0.931	47.6912	34.777	233.3	27.89	1.902	88.2	0.0059	0.0098			7.940
4600.1	4524.9	0.639	48.5832	34.744	227.9	29.77	2.028	101.1	0.0111	0.0059			7.920
4799.4	4718.8	0.392	49.4605	34.720	224.6	31.06	2.115	110.3	0.0253	0.0166			7.908
4998.6	4912.5	0.213	50.3292	34.704	222.4	31.70	2.183	116.4	0.0392	0.0196			7.899
5197.9	5106.1	0.104	51.1861	34.693	221.0	32.04	2.215	121.1	0.0561	0.0264			7.882
5336.5	5240.6	0.084	51.7721	34.691	221.4	32.44	2.221	121.3	0.0623	0.0372			7.887
5426.3	5327.7	0.064	52.1529	34.688	221.2	32.33	2.217	122.3	0.0645	0.0362			7.892

Station 144

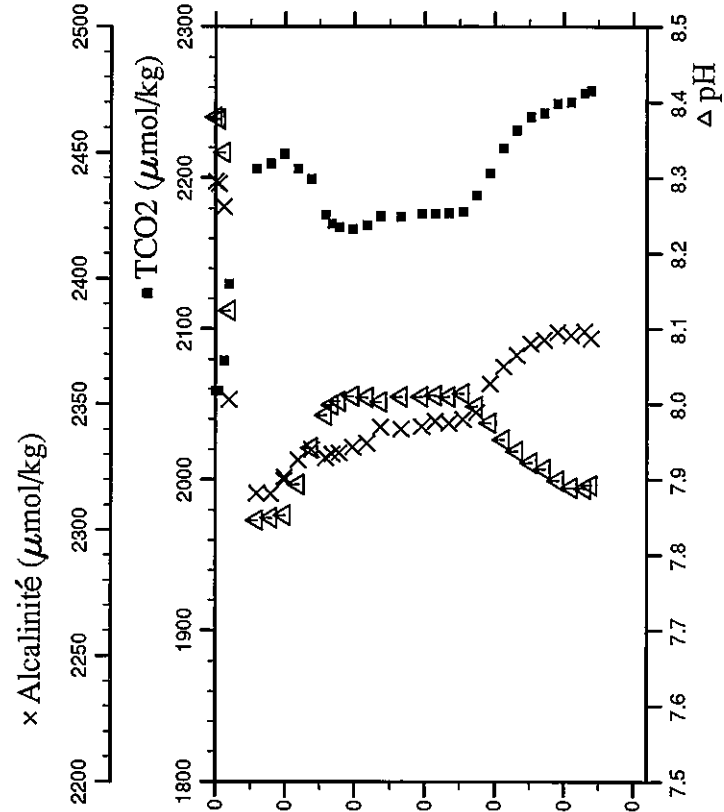
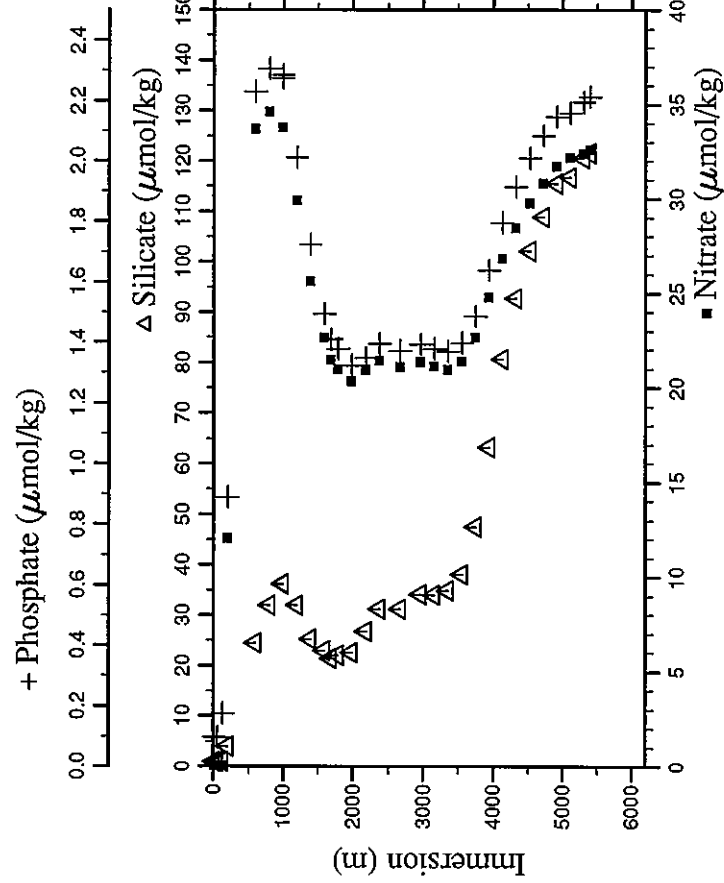
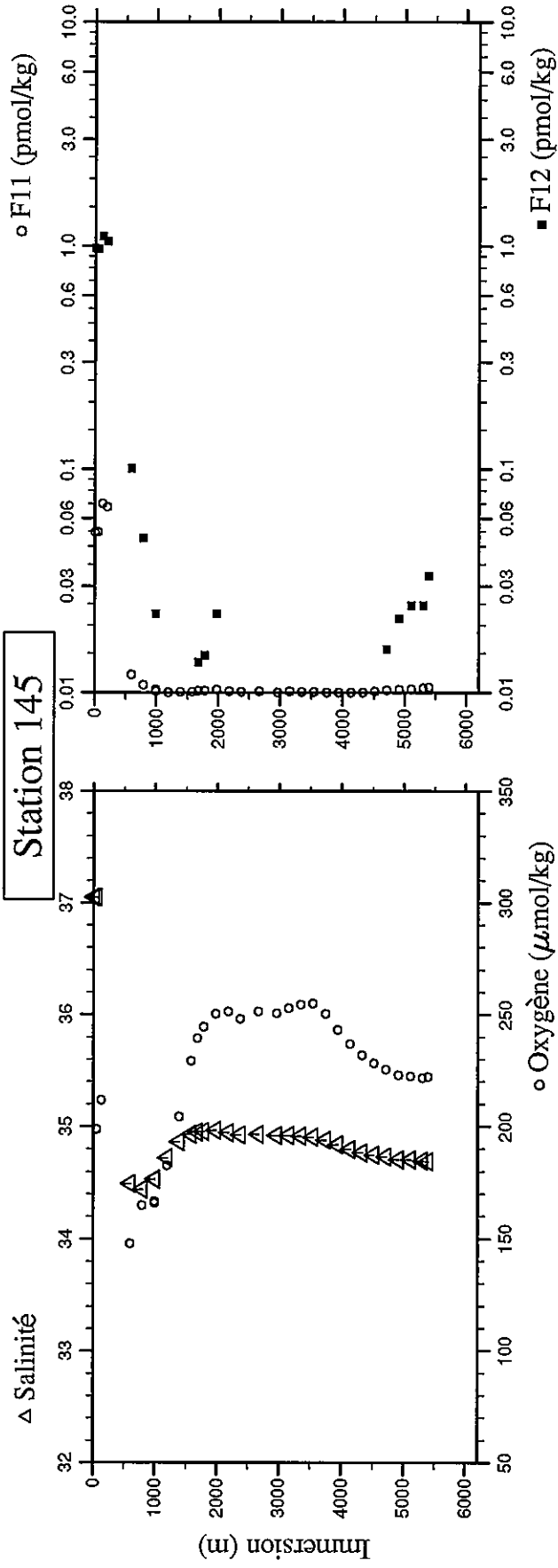




Station : 145 Campagne : CIPHER 2  
 Date : 24-02-94 Heure : 1 h 4 mn  
 Position : S 11 56.98 W 30 30.68  
 Dernier niveau à : 5498  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSTION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
2.7	2.7	27.676	24.0563	37.053	198.0	0.04	0.099	1.0	1.6673	0.9773	2058.75	2438.3	8.380
52.0	51.7	27.677	24.2636	37.052	198.7	0.04	0.096	0.9	1.6758	0.9675	2058.83	2437.7	8.378
124.7	123.9	23.640	25.6709	36.816	211.8	0.04	0.174	1.0	1.9700	1.1054	2078.96	2428.4	8.334
201.1	199.9	15.939	27.1573	35.644	163.1	12.07	0.888	4.0	1.9366	1.0457	2129.88	2351.8	8.124
600.4	596.1	5.688	29.9403	34.494	147.8	33.68	2.230	24.4	0.1872	0.1007	2205.88	2314.6	7.846
799.0	792.9	4.431	30.9743	34.441	165.0	34.62	2.305	32.0	0.0809	0.0489	2209.69	2314.4	7.850
1001.0	992.9	3.937	32.0236	34.531	165.8	33.76	2.284	36.3	0.0144	0.0029	2215.67	2321.0	7.853
1002.2	994.1	3.931	32.0297	34.533	166.7	33.77	2.275	36.1	0.0296	0.0225	2215.76	2319.7	7.853
1201.1	1190.8	3.934	33.0807	34.722	182.7	29.89	2.012	31.9	0.0035	0.0010	2206.15	2327.7	7.894
1400.6	1387.9	3.995	34.0889	34.864	204.4	25.62	1.723	25.2	0.0096	0.0068	2199.46	2331.8	7.942
1599.4	1584.2	3.726	35.0741	34.931	229.3	22.63	1.495	22.9	0.0060	0.0098	2175.58	2328.5	7.985
1700.5	1683.9	3.633	35.5588	34.952	239.4	21.45	1.409	21.4	0.0201	0.0137	2169.50	2330.1	7.999
1799.2	1781.2	3.468	36.0264	34.956	244.5	20.98	1.378	22.1	0.0191	0.0147	2167.45	2330.6	8.004
2000.3	1979.4	3.288	36.9605	34.964	250.4	20.35	1.322	22.5	0.0306	0.0225	2166.23	2332.8	8.011
2200.9	2176.9	2.981	37.8846	34.946	251.3	20.94	1.348	26.7	0.0115	0.0068	2168.70	2334.5	8.009
2397.9	2370.6	2.777	38.7785	34.927	248.1	21.44	1.395	31.2	0.0076	0.0068	2174.66	2340.7	8.003
2699.6	2667.0	2.638	40.1343	34.931	251.3	21.09	1.372	31.2	0.0115	0.0078	2174.22	2340.0	8.010
2999.8	2961.6	2.474	41.4722	34.922	250.7	21.36	1.393	34.1	0.0046	0.0029	2176.39	2341.0	8.010
3199.0	3156.8	2.393	42.3557	34.919	252.9	21.12	1.379	34.0	0.0119	0.0098	2176.35	2343.2	8.012
3397.1	3350.7	2.293	43.2309	34.915	254.5	20.96	1.369	34.9	0.0057	0.0068	2176.70	2342.3	8.010
3598.8	3548.0	2.145	44.1243	34.905	254.8	21.40	1.397	38.0	0.0051	0.0088	2177.69	2343.8	8.014
3799.8	3744.5	1.913	45.0166	34.879	250.3	22.66	1.486	47.5	0.0037	0.0049	2188.91	2346.7	7.997
3999.4	3939.4	1.549	45.9124	34.840	236.9	24.78	1.639	63.2	0.0002	0.0000	2202.99	2358.2	7.975
4199.2	4134.3	1.153	46.8127	34.801	243.2	26.86	1.796	80.6	0.0025	0.0039	2219.61	2365.0	7.953
4398.0	4328.1	0.864	47.6963	34.769	231.9	28.44	1.913	92.7	0.0043	0.0020	2231.42	2369.4	7.938
4596.9	4521.8	0.633	48.5708	34.747	228.3	29.77	2.010	102.1	0.0118	0.0078	2240.29	2374.1	7.923
4796.2	4715.8	0.456	49.4405	34.731	225.4	30.81	2.084	108.9	0.0242	0.0156	2242.85	2375.7	7.914
4997.7	4911.7	0.262	50.3182	34.709	223.0	31.69	2.148	115.5	0.0303	0.0215	2249.33	2378.6	7.899
5196.6	5104.9	0.190	51.1692	34.707	222.4	32.18	2.160	116.8	0.0405	0.0245	2250.22	2377.5	7.890
5398.6	5301.0	0.109	52.0308	34.695	221.7	32.38	2.195	120.5	0.0492	0.0245	2256.05	2379.0	7.889
5496.6	5396.0	0.089	52.4453	34.692	222.0	32.57	2.213	121.6	0.0544	0.0333	2257.58	2376.1	7.893

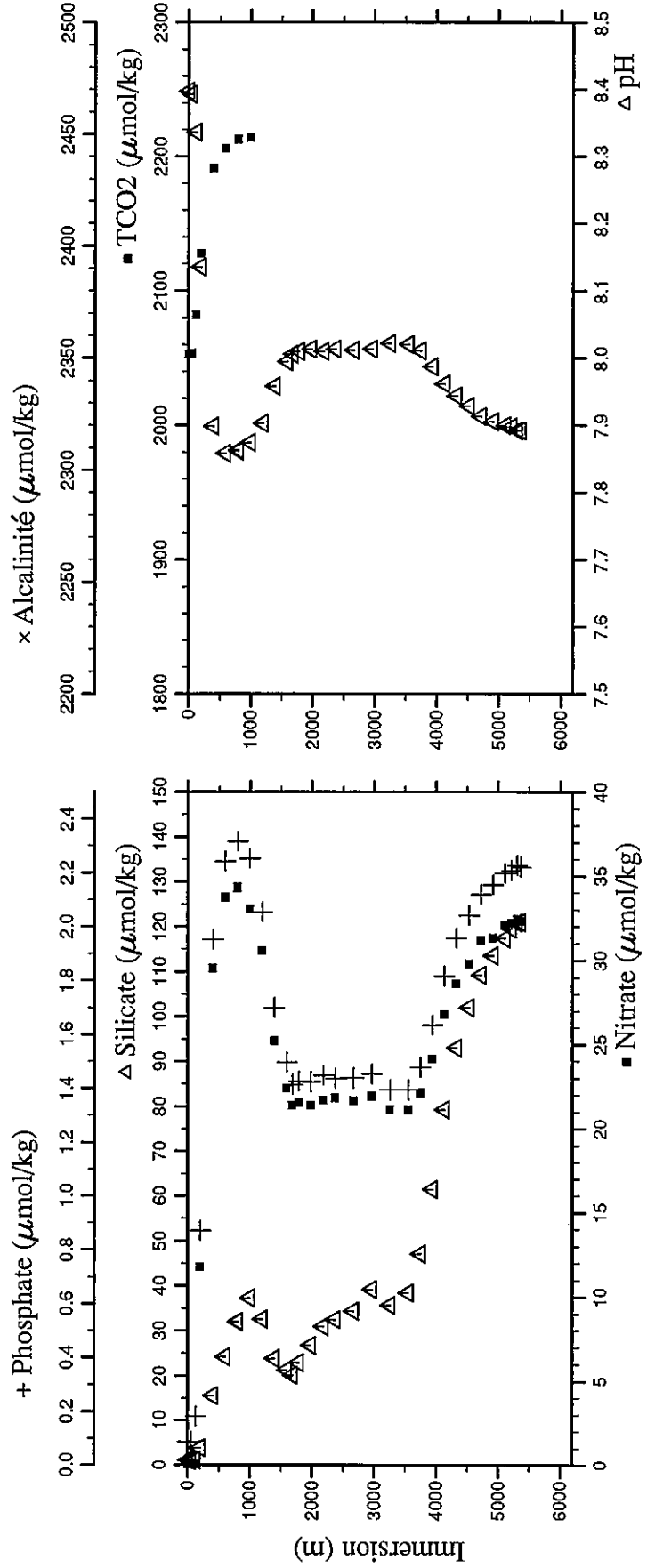
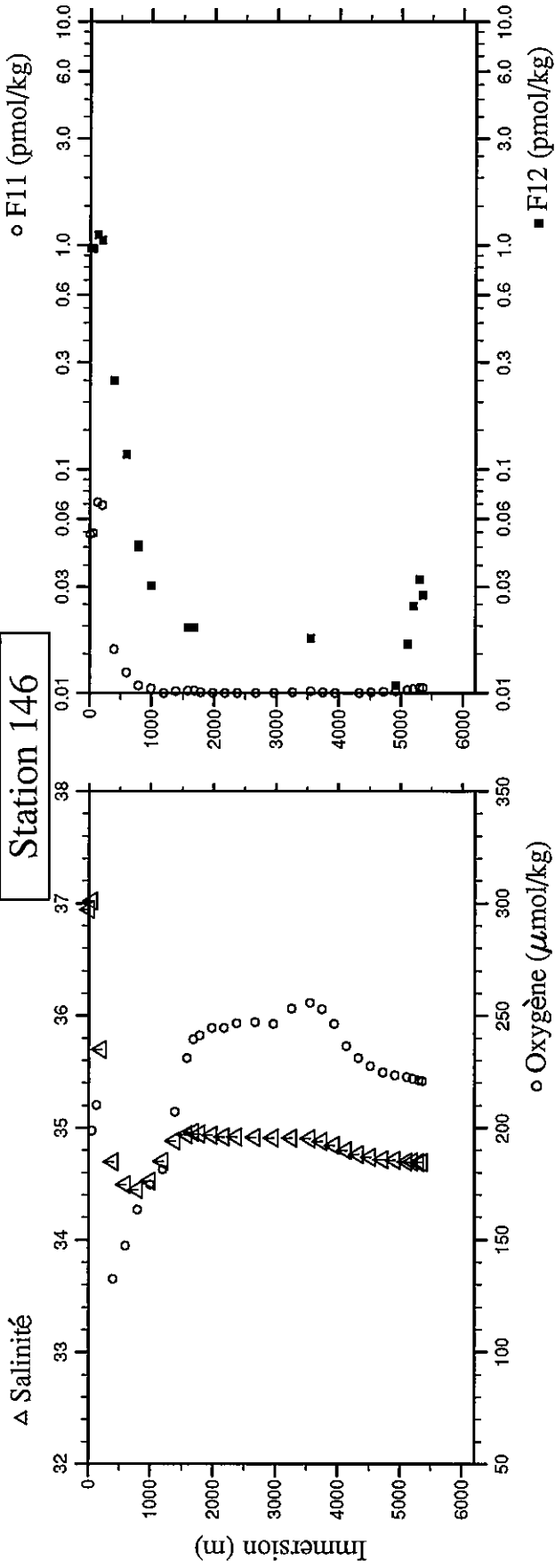
# Station 145



Station : 146 Campagne : CITHER 2  
 Date : 24-02-94 Heure : 7 h 37 mn  
 Position : S 11 26.96 W 30 29.14  
 Dernier niveau à : 5453  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSTION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.5	5.5	27.772	23.9523	36.943	220.0	0.04	0.087	1.1	1.6563	0.9676	2052.80		8.397
51.1	50.8	27.755	24.2105	37.020	198.6	0.04	0.087	1.0	1.6716	0.9636	2053.64		8.393
126.4	125.6	23.214	25.7637	36.779	210.2	0.04	0.183	1.1	1.9880	1.1122	2081.89		8.336
202.3	201.0	16.105	27.1459	35.699	161.1	11.80	0.872	3.8	1.9598	1.0516	2127.52		8.135
401.2	398.5	8.154	28.8336	34.697	132.5	29.54	1.953	15.6	0.4598	0.2494	2191.22		7.899
600.2	595.9	5.672	29.9429	34.495	147.4	33.74	2.242	24.2	0.2171	0.1164	2205.91		7.858
799.6	793.5	4.414	30.9800	34.449	163.3	34.33	2.317	32.1	0.0799	0.0460	2213.04		7.863
799.9	793.8	4.413	30.9831	34.447	163.5	34.28	2.317	31.9	0.0781	0.0450	2213.04		7.862
1000.0	991.9	3.804	32.0325	34.523	174.5	33.05	2.253	37.3	0.0510	0.0303	2213.95		7.874
1201.0	1190.7	3.878	33.0774	34.703	181.4	30.57	2.053	32.6	0.0016	0.0000			7.903
1401.3	1388.6	4.096	34.0938	34.883	207.0	25.23	1.699	23.8	0.0180	0.0078			7.958
1600.4	1585.2	3.823	35.0738	34.941	230.9	22.40	1.496	21.3	0.0280	0.0196			7.995
1698.3	1681.8	3.723	35.5392	34.960	239.3	21.39	1.413	20.1	0.0280	0.0196			8.006
1798.9	1781.0	3.445	36.0216	34.948	241.1	21.55	1.426	22.9	0.0079	0.0088			8.010
1999.7	1978.8	3.120	36.9598	34.936	244.5	21.39	1.424	26.7	0.0012	0.0029			8.013
2199.6	2175.6	2.864	37.8805	34.923	246.6	21.70	1.448	30.9	0.0022	0.0010			8.010
2398.4	2371.2	2.726	38.7827	34.922	246.4	21.82	1.437	32.5	0.0030	0.0049			8.013
2701.2	2668.7	2.573	40.1430	34.918	247.0	21.66	1.439	34.4	0.0020	0.0039			8.012
2999.0	2960.8	2.421	41.4681	34.911	246.3	21.93	1.454	39.2	0.0000	0.0010			8.013
3300.2	3255.9	2.317	42.8060	34.911	253.2	21.16	1.394	35.7	0.0081	0.0059			8.022
3599.9	3549.2	2.125	44.1327	34.904	255.8	21.12	1.394	38.5	0.0177	0.0176			8.020
3800.7	3745.4	1.885	45.0256	34.878	252.8	22.13	1.478	47.1	0.0098	0.0088			8.011
3999.1	3939.2	1.526	45.9154	34.845	246.2	24.14	1.635	61.4	0.0036	0.0020			7.987
4199.5	4134.7	1.160	46.8135	34.801	236.4	26.77	1.817	79.3	-0.0009	-0.0010			7.962
4397.4	4327.6	0.809	47.6997	34.764	231.1	28.60	1.956	93.0	0.0021	-0.0010			7.944
4598.5	4523.5	0.580	48.5838	34.739	227.5	29.78	2.041	102.0	0.0084	0.0078			7.929
4799.0	4718.6	0.401	49.4584	34.719	224.6	31.17	2.120	109.2	0.0145	0.0049			7.913
4999.6	4913.6	0.275	50.3240	34.710	223.5	31.32	2.156	113.6	0.0205	0.0108			7.906
5200.0	5108.3	0.175	51.1854	34.698	222.5	32.06	2.197	117.4	0.0336	0.0166			7.900
5298.5	5203.9	0.126	51.6076	34.696	221.8	32.21	2.209	119.6	0.0431	0.0245			7.898
5399.2	5301.7	0.088	52.0345	34.692	221.2	32.45	2.227	120.8	0.0543	0.0323			7.892
5453.7	5354.5	0.087	52.2647	34.692	220.9	32.31	2.221	120.9	0.0537	0.0274			7.892

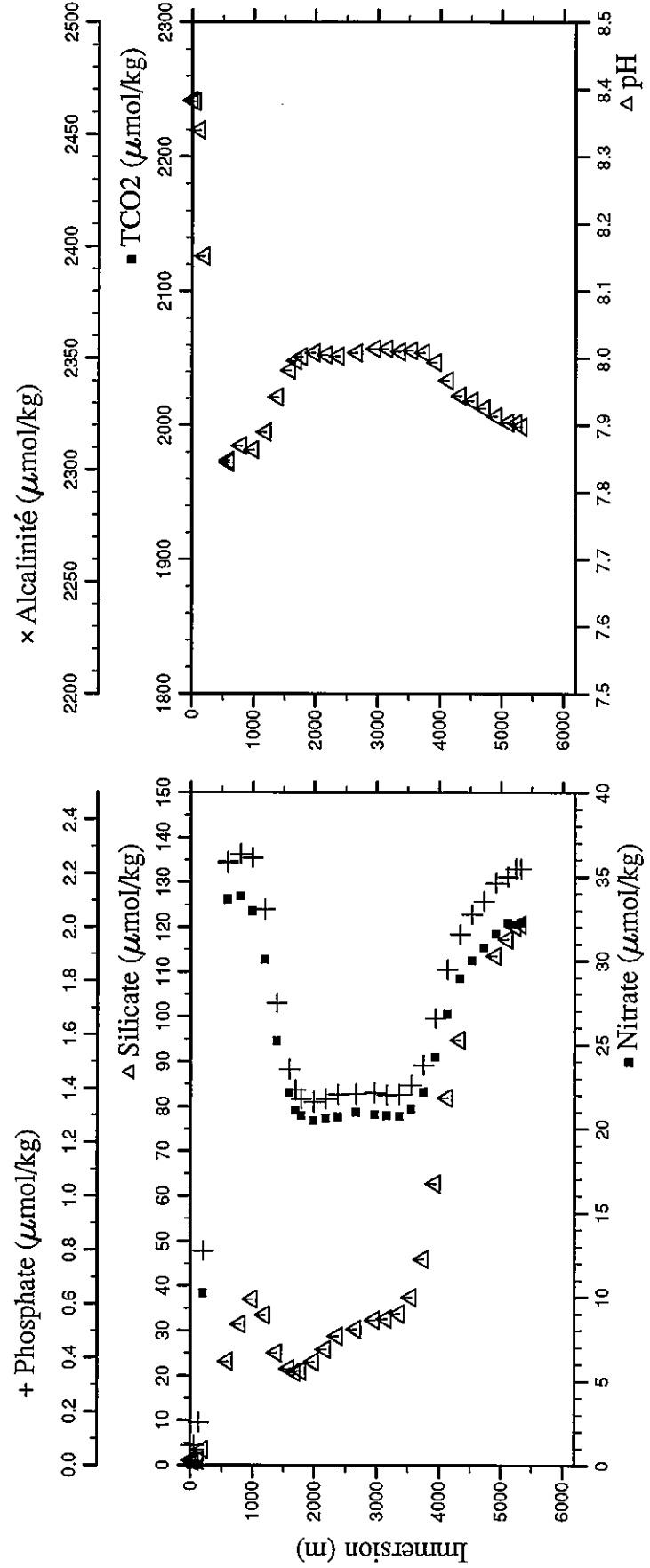
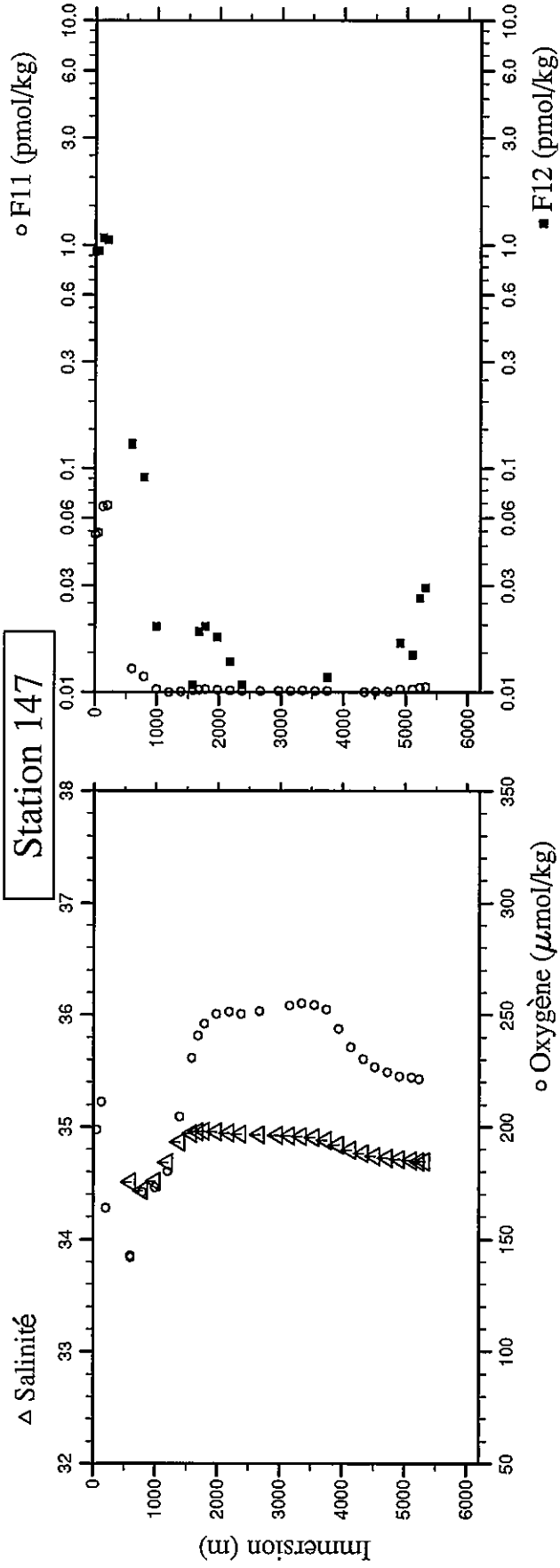
# Station 146



Station : 147 Campagne : CITHER 2  
 Date : 24-02-94 Heure : 14 h 6 mn  
 Position : S 10 57.13 W 30 27.43  
 Dernier niveau à : 5424  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSTION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	PH
dbar	metres	deg. cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
6.0	6.0	28.042	23.7960	36.862	r 196.8	0.04	0.075	1.1	1.6458	0.9384			8.384
51.7	51.4	27.712	24.1680	36.909	r 198.8	0.04	0.075	1.0	1.6652	0.9442			8.382
124.4	123.7	24.029	25.6212	36.922	r 211.3	0.04	0.159	1.1	1.9347	1.0799			8.340
200.9	199.7	16.774	27.0665	35.792	r 164.0	10.25	0.798	3.5	1.9501	1.0524			8.152
600.9	596.6	5.854	29.9312	34.498	r 142.9	33.64	2.239	23.2	0.2453	0.1281			7.847
601.0	596.7	5.855	29.9301	34.511	142.1	33.66	2.245	23.2	0.2428	0.1291			7.844
799.8	793.7	4.406	30.9746	34.434	171.1	33.84	2.273	31.5	0.1611	0.0910			7.869
1001.7	993.6	3.829	32.0307	34.512	173.1	32.95	2.258	37.0	0.0333	0.0196			7.863
1201.7	1191.4	3.883	33.0635	34.681	180.2	30.08	2.067	33.5	0.0034	0.0000			7.890
1400.2	1387.6	4.006	34.0878	34.865	204.6	25.23	1.717	25.1	0.0094	0.0039			7.942
1599.9	1584.7	3.800	35.0728	34.940	230.8	22.17	1.472	21.5	0.0212	0.0108			7.982
1702.4	1685.8	3.645	35.5707	34.958	240.6	21.08	1.394	20.8	0.0242	0.0186			7.996
1798.8	1780.9	3.476	36.0263	34.961	246.1	20.77	1.361	21.0	0.0287	0.0196			8.002
2000.5	1979.7	3.212	36.9666	34.958	250.3	20.46	1.350	23.0	0.0254	0.0176			8.008
2201.6	2177.6	2.962	37.8921	34.948	251.4	20.62	1.360	25.8	0.0191	0.0137			8.005
2399.9	2372.7	2.805	38.7891	34.938	250.4	20.70	1.378	28.8	0.0146	0.0108			8.003
2699.0	2666.5	2.633	40.1340	34.932	251.6	20.97	1.380	30.3	0.0150	0.0068			8.008
2998.7	2960.6	2.475	41.4687	34.924	254.1	20.85	1.385	32.3	0.0110	0.0068			8.014
3198.7	3156.6	2.392	42.3554	34.920	255.1	20.77	1.375	32.6	0.0121	0.0078			8.014
3399.8	3353.5	2.294	43.2425	34.915	255.1	20.74	1.377	33.7	0.0177	0.0098			8.010
3600.5	3549.8	2.154	44.1287	34.903	254.4	21.20	1.411	37.4	0.0118	0.0078			8.012
3799.6	3744.4	1.863	45.0226	34.878	252.3	22.21	1.485	46.0	0.0157	0.0117			8.008
3998.5	3938.7	1.506	45.9152	34.837	243.6	24.26	1.659	62.7	-0.0006	0.0010			7.994
4199.4	4134.7	1.070	46.8217	34.793	235.7	26.81	1.841	81.9	-0.0006	-0.0029			7.967
4401.0	4331.2	0.767	47.7200	34.761	230.2	28.94	1.973	94.8	0.0030	0.0049			7.944
4598.4	4523.5	0.555	48.5857	34.737	226.8	30.01	2.048	103.4	0.0079	0.0098			7.936
4798.5	4718.2	0.390	49.4570	34.722	224.4	30.77	2.096	109.4	0.0080	0.0020			7.925
4998.9	4913.0	0.274	50.3213	34.710	222.7	31.61	2.164	113.6	0.0290	0.0166			7.913
5197.4	5105.9	0.175	51.1742	34.701	222.1	32.26	2.187	117.2	0.0319	0.0147			7.904
5327.5	5232.2	0.102	51.7318	34.692	221.3	32.16	2.216	120.1	0.0520	0.0264			7.903
5420.2	5322.1	0.087	52.1237	34.693	251.7	32.26	2.216	120.5	0.0539	0.0293			7.898

# Station 147

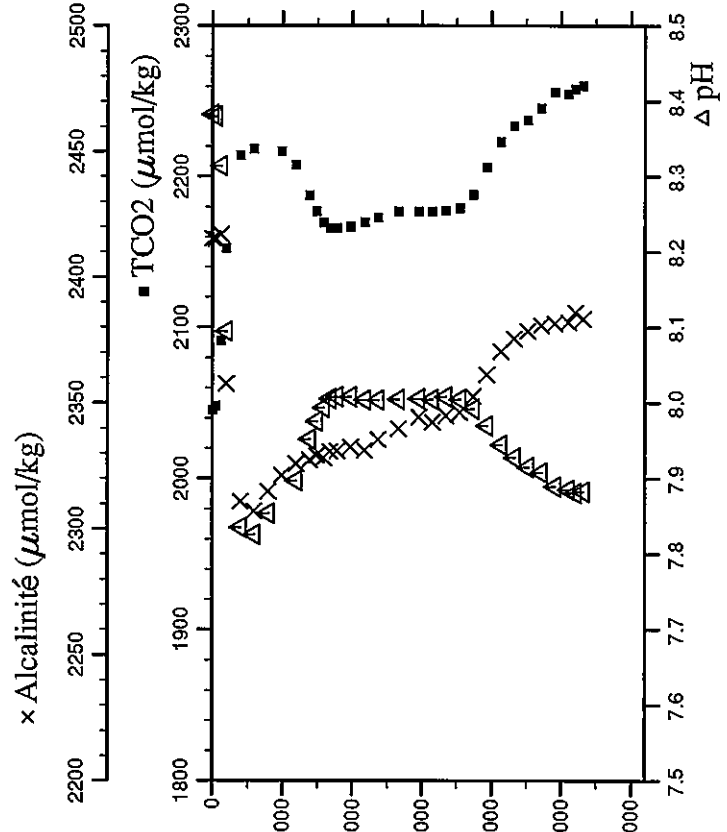
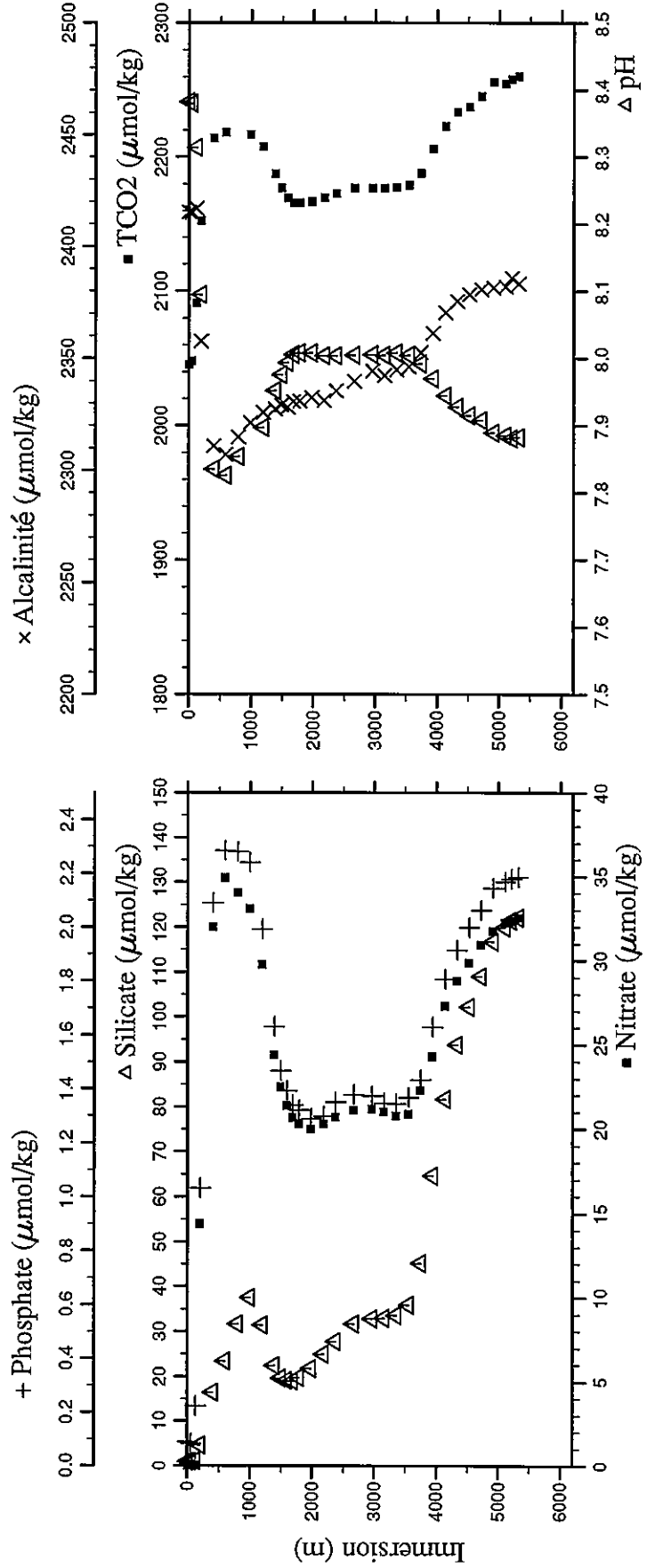
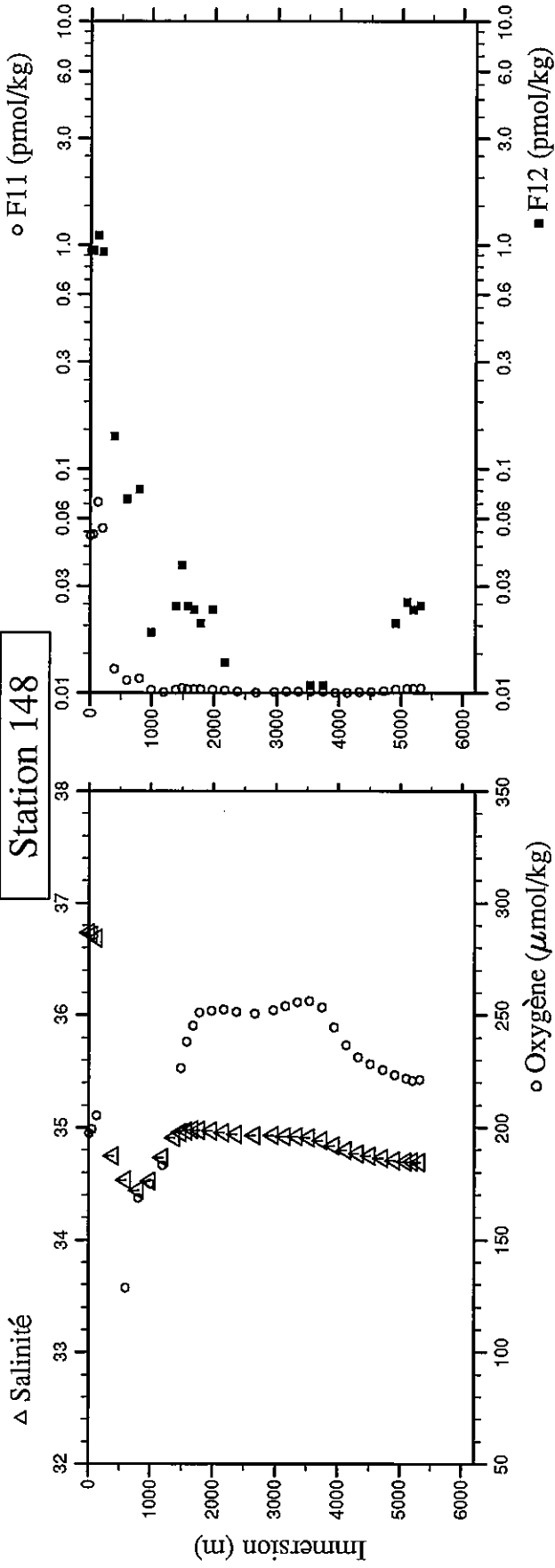


Station : 148 Campagne : CITHER 2  
 Date : 24-02-94 Heure : 20 h 40 mn  
 Position : S 10 27.40 W 30 25.96  
 Dernier niveau à : 5417  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	PH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.1	5.1	28.049	23.7018	36.736	197.4	0.00	0.090	1.0	1.6403	0.9482	2045.62	2415.3	8.383
51.4	51.1	27.964	23.9170	36.714	199.2	0.04	0.084	1.0	1.6541	0.9394	2048.17	2415.0	8.380
124.6	123.9	22.905	25.7689	36.684	205.4	0.04	0.223	1.1	1.9904	1.1045	2090.72	2416.8	8.314
200.1	198.9	16.114	27.1621	35.722	142.3	14.41	1.032	4.6	1.7151	0.9294	2152.10	2357.5	8.095
401.2	398.5	8.328	28.8478	34.750	106.0	32.01	2.089	16.4	0.2491	0.1398	2214.30	2310.8	7.835
599.8	595.5	6.040	29.9239	34.536	128.6	34.92	2.285	23.4	0.1324	0.0734	2218.28	2307.1	7.826
800.7	794.6	4.429	30.9806	34.443	168.8	34.04	2.281	31.7	0.1514	0.0812	2210.90	2314.8	7.854
1000.6	992.5	3.791	32.0335	34.524	175.2	33.09	2.240	37.6	0.0341	0.0186	2216.50	2321.3	7.897
1200.8	1190.6	3.968	33.0830	34.733	183.1	29.76	1.993	31.4	0.0071	0.0010	2207.63	2325.9	7.897
1398.9	1386.3	4.154	34.0930	34.910	210.6	24.42	1.630	22.4	0.0314	0.0244	2187.40	2327.3	7.952
1499.3	1485.5	4.074	34.5932	34.957	226.4	22.51	1.468	19.6	0.0496	0.0372	2176.85	2329.2	7.976
1599.4	1584.3	3.875	35.0829	34.972	238.1	21.39	1.393	19.1	0.0371	0.0244	2169.27	2328.0	7.994
1700.7	1684.2	3.682	35.5694	34.980	245.2	20.69	1.339	19.0	0.0350	0.0235	2165.80	2330.6	8.006
1799.1	1781.2	3.541	36.0310	34.979	251.1	20.30	1.320	19.7	0.0375	0.0205	2166.04	2331.0	8.008
1999.7	1978.9	3.276	36.9605	34.972	251.9	19.99	1.288	21.8	0.0328	0.0235	2166.66	2332.4	8.008
2199.6	2175.7	3.056	37.8760	34.957	252.4	20.30	1.298	25.0	0.0237	0.0137	2169.47	2331.2	8.004
2399.3	2372.1	2.857	38.7843	34.943	251.4	20.72	1.350	27.7	0.0148	0.0068	2172.47	2335.4	8.004
2699.9	2667.5	2.633	40.1377	34.929	250.6	21.11	1.377	31.7	0.0028	0.0049	2176.66	2339.7	8.005
2998.5	2960.4	2.484	41.4702	34.932	252.1	21.18	1.373	32.9	0.0053	0.0049	2176.77	2344.4	8.006
3198.2	3156.2	2.399	42.3549	34.923	254.0	21.03	1.346	33.0	0.0110	0.0059	2176.64	2342.2	8.005
3397.7	3351.5	2.307	43.2362	34.922	255.6	20.79	1.345	33.6	0.0154	0.0098	2177.21	2344.8	8.008
3596.3	3545.8	2.175	44.1134	34.910	256.3	20.87	1.367	35.9	0.0127	0.0108	2179.11	2346.1	8.005
3799.8	3744.7	1.901	45.0230	34.883	253.4	22.30	1.433	45.2	0.0112	0.0108	2187.87	2352.5	7.992
4000.2	3940.4	1.500	45.9253	34.840	244.4	24.32	1.627	64.6	0.0005	0.0029	2205.92	2361.2	7.970
4200.1	4135.4	1.122	46.8229	34.800	236.5	27.30	1.805	81.6	0.0016	0.0010	2223.11	2370.2	7.945
4400.7	4331.0	0.850	47.7128	34.770	231.3	28.79	1.913	93.7	0.0050	0.0059	2233.72	2375.4	7.928
4599.0	4524.1	0.651	48.5795	34.748	228.2	29.87	1.999	102.1	0.0099	0.0068	2237.39	2378.5	7.915
4798.8	4718.6	0.465	49.4526	34.726	225.6	30.96	2.063	109.0	0.0170	0.0068	2245.58	2380.7	7.908
4998.5	4912.7	0.276	50.3238	34.708	223.4	31.76	2.146	116.7	0.0361	0.0205	2255.90	2381.5	7.890
5195.7	5104.3	0.158	51.1718	34.699	221.9	32.25	2.169	119.9	0.0421	0.0254	2254.90	2382.1	7.885
5298.0	5203.6	0.132	51.6066	34.696	220.8	32.34	2.178	121.4	0.0423	0.0235	2258.22	2385.7	7.881
5416.8	5318.9	0.112	52.1101	34.693	221.4	32.54	2.186	122.1	0.0484	0.0245	2260.53	2383.3	7.883

d

# Station 148

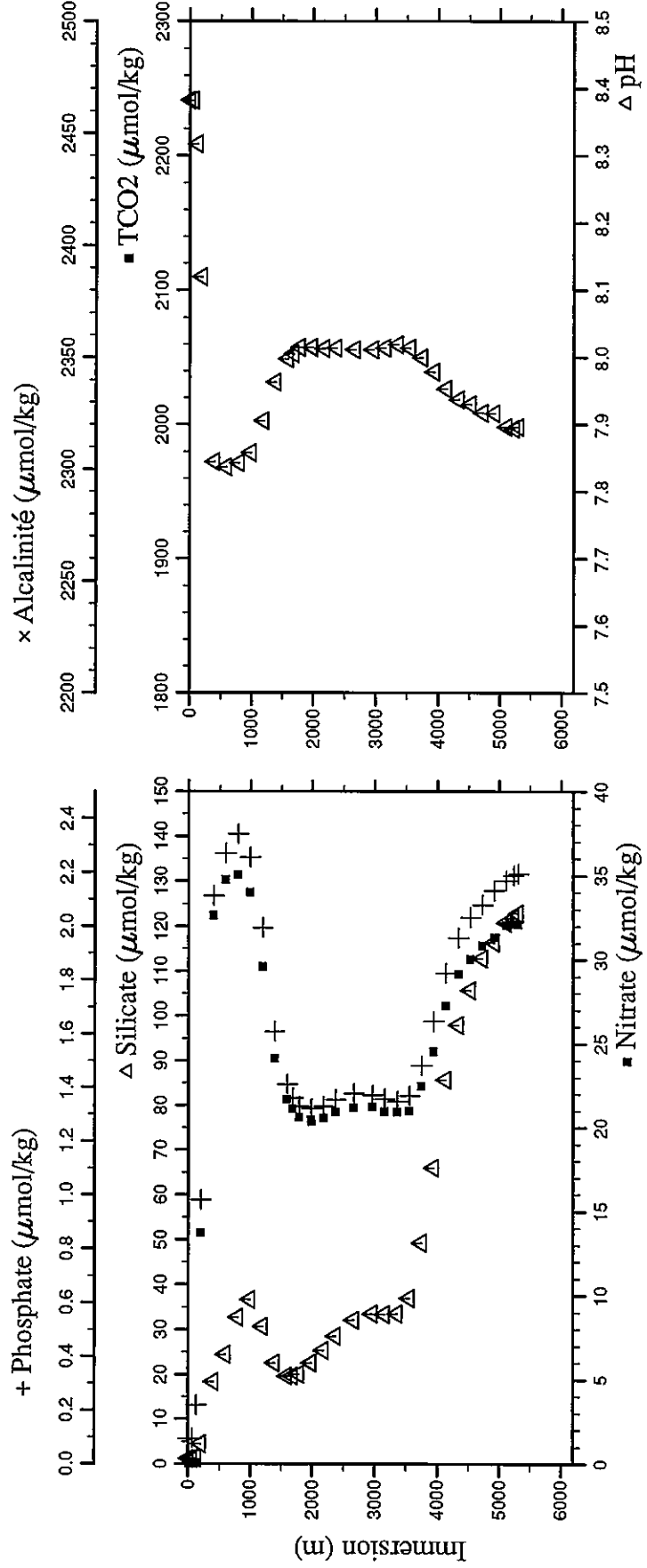
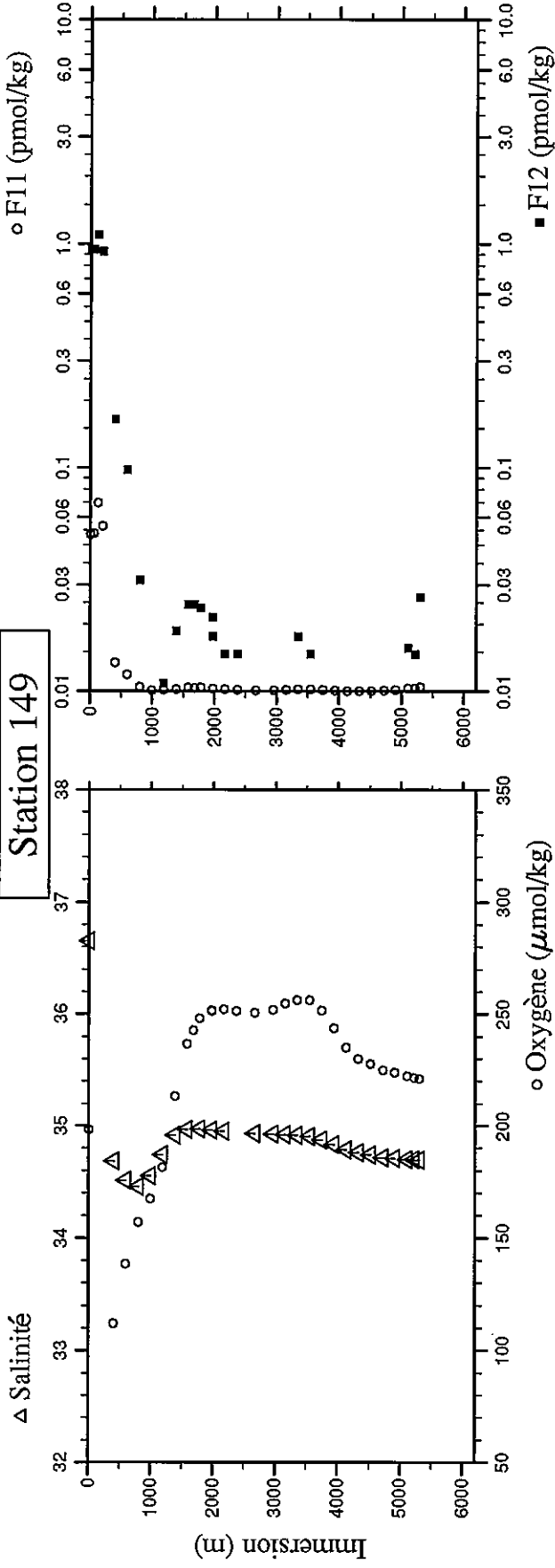




Station : 149 Campagne : CITHER 2  
 Date : 25-02-94 Heure : 3 h 35 mn  
 Position : S 9 57.56 W 30 24.35  
 Dernier niveau à : 5400  
 Nb prélèvements : 32

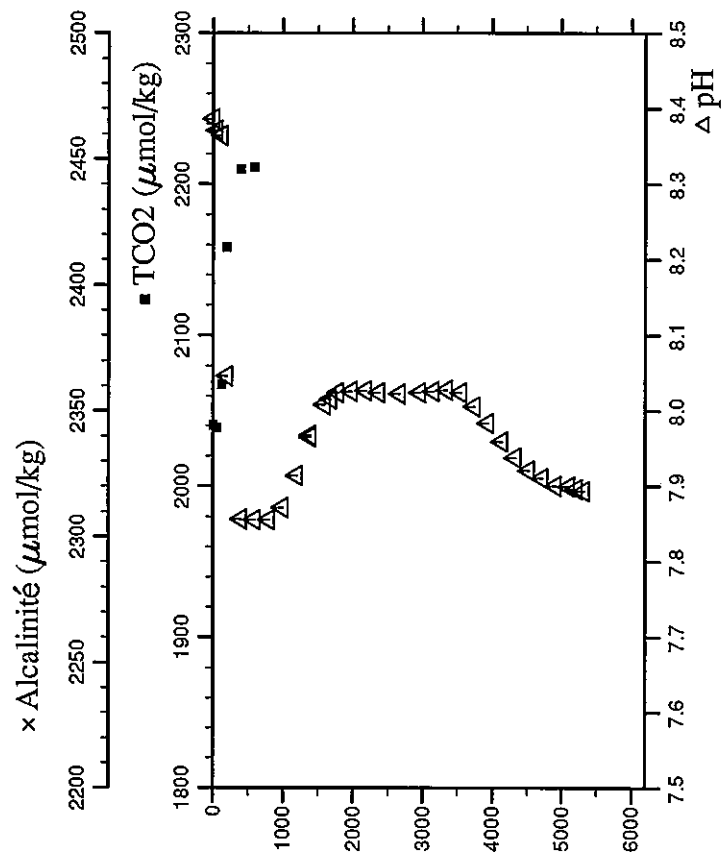
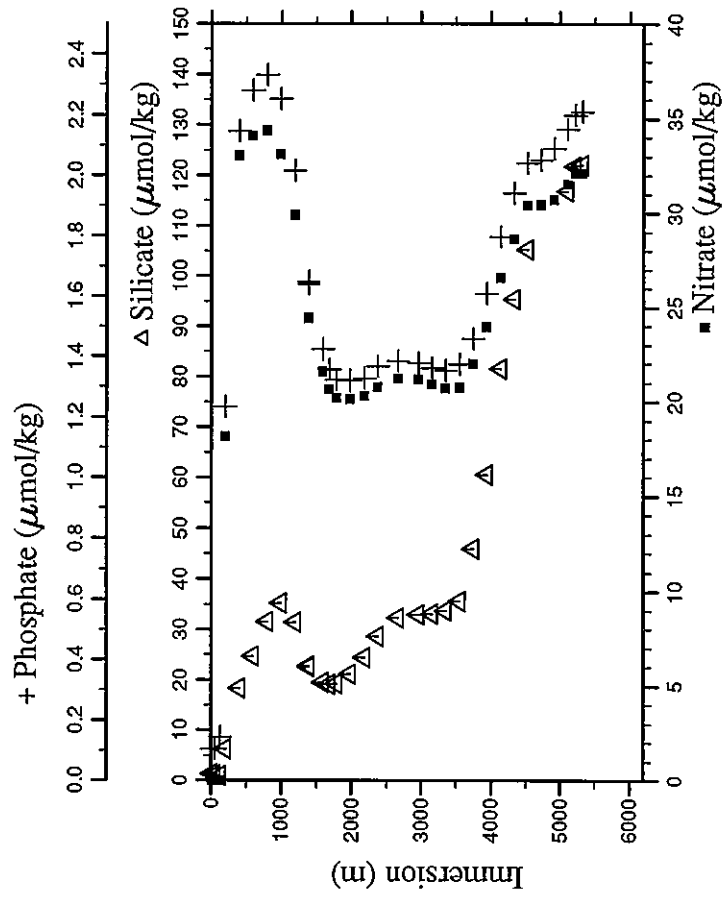
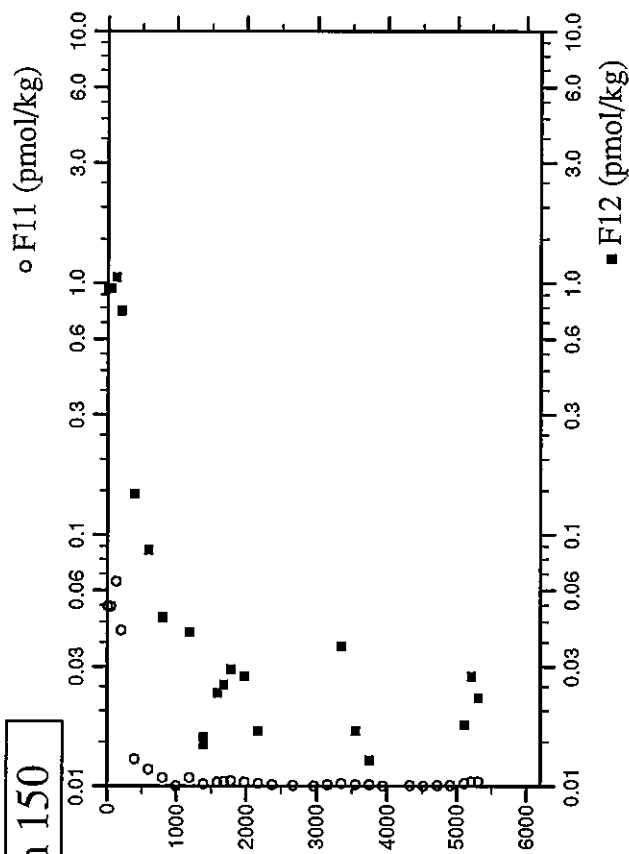
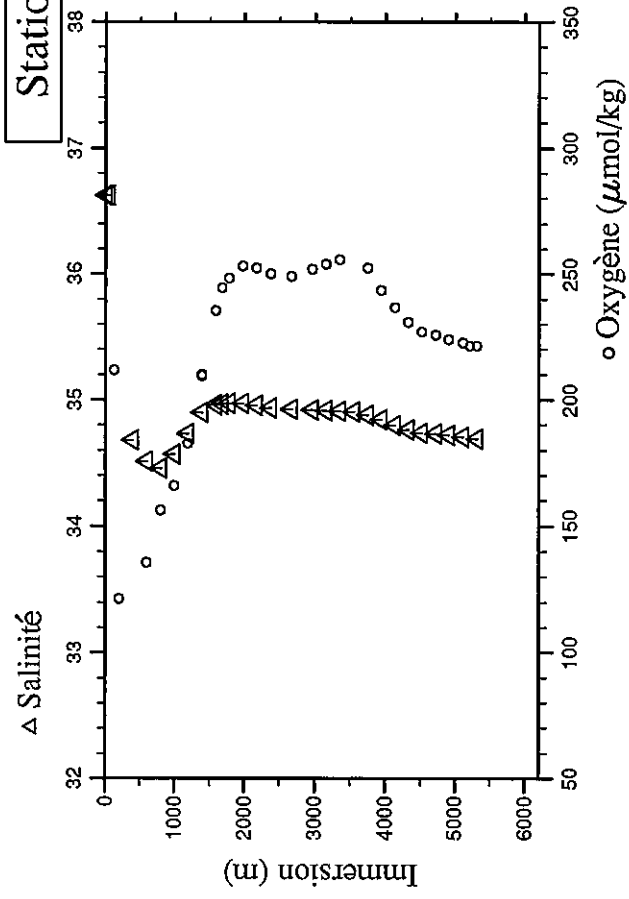
PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	PH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.7	4.7	27.852	23.7087	36.656	198.2	0.04	0.093	1.2	1.6335	0.9463			8.383
61.7	61.3	27.844	23.9560	36.668	198.9	0.04	0.093	1.2	1.6475	0.9434			8.383
126.2	125.4	22.249	25.9107	36.731	143.7	0.08	0.219	1.3	1.9670	1.0938			8.318
202.1	200.9	15.907	27.1783	35.794	104.3	13.72	0.982	4.5	1.7244	0.9275			8.120
402.2	399.5	7.777	28.8836	34.686	112.0	32.66	2.114	18.4	0.2970	0.1643			7.845
600.4	596.1	5.824	29.9398	34.516	138.4	34.75	2.271	24.5	0.1739	0.0978			7.837
802.2	796.1	4.467	30.9952	34.459	157.0	35.05	2.342	32.7	0.0429	0.0313			7.843
998.0	990.0	3.932	32.0329	34.555	167.5	34.00	2.256	36.6	0.0066	0.0059			7.858
1200.7	1190.5	4.027	33.0863	34.743	181.5	29.61	1.994	30.7	0.0151	0.0108			7.906
1399.5	1386.9	4.143	34.1009	34.914	213.2	24.14	1.608	22.6	0.0216	0.0186			7.963
1599.2	1584.1	3.908	35.0734	34.966	236.5	21.69	1.411	19.6	0.0400	0.0244			7.998
1699.8	1683.3	3.745	35.5520	34.976	242.7	21.11	1.362	19.6	0.0336	0.0244			8.006
1801.7	1783.8	3.595	36.0330	34.972	248.1	20.61	1.329	20.0	0.0346	0.0235			8.015
1999.0	1978.2	3.295	36.9515	34.963	251.4	20.45	1.321	22.6	0.0260	0.0176			8.015
2000.5	1979.7	3.294	36.9577	34.963	251.6	20.33	1.321	22.6	0.0242	0.0215			8.015
2198.3	2174.5	3.072	37.8637	34.953	252.1	20.58	1.329	25.4	0.0172	0.0147			8.013
2401.7	2374.5	2.854	38.7926	34.935	251.4	20.91	1.355	28.5	0.0144	0.0147			8.014
2699.1	2666.7	2.656	40.1289	34.931	250.5	21.18	1.379	32.1	0.0098	0.0059			8.012
2999.4	2961.4	2.507	41.4682	34.924	251.8	21.26	1.372	33.5	0.0083	0.0068			8.012
3199.9	3157.9	2.423	42.3569	34.921	254.7	20.95	1.357	33.3	0.0133	0.0059			8.014
3398.2	3352.0	2.337	43.2329	34.918	256.2	20.91	1.348	33.5	0.0212	0.0176			8.019
3599.5	3549.0	2.168	44.1260	34.905	256.1	20.98	1.369	36.9	0.0189	0.0147			8.014
3797.5	3742.5	1.818	45.0191	34.875	251.6	22.49	1.481	49.2	0.0141	0.0098			8.000
3999.3	3939.6	1.481	45.9211	34.833	243.8	24.54	1.647	66.0	0.0101	0.0078			7.979
4197.4	4132.9	1.068	46.8142	34.786	235.2	27.25	1.826	85.7	0.0023	0.0039			7.953
4398.6	4329.0	0.769	47.7079	34.762	230.1	29.16	1.956	97.9	0.0034	0.0049			7.937
4597.9	4523.1	0.586	48.5806	34.743	227.8	30.05	2.032	105.7	0.0037	0.0010			7.930
4798.0	4717.9	0.417	49.4530	34.719	224.8	30.86	2.079	112.8	0.0104	0.0039			7.918
4996.0	4910.4	0.314	50.3060	34.714	224.0	31.33	2.132	116.4	0.0124	0.0068			7.917
5198.9	5107.5	0.200	51.1781	34.703	222.4	32.08	2.169	120.8	0.0288	0.0156			7.896
5319.3	5224.4	0.178	51.6886	34.702	221.7	32.12	2.187	121.8	0.0335	0.0147			7.894
5401.0	5303.7	0.143	52.0366	34.698	221.2	32.11	2.193	122.8	0.0422	0.0264			7.896

# Station 149



Station : 150 Campagne : CITHER 2  
 Date : 25-02-94 Heure : 10 h 4 mn  
 Position : S 9 27.75 W 30 22.65  
 Dernier niveau à : 5411  
 Nb prélèvements : 32

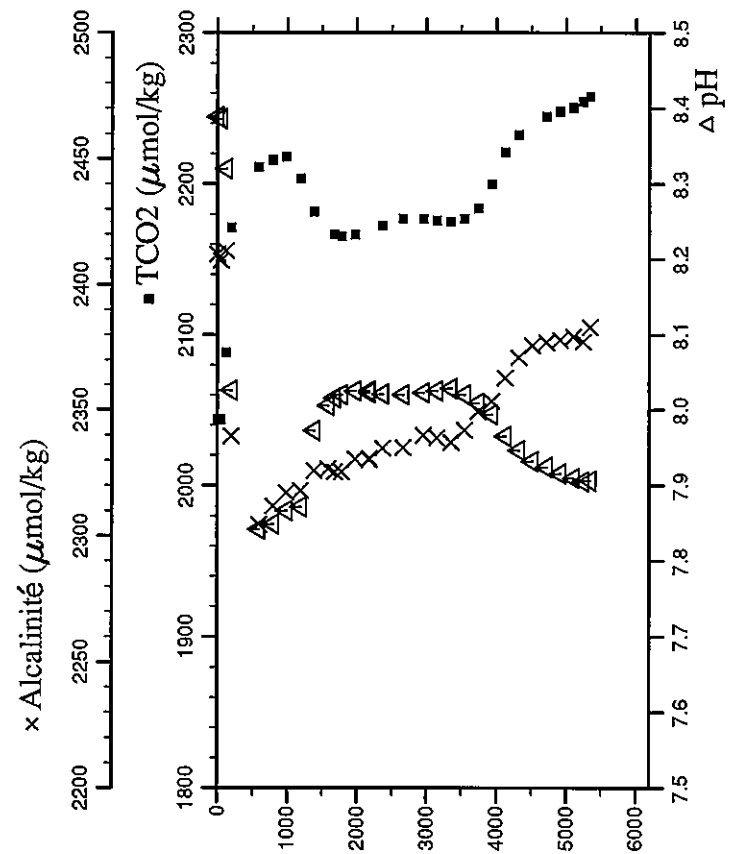
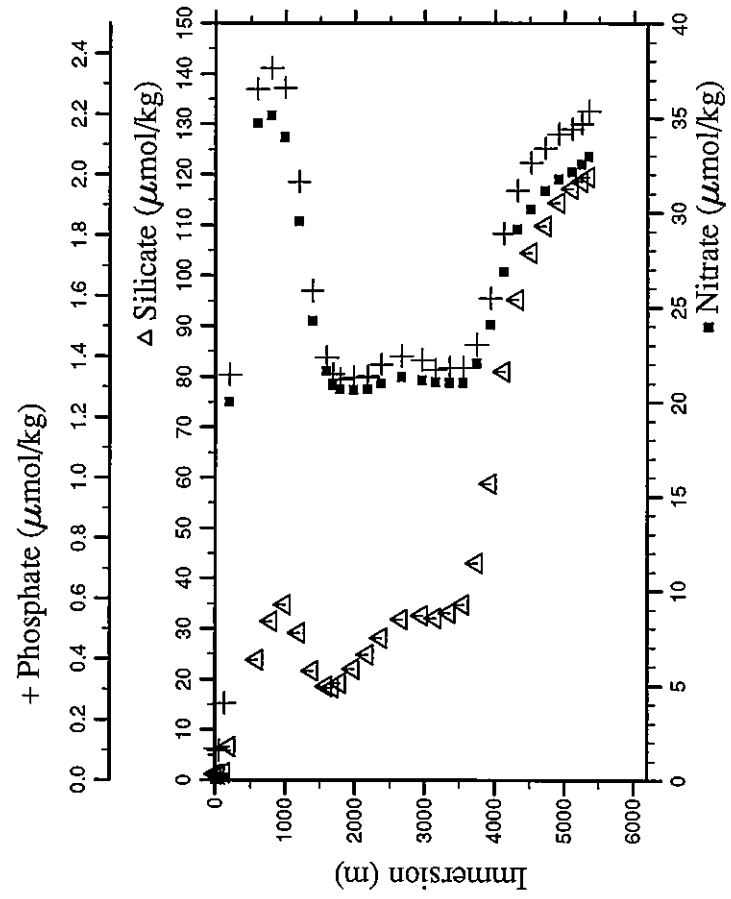
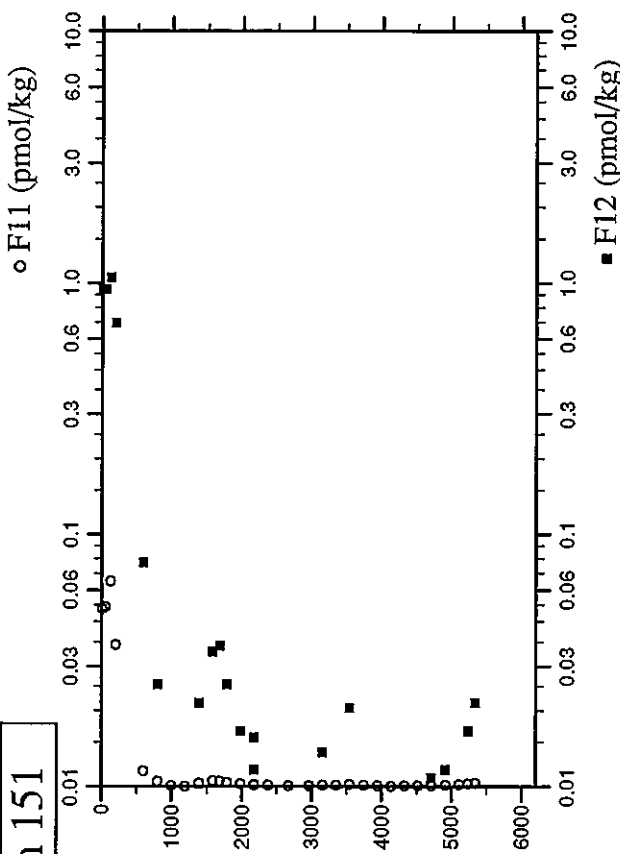
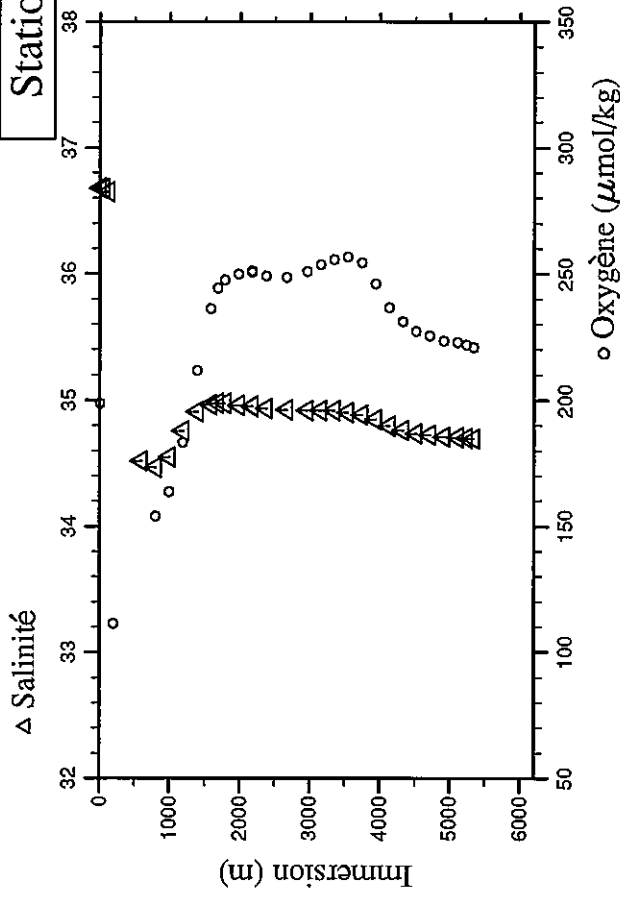
PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.1	7.1	27.772	23.7219	36.625	198.8	0.00	0.105	1.3	1.6693	0.9483	2040.38		8.386
51.1	50.8	27.663	23.9403	36.622	199.1	0.00	0.105	1.1	1.6665	0.9502	2038.73		8.371
125.5	124.8	24.601	25.4445	36.902	211.7	0.00	0.144	1.0	1.8991	1.0506	2067.55		8.364
199.5	198.3	14.855	27.3158	35.552	121.5	18.17	1.234	6.3	1.4518	0.7760	2158.34		8.046
400.3	397.7	7.736	28.8787	34.681	107.9	33.06	2.148	18.4	0.2499	0.1457	2210.08		7.857
601.7	597.4	5.816	29.9465	34.515	135.7	34.09	2.281	24.7	0.1538	0.0871	2211.17		7.856
801.5	795.4	4.559	30.9796	34.456	156.3	34.37	2.332	31.6	0.0765	0.0470			7.856
999.6	991.6	3.948	32.0484	34.570	165.8	33.11	2.254	35.2	0.0023	0.0059			7.872
1200.2	1190.0	4.011	33.0747	34.730	182.8	29.90	2.016	31.4	0.0815	0.0411			7.914
1399.2	1386.7	4.167	34.0876	34.902	210.0	24.43	1.641	22.6	0.0218	0.0156			7.968
1399.3	1386.8	4.165	34.0890	34.902	210.0	24.39	1.649	22.8	0.0222	0.0147			7.965
1602.2	1587.1	3.912	35.0856	34.961	235.3	21.60	1.425	19.5	0.0396	0.0235			8.008
1699.7	1683.3	3.718	35.5574	34.968	244.4	20.64	1.356	19.1	0.0407	0.0254			8.016
1798.0	1780.2	3.595	36.0169	34.974	248.2	20.21	1.323	19.3	0.0473	0.0293			8.024
1999.8	1979.1	3.344	36.9506	34.971	253.1	20.13	1.321	21.2	0.0346	0.0274			8.026
2199.2	2175.4	3.073	37.8701	34.956	252.4	20.29	1.328	24.5	0.0245	0.0166			8.027
2399.6	2372.5	2.852	38.7813	34.935	250.2	20.79	1.367	28.6	0.0122	0.0088			8.024
2698.9	2666.6	2.635	40.1282	34.927	249.1	21.22	1.385	32.4	0.0067	0.0098			8.023
2999.1	2961.1	2.493	41.4677	34.922	251.9	21.17	1.378	33.0	0.0046	0.0049			8.024
3198.4	3156.4	2.402	42.3530	34.916	254.0	20.90	1.360	33.1	0.0156	0.0078			8.026
3396.7	3350.6	2.301	43.2291	34.913	255.6	20.70	1.353	33.7	0.0236	0.0362			8.028
3602.4	3551.9	2.180	44.1359	34.907	260.5	20.74	1.373	35.7	0.0162	0.0166			8.024
3798.5	3743.5	1.883	45.0154	34.881	252.4	22.01	1.458	45.9	0.0155	0.0127			8.006
3996.3	3936.7	1.550	45.9004	34.843	243.4	23.95	1.608	60.6	0.0047	0.0078			7.984
4199.7	4135.2	1.121	46.8187	34.797	236.7	26.56	1.798	81.5	-0.0024	0.0020			7.959
4398.9	4329.4	0.792	47.7079	34.764	230.8	28.63	1.942	95.4	0.0051	0.0049			7.938
4598.6	4523.9	0.555	48.5878	34.736	227.0	30.41	2.042	105.3	0.0021	0.0049			7.921
4798.0	4717.9	0.480	49.4457	34.730	225.9	30.44	2.052	107.6	0.0085	0.0078			7.911
4994.8	4909.3	0.368	50.2935	34.720	223.8	30.72	2.090	112.2	0.0102	0.0098			7.901
5199.0	5107.7	0.226	51.1750	34.706	222.6	31.54	2.153	116.9	0.0231	0.0176			7.900
5308.2	5213.7	0.117	51.6486	34.684	221.3	32.13	2.199	121.8	0.0441	0.0274			7.896
5411.8	5314.2	0.112	52.0848	34.693	221.3	32.12	2.211	122.1	0.0423	0.0225			7.894



Station : 151 Campagne : CITHR 2  
 Date : 27-02-94 Heure : 22 h 33 mn  
 Position : S 8 57.96 W 30 21.10  
 Dernier niveau à : 5443  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSTION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.FOT. NITE	ALCALI- NITE	PH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.9	7.9	27.766	23.7687	36.681	198.8	0.04	0.104	1.2	1.6481	0.9453	2043.67	2411.9	8.389
52.6	52.3	27.757	23.9570	36.674		0.04	0.098	1.2	1.6607	0.9453	2043.41	2409.4	8.386
127.1	126.3	22.872	25.7605	36.648	199.6	r	0.256	1.4	1.9021	1.0538	2088.21	2413.2	8.320
199.7	198.5	14.503	27.3725	35.508	111.2	r	1.340	6.7	1.3102	0.6959	2170.78	2339.6	8.026
602.1	597.8	5.859	29.9432	34.517	134.5	r	2.282	23.8	0.1423	0.0773	2211.10	2304.4	7.842
801.1	795.1	4.522	30.9883	34.466	154.1		2.353	31.4	0.0499	0.0254	2215.77	2311.7	7.849
997.3	989.3	3.990	32.0177	34.551	163.6		2.286	34.8	0.0069	0.0068	2217.84	2317.2	7.867
1198.2	1188.0	4.047	33.0837	34.756	183.1		1.975	29.1	0.0011	0.0049	2203.59	2318.0	7.872
1399.6	1387.1	4.178	34.0952	34.911	211.7		1.617	21.7	0.0315	0.0215	2181.37	2325.8	7.973
1599.2	1584.1	3.932	35.0724	34.967	236.2		1.397	18.6	0.0530	0.0342	2166.09	2326.5	8.006
1899.0	1882.6	3.748	35.5524	34.975	244.2		1.342	18.4	0.0508	0.0362	2166.09	2325.2	8.016
1999.0	1782.6	3.589	36.0281	34.975	247.6		1.324	19.2	0.0366	0.0254	2164.81	2325.4	8.020
1999.0	1978.3	3.297	36.9497	34.963	249.8		1.331	22.0	0.0263	0.0166	2166.18	2330.4	8.025
2197.8	2174.0	3.051	37.8637	34.951	250.5		1.332	24.9	0.0182	0.0117	2330.1	2330.1	8.023
2197.8	2174.0	3.052	37.8637	34.954	251.2		1.335	24.9	0.0168	0.0156	2330.6	2330.6	8.025
2400.5	2373.4	2.841	38.7867	34.937	249.0		1.374	28.2	0.0137	0.0088	2172.40	2334.7	8.021
2700.2	2667.9	2.621	40.1362	34.926	248.5		1.401	31.8	0.0050	0.0059	2176.74	2335.0	8.020
2998.9	2961.0	2.481	41.4697	34.921	250.8		1.389	32.6	0.0085	0.0068	2176.80	2339.8	8.023
3199.3	3157.4	2.405	42.3576	34.922	253.6		1.357	32.1	0.0121	0.0137	2175.49	2338.7	8.025
3398.6	3352.5	2.284	43.2426	34.919	255.7		1.364	33.1	0.0115	0.0068	2174.89	2337.0	8.029
3596.9	3546.5	2.152	44.1158	34.906	256.7		1.364	34.8	0.0177	0.0205	2176.74	2341.9	8.020
3797.1	3742.2	1.931	45.0071	34.885	254.3		1.440	43.0	0.0139	0.0078	2183.63	2349.3	8.009
3996.8	3937.3	1.599	45.9006	34.848	246.0		1.593	58.8	0.0050	0.0049	2199.94	2353.2	7.994
4195.9	4131.5	1.127	46.8035	34.798	236.7		1.806	81.0	0.0031	0.0039	2221.05	2362.6	7.965
4395.9	4326.5	0.781	47.6978	34.763	230.9		1.948	95.3	0.0050	0.0068	2232.49	2370.9	7.946
4594.8	4520.2	0.562	48.5718	34.740	227.1		2.038	104.5	0.0099	0.0059	2375.7	2375.7	7.932
4796.7	4716.7	0.434	49.4464	34.727	225.3		2.087	109.9	0.0105	0.0108	2244.56	2376.8	7.924
4998.2	4912.7	0.316	50.3160	34.713	223.5		2.134	114.5	0.0150	0.0117	2248.25	2377.9	7.916
5197.6	5106.4	0.238	51.1692	34.707	222.9		2.151	117.3	0.0196	0.0088	2250.44	2379.2	7.910
5336.8	5241.5	0.185	51.7621	34.702	221.9		2.168	118.7	0.0245	0.0166	2254.45	2377.2	7.906
5441.6	5343.2	0.149	52.2064	34.697	220.9		2.210	119.6	0.0330	0.0215	2257.98	2382.9	7.907

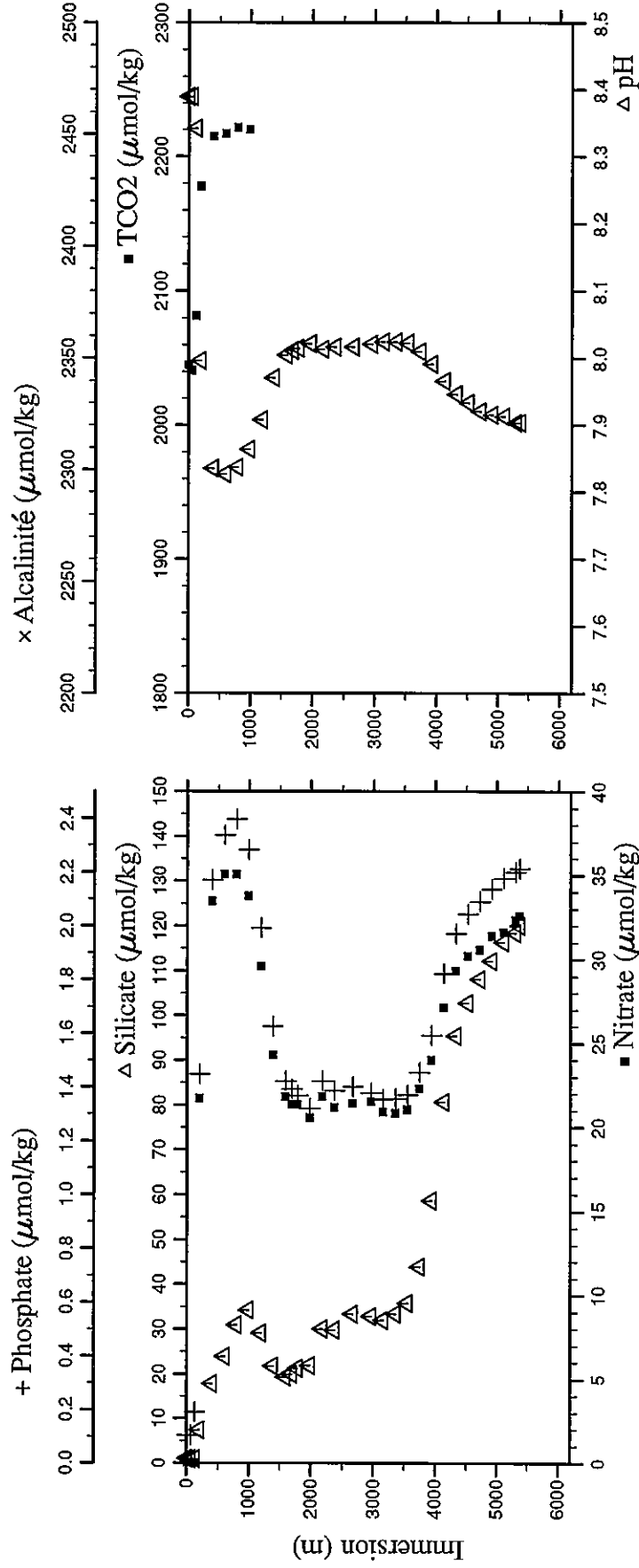
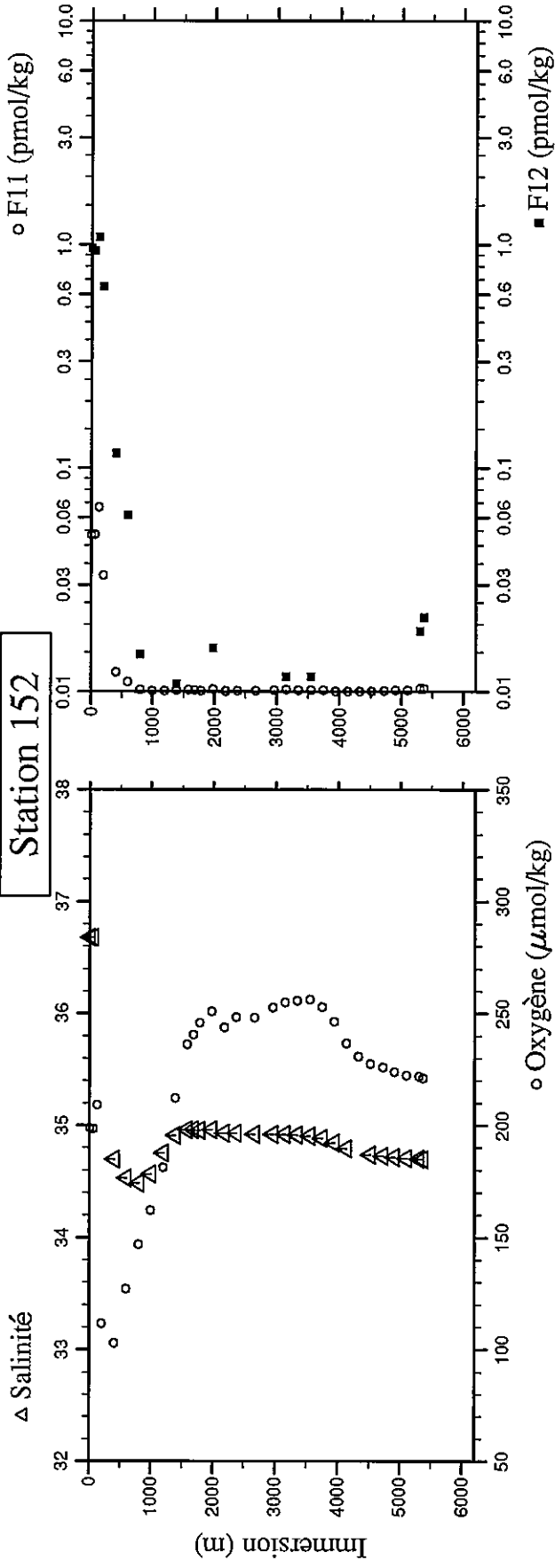
# Station 151



Station : 152 Campagne : CITHER 2  
 Date : 28-02-94 Heure : 4 h 46 mn  
 Position : S 8 28.06 W 30 19.42  
 Dernier niveau à : 5468  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSTION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.9	4.9	27.690	23.7814	36.680	198.7	0.04	0.104	1.1	1.6314	0.9561	2044.88		8.390
61.3	60.9	27.692	24.0192	36.682	198.4	0.04	0.104	1.0	1.6399	0.9356	2040.66		8.390
126.0	125.3	23.551	25.6935	36.795	209.1	0.04	0.192	1.0	1.9212	1.0751	2081.66		8.342
200.6	199.4	14.110	27.3916	35.416	111.5	21.74	1.448	7.4	1.2111	0.6490	2177.67		7.996
402.3	399.7	7.755	28.8943	34.696	102.8	33.45	2.171	17.9	0.2040	0.1164	2214.78		7.835
603.3	599.0	5.881	29.9527	34.527	127.1	35.04	2.337	23.9	0.1031	0.0616	2217.21		7.827
800.9	794.9	4.614	30.9857	34.481	146.8	35.05	2.397	31.0	0.0216	0.0147	2221.84		7.837
1000.9	992.9	4.035	32.0417	34.567	162.1	33.75	2.283	34.3	0.0077	0.0078	2219.95		7.864
1201.5	1191.3	4.077	33.0918	34.752	181.2	29.58	1.993	29.2	0.0050	0.0010			7.908
1401.5	1389.0	4.110	34.1120	34.909	212.3	24.31	1.625	21.8	0.0130	0.0108			7.971
1600.2	1585.1	3.835	35.0841	34.961	236.0	21.82	1.423	19.4	0.0193	0.0098			8.005
1701.4	1685.0	3.667	35.5634	34.963	240.3	21.37	1.393	20.0	0.0128	0.0088			8.012
1799.2	1781.4	3.508	36.0234	34.958	245.8	21.35	1.369	21.3	0.0079	0.0059			8.015
1998.2	1977.5	3.273	36.9495	34.963	250.9	20.58	1.321	21.9	0.0247	0.0156			8.022
2200.4	2176.6	2.931	37.8797	34.931	243.6	21.82	1.422	30.0	0.0043	0.0010			8.013
2200.7	2176.9	2.931	37.8809						0.0059	0.0039			
2399.8	2372.8	2.812	38.7843	34.930	248.4	21.20	1.387	29.8	0.0092	0.0078			8.017
2701.4	2669.1	2.602	40.1421	34.923	248.1	21.43	1.402	33.3	0.0050	0.0010			8.017
2999.8	2969.1	2.484	41.4722	34.921	252.5	21.51	1.379	32.8	0.0112	0.0068			8.021
3198.5	3156.6	2.401	42.3547	34.919	254.9	20.93	1.354	32.0	0.0224	0.0117			8.024
3400.1	3354.0	2.294	43.2462	34.915	255.7	20.85	1.356	33.3	0.0143	0.0078			8.024
3599.5	3549.1	2.150	44.1273	34.903	256.3	21.05	1.372	35.8	0.0166	0.0117			8.023
3798.8	3743.9	1.923	45.0144	34.885	253.0	22.29	1.455	43.9	0.0116	0.0068			8.010
3997.8	3938.3	1.590	45.9051	34.844	246.2	24.00	1.591	58.6	0.0047	0.0068			7.991
4200.4	4136.0	1.103	46.8245	34.796	236.6	27.11	1.823	80.7	0.0035	0.0020			7.966
4399.8	4330.4	0.741	47.7180	34.745	230.7	29.31	1.972	95.4	0.0041	0.0039			7.946
4599.0	4524.4	0.578	48.5874	34.740	227.4	30.19	2.043	102.8	0.0038	0.0059			7.934
4799.1	4719.1	0.447	49.4540	34.726	225.9	30.59	2.089	108.1	0.0091	0.0098			7.921
4995.9	4910.5	0.341	50.3023	34.718	224.0	31.39	2.136	112.2	0.0119	0.0059			7.916
5193.1	5102.1	0.233	51.1495	34.708	222.4	31.64	2.177	116.4	0.0147	0.0098			7.913
5398.5	5301.5	0.172	52.0221	34.700	221.8	32.34	2.200	118.4	0.0301	0.0186			7.904
5462.8	5363.8	0.142	52.2964	34.696	221.2	32.59	2.212	120.0	0.0345	0.0215			7.904

# Station 152

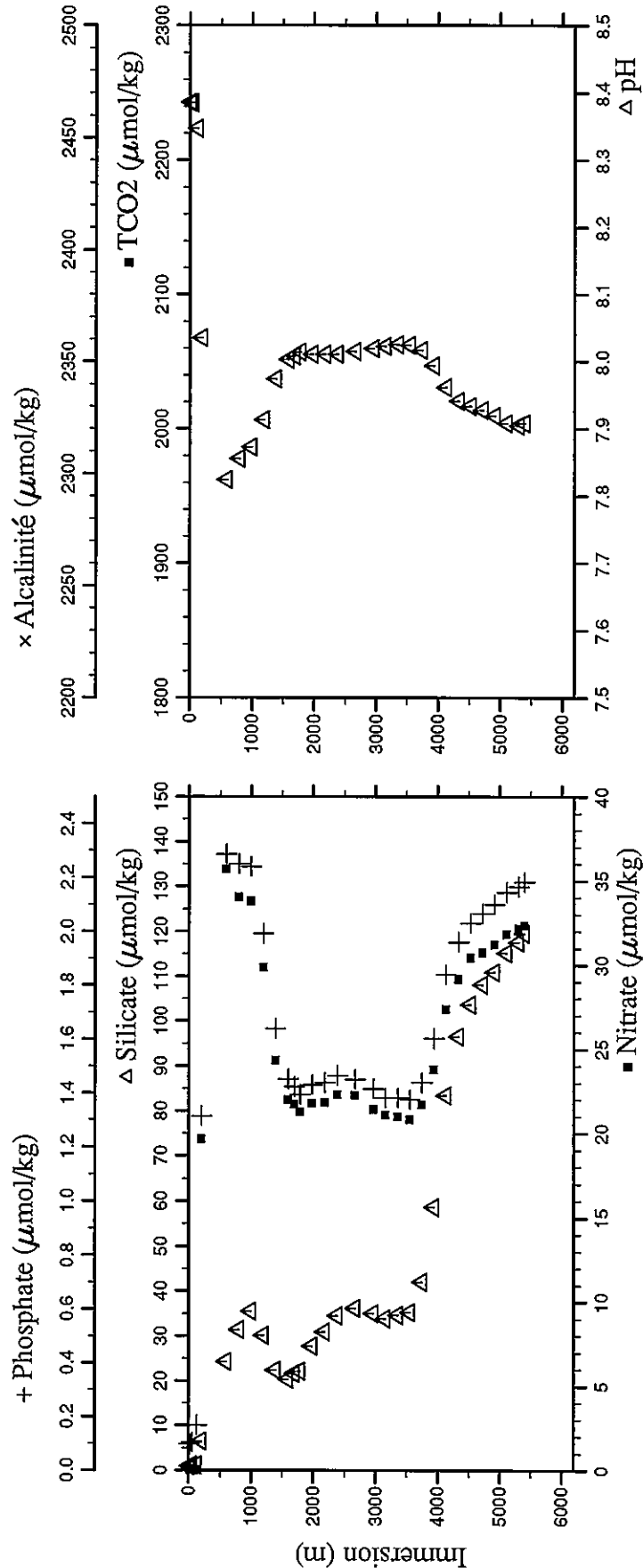
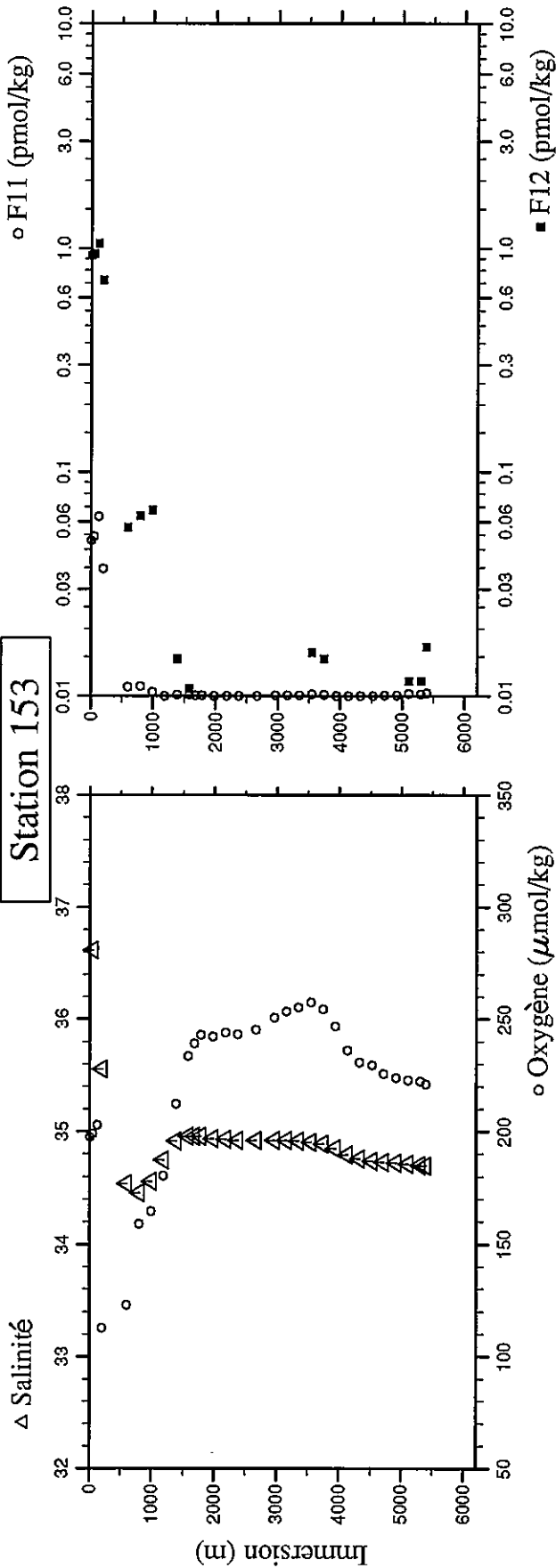




Station : 153 Campagne : CITHER 2  
 Date : 28-02-94 Heure : 10 h 58 mn  
 Position : S 7 58.35 W 30 17.85  
 Dernier niveau à : 5496  
 Nb prélèvements : 31

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
9.0	8.9	27.949	23.6165	36.561	197.4	0.04	0.098	1.0	1.6242	0.9317			8.386
51.2	50.9	27.656	23.9394	36.619	199.1	0.04	0.104	1.2	1.6639	0.9493			8.385
125.3	124.6	24.163	25.5334	36.832	202.9	0.04	0.169	1.2	1.8734	1.0507			8.347
201.1	199.9	14.865	27.3175	35.556	112.8	19.66	1.315	6.5	1.3264	0.7184			8.035
599.5	595.3	6.029	29.9246	34.540	122.9	35.71	2.286	24.3	0.0992	0.0567			7.824
801.1	795.1	4.579	30.9749	34.456	159.1	34.02	2.251	31.4	0.1021	0.0636			7.856
1001.7	993.7	4.002	32.0443	34.559	164.7	33.80	2.241	35.5	0.0417	0.0675			7.873
1200.0	1189.9	4.060	33.0845	34.746	180.3	29.87	1.992	30.2	0.0018	0.0020			7.913
1400.5	1388.0	4.146	34.1061	34.917	212.2	24.33	1.638	22.4	0.0148	0.0147			7.974
1599.0	1584.0	3.846	35.0740	34.957	233.6	22.00	1.452	20.4	0.0138	0.0108			8.003
1703.1	1686.7	3.645	35.5706	34.956	239.1	21.72	1.425	21.7	0.0084	0.0068			8.008
1800.2	1782.4	3.499	36.0280	34.956	243.0	21.30	1.395	22.2	0.0097	0.0049			8.014
1999.5	1978.9	3.162	36.9552	34.938	242.3	21.80	1.430	27.7	0.0031	0.0068			8.011
2201.2	2177.4	2.917	37.8848	34.931	244.1	21.84	1.440	30.9	0.0015	0.0029			8.011
2402.9	2375.8	2.735	38.8006	34.923	243.1	22.31	1.464	34.5	0.0047	0.0000			8.011
2700.7	2668.4	2.572	40.1400	34.919	245.2	22.27	1.451	36.2	0.0003	0.0010			8.015
2999.4	2961.5	2.462	41.4721	34.919	250.7	21.42	1.417	35.0	0.0053	0.0049			8.019
3200.0	3158.1	2.390	42.3607	34.919	253.4	21.07	1.382	33.8	0.0078	0.0068			8.023
3400.4	3354.4	2.295	43.2466	34.914	255.2	20.99	1.382	34.6	0.0066	0.0059			8.025
3600.3	3550.0	2.173	44.1293	34.907	257.4	20.83	1.376	35.3	0.0222	0.0156			8.024
3798.1	3743.3	1.977	45.0047	34.890	254.5	21.69	1.439	42.0	0.0121	0.0147			8.017
3998.3	3938.8	1.598	45.9061	34.849	246.9	23.80	1.602	58.7	0.0027	0.0059			7.994
4198.8	4134.5	1.059	46.8231	34.792	236.1	27.34	1.839	83.4	0.0034	0.0029			7.962
4399.4	4330.0	0.743	47.7152	34.759	230.8	29.14	1.961	96.5	0.0034	0.0020			7.941
4600.6	4526.0	0.563	48.5963	34.740	229.4	30.43	2.030	103.7	0.0048	0.0078			7.934
4797.5	4717.6	0.467	49.4464	34.729	225.6	30.73	2.066	108.1	0.0053	0.0068			7.928
4999.0	4913.6	0.373	50.3117	34.723	224.0	31.23	2.101	110.9	0.0107	0.0098			7.919
5197.8	5106.7	0.262	51.1653	34.710	223.0	31.83	2.146	115.2	0.0253	0.0117			7.908
5396.4	5299.5	0.187	52.0119	34.703	222.3	32.18	2.167	117.6	0.0224	0.0117			7.905
5494.5	5394.7	0.159	52.4271	34.697	221.1	32.33	2.183	119.5	0.0314	0.0166			7.908

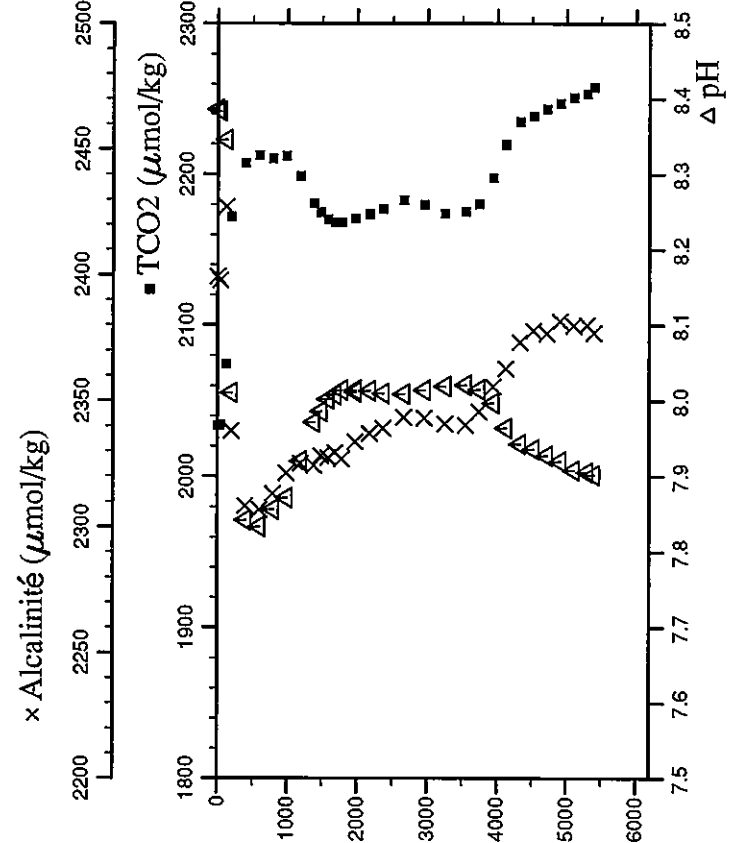
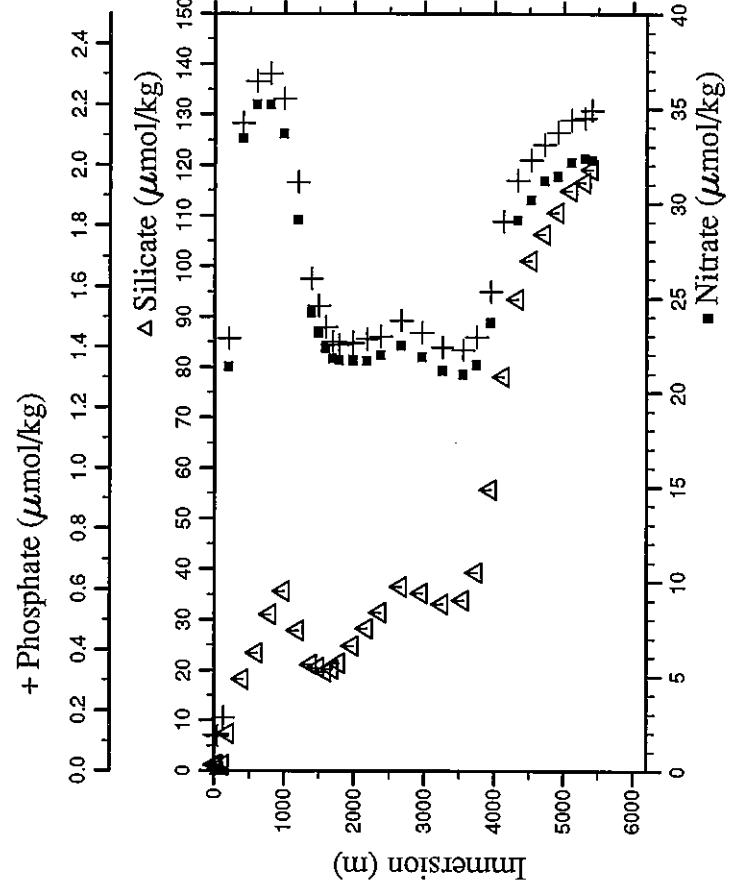
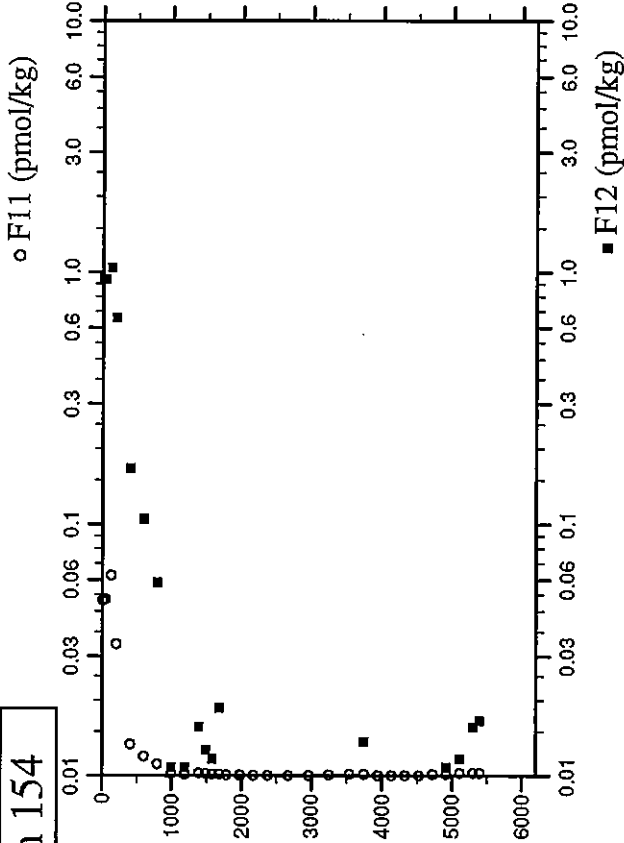
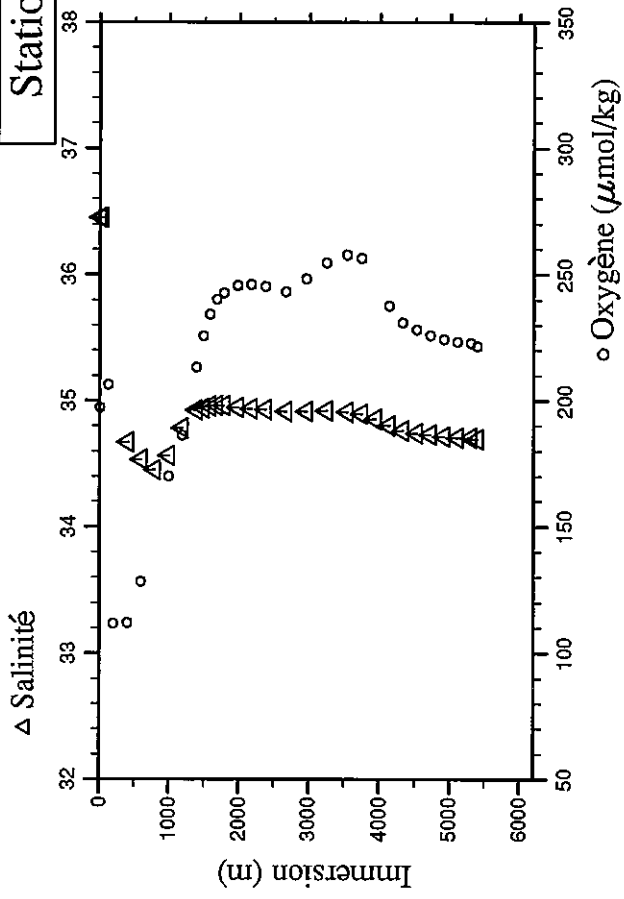
# Station 153



Station : 154 Campagne : CITHER 2  
 Date : 28-02-94 Heure : 17 h 58 mn  
 Position : S 7 28.45 W 30 16.18  
 Dernier niveau à : 5498  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
8.1	8.1	28.175	23.4634	36.451	197.1	0.00	0.119	1.2	1.6266	0.9367	2033.68	2399.2	8.386
41.0	40.8	28.109	23.6224	36.452	197.4	0.00	0.116	1.2	1.6401	0.9367	2033.93	2397.8	8.384
123.0	122.3	24.214	25.5097	36.849	206.4	r	0.176	1.2	1.8567	1.0428	2074.34	2427.0	8.346
200.8	199.6	13.639	27.4783	35.395	111.7	r	1.428	7.4	1.2212	0.6598	2171.71	2337.9	8.011
402.4	399.8	7.683	28.8923	34.670	112.1		2.138	18.2	0.2948	0.1663	2207.32	2308.2	7.842
602.6	598.4	6.052	29.9345	34.536	128.3		2.277	23.5	0.1789	0.1047	2212.48	2306.6	7.834
800.5	794.5	4.524	30.9783	34.454	158.8	r	2.301	31.1	0.1085	0.0587	2210.27	2313.1	7.857
1001.2	993.2	3.918	32.0550	34.563	169.9		2.219	35.6	0.0108	0.0108	2212.17	2321.2	7.872
1200.5	1190.4	4.160	33.1008	34.783	186.2		1.943	27.9	0.0168	0.0108	2199.08	2324.9	7.920
1401.2	1388.7	4.232	34.1056	34.924	213.3		1.625	21.1	0.0286	0.0156	2180.80	2324.3	7.972
1503.4	1489.6	4.000	34.6122	34.943	225.6		1.536	20.5	0.0170	0.0127	2174.82	2328.0	7.986
1601.5	1586.5	3.877	35.0817	34.956	234.4		1.468	19.7	0.0121	0.0117	2169.89	2327.4	8.002
1702.9	1686.5	3.701	35.5669	34.961	240.2		1.418	20.2	0.0146	0.0186	2168.04	2329.3	8.008
1798.4	1780.7	3.533	36.0141	34.959	242.7		1.407	21.4	0.0079	0.0098	2167.90	2326.9	8.014
1999.5	1978.9	3.225	36.9521	34.948	245.5		1.411	24.9	0.0024	0.0068			8.014
1999.9	1979.3	3.220	36.9540	34.948	245.8		1.417	24.9	0.0060	0.0059	2170.47	2333.7	8.012
2199.6	2175.9	2.977	37.8743	34.935	246.0		1.426	28.3	0.0045	0.0049	2173.38	2337.0	8.013
2396.7	2369.8	2.810	38.7678	34.930	245.3		1.436	31.4	0.0022	0.0039	2176.99	2339.0	8.010
2702.1	2669.9	2.558	40.1460	34.914	243.3		1.489	36.5	0.0020	0.0010	2182.98	2343.3	8.009
2998.8	2961.0	2.449	41.4690	34.916	248.4		1.448	35.3	0.0027	0.0039	2179.67	2343.0	8.014
3296.9	3253.1	2.356	42.7880	34.919	254.7		1.399	33.1	0.0055	0.0088	2173.98	2340.8	8.019
3598.5	3548.2	2.196	44.1193	34.912	257.6		1.390	33.9	0.0150	0.0059	2175.20	2340.4	8.021
3797.3	3742.6	1.997	44.9997	34.894	256.4		1.434	39.3	0.0149	0.0137	2180.41	2345.6	8.015
4001.1	3941.6	1.657	45.9112	34.856	245.7	r	1.584	55.7	0.0032	0.0049	2197.55	2355.6	7.997
4196.4	4132.2	1.151	46.8020	34.803	237.5	d	1.815	78.1	0.0025	0.0049	2219.60	2362.7	7.964
4399.1	4329.8	0.764	47.7130	34.761	231.1		1.950	93.5	0.0010	0.0039	2234.81	2373.2	7.943
4600.2	4525.7	0.596	48.5901	34.743	228.2		2.018	101.1	0.0022	0.0000	2238.77	2377.6	7.936
4801.1	4721.2	0.472	49.4595	34.730	226.0		2.068	106.3	0.0111	0.0059	2243.50	2376.6	7.928
4999.0	4913.6	0.368	50.3120	34.719	224.4		2.108	110.7	0.0143	0.0108	2247.25	2381.4	7.920
5201.3	5110.2	0.259	51.1811	34.707	223.4		2.150	115.0	0.0258	0.0117	2250.91	2379.6	7.908
5397.9	5301.0	0.210	52.0144	34.705	222.8		2.155	116.6	0.0250	0.0156	2253.47	2379.9	7.906
5499.1	5399.2	0.159	52.4452	34.698	221.6		2.182	119.1	0.0270	0.0166	2257.74	2376.9	7.902

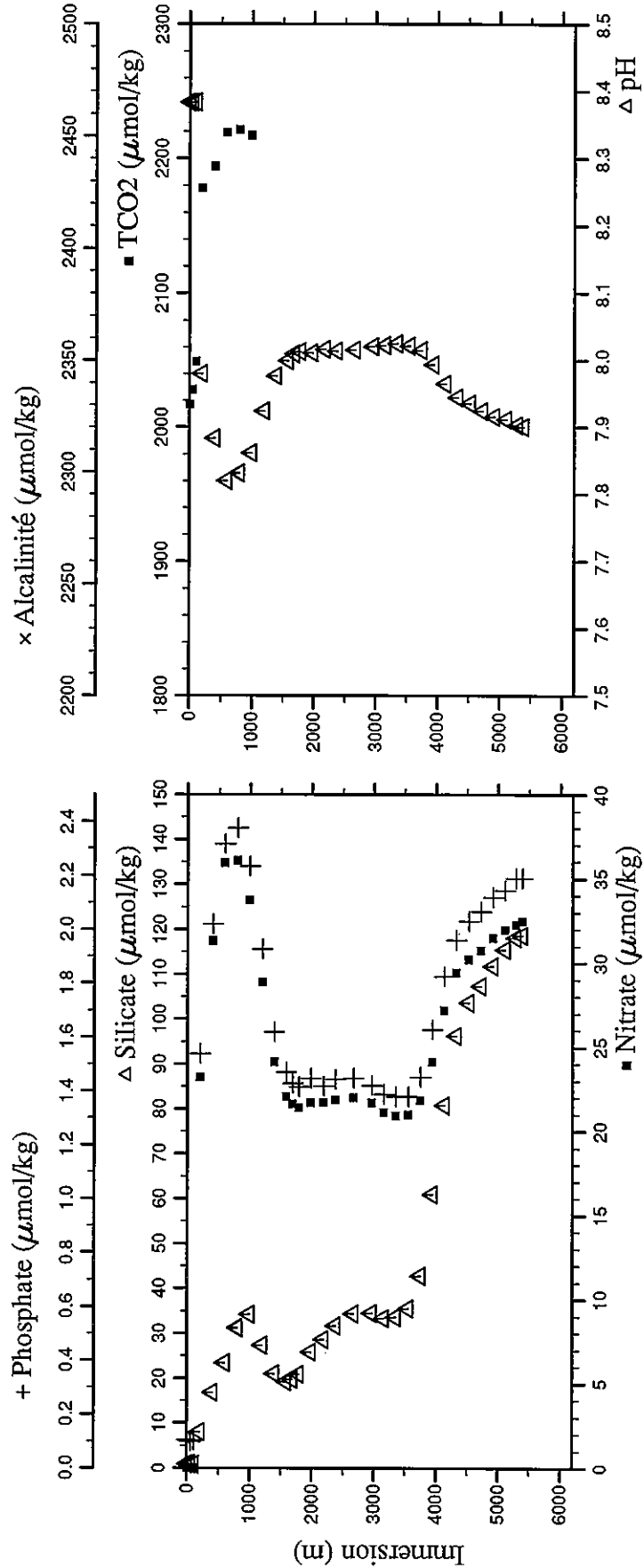
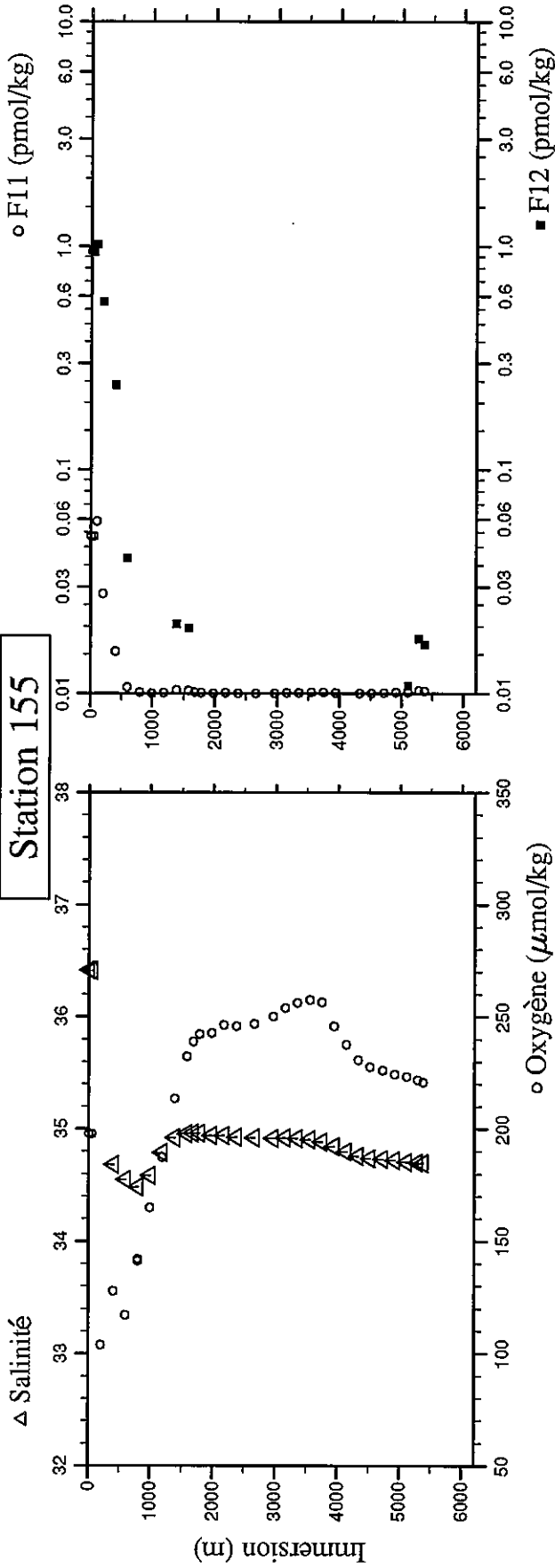
# Station 154



Station : 155 Campagne : CITHER 2  
 Date : 01-03-94 Heure : 0 h 25 mn  
 Position : S 6 58.76 W 30 14.63  
 Dernier niveau à : 5474  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSTION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. POT. NITE	ALCALI- NITE	PH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.3	4.3	28.132	23.4334	36.415	197.8	0.00	0.105	0.9	1.6414	0.9572	2017.20		8.384
51.2	50.9	28.110	23.6348	36.410	197.7	0.00	0.099	0.9	1.6380	0.9435	2028.08		8.384
103.2	102.6	25.774	24.9208	36.821	210.6	0.00	0.102	0.8	1.7952	1.0185	2049.48		8.384
201.8	200.6	13.134	27.5053	35.304	103.8	23.23	1.538	8.1	1.0399	0.5650	2178.20		7.980
401.2	398.6	7.886	28.8642	34.684	127.8	31.31	2.019	16.8	0.4381	0.2386	2194.17		7.884
600.7	596.5	6.115	29.9251	34.550	117.2	35.93	2.316	23.5	0.0693	0.0401	2219.17		7.820
800.6	794.6	4.666	30.9839	34.485	141.2	36.08	2.376	31.2	0.0124	0.0088	2221.34		7.831
1001.0	993.0	3.994	32.0638	34.485	142.0	36.08	2.376	31.3	0.0122	0.0078			7.832
1199.0	1188.9	4.150	33.1037	34.584	165.0	33.74	2.234	34.3	0.0017	0.0049			7.862
1400.4	1387.9	4.212	34.1019	34.791	187.4	28.86	1.925	27.4	0.0090	0.0049			7.924
1700.7	1684.4	3.737	35.5492	34.957	213.4	24.13	1.619	21.0	0.0352	0.0205			7.977
1798.5	1780.8	3.559	36.0110	34.960	238.9	22.07	1.471	19.2	0.0287	0.0196			8.000
1998.5	1977.9	3.220	36.9422	34.943	242.3	21.38	1.428	19.8	0.0133	0.0059			8.010
2199.2	2175.5	2.971	37.8724	34.939	246.3	21.69	1.448	20.9	0.0105	0.0029			8.013
2399.2	2372.3	2.773	38.7829	34.925	245.8	21.74	1.418	25.8	0.0037	0.0029			8.012
2696.0	2663.9	2.589	40.1182	34.922	246.8	21.88	1.444	28.6	0.0062	0.0039			8.017
2999.1	2961.3	2.455	41.4703	34.915	250.2	21.99	1.448	34.4	0.0045	0.0039			8.014
3198.4	3156.7	2.380	42.3557	34.921	254.0	21.68	1.421	34.5	0.0040	0.0068			8.016
3397.7	3351.8	2.290	43.2361	34.915	256.3	21.11	1.389	33.3	0.0087	0.0059			8.021
3598.7	3548.5	2.153	44.1251	34.903	257.4	20.92	1.380	33.6	0.0085	0.0098			8.023
3796.6	3741.9	1.927	45.0028	34.886	256.4	20.98	1.380	35.5	0.0166	0.0098			8.022
3996.3	3937.0	1.546	45.9029	34.845	245.8	21.83	1.452	42.7	0.0150	0.0088			8.015
4198.0	4133.8	1.121	46.8152	34.797	237.5	24.12	1.629	60.9	0.0050	0.0020			7.994
4397.2	4328.0	0.764	47.7039	34.760	230.8	27.18	1.825	80.8	-0.0018	0.0000			7.965
4597.2	4522.8	0.585	48.5783	34.740	227.6	29.42	1.961	96.3	0.0017	0.0049			7.945
4799.4	4719.6	0.481	49.4517	34.732	226.1	30.19	2.030	103.6	0.0017	0.0029			7.935
4997.5	4912.2	0.382	50.3028	34.720	224.3	30.73	2.067	107.4	0.0076	0.0059			7.924
5197.6	5106.6	0.267	51.1636	34.709	223.3	31.50	2.120	111.8	0.0129	0.0098			7.916
5377.5	5281.3	0.188	51.9304	34.702	221.8	31.96	2.146	115.5	0.0155	0.0108			7.912
5477.3	5378.1	0.166	52.3530	34.699	220.9	32.28	2.189	118.1	0.0304	0.0176			7.903
						32.46	2.189	118.6	0.0251	0.0166			7.901

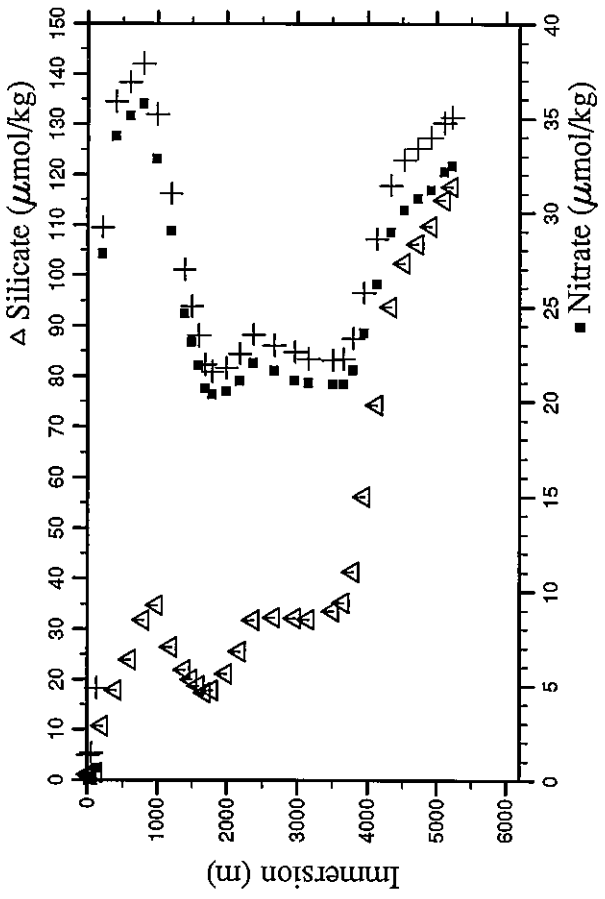
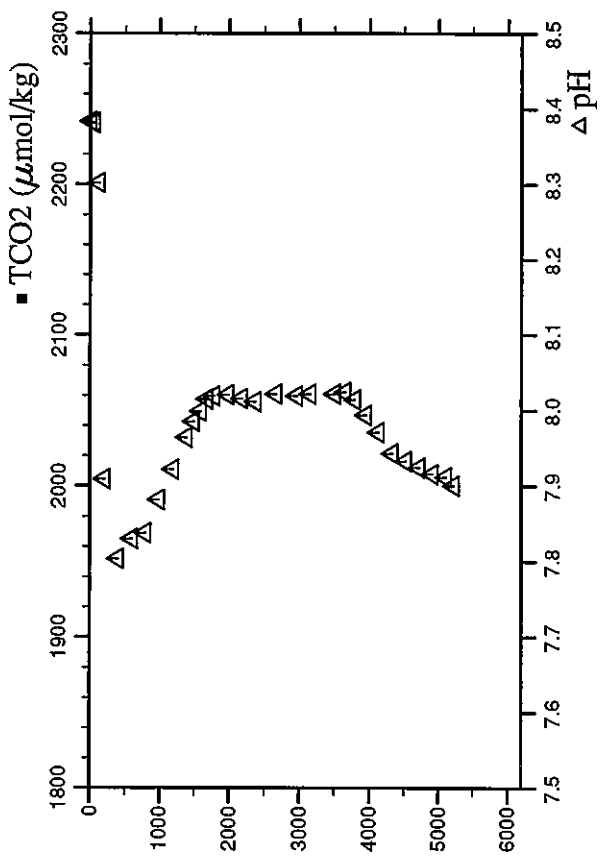
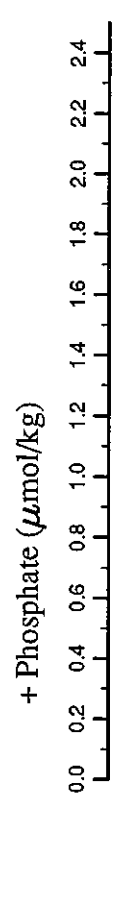
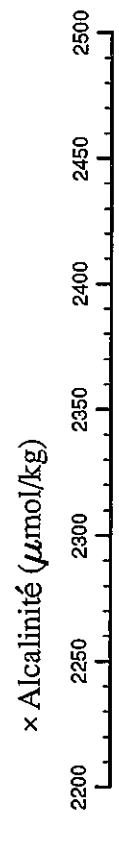
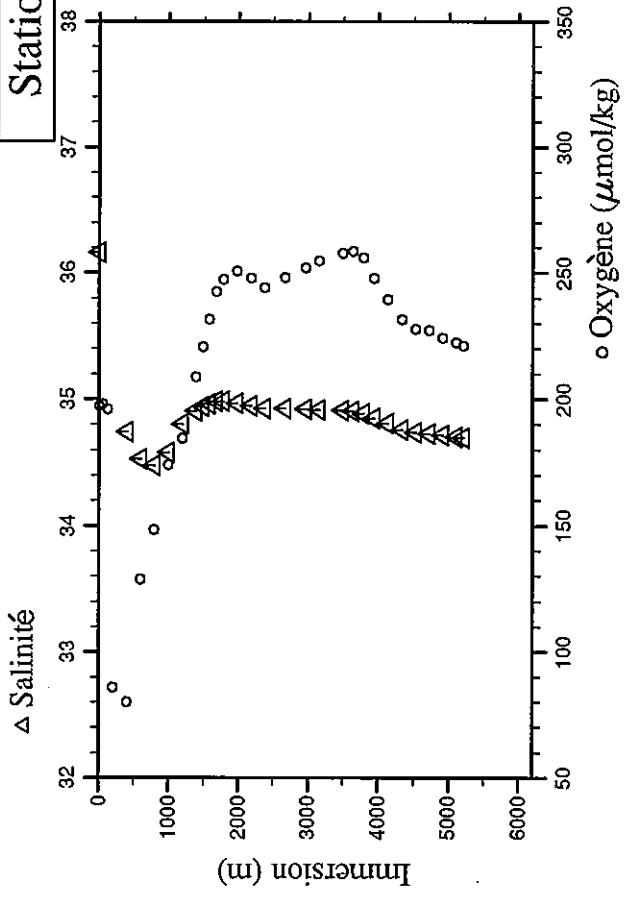
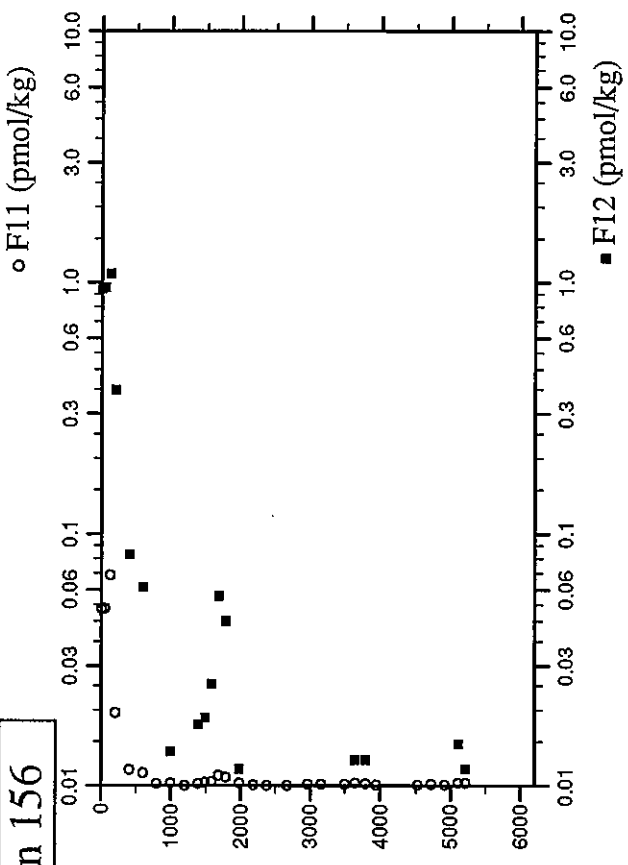
# Station 155



Station : 156 Campagne : CITHER 2  
 Date : 01-03-94 Heure : 6 h 44 mn  
 Position : S 6 28.87 W 30 13.06  
 Dernier niveau à : 5308  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSTON	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.9	5.9	28.148	23.2432	36.160	197.3	0.00	0.084	1.1	1.6398	0.9428			8.384
52.4	52.1	28.128	23.4935	36.244	197.9	0.00	0.090	1.1	1.6423	0.9525			8.382
126.1	125.4	22.498	25.8419	36.600	196.0	0.65	0.303	1.5	1.9554	1.0841			8.302
203.7	202.5	11.281	27.7209	35.121	85.9	27.81	1.825	10.7	0.6766	0.3735			7.909
402.5	399.9	8.253	28.8574	34.743	80.0	34.02	2.242	17.8	0.1487	0.0831			7.804
603.6	599.4	5.943	29.9473	34.529	128.7	35.13	2.305	23.9	0.1210	0.0616			7.830
799.9	793.9	4.519	30.9930	34.477	148.5	35.77	2.367	31.8	0.0189	0.0088			7.838
1000.7	992.7	3.925	32.2644	34.582	174.0	32.85	2.199	34.7	0.0284	0.0137			7.882
1201.5	1191.4	4.220	33.1151	34.804	184.6	29.01	1.937	26.5	0.0036	0.0068			7.922
1400.0	1387.6	4.196	34.0930	34.906	208.6	24.63	1.686	21.9	0.0187	0.0176			7.964
1502.8	1489.1	4.146	34.5886	34.941	220.7	23.15	1.564	20.0	0.0294	0.0186			7.985
1600.8	1585.8	4.047	35.0600	34.963	231.5	21.89	1.469	18.7	0.0375	0.0254			7.999
1701.0	1684.7	3.928	35.5402	34.981	242.4	20.68	1.371	17.4	0.0955	0.0567			8.015
1803.3	1785.6	3.744	36.0229	34.980	247.3	20.38	1.349	17.8	0.0780	0.0450			8.019
2000.8	1980.2	3.372	36.9476	34.964	250.5	20.53	1.362	21.2	0.0234	0.0117			8.021
2199.7	2176.0	3.100	37.8604	34.946	247.8	21.07	1.407	25.6	0.0102	0.0010			8.016
2400.6	2373.7	2.824	38.7790	34.925	243.9	22.03	1.471	31.8	0.0011	0.0000			8.012
2698.5	2666.4	2.651	40.1236	34.926	248.0	21.62	1.436	32.3	0.0035	0.0049			8.022
2998.1	2960.4	2.504	41.4619	34.923	251.8	21.12	1.414	32.2	0.0113	0.0098			8.019
3199.1	3157.4	2.417	42.3537	34.916	254.6	20.97	1.390	32.0	0.0140	0.0098			8.022
3549.3	3500.2	2.227	43.9011	34.908	257.6	20.90	1.386	33.6	0.0132	0.0098			8.022
3700.2	3647.8	2.102	44.5678	34.906	258.4	20.90	1.390	35.3	0.0232	0.0127			8.024
3849.1	3793.3	1.921	45.2319	34.885	256.0	21.67	1.458	41.4	0.0204	0.0127			8.014
4000.8	3941.4	1.598	45.9161	34.847	247.9	23.62	1.609	56.2	0.0078	0.0049			7.994
4196.3	4132.2	1.209	46.7961	34.808	239.3	26.22	1.787	74.3	-0.0015	0.0000			7.971
4400.7	4331.4	0.766	47.7189	34.759	231.4	28.96	1.964	93.8	-0.0041	-0.0029			7.943
4599.7	4525.3	0.559	48.5907	34.739	227.7	30.14	2.049	102.4	0.0056	-0.0010			7.933
4798.8	4719.1	0.462	49.4505	34.728	227.1	30.74	2.088	106.2	0.0115	0.0078			7.924
4997.0	4911.8	0.371	50.3026	34.719	224.2	31.18	2.123	109.8	0.0080	0.0049			7.916
5197.4	5106.5	0.229	51.1663	34.703	222.4	32.17	2.173	115.0	0.0240	0.0147			7.912
5309.3	5215.1	0.168	51.6447	34.698	221.0	32.47	2.191	117.6	0.0236	0.0117			7.901

**Station 156**

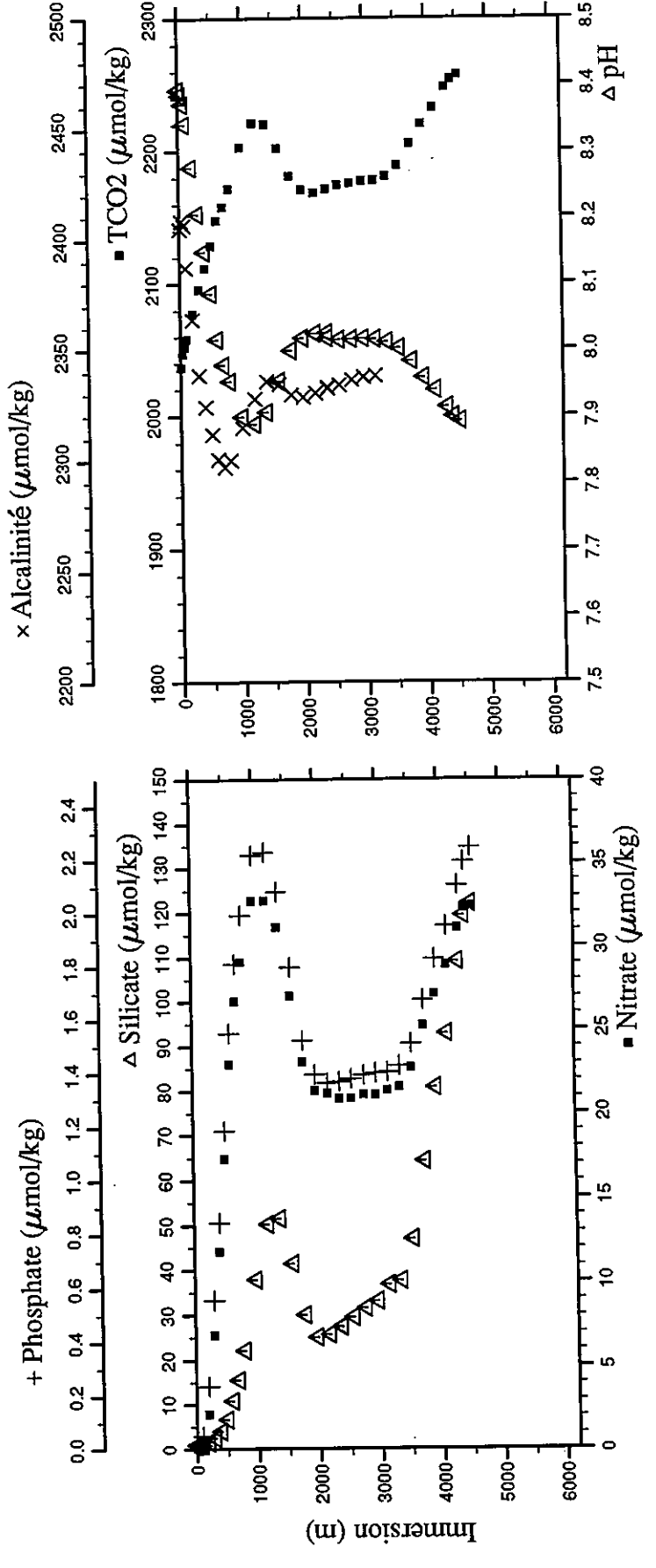
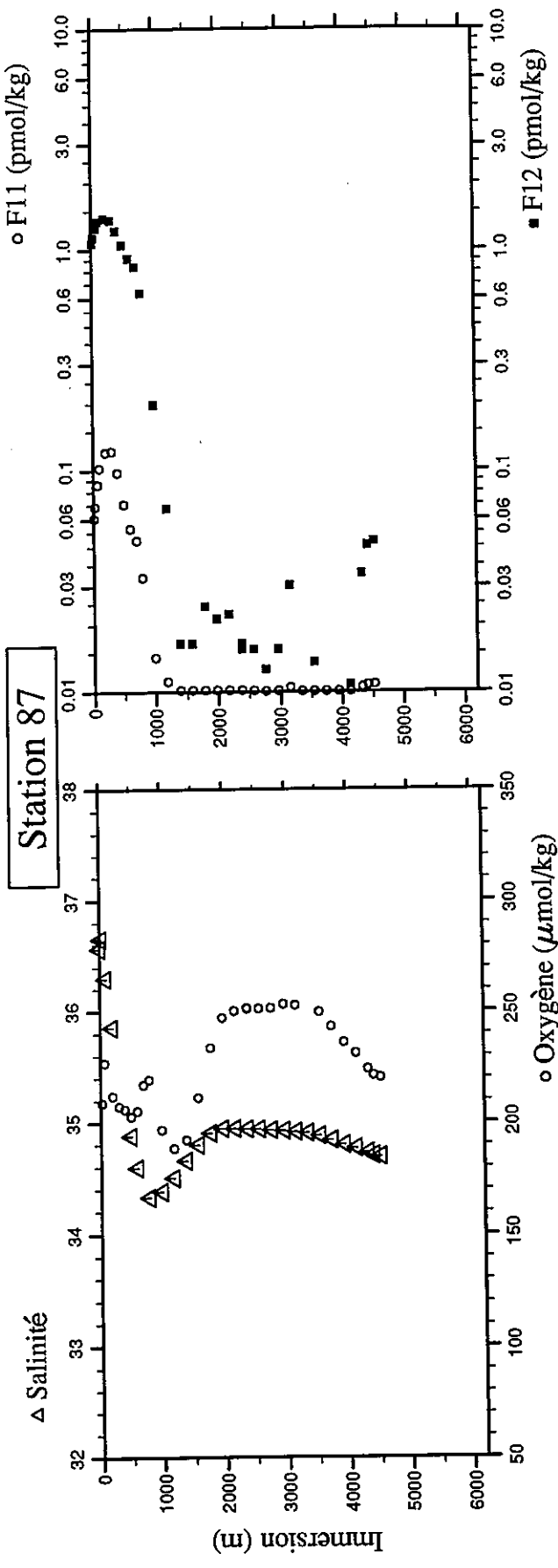




Station : 157 Campagne : CITHR 2  
 Date : 01-03-94 Heure : 12 h 56 mn  
 Position : S 5 59.19 W 30 11.44  
 Dernier niveau à : 5273  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION metres	TEMP. POT. SONDE deg.cels.	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI-NITE	pH
dbar					um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.0	7.0	28.305	23.0197	35.928	197.6	0.00	0.066	1.0	1.6388	0.9410	2007.13	2367.9	8.374
42.6	42.4	28.072	23.2425	35.925	198.0	0.00	0.063	1.0	1.6520	0.9439	2006.55	2366.8	8.370
106.5	105.9	25.733	24.9125	36.778	207.8	0.00	0.111	1.0	1.8010	1.0087	2056.59	2424.0	8.363
200.5	199.3	12.232	27.5796	35.176	115.2	23.03	1.579	9.0	1.0230	0.5348	2176.85	2327.9	7.962
400.5	397.9	8.316	28.8414	34.748	83.8	34.33	2.210	17.5	0.2007	0.1115	2234.81	2312.3	7.795
601.4	597.2	5.776	29.9534	34.519	133.3	34.78	2.304	24.4	0.1336	0.0753	2213.78	2309.8	7.823
801.1	795.1	4.549	30.9837	34.465	157.8	34.49	2.308	30.7	0.0908	0.0509	2209.94	2312.7	7.840
1000.8	992.9	4.104	32.0347	34.573	163.6	33.78	2.259	34.1	0.0581	0.0323	2214.66	2323.4	7.851
1200.5	1190.4	4.278	33.1005	34.805	183.9	28.28	1.929	26.5	0.0084	0.0117	2200.09	2329.7	7.907
1400.0	1387.6	4.235	34.0894	34.911	208.5	24.39	1.668	21.8	0.0227	0.0156	2184.25	2330.3	7.954
1501.7	1488.0	4.162	34.5852	34.948	222.2	22.94	1.541	19.6	0.0359	0.0264	2190.98	2330.6	7.975
1600.1	1585.1	4.032	35.0572	34.964	230.5	22.25	1.475	19.0	0.0268	0.0186	2172.85	2330.5	7.984
1699.8	1683.5	3.852	35.5385	34.973	240.2	21.21	1.393	18.5	0.0290	0.0205	2167.79	2331.0	7.998
1798.8	1781.1	3.739	36.0021	34.973	246.0	20.76	1.352	18.0	0.0452	0.0284	2165.78	2332.7	8.004
2000.7	1980.1	3.420	36.9424	34.969	249.7	20.65	1.353	20.7	0.0231	0.0166	2182.70	2335.4	8.009
2198.9	2175.3	3.119	37.8557	34.948	247.8	21.19	1.395	25.4	0.0058	0.0039	2170.50	2338.7	8.005
2400.1	2373.2	2.863	38.7783	34.933	246.5	21.84	1.426	30.1	0.0066	0.0078	2176.38	2340.7	8.010
2699.0	2666.9	2.635	40.1306	34.927	249.2	21.43	1.414	32.0	0.0071	0.0078	2175.92	2345.6	8.010
2998.3	2960.6	2.485	41.4669	34.925	252.7	21.16	1.390	32.0	0.0141	0.0078	2177.12	2345.1	8.011
3199.5	3157.8	2.399	42.3587	34.919	254.5	20.94	1.386	32.0	0.0114	0.0098	2177.12	2344.5	8.010
3397.6	3351.8	2.307	43.2343	34.919	256.7	20.86	1.371	32.6	0.0076	0.0108	2176.65	2344.0	8.008
3599.2	3549.0	2.180	44.1232	34.919	257.6	20.94	1.374	32.5	0.0149	0.0137	2176.79	2346.7	8.009
3796.8	3742.2	1.926	45.0070	34.890	255.9	21.68	1.374	32.5	0.0141	0.0117	2176.96	2345.1	8.010
3998.8	3939.5	1.553	45.9150	34.848	247.1	23.95	1.613	41.3	0.0164	0.0127	2182.20	2348.9	8.004
4198.5	4134.4	1.104	46.8170	34.798	237.4	26.80	1.816	58.5	0.0132	0.0068	2200.90	2358.8	7.985
4398.1	4329.0	0.735	47.7118	34.757	231.2	29.31	1.964	79.8	0.0004	0.0029	2235.46	2371.7	7.955
4599.4	4525.0	0.542	48.5939	34.738	227.4	30.50	2.037	96.4	-0.0013	0.0029	2234.49	2375.6	7.931
4797.9	4718.2	0.444	49.4506	34.729	225.4	31.29	2.082	105.0	0.0024	0.0039	2241.76	2380.8	7.919
4998.2	4913.0	0.332	50.3122	34.714	223.9	31.81	2.136	109.1	0.0050	0.0020	2245.82	2382.7	7.912
5199.6	5108.7	0.236	51.1762	34.703	222.5	32.39	2.164	112.6	0.0217	0.0137	2263.61	2381.6	7.901
5269.8	5176.9	0.193	51.4790	34.701	221.8	32.54	2.175	116.4	0.0316	0.0196	2252.06	2382.4	7.897
							2.175	118.2	0.0332	0.0205	2256.32	2381.1	7.890

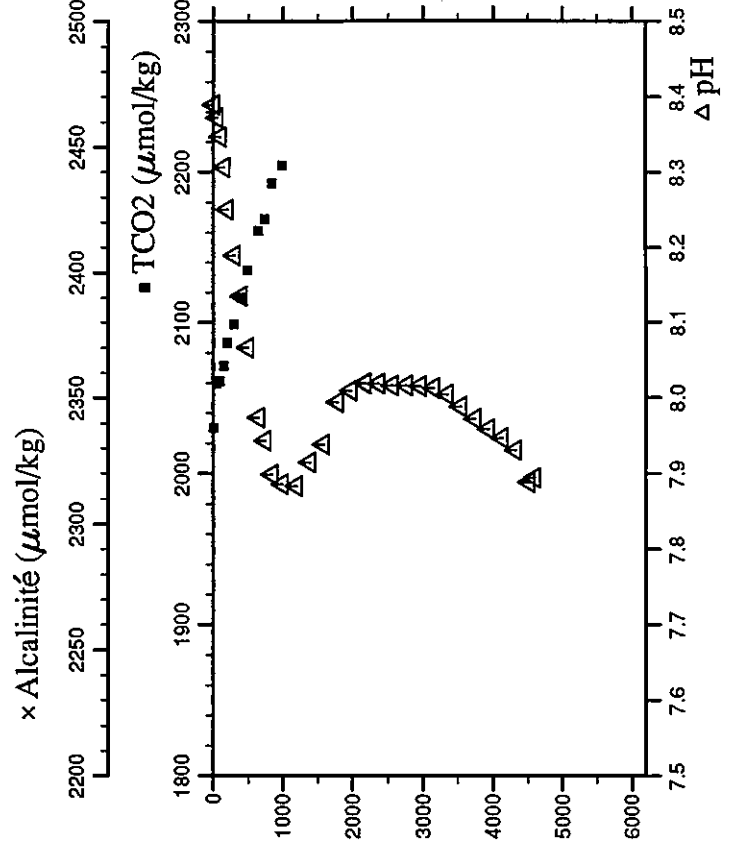
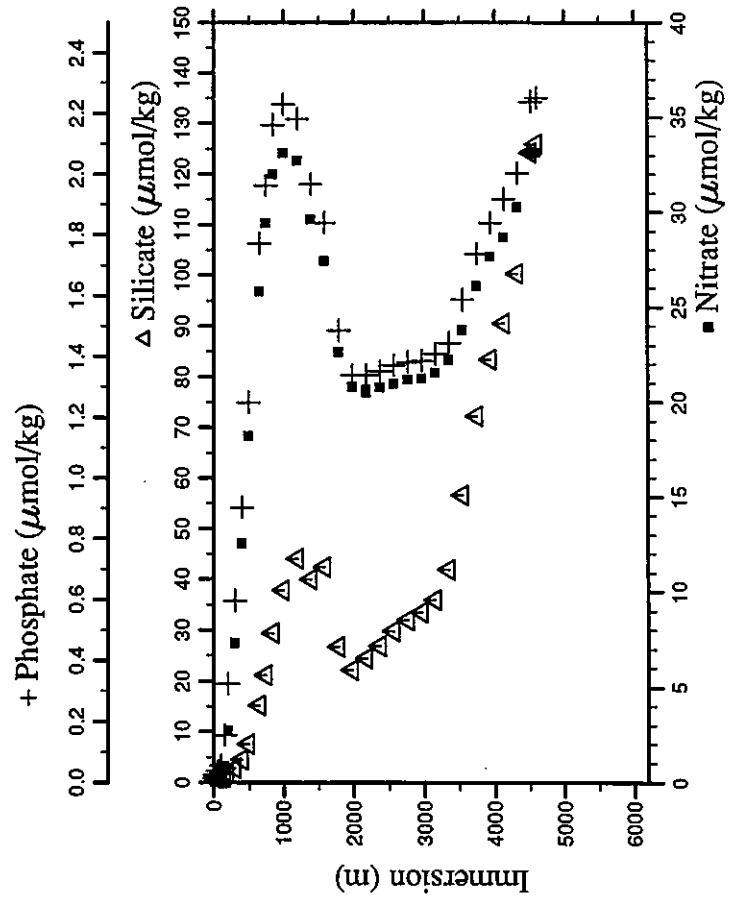
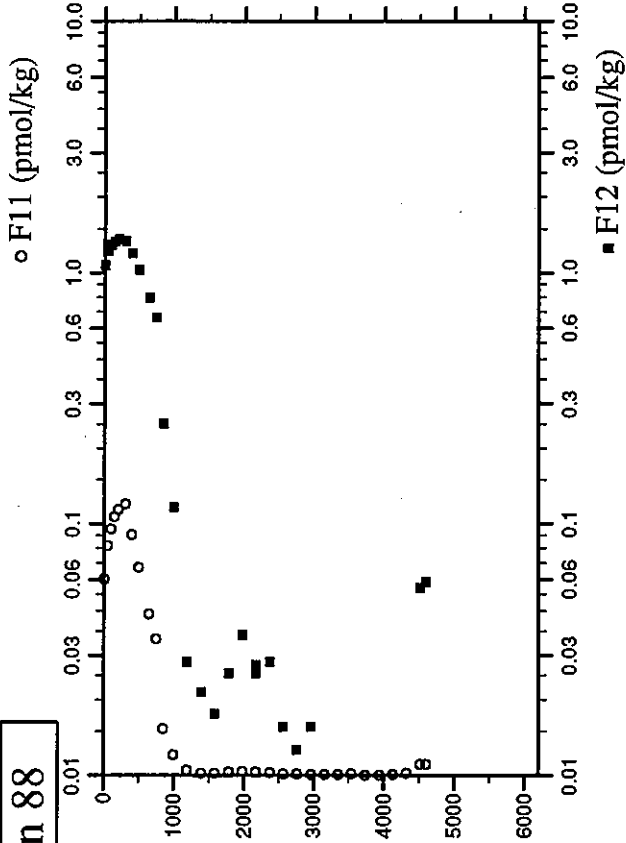
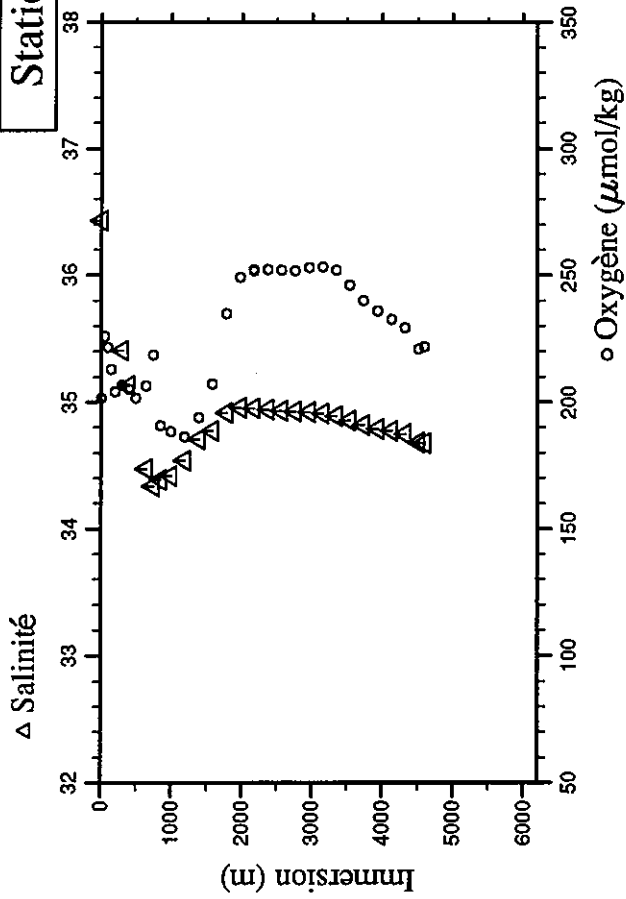
# Station 87



Station : 88 Campagne : CYPHER 2  
 Date : 03-02-94 Heure : 18 h 51 mn  
 Position : S 24 37.62 W 34 11.90  
 Dernier niveau à : 4684  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.5	4.5	28.096	23.4590	36.432	201.5	0.04	0.026	0.9	1.8205	1.0689	2030.09		8.390
50.6	50.3	23.303	25.4285	36.831 r	226.0	0.04	0.038	1.0	2.1312	1.2179	2059.34		8.373
100.2	99.5	20.983	26.0223	36.450 r	221.6	0.04	0.056	0.9	2.2874	1.2934	2061.24		8.347
150.8	149.8	19.237	26.4712	36.172 r	212.9	0.83	0.155	1.1	2.3967	1.3328	2071.54		8.307
200.7	199.3	17.363	26.9355	35.849 r	204.1	2.73	0.326	1.8	2.4663	1.3604	2086.55		8.251
300.4	298.3	14.522	27.7087	35.409	206.6	7.32	0.597	2.8	2.5159	1.3384	2098.89		8.190
401.2	398.2	12.397	28.3959	35.128	205.1	12.54	0.903	4.5	2.2320	1.1979	2116.54		8.135
500.3	496.5	10.081	29.0519	34.844 r	201.6	18.20	1.249	7.6	1.9286	1.0291	2134.95		8.067
650.5	645.3	6.625	30.0165	34.472	206.3	25.82	1.772	15.2	1.4995	0.7957	2161.00		7.974
750.5	744.3	4.917	30.6056	34.338	218.5	29.42	1.963	21.1	1.2659	0.6638	2168.73		7.944
851.4	844.2	4.535	31.1545	34.387	190.5	31.99	2.162	29.4	0.4342	0.2503	2192.60		7.899
1000.9	992.1	3.791	31.9532	34.417	188.2	33.12	2.229	37.8	0.1944	0.1163	2204.33		7.886
1201.4	1190.3	3.386	33.0120	34.537	186.2	32.70	2.181	44.0	0.0488	0.0283			7.884
1400.4	1386.8	3.463	34.0368	34.706	194.0	29.64	1.968	40.0	0.0191	0.0215			7.915
1599.7	1583.4	3.156	35.0346	34.772	207.0	27.44	1.839	42.4	0.0186	0.0176			7.939
1800.7	1781.5	3.453	36.0067	34.918	234.8	22.63	1.486	26.8	0.0293	0.0254			7.995
2000.2	1977.9	3.389	36.9391	34.954	249.0	20.82	1.339	22.2	0.0346	0.0362			8.010
2199.7	2174.2	3.129	37.8622	34.953	252.0	20.63	1.340	24.4	0.0297	0.0254			8.019
2200.0	2174.5	3.129	37.8634	34.950	251.6	20.50	1.340	24.4	0.0309	0.0274			8.020
2400.1	2371.2	2.921	38.7765	34.942	252.2	20.79	1.353	26.9	0.0242	0.0283			8.019
2600.3	2567.8	2.730	39.6837	34.932	251.9	20.99	1.372	29.8	0.0127	0.0156			8.017
2799.9	2763.6	2.569	40.5825	34.926	251.7	21.19	1.382	32.0	0.0164	0.0127			8.017
3000.7	2960.4	2.441	41.4799	34.919	252.9	21.24	1.387	33.5	0.0103	0.0156			8.016
3200.0	3155.6	2.311	42.3675	34.910	253.1	21.56	1.410	35.9	0.0102	0.0088			8.013
3398.3	3349.6	2.107	43.2516	34.892	251.8	22.22	1.446	41.9	0.0089	0.0088			8.005
3597.9	3544.7	1.746	44.1545	34.857	246.1	23.81	1.579	56.6	0.0113	0.0088			7.989
3799.3	3741.4	1.361	45.0647	34.817	239.8	26.09	1.739	72.3	0.0049	0.0098			7.973
3998.3	3935.6	1.096	45.9528	34.790	235.8	27.65	1.839	83.5	0.0025	0.0068			7.959
4197.8	4130.1	0.921	46.8292	34.773	232.5	28.67	1.918	90.5	0.0070	0.0049			7.947
4399.1	4326.2	0.688	47.7160	34.749	229.2	30.26	2.003	100.4	0.0174	0.0098			7.931
4598.1	4519.9	0.333	48.6414	34.683	220.8	33.09	2.238	124.3	0.1046	0.0557			7.889
4682.8	4602.3	-0.030	49.0110	34.678	221.8	33.15	2.250	125.9	0.1048	0.0586			7.895

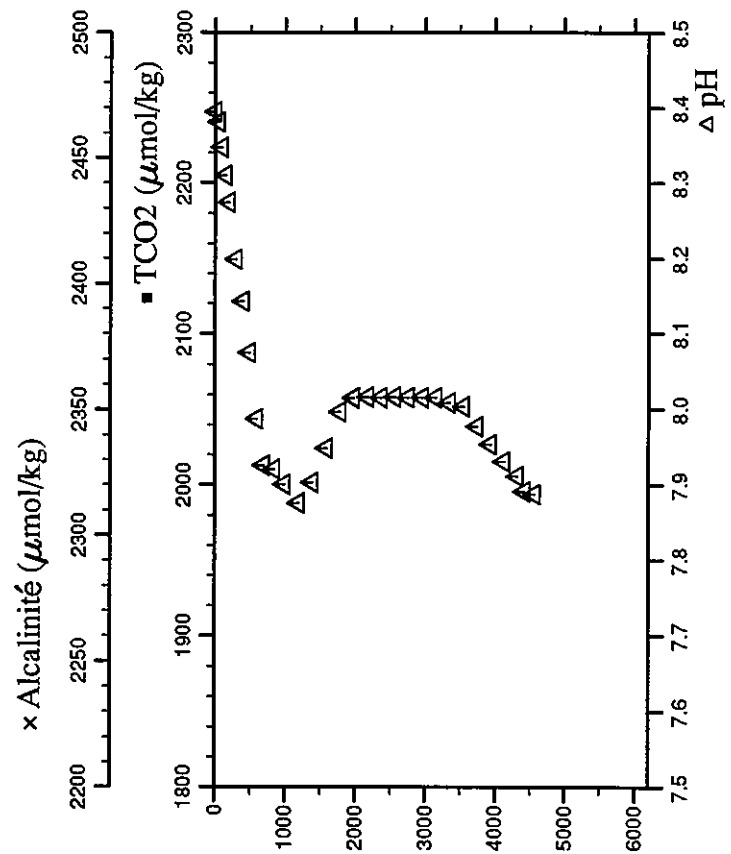
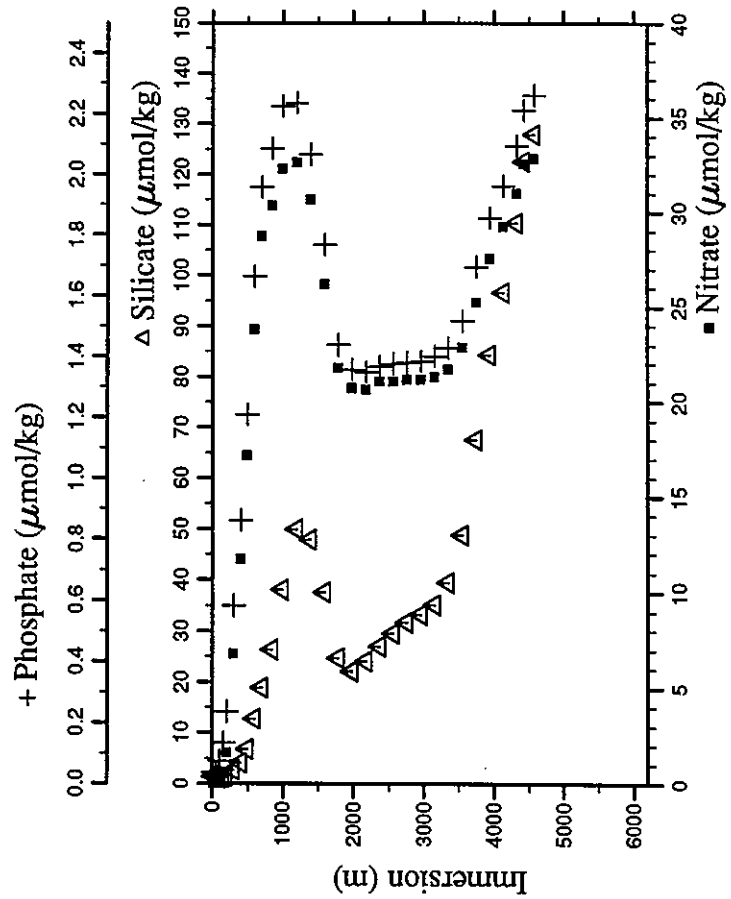
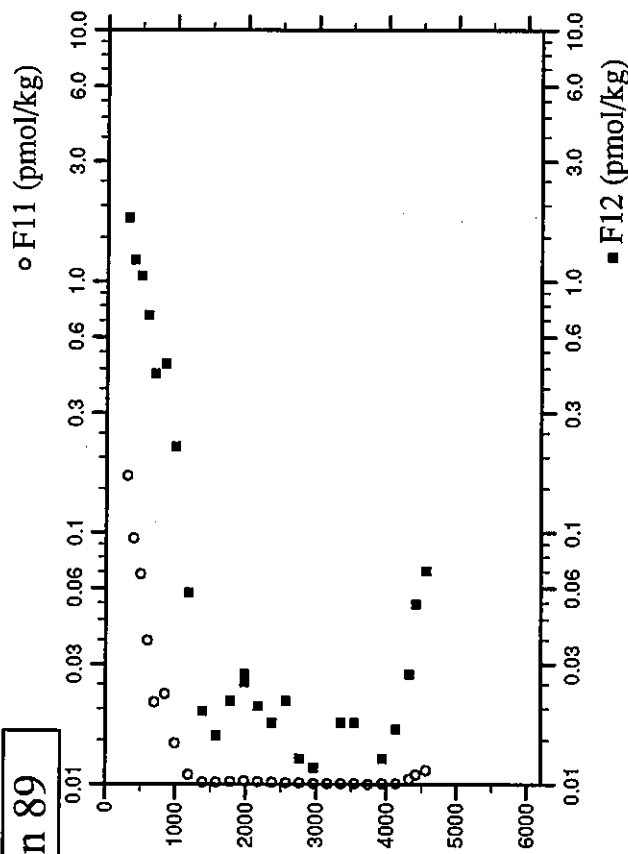
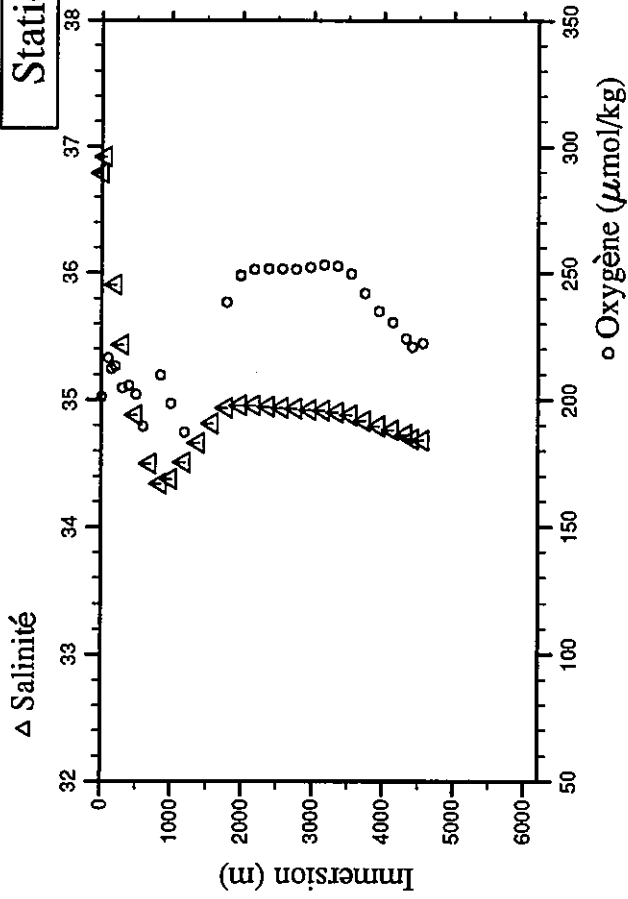
**Station 88**



Station : 89 Campagne : CITHER 2  
 Date : 04-02-94 Heure : 0 h 40 mn  
 Position : S 24 14.20 W 33 51.77  
 Dernier niveau à : 4649  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.6	4.6	28.052	23.7411	36.791	201.0	0.04	0.037	1.4					8.395
50.7	50.4	24.060	25.2902	36.919	225.2	r	0.037	1.3					8.381
101.0	100.3	21.519	25.9844	36.597	r	0.04	0.074	1.1					8.347
150.5	149.5	19.447	26.4692	36.218	r	0.60	0.135	1.2					8.310
200.9	199.5	17.770	26.8969	35.908	213.3	1.64	0.236	1.4					8.274
300.8	298.7	14.804	27.6722	35.436	204.5	6.82	0.584	2.7	2.8599	1.7935			8.199
400.6	397.7	12.538	28.3858	35.172	r	11.73	0.862	4.1	2.2806	1.2213			8.143
499.6	495.8	10.380	29.0280	34.878	202.0	17.20	1.209	6.8	1.9479	1.0545			8.075
601.6	596.9	7.921	29.6871	34.612	r	23.83	1.664	12.7	1.3312	0.7312			7.988
699.9	694.3	6.479	30.2819	34.498	179.0	r	1.959	18.8	0.7595	0.4291			7.926
851.8	844.6	4.455	31.1310	34.343	209.7	30.35	2.085	26.3	0.8398	0.4683			7.921
1001.6	992.8	3.591	31.9524	34.378	198.5	32.30	2.226	38.0	0.3832	0.2209			7.901
1199.9	1188.8	3.085	33.0236	34.511	187.2	32.65	2.236	49.9	0.0892	0.0577			7.876
1399.9	1386.3	3.127	34.0434	34.662	215.2	r	2.066	47.9	0.0222	0.0195			7.903
1600.3	1584.0	3.317	35.0435	34.813	190.3	r	1.767	37.5	0.0173	0.0156			7.949
1800.0	1780.8	3.495	36.0085	34.934	238.4	26.20	1.440	24.7	0.0285	0.0215			7.997
1999.6	1977.4	3.360	36.9399	34.958	248.9	20.75	1.356	22.2	0.0316	0.0254			8.015
1999.8	1977.6	3.360	36.9407	34.956	249.0	20.70	1.356	22.1	0.0322	0.0274			8.016
2199.9	2174.4	3.133	37.8609	34.956	251.3	20.63	1.349	24.1	0.0232	0.0205			8.017
2398.8	2369.9	2.925	38.7700	34.946	251.5	21.07	1.368	27.0	0.0192	0.0176			8.016
2599.6	2567.1	2.761	39.6766	34.938	251.6	21.07	1.375	29.5	0.0124	0.0215			8.017
2797.8	2761.6	2.617	40.5669	34.932	251.4	21.20	1.380	31.7	0.0150	0.0127			8.016
2999.6	2959.4	2.482	41.4704	34.923	252.2	21.20	1.385	33.2	0.0097	0.0117			8.016
3199.0	3154.7	2.363	42.3578	34.917	253.1	21.32	1.402	35.1	0.0099	0.0059			8.016
3398.2	3349.6	2.186	43.2429	34.902	252.7	21.73	1.429	39.4	0.0097	0.0176			8.009
3598.6	3545.5	1.921	44.1401	34.879	249.6	22.89	1.517	48.7	0.0099	0.0176			8.004
3797.9	3740.2	1.479	45.0474	34.833	241.9	25.26	1.695	67.6	0.0040	0.0068			7.978
3997.8	3935.2	1.091	45.9482	34.792	234.8	27.56	1.856	84.3	0.0084	0.0127			7.954
4197.3	4129.7	0.803	46.8377	34.761	230.5	29.26	1.963	96.7	0.0075	0.0166			7.931
4397.4	4324.7	0.466	47.7311	34.727	224.1	31.02	2.094	110.4	0.0466	0.0274			7.912
4496.8	4421.4	0.120	48.1947	34.693	220.8	32.57	2.213	122.6	0.0921	0.0518			7.891
4649.3	4569.8	-0.061	48.8731	34.681	222.4	32.86	2.261	127.9	0.1312	0.0704			7.888

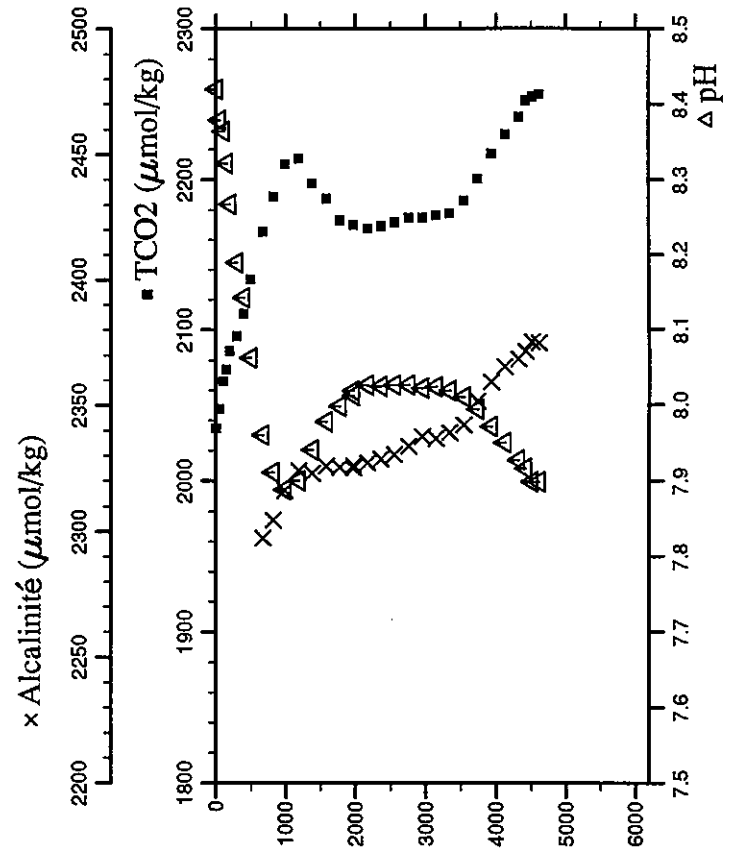
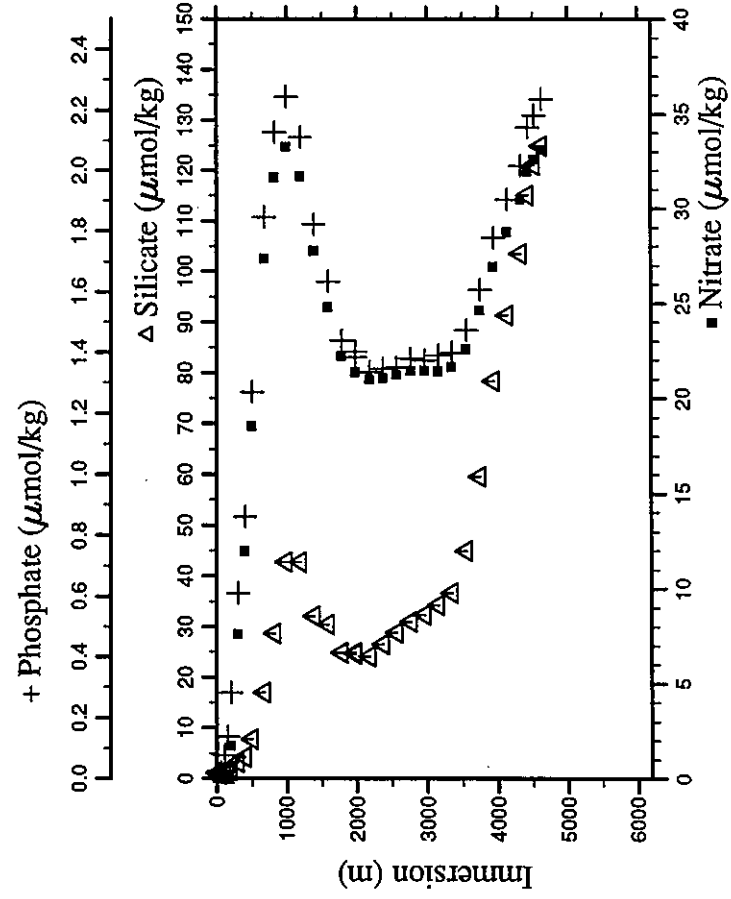
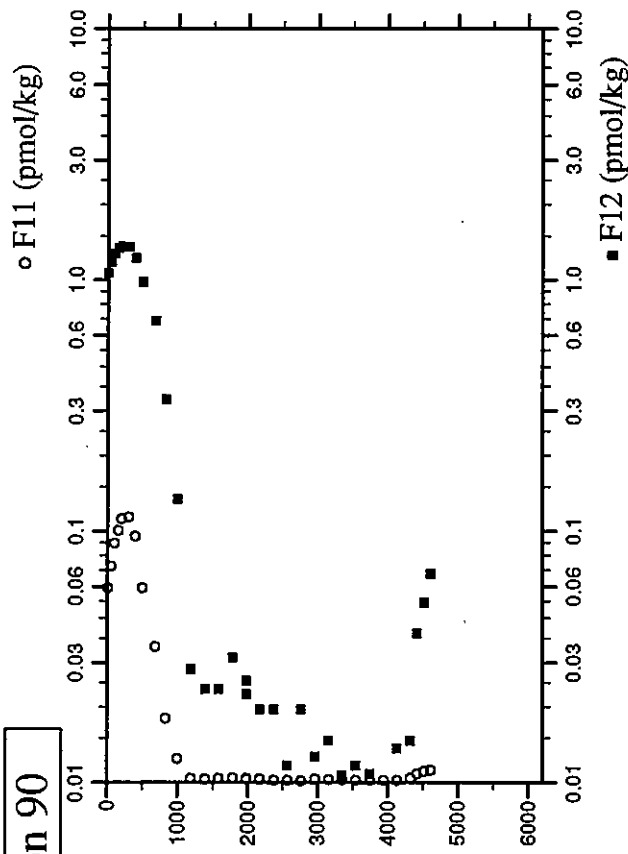
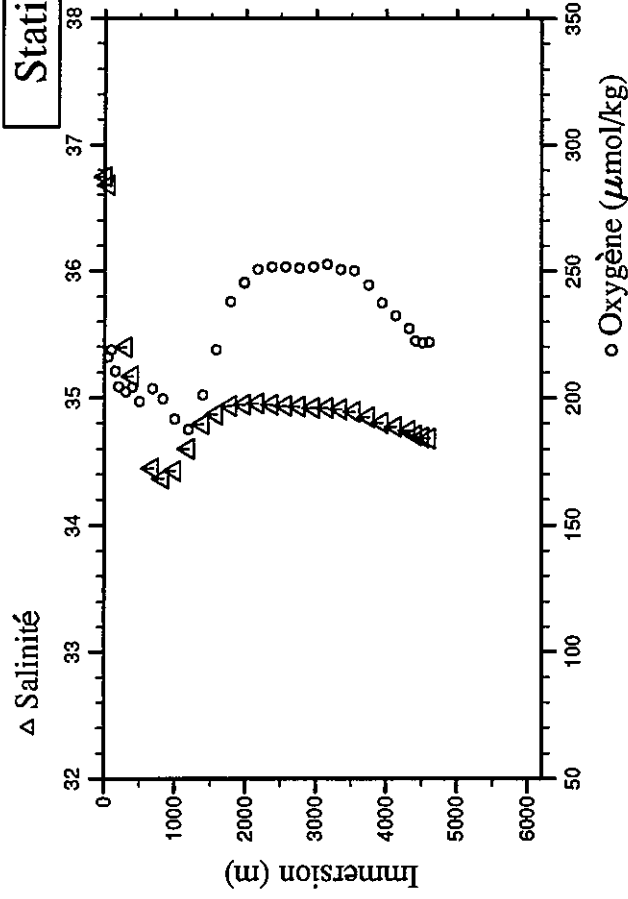
Station 89



Station : 90 Campagne : CITHER 2  
 Date : 04-02-94 Heure : 6 h 32 mn  
 Position : S 23 50.80 W 33 30.90  
 Dernier niveau à : 4699  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	PH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.4	4.4	27.874	23.7658	36.748	203.0	0.04	0.025	1.1	1.8026	1.0677	2034.77		8.420
49.9	49.6	24.860	24.8642	36.680	216.1	0.04	0.022	1.0	2.0062	1.1790	2047.77		8.379
101.9	101.2	21.987	25.8866	36.609	218.7	0.04	0.077	1.1	2.2185	1.2796	2066.20		8.364
151.2	150.2	20.181	26.3698	36.310	210.5	0.20	0.138	1.1	2.3400	1.3345	2073.74		8.322
198.4	197.0	18.509	26.7871	36.010	204.2	1.72	0.282	1.6	2.4456	1.3641	2086.37		8.268
299.7	297.6	14.713	27.6575	35.401	202.2	7.58	0.611	3.2	2.4621	1.3501	2096.10		8.190
400.9	398.0	12.620	28.3770	35.169	204.1	11.95	0.862	4.2	2.2875	1.2233	2110.83		8.143
502.1	498.3	10.056	29.0659	34.933	198.4	18.54	1.269	7.8	1.8054	0.9783	2133.80		8.063
680.6	675.2	6.233	30.1909	34.448	203.6	27.34	1.847	16.9	1.2619	0.6843	2165.42	2297.3	7.961
830.2	823.3	4.401	31.0533	34.364	199.4	31.64	2.129	28.6	0.5940	0.3344	2188.82	2304.4	7.912
999.6	990.9	3.407	32.0032	34.426	191.5	33.24	2.244	42.7	0.2193	0.1339	2210.49	2316.0	7.889
1200.9	1189.8	3.437	33.0549	34.602	187.5	31.71	2.112	42.7	0.0387	0.0283	2214.22	2323.9	7.901
1398.9	1385.4	3.766	34.0609	34.796	201.1	27.76	1.823	32.1	0.0235	0.0235	2197.47	2322.9	7.941
1599.9	1583.7	3.579	35.0483	34.871	218.7	24.77	1.635	30.4	0.0398	0.0235	2187.64	2325.9	7.979
1801.2	1782.1	3.508	36.0119	34.936	237.8	22.21	1.440	24.8	0.0451	0.0313	2172.92	2325.2	7.999
2000.2	1978.0	3.303	36.9394	34.958	245.3		1.403	24.8	0.0334	0.0225	2170.06	2325.0	8.013
2000.4	1978.2	3.299	36.9395	34.945	245.5	21.37	1.385	24.6	0.0348	0.0254	2170.06	2326.1	8.019
2199.6	2174.2	3.172	37.8532	34.954	250.6	20.98	1.336	24.1	0.0319	0.0195	2167.51	2327.1	8.027
2401.1	2372.3	2.983	38.7701	34.946	251.5	21.06	1.347	26.5	0.0211	0.0195	2169.16	2328.7	8.025
2599.9	2567.5	2.823	39.6691	34.938	251.5	21.22	1.351	28.8	0.0174	0.0117	2171.66	2330.4	8.027
2800.5	2764.3	2.683	40.5707	34.932	251.2	21.43	1.380	30.9	0.0126	0.0195	2174.59	2333.6	8.027
2999.7	2959.6	2.566	41.4597	34.923	251.7	21.43	1.373	32.4	0.0310	0.0127	2174.79	2337.6	8.023
3200.3	3156.0	2.444	42.3518	34.923	252.7	21.39	1.390	34.2	0.0238	0.0147	2176.39	2336.7	8.024
3399.1	3350.6	2.298	43.2361	34.910	250.7	21.64	1.400	36.6	0.0230	0.0107	2177.60	2338.9	8.019
3598.6	3545.6	2.039	44.1285	34.888	250.2	22.56	1.474	44.9	0.0212	0.0117	2186.15	2342.0	8.011
3799.5	3741.8	1.656	45.0376	34.852	244.6	24.62	1.607	59.6	0.0204	0.0108	2200.45	2351.4	7.995
3998.9	3936.4	1.217	45.9425	34.805	237.3	26.93	1.778	78.4	0.0197	0.0098	2217.25	2359.1	7.972
4198.7	4131.2	0.914	46.8322	34.773	232.3	28.73	1.903	91.3	0.0192	0.0137	2229.77	2365.3	7.951
4398.0	4325.4	0.625	47.7166	34.743	227.1	30.49	2.016	103.5	0.0147	0.0147	2241.37	2368.2	7.928
4496.6	4421.4	0.318	48.1733	34.708	222.4	31.93	2.143	115.1	0.0766	0.0391	2252.22	2371.4	7.917
4597.7	4519.7	0.113	48.6299	34.693	221.6	32.58	2.183	121.1	0.0999	0.0518	2254.92	2375.1	7.899
4696.7	4616.0	-0.016	49.0687	34.682	221.9	33.11	2.237	124.9	0.1124	0.0674	2256.51	2374.7	7.899

# Station 90

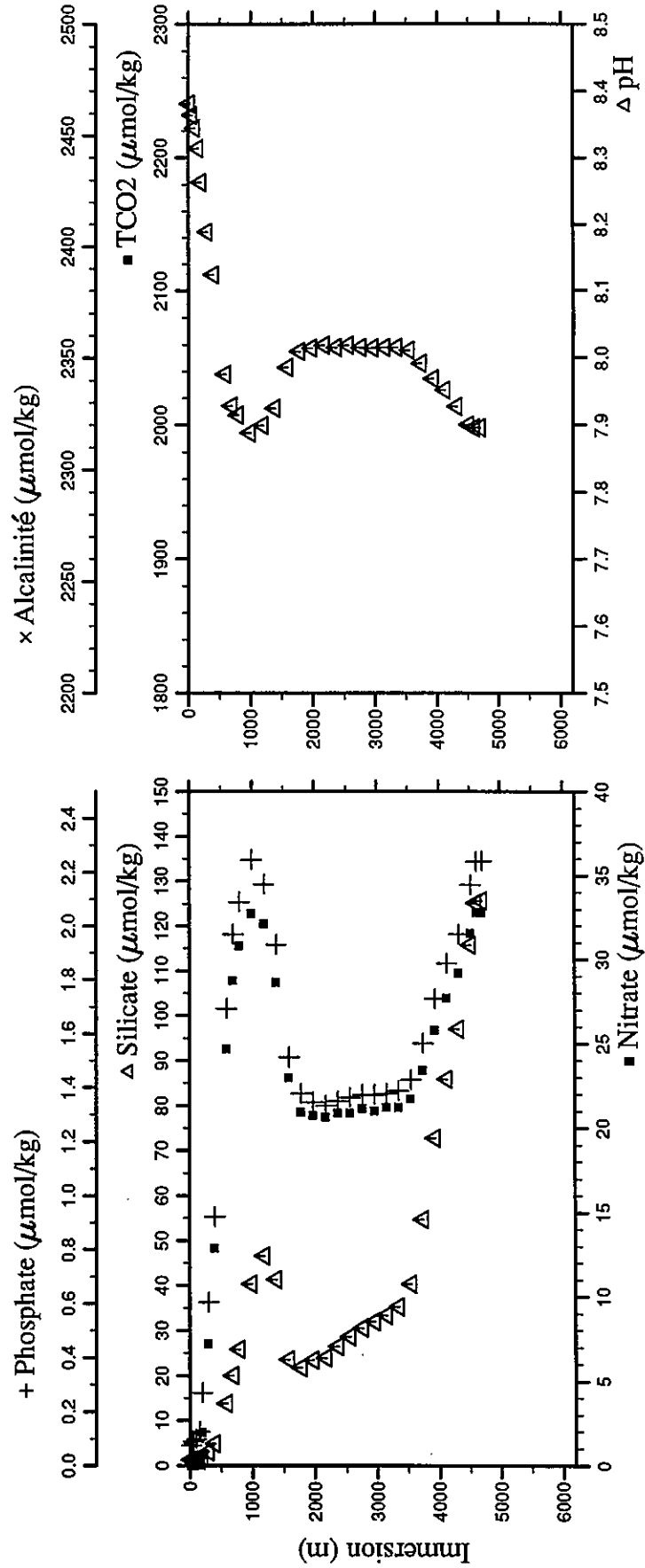
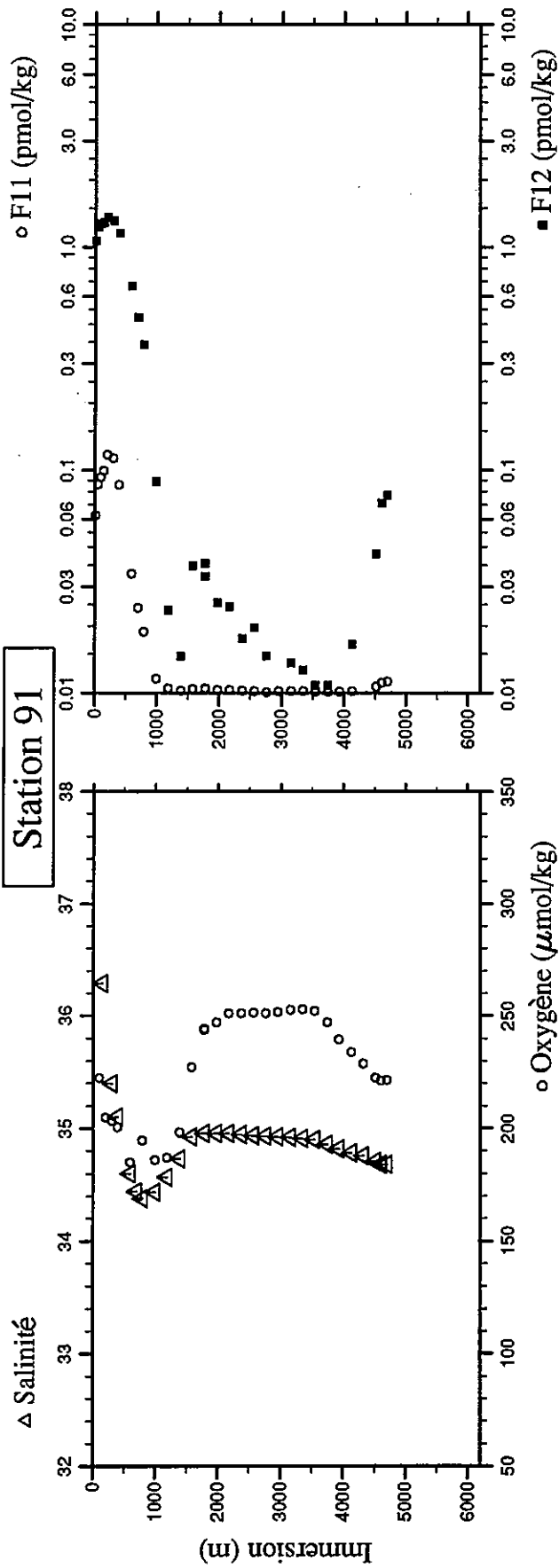




Station : 91 Campagne : CITHER 2  
 Date : 04-02-94 Heure : 12 h 20 mn  
 Position : S 23 27.55 W 33 10.36  
 Dernier niveau à : 4787  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
12.6	12.5	27.786	23.9548	36.895	r 202.4	r 0.00	0.074	1.3	1.8589	1.0669			8.381
51.4	51.1	23.722	25.2726	36.744	r 227.2	r 0.00	0.089	1.3	2.1829	1.2300			8.364
100.9	100.2	21.632	25.9102	36.505	r 222.4	0.00	0.098	1.3	2.2645	1.2771			8.345
149.7	148.7	20.024	26.3870	36.289	r 210.2	r 0.36	0.126	1.2	2.3274	1.2939			8.314
200.3	198.9	18.056	26.8537	35.938	r 204.7	1.98	0.269	1.6	2.4925	1.3578			8.263
301.4	299.3	14.739	27.6631	35.400	r 203.3	7.22	0.605	3.1	2.4568	1.3153			8.189
400.4	397.5	12.394	28.3701	35.104	200.6	12.87	0.922	4.9	2.1786	1.1524			8.124
500.8	596.1	7.827	29.7095	34.602	185.0	24.71	1.693	13.8	1.2460	0.6659			7.976
700.4	694.8	5.910	30.3256	34.442	189.3	28.73	1.970	20.0	0.8936	0.4841			7.929
800.5	793.9	4.788	30.8817	34.384	194.6	30.81	2.090	25.9	0.6431	0.3648			7.915
1000.3	991.6	3.598	31.9947	34.440	186.0	32.75	2.246	40.3	0.1516	0.0890			7.889
1199.6	1188.6	3.247	33.0507	34.571	187.1	32.13	2.155	46.6	0.0496	0.0235			7.900
1400.5	1387.0	3.354	34.0784	34.733	198.1	28.65	1.930	41.4	0.0254	0.0147			7.925
1600.5	1584.3	3.822	35.0617	34.924	227.1	22.98	1.514	23.6	0.0461	0.0371			7.986
1799.8	1780.7	3.530	36.0190	34.958	244.2	20.96	1.378	21.8	0.0450	0.0381			8.010
1800.1	1781.0	3.542	36.0197	34.956	243.8	20.96	1.378	21.8	0.0487	0.0332			8.010
1999.5	1977.4	3.315	36.9397	34.954	247.1	20.76	1.346	23.4	0.0329	0.0254			8.015
2199.5	2174.2	3.155	37.8564	34.955	251.0	20.63	1.333	24.0	0.0341	0.0244			8.019
2399.2	2370.5	2.970	38.7639	34.945	251.2	20.89	1.350	26.5	0.0229	0.0176			8.016
2599.2	2566.9	2.830	39.6649	34.935	251.3	20.89	1.364	28.6	0.0213	0.0196			8.019
2800.1	2764.0	2.700	40.5672	34.932	251.1	21.14	1.374	30.5	0.0075	0.0147			8.016
2998.1	2958.1	2.588	41.4492	34.927	251.6	21.02	1.373	31.9	0.0195	0.0098			8.015
3199.3	3155.1	2.474	42.3441	34.923	252.5	21.23	1.378	33.3	0.0202	0.0137			8.016
3399.0	3350.5	2.346	43.2300	34.913	253.0	21.23	1.389	35.2	0.0169	0.0127			8.016
3600.2	3547.2	2.142	44.1249	34.898	252.2	21.72	1.428	40.4	0.0135	0.0108			8.012
3799.8	3742.2	1.776	45.0263	34.861	247.1	23.42	1.564	54.7	0.0131	0.0108			7.992
3997.0	3934.7	1.337	45.9219	34.817	239.4	25.80	1.730	72.7	0.0126	0.0098			7.969
4199.6	4132.2	1.028	46.8252	34.785	233.8	27.71	1.861	85.9	0.0198	0.0166			7.952
4397.6	4325.1	0.759	47.7026	34.756	228.8	29.18	1.969	97.0	0.0663	0.0420			7.928
4597.9	4520.1	0.262	48.6137	34.708	222.3	31.55	2.154	115.0	0.1074	0.0714			7.901
4688.4	4608.1	-0.042	49.0376	34.681	221.0	32.81	2.240	125.1	0.1074	0.0714			7.896
4787.4	4704.4	-0.071	49.4643	34.680	221.3	32.77	2.243	125.7	0.1183	0.0772			7.896

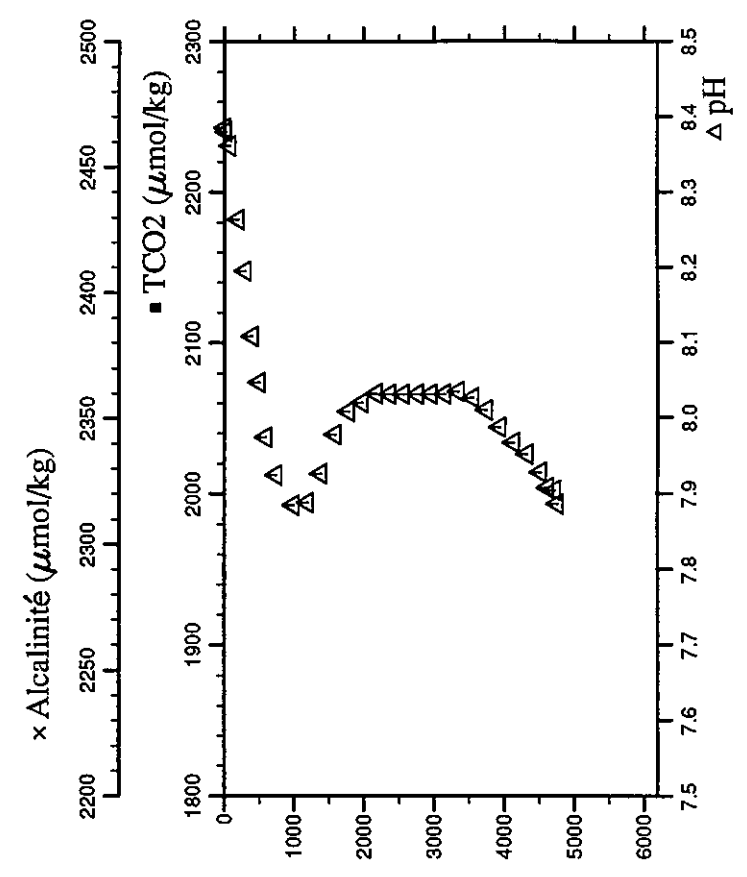
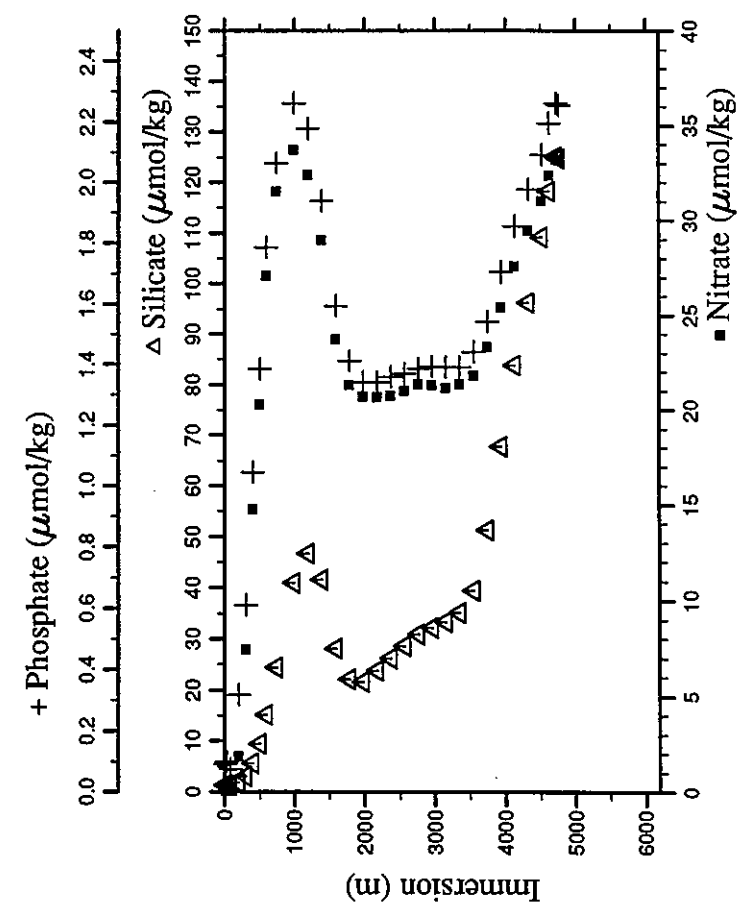
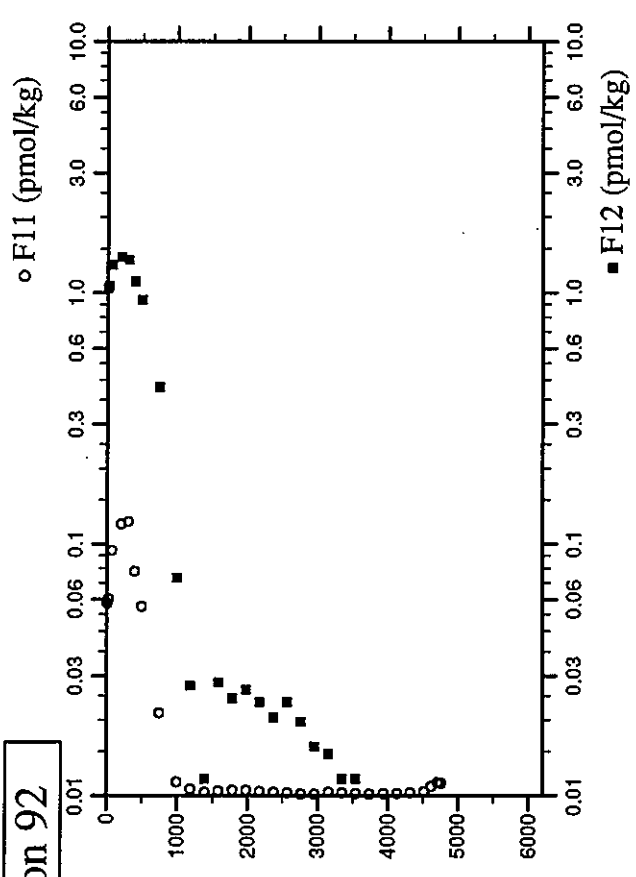
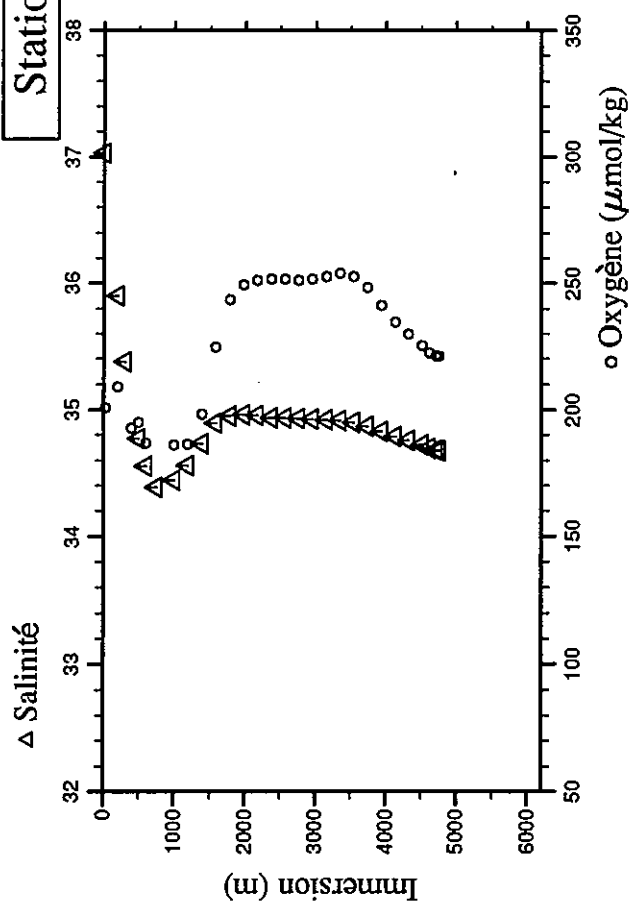
# Station 91



Station : 92 Campagne : CITHER 2  
 Date : 04-02-94 Heure : 18 h 24 mn  
 Position : S 23 4.01 W 32 49.46  
 Dernier niveau à : 4844  
 Nb Prélèvements : 31

PRESSION CHIMIE	IMMERSION metres	TEMP.POT. SONDE	deg.cels.	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	um/kg	PHOSPHATE	um/kg	SILICATE	F11	pmol/kg	F12	pmol/kg	CARBONE INORG.TOT. NITE	um/kg	ALCALI- NITE	um/kg	PH
2.5	2.5	28.644		23.7219	37.030	197.6	r	0.04	0.092	1.3	1.3	1.7799	1.0414	1.0414	1.7799	1.3	1.0414	1.7799	8.385	
26.7	26.5	27.709		24.0875	36.964	r		0.04	0.098	1.3	1.3	1.8242	1.0629	1.0629	1.8242	1.3	1.0629	1.8242	8.380	
74.9	74.4	22.330		25.5744	36.476	r	r	0.12	0.074	1.3	1.3	2.2712	1.2918	1.2918	2.2712	1.3	1.2918	2.2712	8.362	
200.0	198.6	17.923		26.8492	35.901			1.87	0.318	1.8	1.8	2.5165	1.3871	1.3871	2.5165	1.8	1.3871	2.5165	8.264	
302.1	300.0	14.650		27.6697	35.380		r	7.44	0.611	3.1	3.1	2.5426	1.3564	1.3564	2.5426	3.1	1.3564	2.5426	8.196	
400.6	397.7	12.015		28.4122	35.052	r		14.79	1.046	5.7	5.7	2.0761	1.1084	1.1084	2.0761	5.7	1.1084	2.0761	8.109	
500.8	497.0	9.592		29.0945	34.772			20.29	1.384	9.4	9.4	1.7550	0.9356	0.9356	1.384	9.4	0.9356	1.7550	8.048	
600.5	595.9	7.345		29.7457	34.557			27.07	1.787	15.2	15.2	0.7673	0.4234	0.4234	1.787	15.2	0.4234	0.7673	7.975	
750.1	744.0	5.016		30.6230	34.386		r	31.52	2.065	24.4	24.4	0.1248	0.0733	0.0733	2.065	24.4	0.0733	0.1248	7.925	
1000.8	992.1	3.552		32.0076	34.444			33.74	2.261	41.0	41.0	0.0599	0.0274	0.0274	2.261	41.0	0.0274	0.0599	7.885	
1201.2	1190.2	3.246		33.0499	34.560			32.41	2.178	46.7	46.7	0.0302	0.0117	0.0117	2.178	46.7	0.0117	0.0302	7.889	
1400.7	1387.2	3.354		34.0792	34.730			28.99	1.939	41.6	41.6	0.0425	0.0283	0.0283	1.939	41.6	0.0283	0.0425	7.927	
1600.6	1584.4	3.567		35.0674	34.893			23.73	1.594	28.1	28.1	0.0506	0.0244	0.0244	1.594	28.1	0.0244	0.0506	7.979	
1800.1	1781.1	3.549		36.0120	34.950			21.33	1.411	22.2	22.2	0.0489	0.0264	0.0264	1.411	22.2	0.0264	0.0489	8.009	
1999.4	1977.4	3.372		36.9385	34.961			20.70	1.341	21.7	21.7	0.0396	0.0235	0.0235	1.341	21.7	0.0235	0.0396	8.021	
2199.3	2174.0	3.178		37.8535	34.955			20.67	1.343	23.8	23.8	0.0292	0.0205	0.0205	1.343	23.8	0.0205	0.0292	8.033	
2399.7	2371.0	2.979		38.7655	34.936			20.75	1.359	26.2	26.2	0.0229	0.0235	0.0235	1.359	26.2	0.0235	0.0229	8.032	
2599.2	2566.9	2.826		39.6670	34.938			21.03	1.370	28.6	28.6	0.0166	0.0196	0.0196	1.370	28.6	0.0196	0.0166	8.032	
2799.4	2763.4	2.687		40.5651	34.931			21.35	1.386	30.9	30.9	0.0109	0.0156	0.0156	1.386	30.9	0.0156	0.0109	8.032	
2997.7	2957.8	2.566		41.4507	34.925			21.31	1.392	32.2	32.2	0.0293	0.0147	0.0147	1.392	32.2	0.0147	0.0293	8.032	
3198.4	3154.3	2.462		42.3421	34.923			21.14	1.391	33.4	33.4	0.0166	0.0117	0.0117	1.391	33.4	0.0117	0.0166	8.032	
3398.7	3350.3	2.343		43.2290	34.916			21.34	1.391	35.1	35.1	0.0166	0.0088	0.0088	1.391	35.1	0.0088	0.0166	8.035	
3598.3	3545.5	2.168		44.1138	34.901			21.78	1.441	39.5	39.5	0.0270	0.0117	0.0117	1.441	39.5	0.0117	0.0270	8.027	
3798.5	3741.0	1.851		45.0128	34.869			23.33	1.541	51.3	51.3	0.0166	0.0088	0.0088	1.541	51.3	0.0088	0.0166	8.011	
3999.2	3936.9	1.451		45.9197	34.829			25.42	1.707	67.8	67.8	0.0196	0.0088	0.0088	1.707	67.8	0.0088	0.0196	7.988	
4199.2	4131.9	1.083		46.8160	34.791			27.59	1.856	83.8	83.8	0.0204	0.0078	0.0078	1.856	83.8	0.0078	0.0204	7.968	
4398.9	4326.5	0.773		47.7071	34.756			29.50	1.978	96.3	96.3	0.0240	0.0088	0.0088	1.978	96.3	0.0088	0.0240	7.952	
4597.6	4519.9	0.429		48.5941	34.723			31.01	2.091	109.2	109.2	0.0354	0.0108	0.0108	2.091	109.2	0.0108	0.0354	7.929	
4699.4	4618.9	0.173		49.0588	34.698			32.36	2.196	118.3	118.3	0.0841	0.0430	0.0430	2.196	118.3	0.0430	0.0841	7.908	
4799.3	4716.0	-0.050		49.5117	34.680			33.22	2.262	125.1	125.1	0.1233	0.0548	0.0548	2.262	125.1	0.0548	0.1233	7.905	
4841.9	4757.5	-0.063		49.6948	34.678			33.16	2.256	124.7	124.7	0.1134	0.0479	0.0479	2.256	124.7	0.0479	0.1134	7.887	

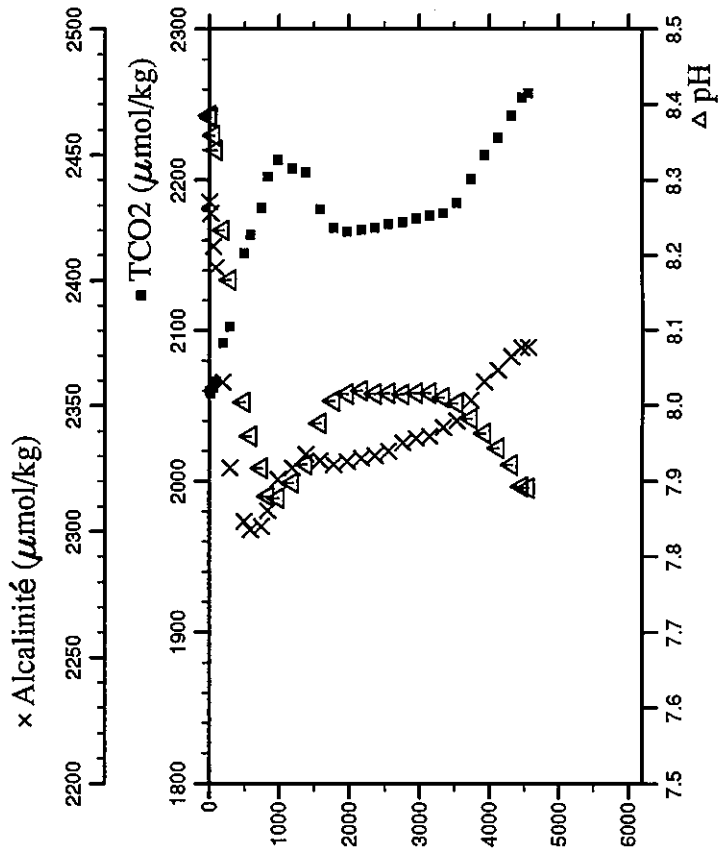
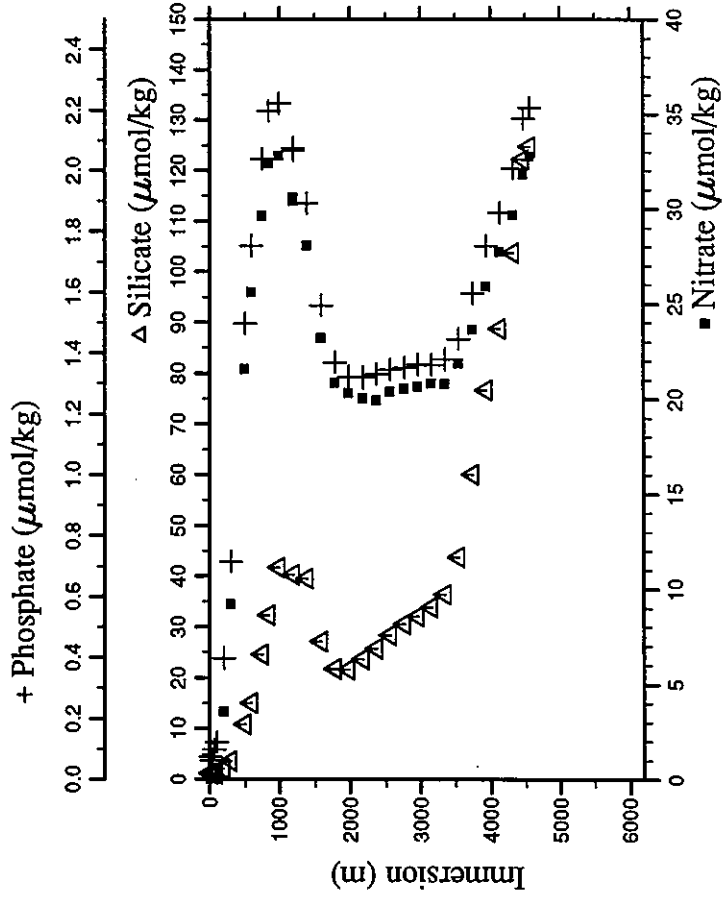
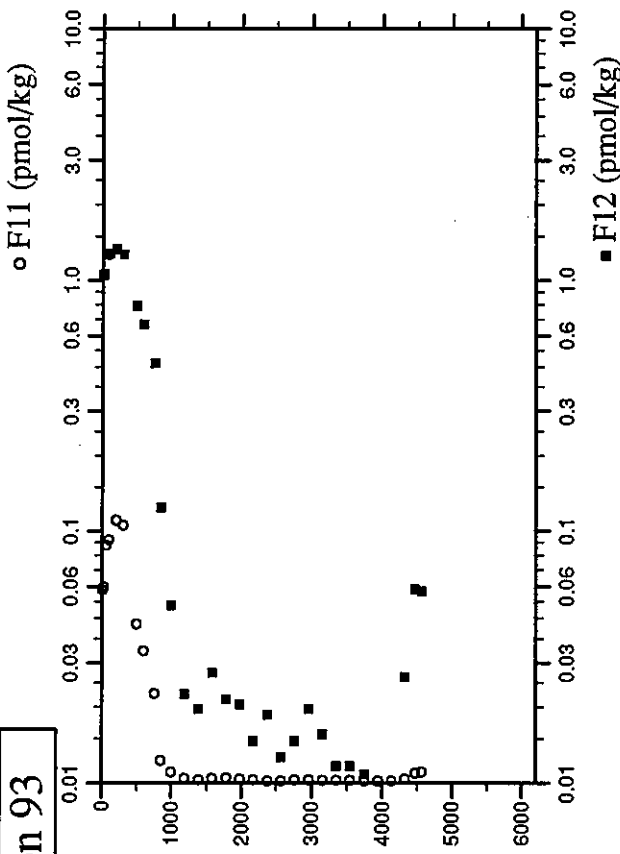
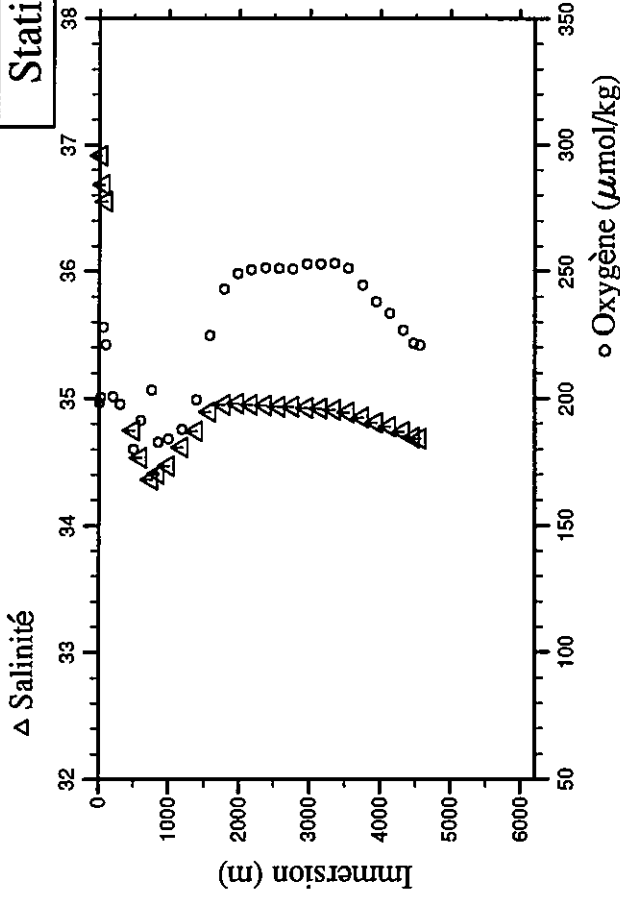
**Station 92**



Station : 93 Campagne : CITHER 2  
 Date : 05-02-94 Heure : 0 h 14 mn  
 Position : S 22 40.83 W 32 28.93  
 Dernier niveau à : 4646  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.4	5.4	28.137	23.8175	36.952	198.3	0.04	0.074	1.2	1.7892	1.0464	2059.74	2431.4	8.385
21.1	21.0	27.806	23.9844	36.913	200.5	0.04	0.062	1.1	1.8153	1.0601	2058.27	2426.7	8.383
61.4	61.0	23.129	25.4364	36.687	228.0	0.04	0.098	1.2	2.2011	1.2584	2062.07	2413.4	8.359
101.5	100.8	21.757	25.8979	36.552	221.0	0.04	0.122	1.1	2.2487	1.2732	2066.12	2405.0	8.340
200.5	199.1	17.342	26.9374	35.807	200.7	3.55	0.398	2.1	2.4372	1.3325	2091.48	2359.4	8.234
301.2	299.1	14.215	27.7203	35.320	197.8	9.18	0.715	3.6	2.3860	1.2724	2102.86	2325.4	8.168
500.7	497.0	9.327	29.1203	34.748	179.8	21.55	1.497	10.8	1.4759	0.7919	2151.43	2303.9	8.005
600.7	596.1	7.197	29.7537	34.535	191.3	25.58	1.753	15.0	1.2249	0.6649	2163.56	2300.7	7.960
755.6	749.5	4.788	30.6655	34.362	203.4	29.64	2.038	24.6	0.8283	0.6455	2181.31	2301.8	7.918
850.2	843.1	4.243	31.2020	34.407	182.6	32.38	2.197	32.4	0.2090	0.1242	2202.47	2308.2	7.880
1000.8	992.1	3.521	32.0258	34.469	184.1	32.79	2.223	41.8	0.1036	0.0508	2213.43	2320.6	7.878
1199.5	1188.5	3.502	33.0534	34.618	187.7	30.56	2.066	40.4	0.0445	0.0225	2207.97	2325.4	7.898
1399.6	1386.2	3.385	34.0729	34.744	187.8	30.41	2.074	40.3	0.0426	0.0225	2325.4	2325.4	7.898
1600.1	1584.0	3.630	35.0619	34.896	199.4	28.07	1.892	39.6	0.0299	0.0196	2205.05	2330.6	7.923
1800.1	1781.1	3.518	36.0189	34.952	224.7	23.18	1.556	27.1	0.0427	0.0274	2180.83	2328.1	7.977
1999.4	1977.4	3.348	36.9405	34.959	242.9	20.85	1.370	21.8	0.0476	0.0215	2168.21	2326.5	8.007
2200.6	2175.4	3.138	37.8627	34.952	249.1	20.32	1.322	21.6	0.0367	0.0205	2165.64	2327.8	8.016
2400.0	2371.4	2.970	38.7681	34.945	251.4	20.04	1.321	23.7	0.0313	0.0147	2167.20	2329.1	8.020
2601.2	2569.0	2.814	39.6767	34.938	251.0	20.37	1.332	25.7	0.0199	0.0186	2168.55	2330.2	8.016
2798.5	2762.6	2.679	40.5618	34.938	250.9	20.54	1.347	28.4	0.0212	0.0127	2171.02	2332.0	8.017
3000.2	2960.3	2.558	41.4622	34.927	252.8	20.63	1.364	32.1	0.0302	0.0147	2172.37	2335.1	8.015
3198.5	3154.5	2.440	42.3448	34.921	252.8	20.82	1.362	33.8	0.0285	0.0156	2174.60	2336.9	8.017
3397.8	3349.5	2.282	43.2328	34.909	253.1	20.78	1.348	36.4	0.0271	0.0117	2178.30	2341.2	8.011
3596.7	3544.0	2.045	44.1196	34.888	251.0	21.88	1.445	43.8	0.0254	0.0117	2184.92	2343.9	8.003
3799.6	3742.2	1.639	45.0400	34.849	244.6	23.64	1.596	60.0	0.0210	0.0108	2200.66	2351.9	7.983
3998.8	3936.6	1.254	45.9383	34.809	238.0	25.91	1.753	76.7	0.0193	0.0078	2216.05	2359.3	7.963
4198.9	4131.7	0.960	46.8298	34.779	233.4	27.74	1.861	88.8	0.0204	0.0078	2227.87	2363.8	7.944
4398.1	4325.8	0.619	47.7192	34.740	226.8	29.67	2.008	103.8	0.0379	0.0264	2242.03	2369.3	7.922
4547.1	4470.9	0.095	48.4145	34.694	221.5	31.81	2.172	122.2	0.0903	0.0587	2253.80	2372.8	7.893
4644.5	4565.6	-0.003	48.8440	34.683	220.9	32.73	2.208	124.8	0.1001	0.0577	2256.76	2373.2	7.891

**Station 93**

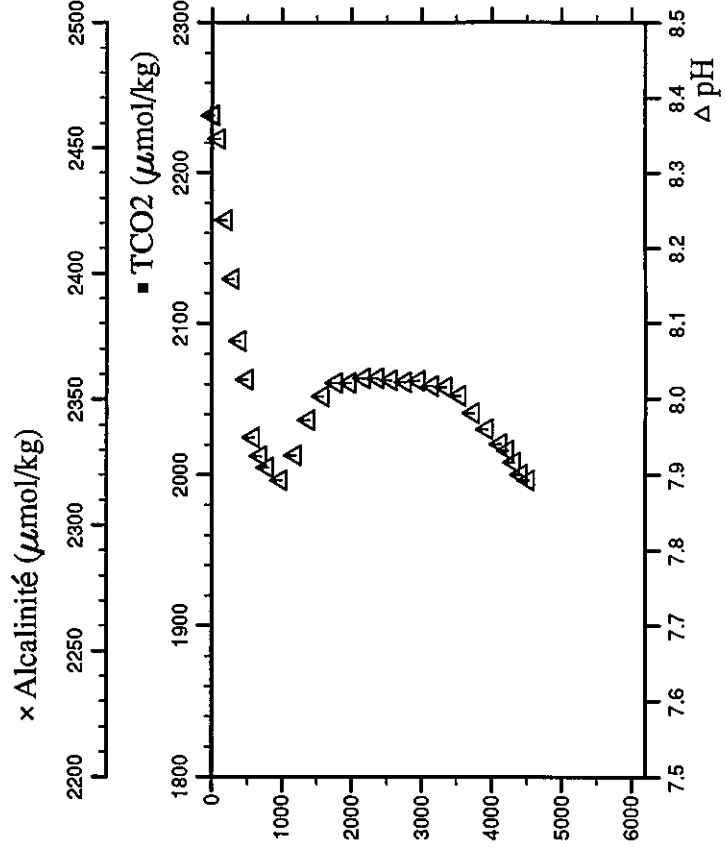
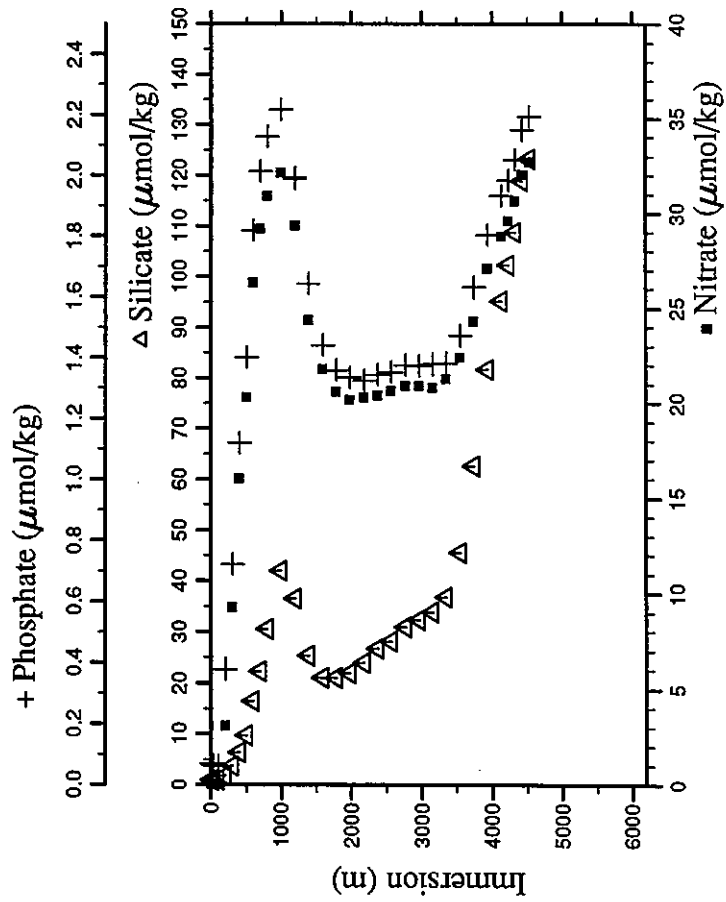
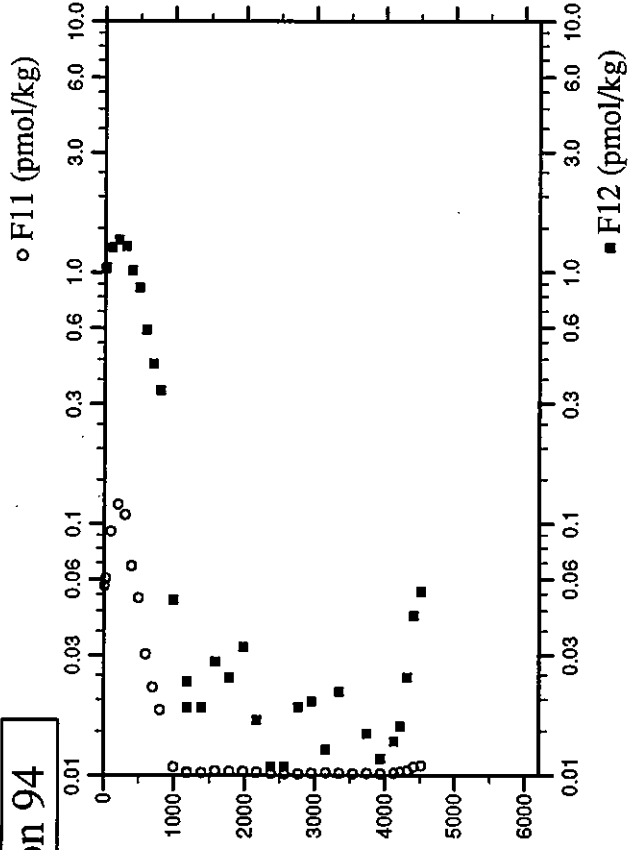
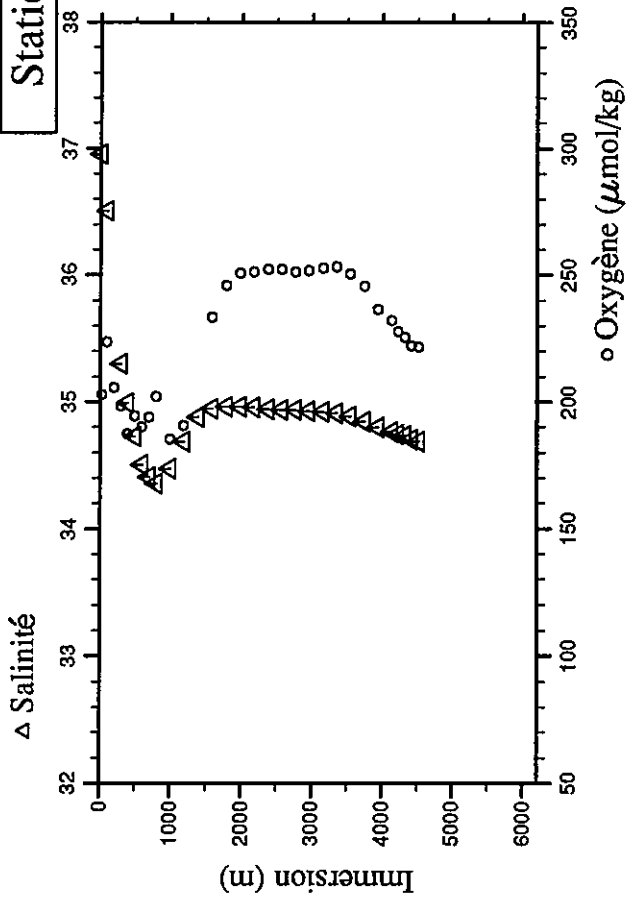


Δ pH

Station : 94 Campagne : CITHER 2  
 Date : 05-02-94 Heure : 5 h 57 mn  
 Position : S 22 17.25 W 32 8.13  
 Dernier niveau à : 4606  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION metres	TEMP. POT. SONDE	deg.cels.	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	um/kg	PHOSPHATE	um/kg	SILICATE	F11	pmol/kg	F12	pmol/kg	CARBONE INORG.TOT. NITE	um/kg	ALCALI-	um/kg	pH
4.9	4.9	28.288		23.7889	36.954	197.4	r	0.04	0.071	0.9	1.7580	1.0307	1.0307	1.0307	8.377				8.377	
26.5	26.3	27.602		24.0845	36.932	r	0.04	0.04	0.065	0.9	1.8294	1.0474	1.0474	1.0474	8.377				8.377	
100.5	99.8	21.664		25.8898	36.507	223.7		0.04	0.062	0.9	2.2619	1.2517	1.2517	1.2517	8.346				8.346	
202.0	200.6	17.187		26.9529	35.781	r	205.5	3.10	0.378	1.8	2.5140	1.3472	1.3472	1.3472	8.237				8.237	
301.3	299.2	14.072		27.7318	35.303	198.1		9.28	0.721	3.7	2.4142	1.2724	1.2724	1.2724	8.159				8.159	
400.0	397.1	11.564		28.4485	34.994	187.3		16.02	1.120	6.4	1.9413	1.0185	1.0185	1.0185	8.077				8.077	
501.2	497.5	9.132		29.1372	34.727	194.5		20.31	1.401	9.7	1.6472	0.8682	0.8682	0.8682	8.026				8.026	
601.8	597.2	6.760		29.7995	34.505	190.1		26.35	1.819	16.4	1.1241	0.5887	0.5887	0.5887	7.950				7.950	
700.9	695.3	5.328		30.3759	34.406	194.0		29.20	2.014	22.3	0.8136	0.4313	0.4313	0.4313	7.910				7.910	
801.3	794.8	4.155		30.9472	34.357	202.1		30.93	2.128	30.5	0.6068	0.3403	0.3403	0.3403	7.925				7.925	
1001.6	992.9	3.485		32.0390	34.475	185.2		32.15	2.217	42.0	0.0819	0.0499	0.0499	0.0499	7.893				7.893	
1201.3	1190.4	3.661		33.0936	34.687	190.7		29.35	1.988	36.5	0.0324	0.0235	0.0235	0.0235	7.926				7.926	
1201.4	1190.5	3.665		33.0939	34.686	190.7		24.37	1.992	36.5	0.0271	0.0186	0.0186	0.0186	7.973				7.973	
1400.4	1387.0	3.927		34.1088	34.881	212.6	r	21.79	1.643	25.4	0.0284	0.0186	0.0186	0.0186	8.004				8.004	
1601.1	1585.0	3.807		35.0805	34.945	233.2		20.61	1.442	21.0	0.0409	0.0283	0.0283	0.0283	8.022				8.022	
1800.3	1781.4	3.536		36.0227	34.960	245.8		20.16	1.358	21.0	0.0348	0.0244	0.0244	0.0244	8.022				8.022	
2000.0	1978.0	3.334		36.9455	34.963	250.5		20.32	1.336	21.9	0.0368	0.0323	0.0323	0.0323	8.028				8.028	
2199.4	2174.2	3.126		37.8592	34.954	251.2		20.41	1.326	24.0	0.0318	0.0166	0.0166	0.0166	8.028				8.028	
2400.1	2371.5	2.919		38.7756	34.942	252.1		20.65	1.345	26.7	0.0197	0.0108	0.0108	0.0108	8.025				8.025	
2600.1	2568.0	2.827		39.6697	34.938	252.0		20.91	1.353	28.2	0.0153	0.0108	0.0108	0.0108	8.023				8.023	
2799.9	2764.0	2.670		40.5689	34.936	251.0		20.91	1.375	30.9	0.0137	0.0186	0.0186	0.0186	8.023				8.023	
2997.8	2958.0	2.553		41.4518	34.928	251.5		20.90	1.374	32.3	0.0200	0.0196	0.0196	0.0196	8.018				8.018	
3199.8	3155.9	2.433		42.3523	34.919	252.6		20.82	1.380	33.8	0.0228	0.0215	0.0215	0.0215	8.016				8.016	
3399.1	3350.9	2.283		43.2371	34.909	253.2		21.28	1.383	36.8	0.0208	0.0208	0.0208	0.0208	8.005				8.005	
3599.6	3546.9	2.015		44.1349	34.885	250.4		22.42	1.474	45.5	0.0155	0.0147	0.0147	0.0147	7.982				7.982	
3799.8	3742.5	1.581		45.0458	34.844	245.4		24.29	1.633	62.6	0.0175	0.0155	0.0155	0.0155	7.961				7.961	
3999.0	3936.9	1.163		45.9466	34.799	236.4		27.09	1.804	81.7	0.0123	0.0117	0.0117	0.0117	7.941				7.941	
4199.6	4132.5	0.845		46.8430	34.764	232.1		28.77	1.933	95.1	0.0219	0.0137	0.0137	0.0137	7.933				7.933	
4297.8	4228.2	0.669		47.2825	34.745	227.8		29.59	1.983	102.2	0.0308	0.0156	0.0156	0.0156	7.917				7.917	
4399.0	4326.8	0.506		47.7347	34.730	225.3		30.66	2.051	108.8	0.0418	0.0244	0.0244	0.0244	7.901				7.901	
4495.8	4421.0	0.207		48.1805	34.701	222.0		32.03	2.149	118.9	0.0764	0.0430	0.0430	0.0430	7.893				7.893	
4601.6	4524.0	0.049		48.6518	34.686	221.6		32.70	2.193	123.2	0.0910	0.0538	0.0538	0.0538						

# Station 94

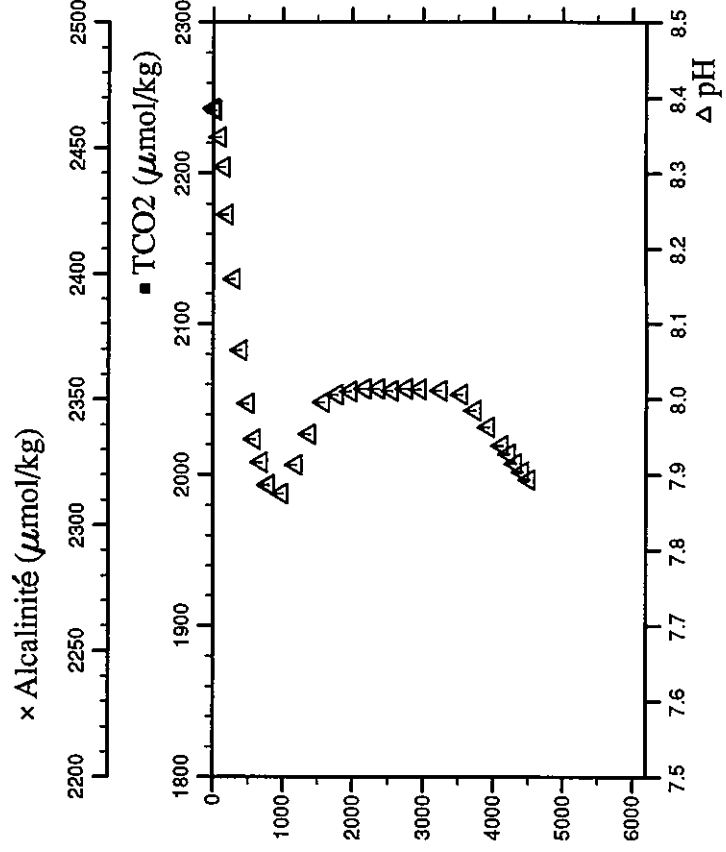
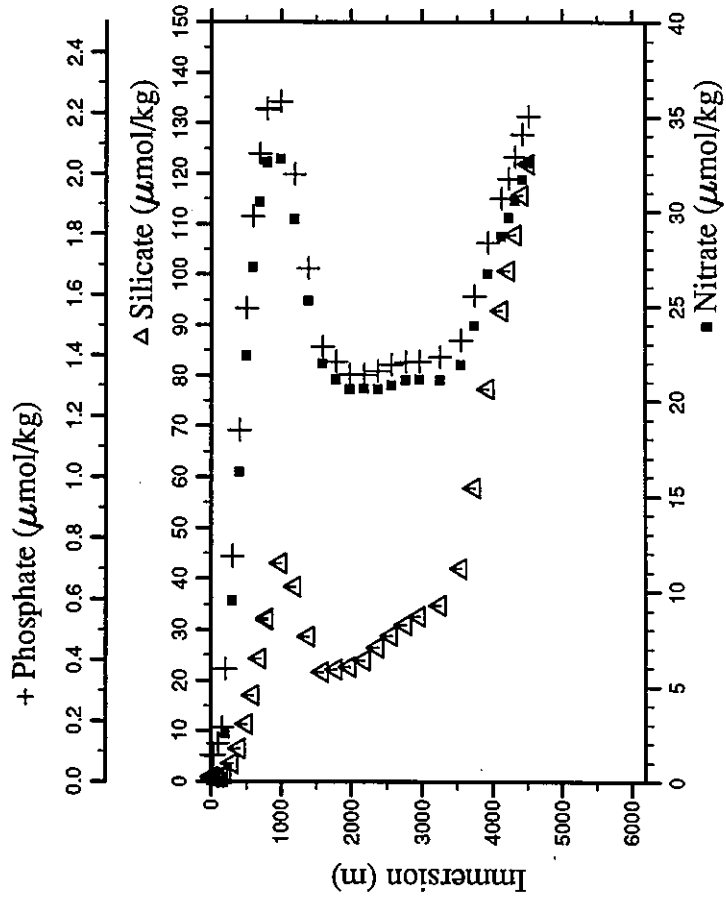
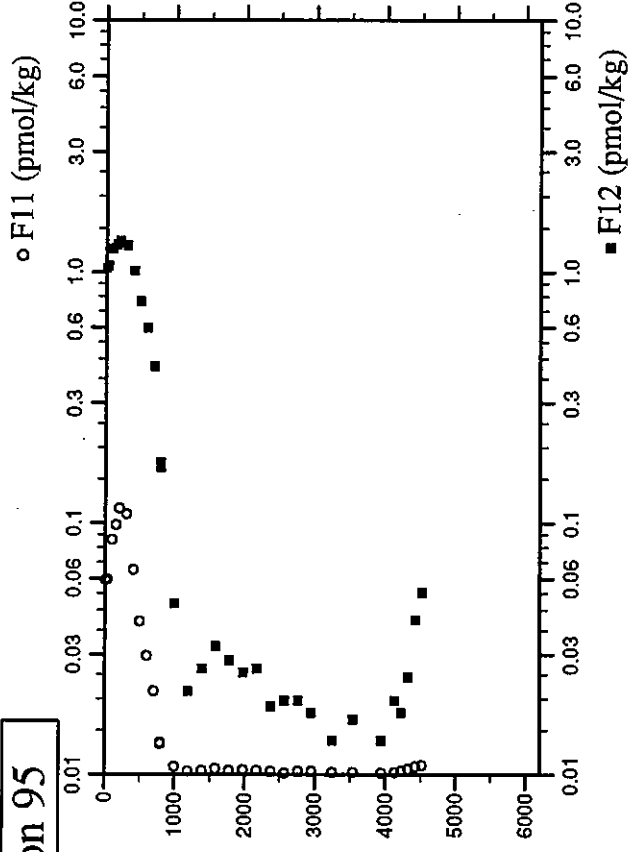
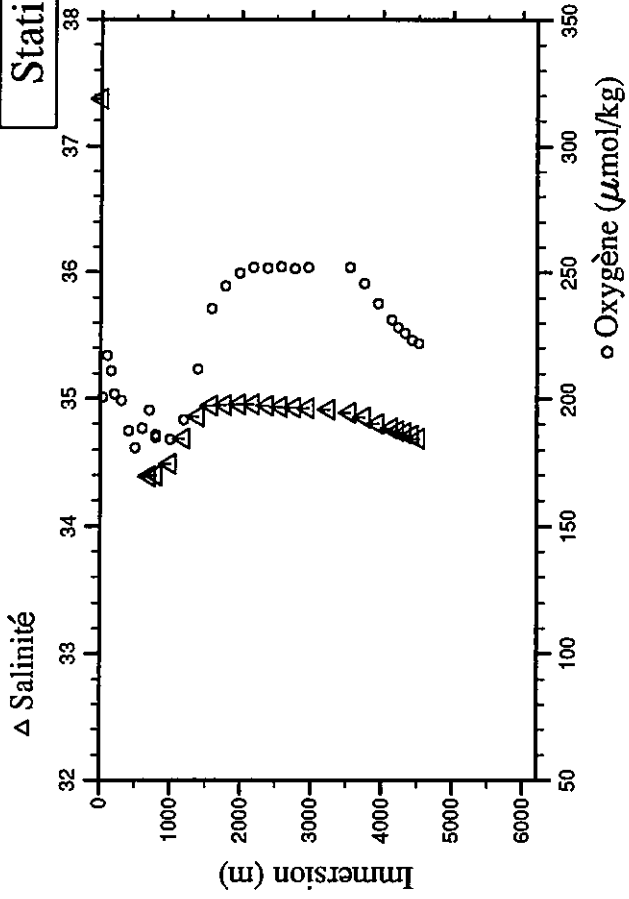




Station : 95 Campagne : CITHER 2  
 Date : 05-02-94 Heure : 16 h 35 mn  
 Position : S 21 54.20 W 31 47.54  
 Dernier niveau à : 4598  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT. NITE	ALCALI-NITE	pH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.5	4.5	28.385	24.0734	37.372	197.7	0.04	0.087	0.9	1.8053	1.0363			8.386
31.0	30.8	27.942	24.3180	37.314	200.4	0.04	0.087	0.8	1.8091	1.0571			8.384
100.2	99.6	22.722	25.8065	36.776	217.1	0.04	0.126	0.8	2.1810	1.2382			8.348
151.2	150.2	20.770	26.3005	36.429	210.9	0.04	0.178	0.9	2.3163	1.2874			8.308
201.9	200.5	18.203	26.8447	35.961	201.8	2.50	0.372	1.6	2.4702	1.3318			8.246
301.8	299.7	14.077	27.7376	35.298	199.3	9.51	0.740	3.6	2.4178	1.2777			8.160
402.1	399.2	11.525	28.4639	34.987	187.3	16.27	1.154	6.5	1.8980	1.0071			8.065
500.7	497.0	8.976	29.1683	34.716	180.8	22.38	1.555	11.4	1.4183	0.7628			7.995
600.2	595.6	6.799	29.7986	34.508	188.3	27.04	1.859	17.1	1.1013	0.5947			7.947
701.1	695.6	5.104	30.3999	34.390	195.3	30.51	2.066	24.3	0.7725	0.4197			7.917
800.5	794.0	4.302	30.9626	34.397	185.7	32.59	2.213	32.0	0.2884	0.1663			7.887
800.6	794.1	4.316	30.9609	34.401	184.7	32.65	2.214	32.2	0.2986	0.1741			7.886
1000.7	992.1	3.476	32.0509	34.486	183.9	32.78	2.238	43.0	0.0729	0.0479			7.875
1200.3	1189.4	3.562	33.1046	34.689	191.6	29.60	1.999	38.4	0.0290	0.0215			7.913
1401.3	1387.9	3.800	34.1163	34.859	211.8	25.30	1.688	28.6	0.0401	0.0264			7.954
1599.9	1583.9	3.767	35.0835	34.947	235.7	21.96	1.429	21.7	0.0530	0.0323			7.996
1798.4	1779.5	3.470	36.0202	34.953	244.4	21.12	1.380	22.2	0.0405	0.0284			8.007
1999.3	1977.4	3.291	36.9480	34.956	249.6	20.61	1.337	22.7	0.0449	0.0254			8.011
2199.7	2174.6	3.143	37.8603	34.954	251.9	20.63	1.335	23.9	0.0371	0.0264			8.014
2399.4	2370.9	2.963	38.7684	34.946	251.6	20.60	1.349	26.5	0.0311	0.0186			8.014
2600.4	2568.3	2.806	39.6753	34.937	252.2	20.80	1.369	28.8	0.0141	0.0196			8.012
2798.8	2763.0	2.667	40.5670	34.930	251.3	21.09	1.379	30.9	0.0303	0.0196			8.014
2998.2	2958.5	2.548	41.4561	34.924	251.8	21.13	1.381	32.6	0.0295	0.0176			8.013
3299.5	3253.5	2.362	42.7968	34.917	251.0	21.09	1.394	34.8	0.0219	0.0137			8.012
3598.9	3546.3	2.099	44.1257	34.892	251.8	21.91	1.449	42.0	0.0193	0.0166			8.007
3799.1	3741.9	1.692	45.0336	34.853	245.5	23.96	1.597	57.9	0.0155	0.0137			7.985
3998.6	3936.6	1.251	45.9381	34.806	237.7	26.71	1.771	77.4	0.0171	0.0137			7.963
4198.3	4131.4	0.889	46.8342	34.769	231.3	28.69	1.919	92.9	0.0176	0.0196			7.939
4299.2	4229.7	0.698	47.2881	34.748	228.3	29.66	1.983	100.7	0.0342	0.0176			7.928
4399.3	4327.2	0.526	47.7345	34.732	225.9	30.58	2.057	107.8	0.0490	0.0244			7.915
4499.1	4424.4	0.302	48.1882	34.710	223.1	31.70	2.131	115.7	0.0719	0.0411			7.904
4597.4	4520.0	0.079	48.6333	34.689	221.9	32.57	2.190	122.0	0.0874	0.0528			7.894

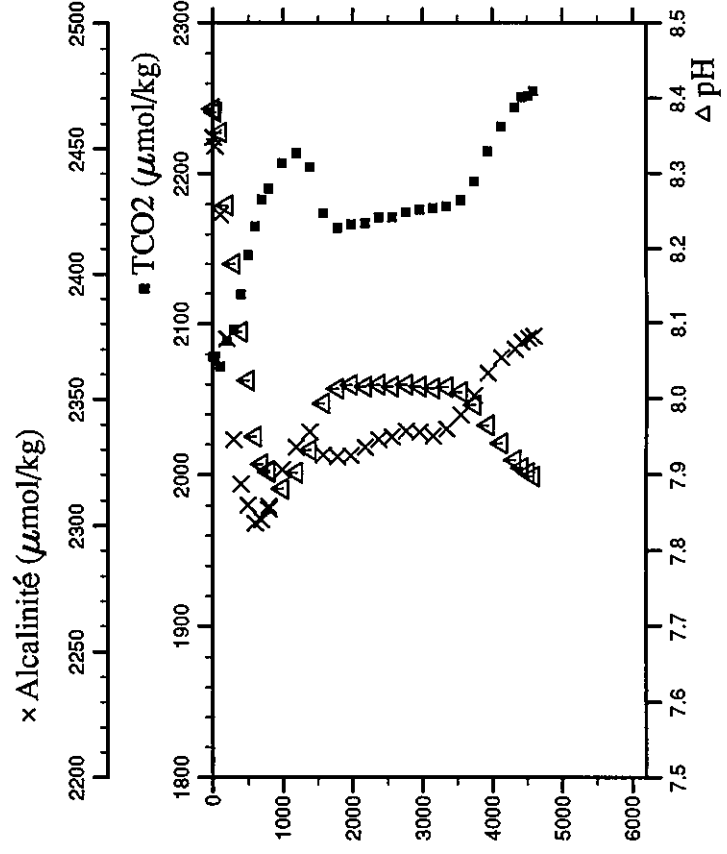
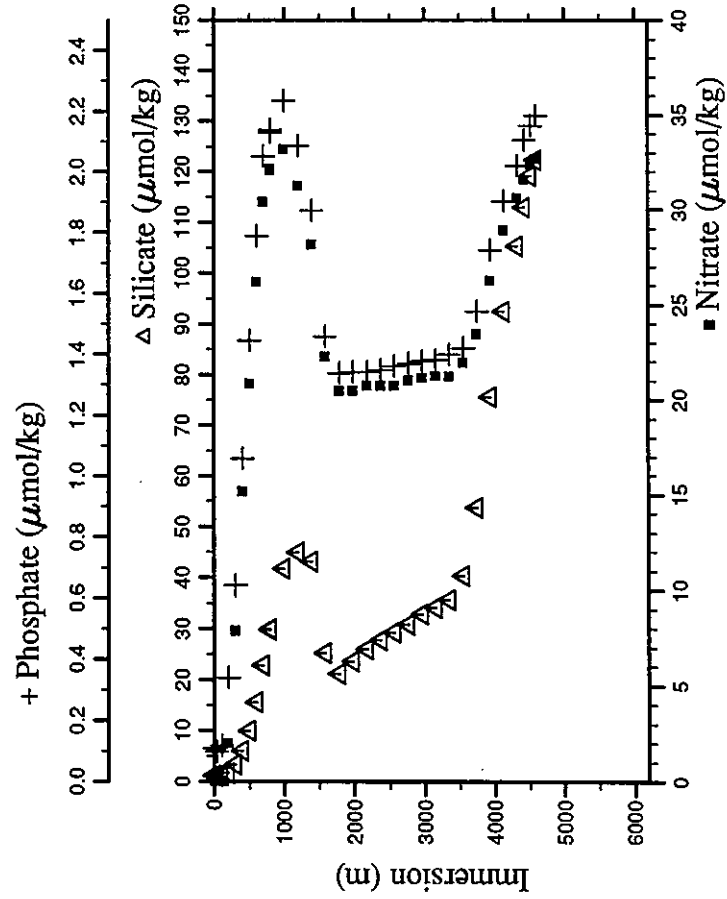
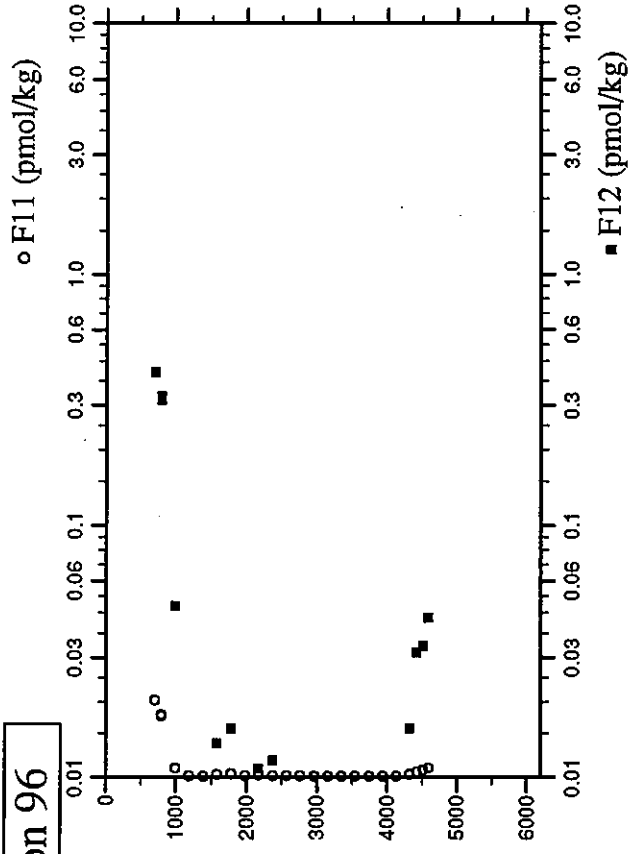
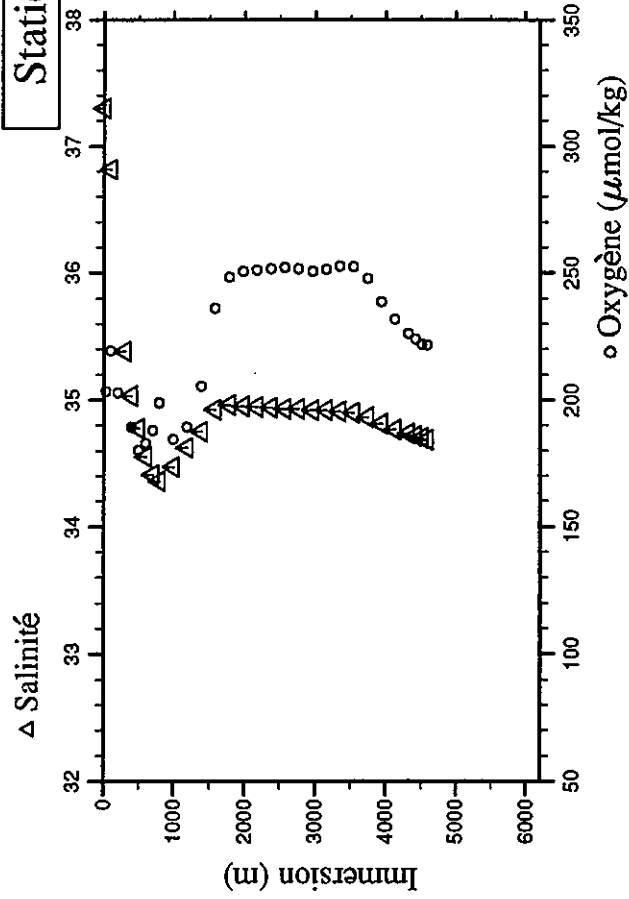
# Station 95



Station : 96 Campagne : CITHER 2  
 Date : 05-02-94 Heure : 22 h 35 mn  
 Position : S 21 31.07 W 31 27.29  
 Dernier niveau à : 4675  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION metres	TEMP. POT. SONDE	deg.cels.	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
dbar					um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.8	5.8	28.097		24.1175	37.299	197.9	0.04	0.108	1.2			2078.15	2454.5	8.386
31.7	31.5	27.592		24.3531	37.229	203.3	0.04	0.099	1.1			2078.61	2451.0	8.382
101.9	101.2	23.025		25.7378	36.815	219.2	0.04	0.117	1.2			2071.84	2423.6	8.355
201.8	200.5	18.476		26.8386	36.037	202.7	2.00	0.340	1.7			2088.80	2374.2	8.258
301.3	299.2	14.616		27.6779	35.385	206.2	7.90	0.642	3.3			2096.26	2334.0	8.180
401.3	398.4	11.837		28.4314	35.035	189.2	15.17	1.058	6.0			2119.47	2316.5	8.090
501.3	497.6	9.644		29.0901	34.780	180.2	20.86	1.446	9.9			2145.93	2308.1	8.025
603.8	599.2	7.281		29.7682	34.555	183.0	26.19	1.790	15.5		0.4069	2165.18	2300.9	7.951
701.9	696.4	5.410		30.3808	34.413	188.1	30.40	2.051	22.8		0.7206	2182.79	2302.2	7.914
800.5	794.0	4.264		30.9386	34.362	198.8	32.16	2.130	29.8		0.3150	2190.06	2302.2	7.914
801.0	794.5	4.265		30.9407	34.363	198.9	32.07	2.138	29.9		0.3267	2307.6	2307.6	7.904
1000.4	991.8	3.521		32.0322	34.472	184.4	33.19	2.234	41.7		0.0853	2206.96	2321.9	7.882
1201.3	1190.4	3.265		33.1014	34.628	189.2	31.27	2.086	44.9		0.0127	2213.92	2330.8	7.903
1400.9	1387.5	3.148		34.1201	34.755	205.3	28.17	1.872	43.1		0.0098	2204.40	2337.0	7.933
1599.5	1583.5	3.503		35.1021	34.925	236.0	22.28	1.459	25.2		0.0137	2174.02	2327.8	7.995
1799.2	1780.4	3.434		36.0362	34.963	248.3	20.49	1.338	21.1		0.0156	2164.31	2327.0	8.014
2001.4	1979.5	3.183		36.9697	34.951	250.7	20.49	1.342	23.6		0.0098	2166.39	2327.6	8.019
2199.5	2174.4	3.003		37.8742	34.944	251.1	20.76	1.341	26.0		0.0183	2167.22	2331.0	8.017
2399.9	2371.5	2.861		38.7828	34.940	251.7	20.74	1.348	27.7		0.0161	2170.96	2333.8	8.019
2599.7	2567.7	2.742		39.6803	34.933	252.0	20.74	1.362	29.3		0.0098	2170.98	2334.9	8.017
2800.6	2764.8	2.655		40.5750	34.929	251.7	21.03	1.370	30.8		0.0098	2174.32	2337.3	8.019
3000.8	2961.1	2.540		41.4671	34.921	250.6	21.15	1.378	32.8		0.0029	2175.93	2336.7	8.017
3198.8	3155.0	2.453		42.3449	34.921	251.4	21.24	1.383	34.1		0.0039	2176.86	2335.3	8.014
3398.5	3350.5	2.332		43.2295	34.912	252.6	21.23	1.400	35.6		0.0088	2178.30	2338.1	8.016
3598.9	3546.4	2.134		44.1216	34.899	252.3	21.95	1.420	40.4		0.0067	2182.34	2343.7	8.009
3800.2	3743.1	1.803		45.0268	34.866	247.9	23.47	1.541	53.7		0.0010	2194.57	2351.2	7.992
3997.5	3935.6	1.293		45.9287	34.813	238.6	26.28	1.743	75.5		0.0054	2214.71	2360.0	7.965
4198.9	4132.0	0.896		46.8363	34.770	231.7	28.92	1.903	92.5		0.0100	2231.24	2366.1	7.941
4399.0	4327.0	0.574		47.7282	34.736	226.2	30.62	2.021	105.3		0.0156	2243.72	2369.5	7.919
4498.4	4423.8	0.362		48.1761	34.717	223.9	31.60	2.104	112.9		0.0313	2250.58	2372.4	7.909
4597.6	4520.3	0.191		48.6198	34.701	221.9	32.37	2.151	119.1		0.0663	2251.53	2373.8	7.902
4673.9	4594.6	0.082		48.9608	34.689	221.6	32.68	2.186	122.4		0.0833	2254.94	2374.6	7.898

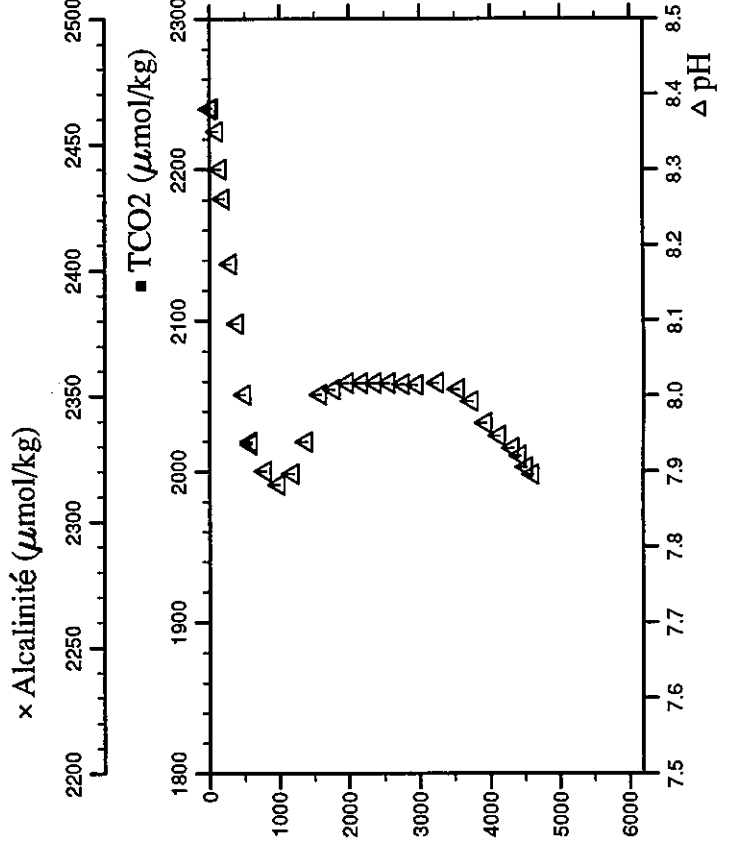
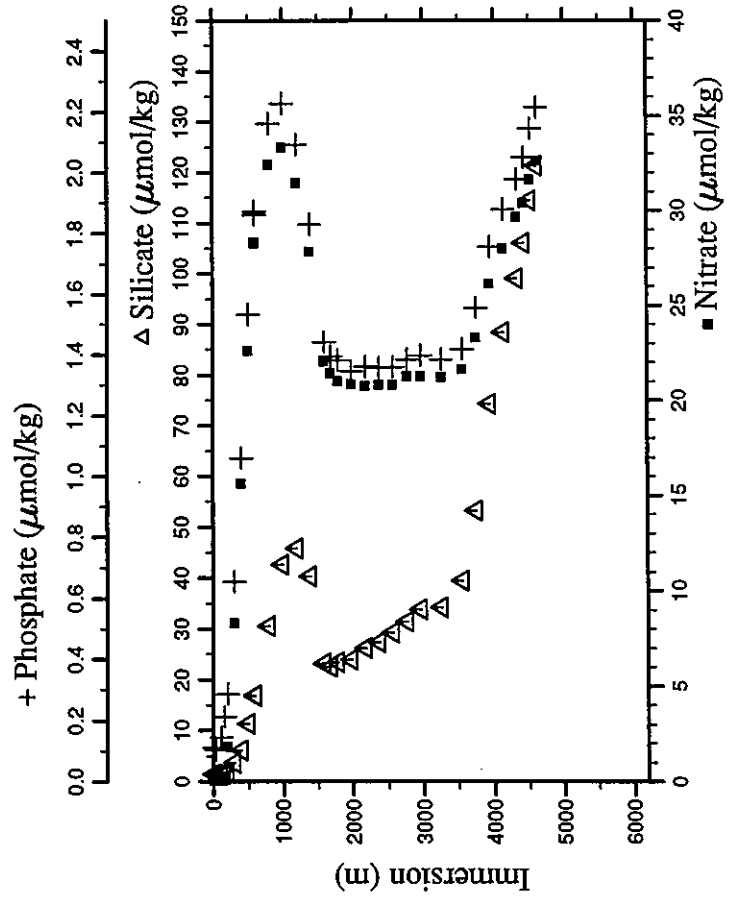
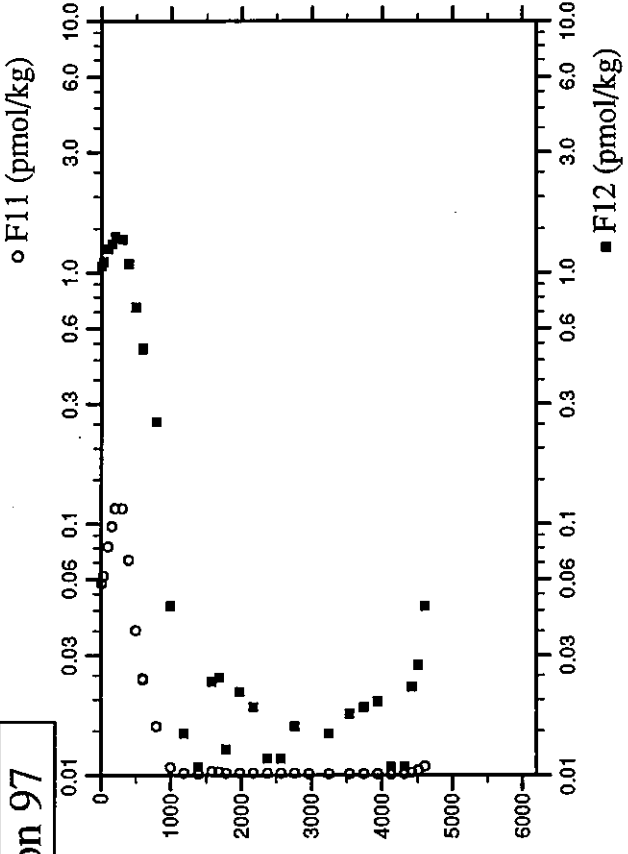
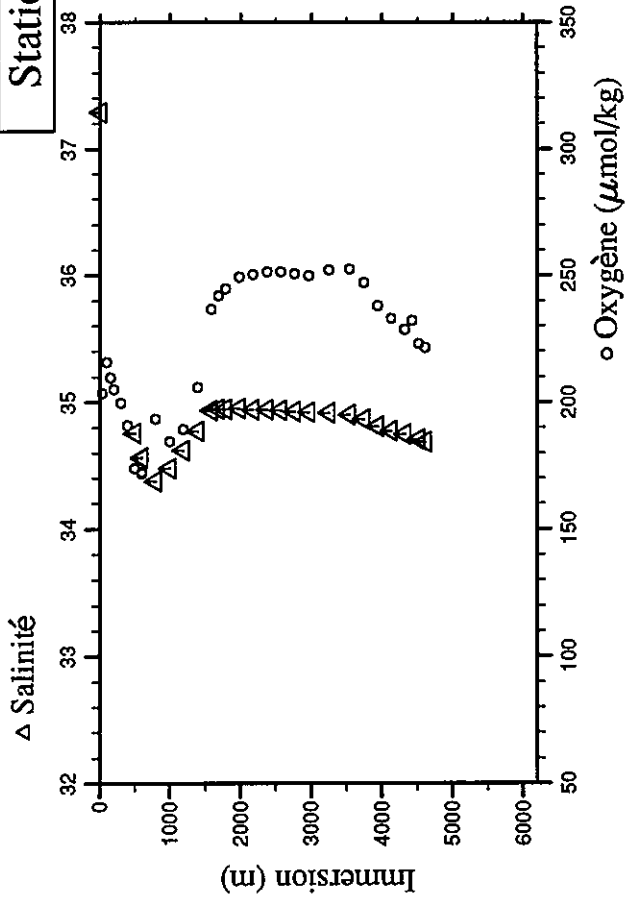
# Station 96



Station : 97 Campagne : CITHER 2  
 Date : 06-02-94 Heure : 3 h 36 mn  
 Position : S 21 15.45 W 31 13.39  
 Dernier niveau à : 4690  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
3.9	3.9	28.004	24.1310	37.289	197.3	0.04	0.110	1.5	1.7766	1.0581			8.380
30.7	30.5	27.050	24.5630	37.237	203.5	0.04	0.104	1.4	1.8470	1.1050			8.381
101.7	101.0	23.160	25.7457	36.867	215.8	0.04	0.144	1.5	2.1212	1.2410			8.351
150.9	149.9	20.718	26.3104	36.411	209.6	0.08	0.213	1.6	2.3088	1.2991			8.301
200.5	199.2	18.348	26.8202	35.984	205.2	1.83	0.286	1.8	2.4780	1.3865			8.262
300.4	298.3	14.618	27.6724	35.377	199.7	8.30	0.655	3.7	2.4770	1.3529			8.175
400.1	397.2	11.895	28.4189	35.032	190.8	15.64	1.060	6.2	1.9927	1.0804			8.096
501.4	497.7	9.324	29.1326	34.757	173.2	22.60	1.532	11.4	1.3413	0.7296			8.002
601.1	596.5	7.217	29.7716	34.563	172.2	28.35	1.871	16.9	0.8877	0.4969			7.936
601.6	597.0	7.192	29.7774	34.561	171.8	28.27	1.862	16.8	0.9005	0.5037			7.940
800.4	793.9	4.299	30.9448	34.376	193.4	32.39	2.161	30.6	0.4503	0.2553			7.901
1000.0	991.4	3.484	32.0375	34.477	184.4	33.33	2.228	42.6	0.0750	0.0470			7.883
1200.2	1189.3	3.223	33.0975	34.620	189.2	31.46	2.092	45.8	0.0179	0.0147			7.897
1400.3	1387.0	3.247	34.1220	34.775	205.8	27.82	1.829	40.4	0.0143	0.0108			7.940
1599.9	1583.9	3.613	35.0985	34.935	236.7	22.05	1.442	23.2	0.0354	0.0235			8.002
1700.2	1682.8	3.506	35.5705	34.948	242.0	21.43	1.394	22.6	0.0295	0.0244			
1799.8	1781.0	3.374	36.0357	34.946	244.8	21.03	1.383	23.4	0.0218	0.0127			8.009
1999.6	1977.8	3.200	36.9588	34.951	249.3	20.84	1.347	23.9	0.0196	0.0215			8.018
2200.2	2175.2	3.010	37.8758	34.943	250.3	20.75	1.360	26.2	0.0211	0.0186			8.018
2399.9	2371.5	2.886	38.7788	34.939	251.3	20.80	1.357	27.4	0.0189	0.0117			8.018
2600.1	2568.1	2.764	39.6790	34.935	251.3	20.80	1.359	29.3	0.0172	0.0117			8.018
2801.0	2765.3	2.636	40.5785	34.927	250.5	21.25	1.384	31.5	0.0193	0.0156			8.016
2998.5	2958.9	2.530	41.4565	34.920	249.8	21.25	1.398	33.9	0.0110	0.0059			8.015
3299.3	3253.5	2.410	42.7885	34.916	252.2	21.21	1.385	34.3	0.0133	0.0147			8.018
3598.8	3546.4	2.166	44.1184	34.898	252.3	21.62	1.418	39.5	0.0161	0.0176			8.009
3799.2	3742.2	1.789	45.0236	34.863	247.1	23.29	1.554	53.2	0.0127	0.0186			7.993
3998.0	3936.2	1.284	45.9340	34.811	238.0	26.13	1.756	74.3	0.0135	0.0196			7.964
4197.5	4130.7	0.942	46.8265	34.775	232.9	28.00	1.877	88.4	0.0078	0.0108			7.947
4397.9	4326.0	0.689	47.7126	34.749	228.5	29.66	1.977	99.1	0.0157	0.0108			7.931
4497.7	4423.2	0.490	48.1617		232.1	30.38	2.049	106.1	0.0246	0.0225			7.921
4598.4	4521.2	0.268	48.6168	34.709	222.9	31.62	2.144	114.5	0.0514	0.0274			7.906
4689.3	4609.6	0.060	49.0288	34.689	221.4	32.61	2.215	121.3	0.0877	0.0469			7.896

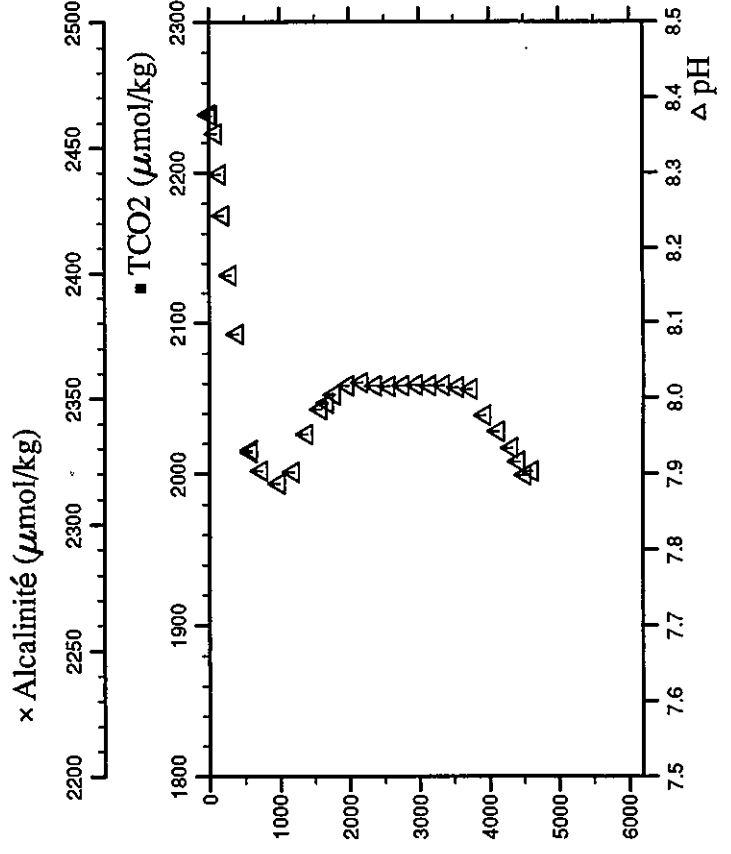
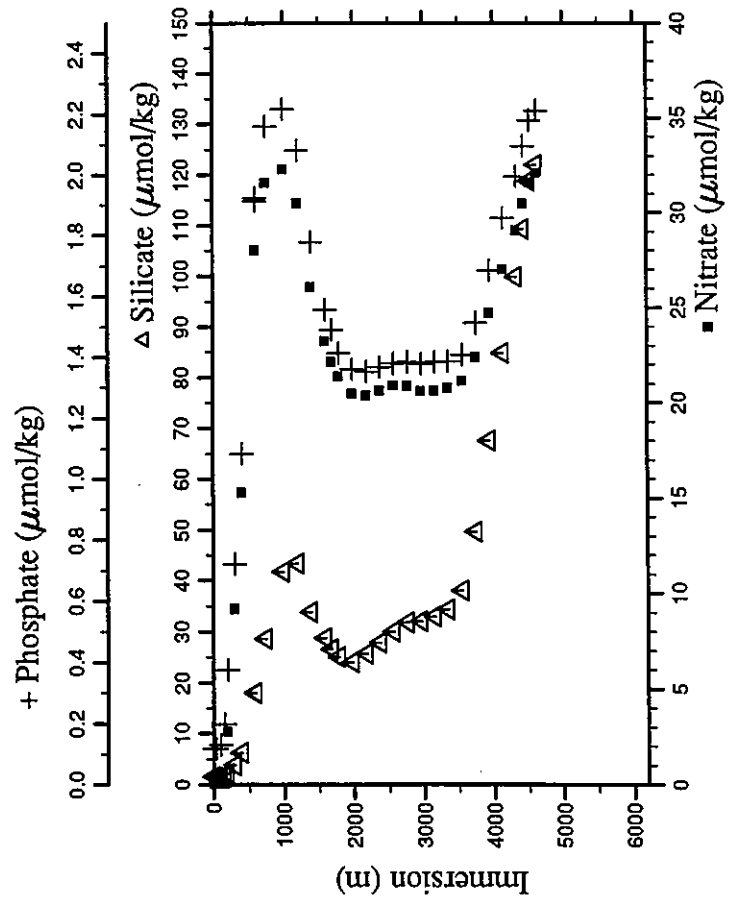
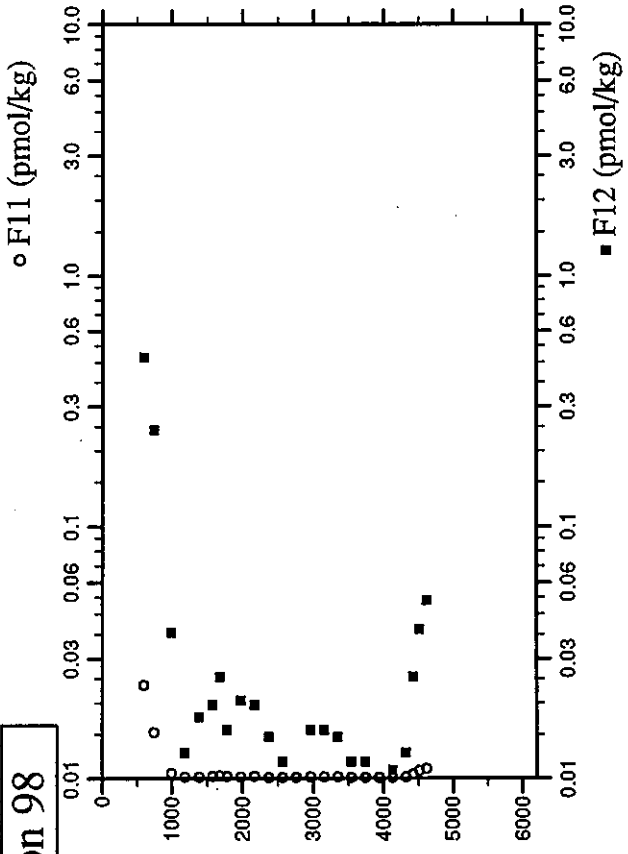
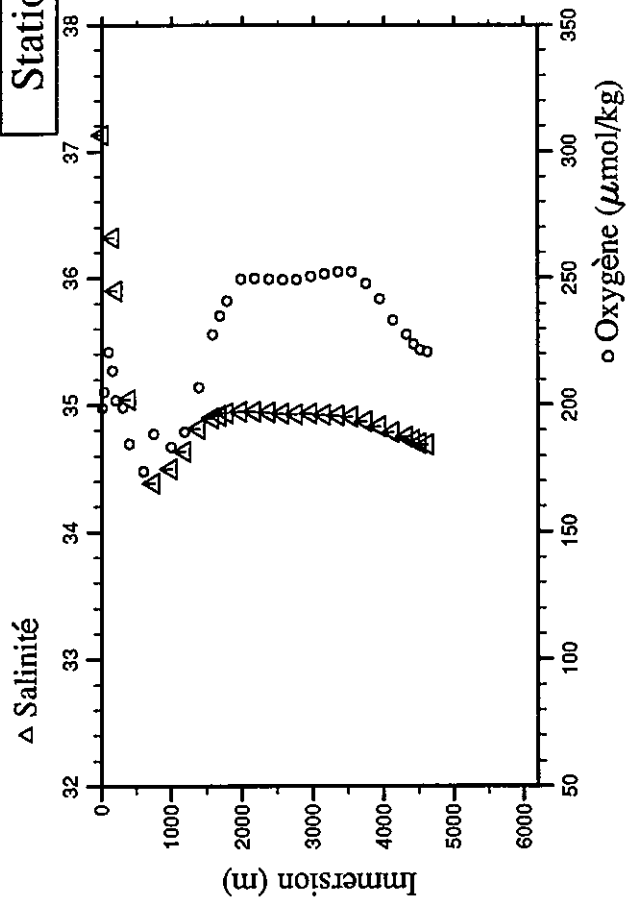
**Station 97**



Station : 98 Campagne : CITHER 2  
 Date : 06-02-94 Heure : 8 h 34 mn  
 Position : S 21 0.13 W 30 59.87  
 Dernier niveau à : 4708  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.2	7.2	27.779	24.1012	37.134	198.8	0.04	0.117	1.6	0.8700	0.4705			8.378
31.2	31.0	27.534	24.2763	37.090	205.0	0.04	0.117	1.4	0.4286	0.2416			8.376
101.2	100.6	22.703	25.7710	36.721	220.8	0.04	0.130	1.4	0.0470	0.0381			8.352
152.6	151.6	20.093	26.3964	36.318	213.4	0.04	0.198	1.6	0.0134	0.0127			8.298
201.8	200.5	17.761	26.8957	35.902	201.8	2.79	0.376	2.2	0.0120	0.0176			8.244
301.5	299.4	14.080	27.7408	35.302	198.9	9.20	0.721	3.9	0.0271	0.0254			8.164
400.9	398.0	11.933	28.4150	35.043	184.7	15.29	1.084	6.3	0.0183	0.0156			8.085
601.6	597.0	6.710	29.8204	34.531	174.0	28.05	1.915	18.0	0.0168	0.0205			7.931
751.2	745.2	6.703	29.8156	34.523	173.9	28.00	1.924	18.1	0.0195	0.0205			7.929
1000.6	992.0	3.504	30.7006	34.387	188.6	31.58	2.160	28.7	0.0183	0.0196			7.904
1200.2	1189.4	3.328	32.0558	34.498	183.5	32.31	2.218	41.8	0.0195	0.0196			7.887
1401.4	1388.1	3.562	33.0939	34.638	189.3	30.50	2.081	43.4	0.0120	0.0176			7.902
1599.6	1583.7	3.447	34.1131	34.812	206.8	26.09	1.779	33.9	0.0212	0.0196			7.952
1699.8	1682.5	3.438	35.0842	34.895	227.8	23.25	1.555	28.8	0.0271	0.0254			7.985
1799.5	1780.7	3.349	35.5605	34.918	235.1	22.17	1.491	26.6	0.0183	0.0156			7.994
2001.0	1979.2	3.191	36.0281	34.935	241.0	21.38	1.415	25.1	0.0168	0.0205			8.005
2199.0	2174.0	3.040	36.9640	34.948	249.7	20.46	1.360	24.1	0.0195	0.0196			8.017
2399.9	2371.5	2.893	37.8668	34.946	249.9	20.38	1.353	25.7	0.0094	0.0147			8.017
2599.2	2567.3	2.755	38.7757	34.940	249.6	20.63	1.367	27.9	0.0093	0.0117			8.016
2799.9	2764.2	2.649	39.6739	34.932	249.2	20.93	1.381	30.0	0.0071	0.0098			8.017
2999.4	2959.8	2.560	40.5715	34.928	249.2	20.89	1.385	31.8	0.0156	0.0156			8.018
3198.6	3155.0	2.470	41.4594	34.929	250.6	20.60	1.379	32.1	0.0135	0.0156			8.017
3398.4	3350.5	2.362	42.3421	34.923	251.6	20.64	1.385	33.0	0.0129	0.0147			8.017
3598.9	3546.5	2.201	43.2263	34.918	252.4	20.77	1.386	34.4	0.0100	0.0117			8.014
3799.2	3742.2	1.870	44.1147	34.903	252.3	21.14	1.408	38.1	0.0093	0.0117			8.012
3999.9	3938.1	1.442	45.0150	34.872	247.9	22.40	1.514	49.6	0.0059	0.0117			8.012
4199.7	4133.0	1.034	45.9226	34.828	247.6	24.72	1.685	67.5	0.0081	0.0068			7.977
4399.0	4327.1	0.675	46.8258	34.785	233.3	27.02	1.856	84.9	0.0155	0.0108			7.956
4498.4	4423.9	0.426	47.7167	34.747	227.6	29.04	1.994	99.8	0.0402	0.0127			7.934
4598.1	4521.0	0.164	48.1694	34.724	223.8	30.49	2.094	109.3	0.0254	0.0254			7.916
4702.5	4622.5	0.038	48.6288	34.698	221.5	31.58	2.178	118.8	0.0710	0.0391			7.898
			49.0880	34.688	220.9	32.10	2.211	121.9	0.0900	0.0509			7.903

Station 98

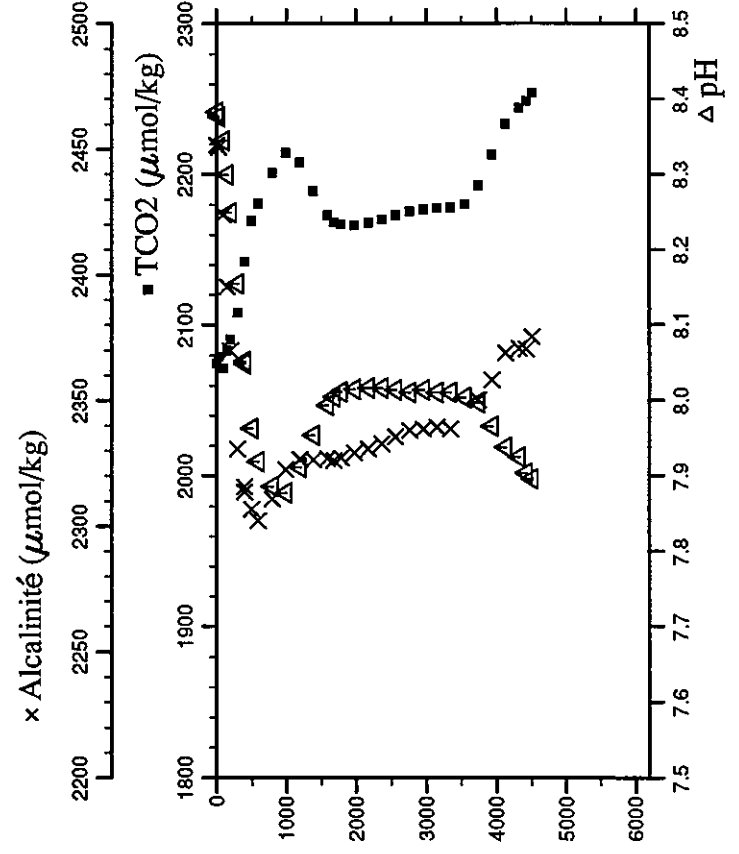
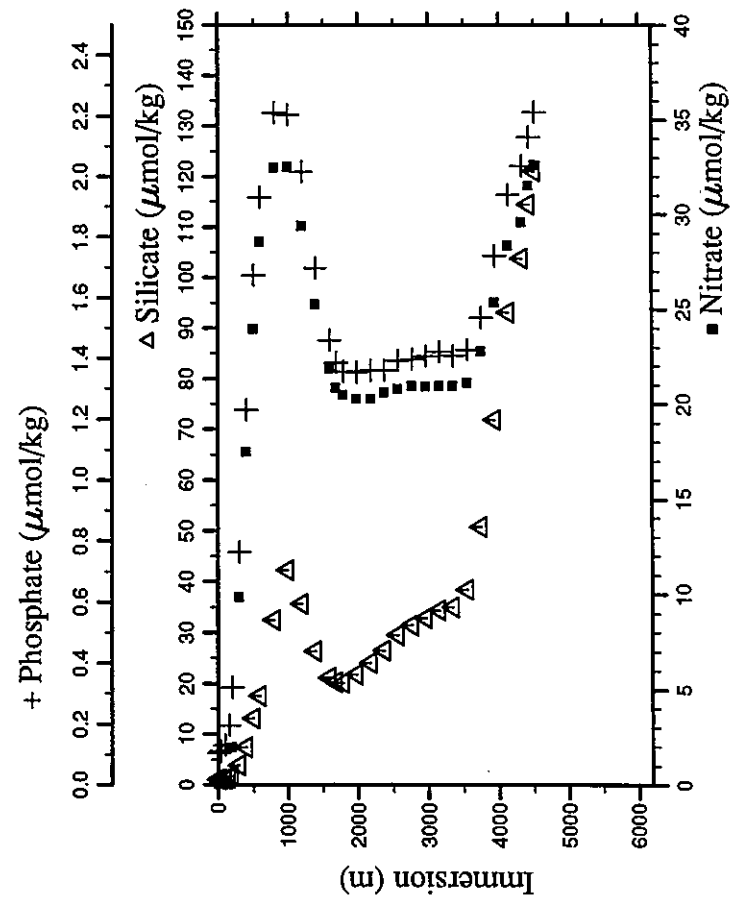
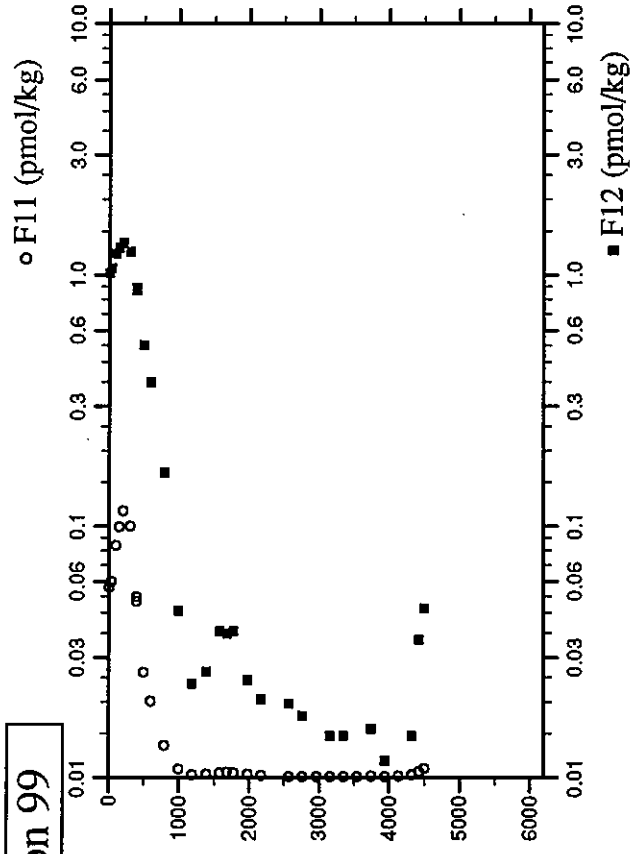
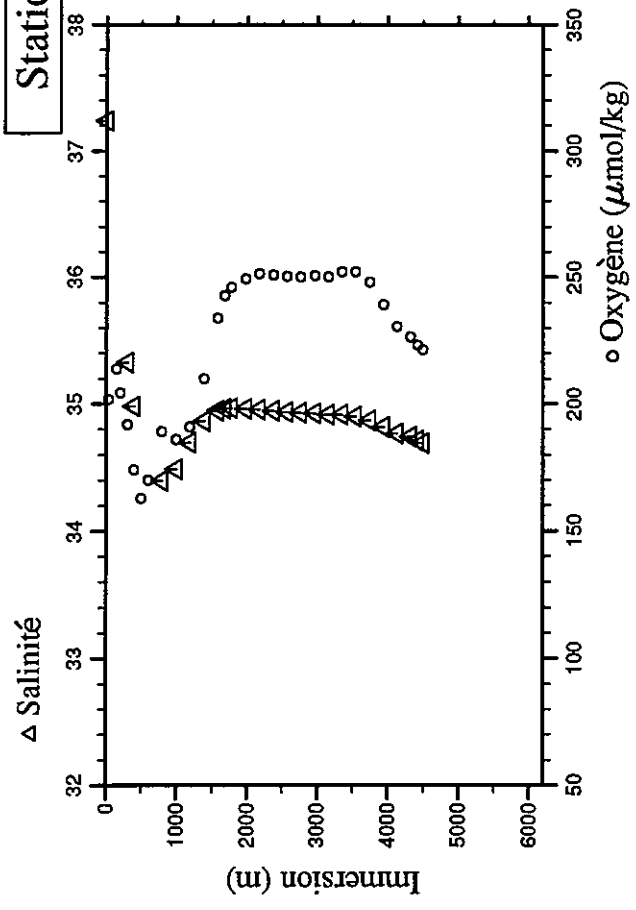




Station : 99 Campagne : CITHER 2  
Date : 06-02-94 Heure : 13 h 40 mn  
Position : S 20 39.87 W 30 58.69  
Dernier niveau à : 4585  
Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
cbars	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.0	4.0	28.077	24.0729	37.241	198.0	0.04	0.105	1.1	1.7636	1.0133	2074.81	2451.7	8.383
30.4	30.2	27.762	24.2954	37.219	201.9	0.04	0.111	1.1	1.8168	1.0630	2078.91	2450.5	8.377
100.3	99.7	22.682	25.7593	36.736	221.2	0.04	0.130	1.2	2.1559	1.2197	2071.13	2423.9	8.345
150.0	149.0	20.495	26.3205	36.345	213.8	0.04	0.195	1.3	2.3280	1.2874	2083.05	2395.1	8.300
201.6	200.3	18.019	26.8705	35.957	204.2	1.96	0.321	1.7	2.4760	1.3484	2090.36	2369.7	8.250
300.3	298.2	14.156	27.7309	35.326	191.9	9.85	0.764	3.9	2.3342	1.2425	2108.31	2330.5	8.155
400.4	397.6	11.401	28.4733	34.983	174.0	17.49	1.230	7.6	1.6317	0.8683	2141.93	2315.7	8.049
400.7	397.9	11.412	28.4712	34.982	174.0	17.49	1.231	7.4	1.6755	0.8888	2313.5	2315.7	8.052
500.9	497.2	8.867	29.1825	34.717	163.0	23.98	1.674	13.1	0.9746	0.5242	2169.37	2306.8	7.963
600.1	595.5	6.826	29.8057	34.541	170.0	28.55	1.931	17.6	0.7060	0.3736	2180.77	2302.1	7.919
800.8	794.3	4.116	30.9825	34.396	189.0	32.46	2.211	32.5	0.2993	0.1634	2200.91	2310.8	7.886
1000.7	992.2	3.490	32.0498	34.489	185.9	32.51	2.204	42.3	0.0792	0.0460	2214.11	2322.5	7.878
1199.1	1188.3	3.680	33.0910	34.698	190.8	29.39	2.015	35.7	0.0238	0.0235	2207.71	2326.6	7.912
1399.6	1386.3	3.909	34.0967	34.864	209.9	25.24	1.698	26.3	0.0325	0.0264	2189.28	2326.2	7.954
1599.6	1583.7	3.789	35.0776	34.944	233.7	21.85	1.461	21.1	0.0447	0.0381	2173.05	2326.7	7.994
1701.0	1683.7	3.647	35.5649	34.963	242.6	20.84	1.387	20.2	0.0465	0.0372	2168.57	2326.0	8.005
1798.6	1779.9	3.563	36.0178	34.966	245.9	20.47	1.357	20.1	0.0430	0.0381	2167.04	2327.0	8.012
1999.6	1977.9	3.335	36.9453	34.962	249.2	20.26	1.355	21.8	0.0298	0.0244	2166.15	2329.1	8.015
2199.4	2174.5	3.119	37.8611	34.954	251.3	20.26	1.360	24.1	0.0214	0.0205	2168.00	2330.5	8.017
2399.5	2371.2	2.948	38.7705	34.946	250.8	20.62	1.361	26.5			2170.20	2332.6	8.017
2599.7	2567.8	2.774	39.6760	34.935	250.3	20.77	1.393	29.5	0.0108	0.0196	2173.09	2335.5	8.014
2799.8	2764.2	2.651	40.5701	34.931	250.0	20.96	1.397	31.5	0.0104	0.0176	2175.48	2338.0	8.011
2999.5	2960.0	2.543	41.4608	34.925	250.5	20.90	1.408	32.9	0.0062	0.0078	2177.04	2338.4	8.014
3199.8	3156.2	2.459	42.3467	34.918	250.0	20.94	1.423	34.4	0.0073	0.0147	2177.88	2339.3	8.011
3399.1	3351.2	2.352	43.2306	34.915	252.2	20.94	1.410	35.0	0.0078	0.0147	2177.96	2338.4	8.011
3599.8	3547.5	2.203	44.1182	34.902	252.1	21.11	1.429	38.4	0.0106	0.0068	2180.38	2338.4	8.004
3799.0	3742.1	1.854	45.0161	34.872	248.0	22.79	1.535	50.8	0.0133	0.0156	2192.41	2350.1	7.997
3999.0	3937.3	1.353	45.9296	34.820	239.1	25.37	1.738	71.9	0.0066	0.0117	2213.08	2358.2	7.966
4198.0	4131.4	0.866	46.8361	34.767	230.6	28.34	1.939	93.1	0.0154	0.0088	2233.26	2368.8	7.938
4397.2	4325.5	0.571	47.7231	34.741	226.5	29.61	2.034	103.8	0.0278	0.0147	2243.69	2370.6	7.925
4498.4	4424.0	0.291	48.1859	34.710	223.1	31.51	2.131	114.5	0.0567	0.0352	2248.37	2370.2	7.904
4580.1	4503.5	0.098	48.5569	34.693	221.3	32.61	2.213	121.1	0.0824	0.0469	2253.92	2375.0	7.896

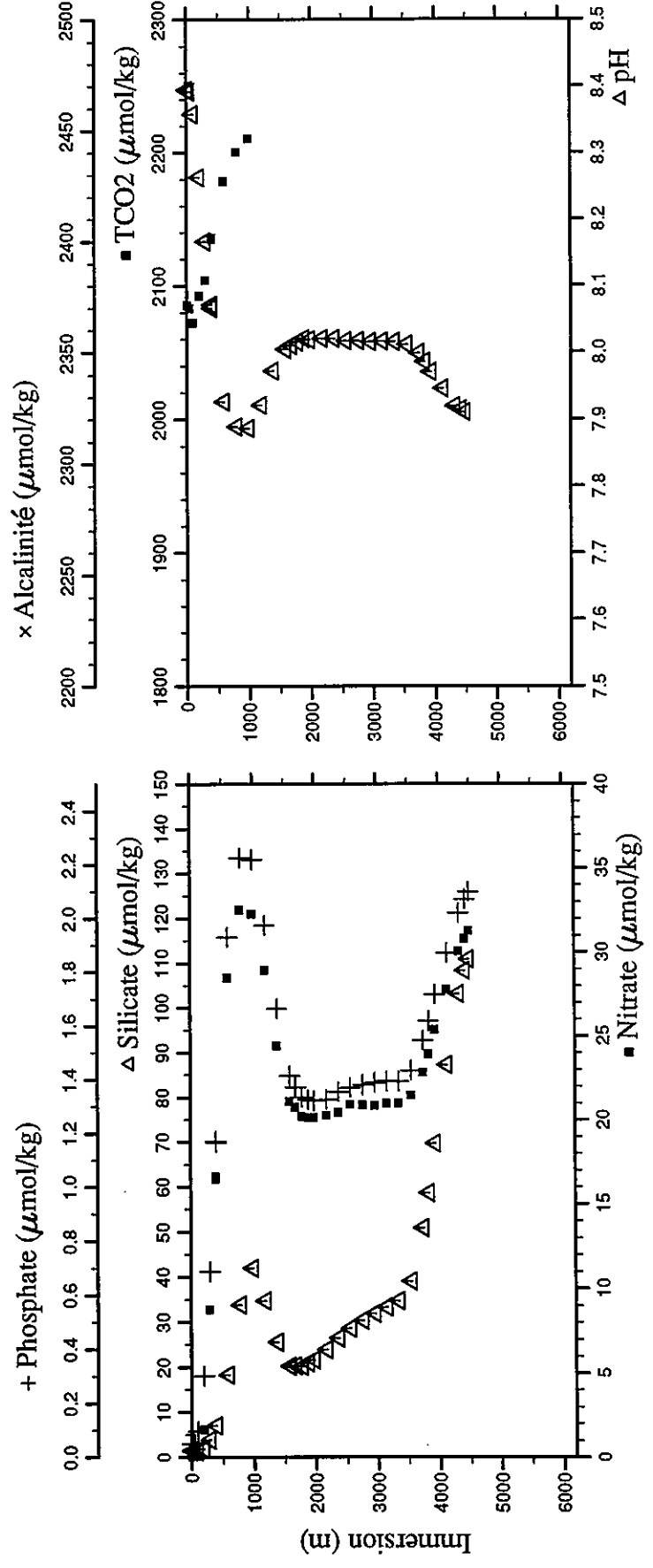
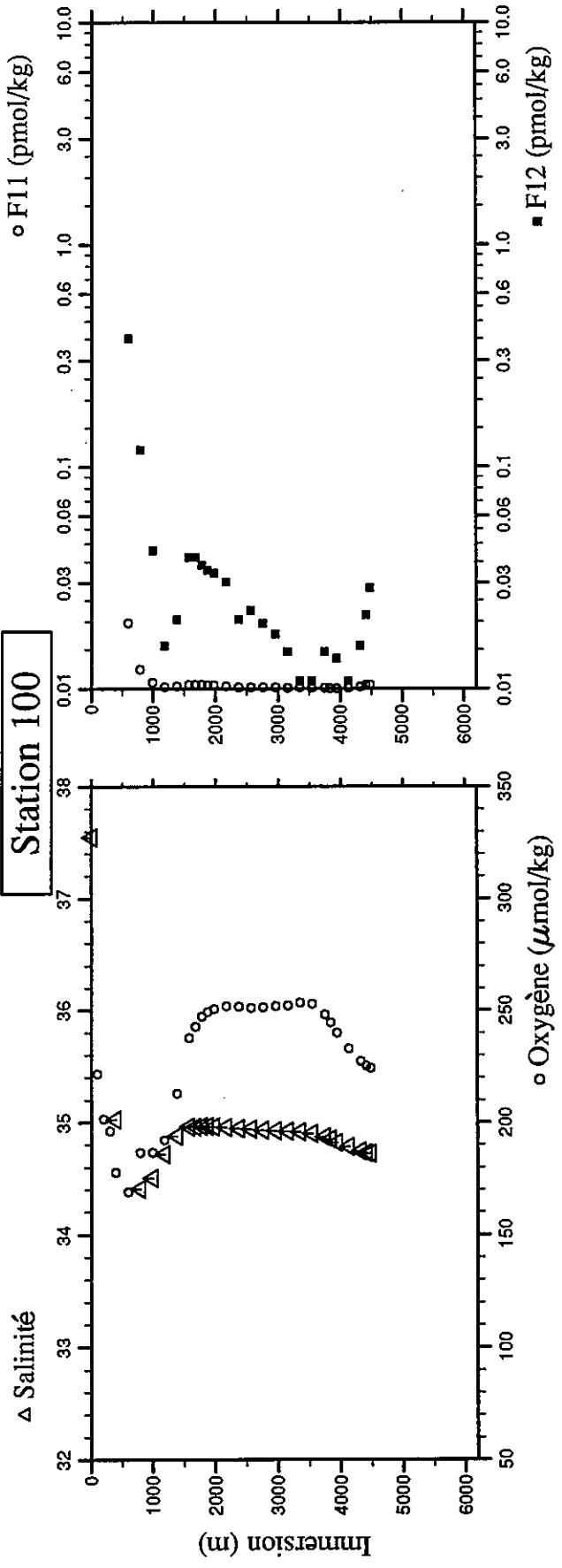
**Station 99**



Station : 100 Campagne : CITHIER 2  
 Date : 06-02-94 Heure : 18 h 38 mn  
 Position : S 20 20.04 W 30 57.68  
 Dernier niveau à : 4563  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
3.6	3.6	28.259	24.2458	37.552	197.1 r	0.04	0.049	1.4			2085.30		8.395
41.4	41.1	28.036	24.4714	37.524 r	199.2 r	0.04	0.049	1.3			2083.13		8.392
101.0	100.4	23.354	25.6763	36.857 r	221.5 r	0.04	0.096	1.3			2072.00		8.358
200.7	199.4	18.777	26.7727	36.090 r	201.5 r	1.63	0.302	1.8			2092.69		8.263
301.2	299.1	14.315	27.7196	35.365 r	196.1 r	8.76	0.687	3.9			2104.18		8.167
400.8	398.0	11.745	28.4420	35.021 r	177.5 r	16.61	1.170	7.1			2136.00		8.067
401.1	398.3	11.770	28.4375	35.025 r	177.9 r	16.48	1.166	7.1			2135.26		8.072
601.2	596.6	6.895	29.8085	34.549 r	169.1 r	28.49	1.932	18.3	0.6878	0.3785	2178.51		7.927
800.0	793.6	4.099	30.9896	34.406 r	186.4 r	32.50	2.225	33.9	0.2026	0.1193	2200.49		7.890
1000.7	992.2	3.470	32.0632	34.503 r	186.4 r	32.26	2.219	42.0	0.0653	0.0421	2210.56		7.887
1201.1	1190.3	3.732	33.1063	34.717 r	192.2 r	28.93	1.975	34.7	0.0206	0.0156			7.922
1400.1	1386.9	3.923	34.1092	34.879 r	212.9 r	24.39	1.663	25.6	0.0243	0.0205			7.973
1599.9	1584.0	3.793	35.0870	34.959 r	237.7 r	21.07	1.413	20.3	0.0433	0.0391			8.005
1700.0	1682.7	3.658	35.5593	34.961 r	242.8 r	20.74	1.371	20.4	0.0427	0.0391			8.011
1800.7	1782.0	3.543	36.0311	34.968 r	247.4 r	20.20	1.334	20.3	0.0426	0.0362			8.016
1900.5	1880.3	3.431	36.4930	34.966 r	249.3 r	20.13	1.324	21.0	0.0390	0.0342			8.021
2000.5	1978.8	3.347	36.9503	34.963 r	250.5 r	20.13	1.321	21.7	0.0368	0.0332			8.019
2199.8	2174.9	3.155	37.8610	34.957 r	251.9 r	20.27	1.326	23.9	0.0265	0.0303			8.021
2399.1	2370.8	2.964	38.7662	34.946 r	251.5 r	20.45	1.355	26.5	0.0167	0.0205			8.021
2599.7	2567.9	2.815	39.6711	34.939 r	251.1 r	20.92	1.369	28.7	0.0153	0.0225			8.018
2799.9	2764.3	2.678	40.5691	34.931 r	251.4 r	20.88	1.380	30.4	0.0109	0.0196			8.018
2999.0	2959.6	2.573	41.4570	34.927 r	251.8 r	20.85	1.388	31.9	0.0112	0.0176			8.016
3198.6	3155.1	2.463	42.3425	34.923 r	252.2 r	20.98	1.394	33.3	0.0085	0.0147			8.017
3398.5	3350.7	2.327	43.2326	34.915 r	253.4 r	20.99	1.393	34.8	0.0124	0.0108			8.016
3599.0	3546.8	2.153	44.1209	34.899 r	252.9 r	21.47	1.433	39.1	0.0095	0.0108			8.012
3798.6	3741.8	1.832	45.0168	34.870 r	248.0 r	22.83	1.545	50.9	0.0057	0.0147			7.999
3899.2	3840.0	1.644	45.4698	34.851 r	244.4 r	23.89	1.617	58.6	0.0029	0.0088			7.986
3999.0	3937.4	1.387	45.9258	34.821 r	239.9 r	25.37	1.717	69.7	0.0045	0.0137			7.971
4197.4	4130.9	0.983	46.8202	34.781 r	232.8 r	27.76	1.871	87.2	0.0056	0.0108			7.946
4398.7	4327.0	0.615	47.7222	34.743 r	227.3 r	30.03	2.019	103.2	0.0227	0.0156			7.920
4497.2	4422.9	0.475	48.1604	34.729 r	225.2 r	30.79	2.071	108.3	0.0376	0.0215			7.915
4561.0	4485.0	0.394	48.4421	34.722 r	224.1 r	31.27	2.098	110.9	0.0438	0.0284			7.911

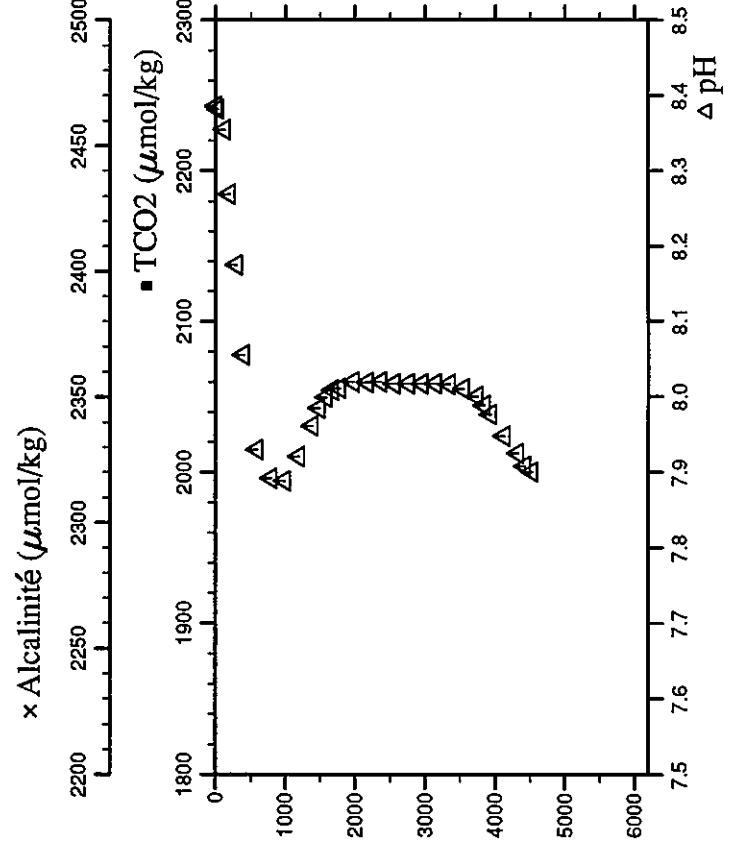
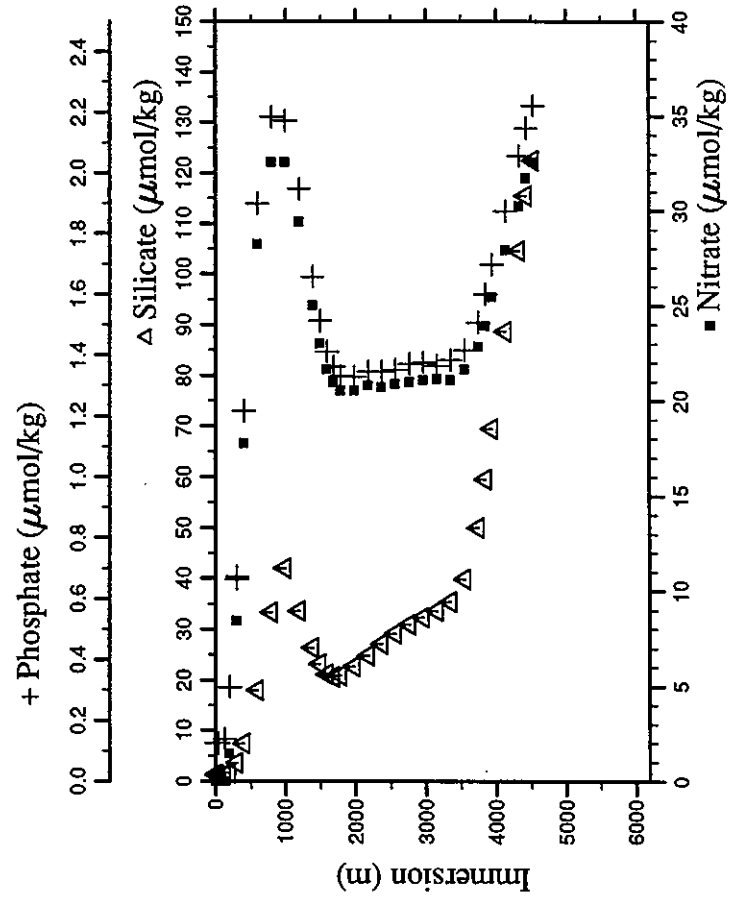
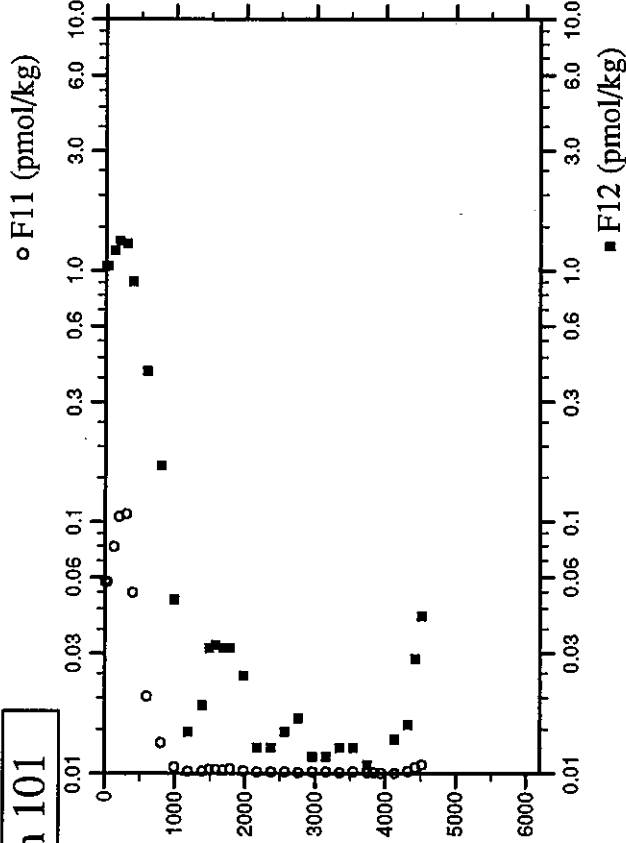
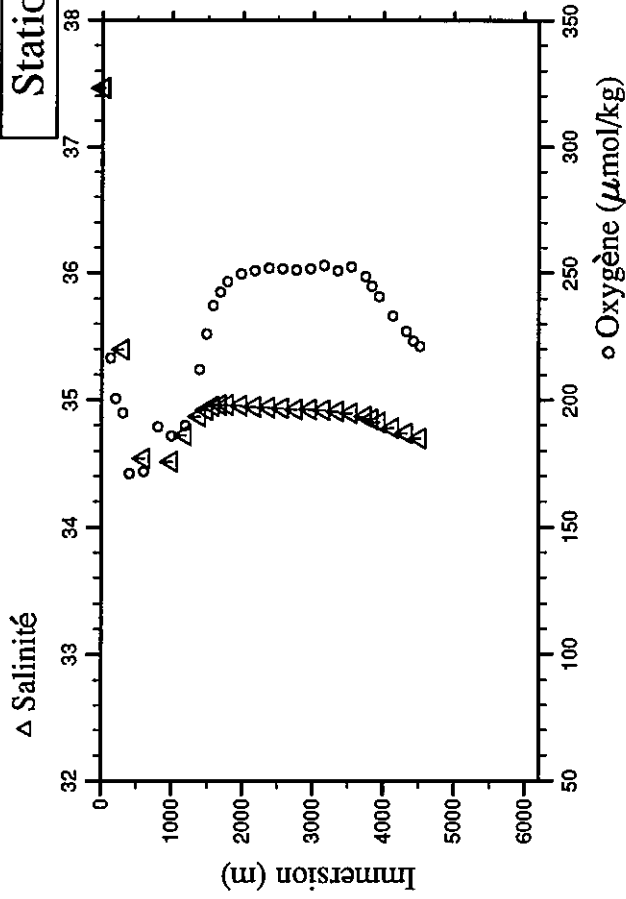
**Station 100**



Station : 101 Campagne : CIPHER 2  
 Date : 06-02-94 Heure : 23 h 34 mn  
 Position : S 20 0.09 W 30 56.57  
 Dernier niveau à : 4599  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.8	5.8	27.869	24.3138	37.461	197.9	0.00	0.126	1.3	1.7733	1.0414			8.386
31.3	31.1	27.824	24.4385	37.462	198.1	0.00	0.126	1.2	1.7767	1.0434			8.382
126.1	125.3	23.510	25.8034	36.936	216.6	0.00	0.138	1.3	2.1028	1.2058			8.355
201.2	199.9	19.433	26.6999	36.178	200.6	1.44	0.311	1.7	2.3793	1.3169			8.269
302.0	299.9	14.683	27.6748	35.401	194.8	8.43	0.672	3.6	2.4027	1.2864			8.175
302.6	300.5	14.669	27.6793	35.400	197.2	8.43	0.664	3.6	2.4040	1.2825			8.175
401.2	398.4	11.568	28.4623	35.002	171.1	17.75	1.218	7.4	1.6752	0.9044			8.056
601.4	596.9	6.821	29.8123	34.537	171.7	28.25	1.900	18.0	0.7125	0.3981			7.930
801.3	794.9	4.137	30.9842	34.389	189.2	32.57	2.185	33.3	0.2844	0.1673			7.892
1001.6	993.1	3.470	32.0754	34.512	185.7	32.57	2.172	42.0	0.0636	0.0489			7.889
1200.3	1189.5	3.803	33.1018	34.722	189.7	29.41	1.947	33.6	0.0178	0.0147			7.921
1399.3	1386.1	3.898	34.1014	34.869	211.9	25.03	1.657	26.3	0.0197	0.0186			7.962
1500.5	1486.0	3.855	34.6047	34.920	226.0	23.01	1.514	23.2	0.0357	0.0313			7.985
1600.9	1585.0	3.754	35.0919	34.950	237.2	21.65	1.412	21.1	0.0397	0.0323			8.000
1701.2	1683.9	3.632	35.5673	34.959	242.5	20.98	1.363	20.6	0.0332	0.0313			8.009
1800.2	1781.5	3.529	36.0287	34.962	246.4	20.53	1.331	20.9	0.0411	0.0313			8.012
1999.8	1978.1	3.298	36.9497	34.957	249.5	20.55	1.330	22.7	0.0286	0.0244			8.020
2200.7	2175.8	3.097	37.8683	34.948	250.8	20.81	1.346	24.9	0.0151	0.0127			8.019
2399.9	2371.7	2.926	38.7732	34.941	251.8	20.72	1.347	27.1	0.0166	0.0127			8.020
2599.7	2567.9	2.791	39.6742	34.937	251.7	20.89	1.353	29.2	0.0149	0.0147			8.018
2799.3	2763.8	2.668	40.5681	34.928	251.1	20.98	1.371	30.9	0.0091	0.0166			8.018
2998.8	2959.4	2.557	41.4581	34.924	251.6	21.10	1.376	32.4	0.0118	0.0117			8.018
3199.3	3155.8	2.445	42.3483	34.919	252.8	21.14	1.366	33.6	0.0140	0.0117			8.018
3397.9	3350.2	2.322	43.2295	34.913	250.9	21.10	1.385	35.4	0.0099	0.0127			8.017
3598.9	3546.8	2.148	44.1217	34.897	252.3	21.65	1.417	39.9	0.0109	0.0127			8.011
3798.9	3742.2	1.870	45.0156	34.871	248.5	22.84	1.508	50.0	0.0068	0.0108			8.001
3899.4	3840.3	1.649	45.4703	34.849	244.7	23.94	1.600	59.6	0.0063	0.0098			7.989
3999.6	3938.1	1.425	45.9252	34.826	240.8	25.45	1.698	69.5	0.0037	0.0078			7.977
4199.3	4132.8	1.000	46.8269	34.780	233.0	27.93	1.874	88.6	0.0043	0.0137			7.948
4398.9	4327.3	0.618	47.7229	34.740	226.9	30.25	2.056	104.5	0.0204	0.0156			7.925
4497.6	4423.4	0.329	48.1820	34.711	223.1	31.73	2.147	115.5	0.0528	0.0284			7.908
4601.3	4524.4	0.128	48.6449	34.695	221.2	32.57	2.221	122.5	0.0797	0.0421			7.901

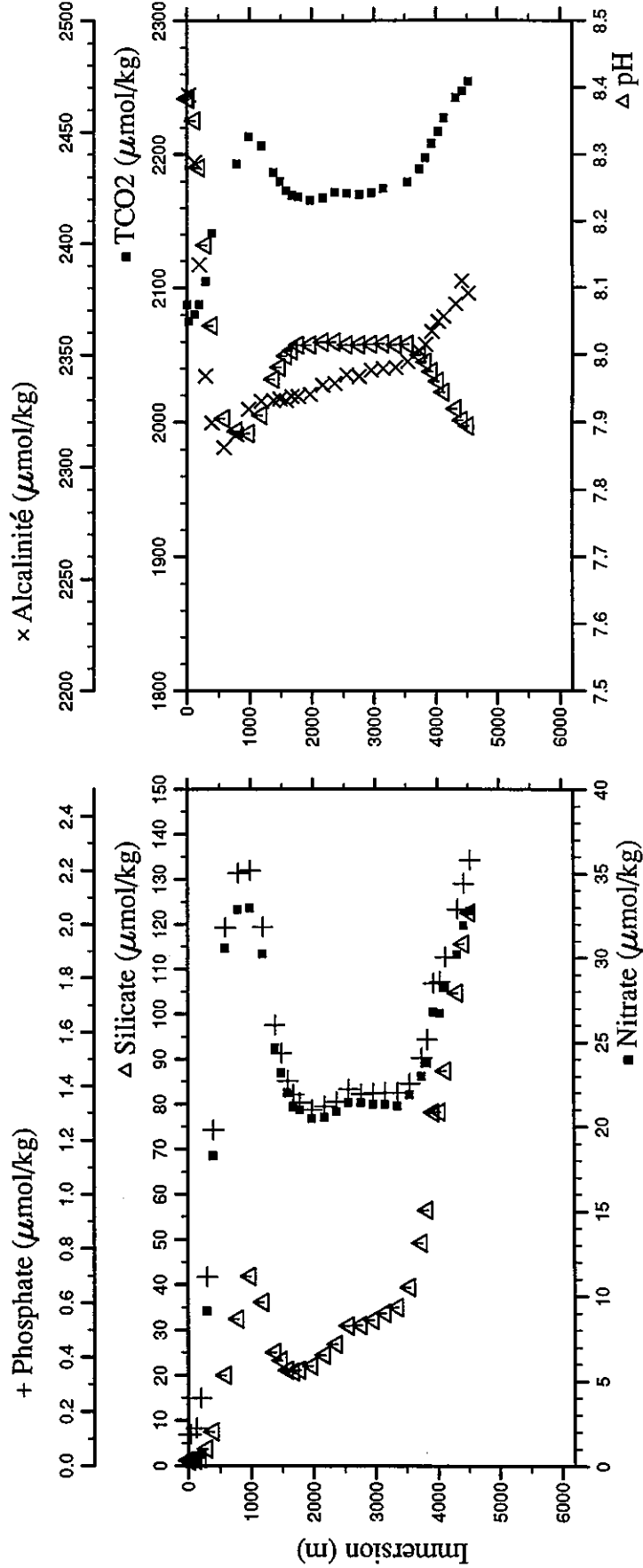
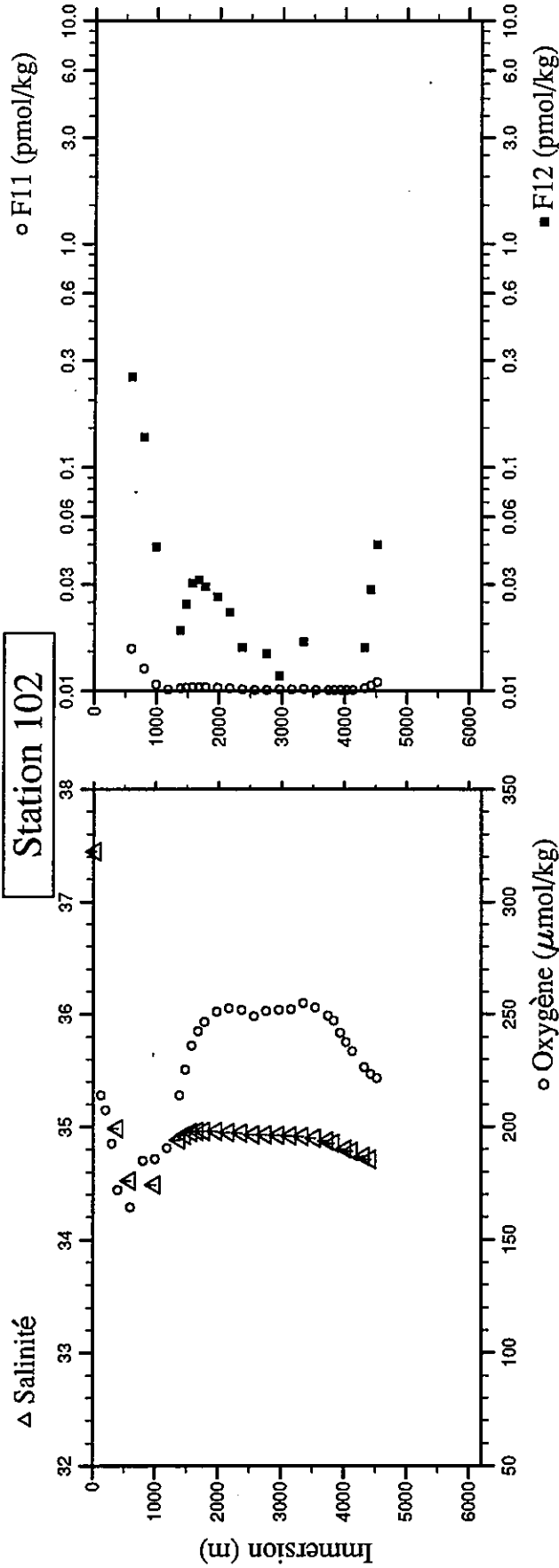
# Station 101



Station : 102 Campagne : CITHER 2  
 Date : 07-02-94 Heure : 4 h 38 mn  
 Position : S 19 39.89 W 30 55.56  
 Dernier niveau à : 4605  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
3.9	3.9	27.698	24.3552	37.456	r 198.5	r 0.13	0.115	1.2			2087.52		8.384
34.8	34.6	27.697	24.4856	37.450	r 198.9	r 0.13	0.115	1.1			2075.22	2466.7	8.383
125.6	124.8	23.354	25.8493	36.939	r 214.0	0.13	0.138	1.2			2080.34	2436.3	8.351
201.0	199.7	19.564	26.6775	36.204	r 207.3	0.64	0.248	1.6			2087.44	2390.4	8.280
300.7	298.7	14.712	27.6752	35.403	r 192.5	9.11	0.696	3.7			2104.76	2340.6	8.164
400.8	398.0	11.467	28.4671	34.989	r 172.0	18.26	1.238	7.5			2140.78	2319.7	8.044
600.6	596.1	6.470	29.8513	34.524	r 164.4	30.57	1.989	20.0	0.4419	0.2533	2308.8	2308.8	7.906
801.0	794.6	4.201	30.9777	34.489	r 185.1	32.89	2.190	32.5	0.2307	0.1360	2192.86	2314.5	7.887
1000.5	992.0	3.502	32.0496	34.409	r 195.7	32.99	2.201	41.9	0.0645	0.0440	2213.27	2325.9	7.884
1200.7	1190.0	3.717	33.0871	34.697	r 190.5	30.25	1.990	36.2	0.0140	0.0059	2206.43	2329.3	7.911
1400.8	1387.6	3.938	34.1130	34.883	r 213.9	24.69	1.626	25.1	0.0240	0.0186	2186.75	2329.5	7.964
1499.6	1485.1	3.851	34.6008	34.925	r 225.4	23.18	1.522	23.3	0.0307	0.0244	2179.69	2330.3	7.982
1600.6	1584.8	3.768	35.0897	34.950	r 236.0	21.99	1.421	21.2	0.0362	0.0303	2172.95	2329.7	7.999
1699.7	1682.5	3.645	35.5584	34.960	r 242.5	21.14	1.369	20.8	0.0399	0.0313	2169.74	2331.3	8.007
1800.1	1781.5	3.509	36.0280	34.962	r 246.6	20.98	1.340	21.2	0.0375	0.0293	2168.17	2331.5	8.015
1999.5	1977.9	3.326	36.9478	34.962	r 251.2	20.47	1.313	22.0	0.0331	0.0264	2166.03	2332.3	8.015
2199.0	2174.2	3.110	37.8623	34.952	r 252.6	20.55	1.326	24.4	0.0238	0.0225	2167.74	2336.4	8.019
2399.4	2371.2	2.939	38.7712	34.944	r 251.9	20.89	1.342	26.9	0.0163	0.0156	2171.56	2337.3	8.019
2599.0	2567.3	2.768	39.6685	34.930	r 249.1	21.44	1.389	31.0	0.0063	0.0088	2170.81	2341.1	8.015
2798.9	2763.5	2.675	40.5649	34.929	r 251.3	21.44	1.371	31.1	0.0098	0.0147	2170.27	2340.4	8.015
2999.6	2960.3	2.560	41.4609	34.924	r 251.8	21.31	1.374	32.2	0.0125	0.0117	2171.35	2343.1	8.016
3199.9	3156.5	2.452	42.3501	34.922	r 252.1	21.31	1.375	33.7	0.0126	0.0098	2174.76	2343.8	8.017
3399.9	3352.2	2.336	43.2373	34.917	r 254.8	21.23	1.375	35.0	0.0199	0.0166	2344.4	2344.4	8.015
3598.8	3546.7	2.159	44.1195	34.901	r 253.0	21.91	1.410	39.4	0.0107	0.0068	2179.53	2346.8	8.016
3799.4	3742.9	1.895	45.0140	34.874	r 249.2	22.97	1.505	49.2	0.0052	0.0068	2189.34	2351.5	8.000
3897.9	3838.9	1.725	45.4567	34.857	r 247.0	23.77	1.572	56.5	0.0069	0.0088	2197.43	2354.4	7.990
3997.7	3936.3	1.472	45.9128	34.804	r 241.7	26.77	1.780	78.1	0.0060	0.0068	2208.39	2360.3	7.975
4098.6	4034.7	1.228	46.3720	34.804	r 237.5	26.72	1.786	78.2	0.0071	0.0039	2217.19	2364.6	7.961
4199.3	4132.9	1.011	46.8263	34.782	r 233.6	28.25	1.878	87.4	0.0075	0.0049	2227.31	2366.9	7.945
4397.7	4326.2	0.592	47.7202	34.737	r 226.5	30.20	2.055	104.7	0.0271	0.0156	2242.25	2372.5	7.920
4498.8	4424.7	0.306	48.1858	34.710	r 223.3	31.94	2.152	115.6	0.0555	0.0284	2247.14	2383.1	7.903
4602.5	4525.6	0.061	48.6582	34.682	r 221.5	32.78	2.238	122.6	0.0889	0.0450	2254.36	2377.5	7.895

# Station 102

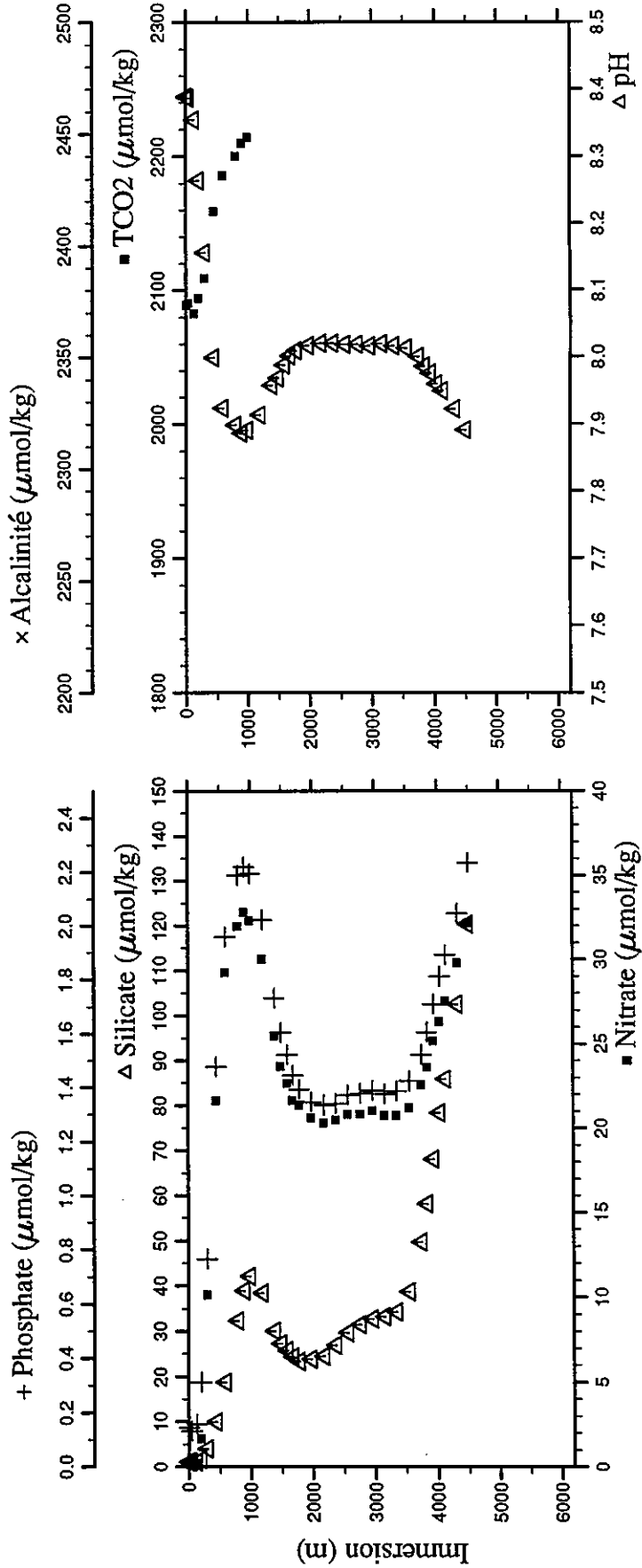
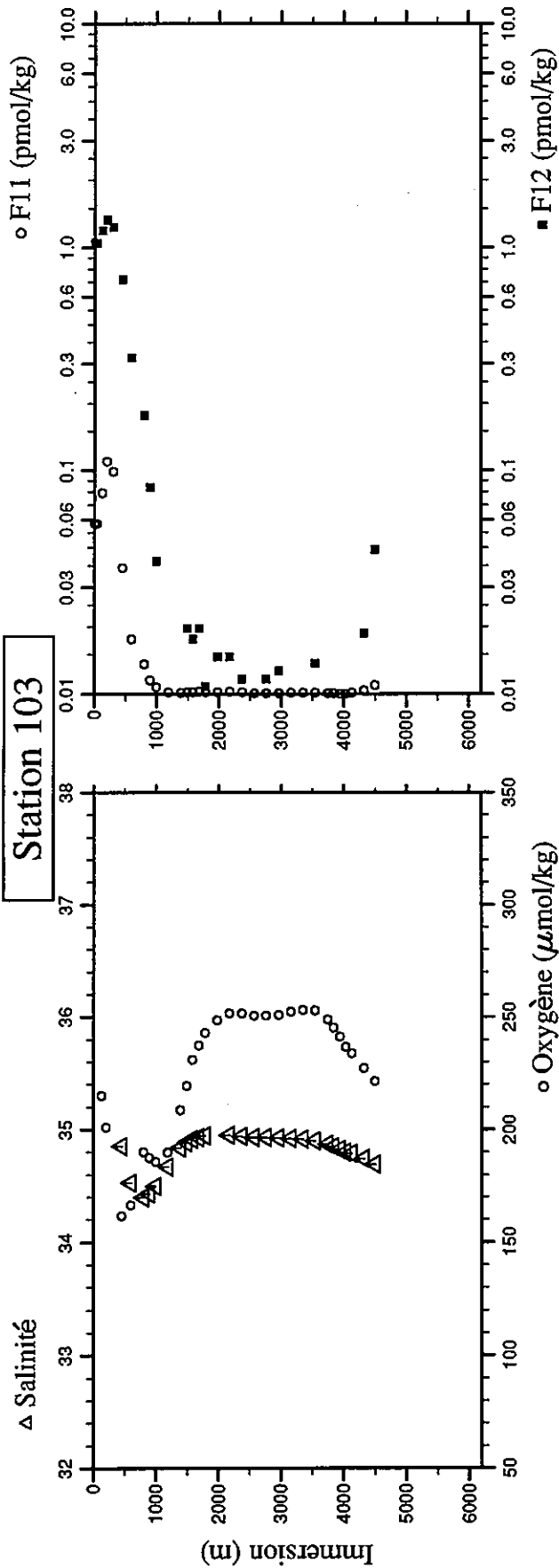




Station : 103 Campagne : CITHER 2  
 Date : 07-02-94 Heure : 9 h 30 mn  
 Position : S 19 20.06 W 30 54.56  
 Dernier niveau à : 4578  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.1	5.1	27.742	24.3803	37.504	197.8	0.13	0.144	1.1	1.7758	1.0472	2089.06		8.389
41.0	40.7	27.669	24.5536	37.483	198.2	0.13	0.132	1.1	1.7768	1.0463	2090.39		8.387
126.3	125.5	23.306	25.8295	36.917	215.1	0.13	0.158	1.1	2.0964	1.1912	2082.97		8.355
200.6	199.3	18.900	26.7674	36.111	201.0	1.66	0.312	1.6	2.4295	1.3306	2094.39		8.264
300.5	298.5	14.061	27.7372	35.303	197.7	10.15	0.765	4.0	2.3198	1.2356	2108.91		8.157
451.6	448.4	10.180	28.8307	34.853	161.7	21.63	1.477	9.9	1.3125	0.7178	2158.89		8.000
601.5	597.0	6.706	29.8326	34.531	166.5	29.21	1.959	18.7	0.5723	0.3198	2185.90		7.924
801.0	794.6	4.142	30.9807	34.395	190.1	31.97	2.188	32.4	0.3095	0.1761	2200.34		7.899
900.6	893.2	3.666	31.5277	34.434	187.6	32.83	2.219	38.9	0.1456	0.0841	2209.79		7.887
1000.7	992.2	3.466	32.0630	34.501	185.8	32.32	2.193	42.1	0.0703	0.0391	2214.21		7.891
1200.4	1189.7	3.583	33.0902	34.672	189.9	30.01	2.022	38.4	0.0191	0.0068			7.914
1400.5	1387.3	3.726	34.1044	34.839	208.6	25.46	1.731	30.1	0.0150	0.0078			7.958
1500.7	1486.2	3.699	34.5978	34.887	219.4	23.65	1.605	27.2	0.0190	0.0196			7.989
1600.1	1584.3	3.606	35.0789	34.915	231.1	22.64	1.522	25.7	0.0226	0.0176			7.989
1701.0	1683.8	3.505	35.5624	34.932	237.3	21.63	1.445	24.3	0.0232	0.0196			8.002
1800.5	1781.9	3.423	36.0297	34.945	243.0	21.34	1.393	23.3	0.0190	0.0108			8.010
1999.2	1977.6	3.236	36.9488	34.954	248.6	20.62	1.347	23.8	0.0188	0.0147			8.018
2200.4	2175.6	3.094	37.8697	34.952	251.7	20.29	1.335	24.4	0.0237	0.0147			8.021
2399.6	2371.5	2.924	38.7746	34.943	251.7	20.46	1.339	26.9	0.0205	0.0117			8.021
2599.3	2567.6	2.765	39.6727	34.932	250.5	20.82	1.372	29.7	0.0070	0.0098			8.019
2798.7	2763.3	2.653	40.5662	34.932	250.6	20.82	1.377	31.4	0.0086	0.0117			8.019
2999.8	2960.5	2.555	41.4611	34.925	250.8	21.00	1.388	32.7	0.0098	0.0127			8.017
3199.0	3155.7	2.462	42.3458	34.920	252.4	20.76	1.375	33.2	0.0155	0.0098			8.020
3398.7	3351.1	2.351	43.2307	34.916	253.2	20.76	1.387	34.3	0.0150	0.0088			8.017
3599.2	3547.2	2.176	44.1181	34.901	252.8	21.20	1.425	38.7	0.0132	0.0137			8.013
3799.6	3743.0	1.859	45.0180	34.872	248.8	22.54	1.522	49.6	0.0070	0.0078			8.001
3899.0	3840.0	1.647	45.9686	34.851	245.2	23.58	1.604	58.1	0.0087	0.0088			7.986
3997.0	3935.7	1.424	46.9128	34.824	241.1	25.14	1.708	68.0	0.0046	0.0010			7.976
4099.0	4035.2	1.188	47.8675	34.801	236.7	26.32	1.810	78.3	0.0030	0.0010			7.960
4199.0	4132.7	1.000	48.8275	34.786	233.9	27.51	1.891	85.9	0.0115	0.0068			7.950
4397.6	4326.2	0.611	49.7198	34.741	227.1	29.77	2.045	102.5	0.0353	0.0186			7.923
4577.2	4501.1	0.094	48.5465	34.690	221.4	32.14	2.234	120.3	0.0893	0.0440			7.891

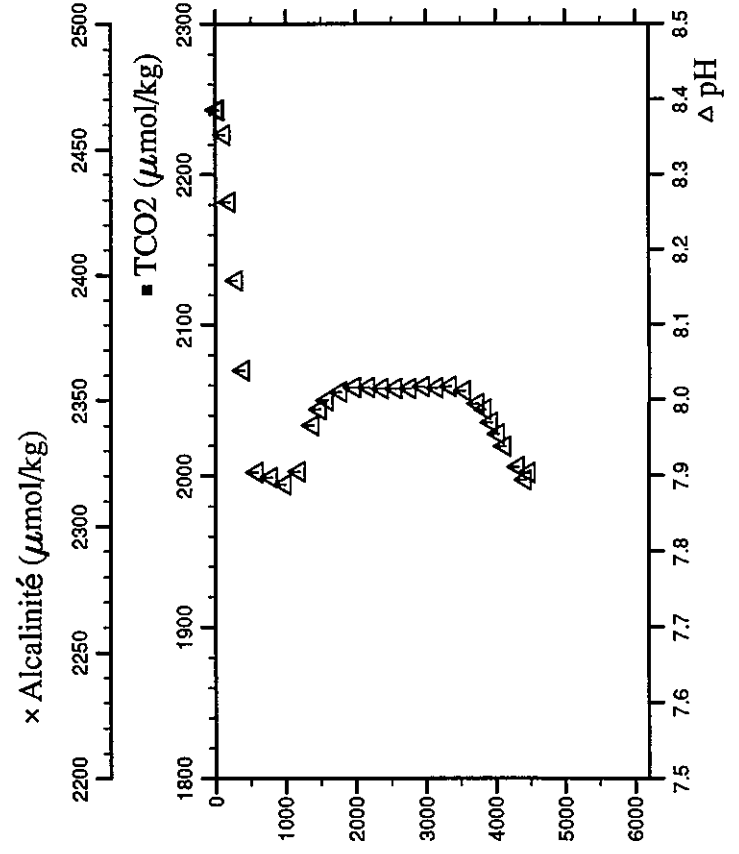
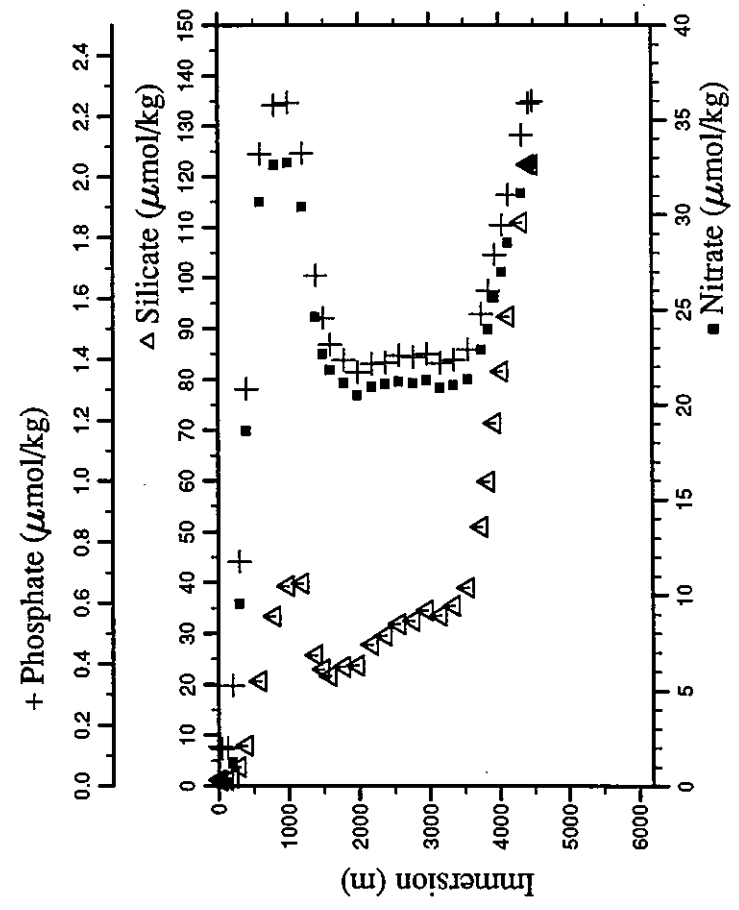
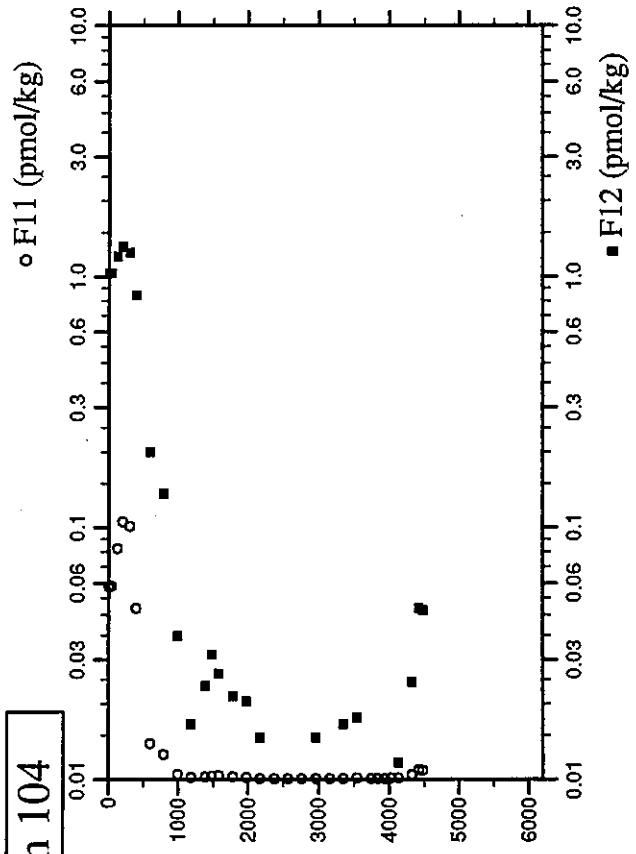
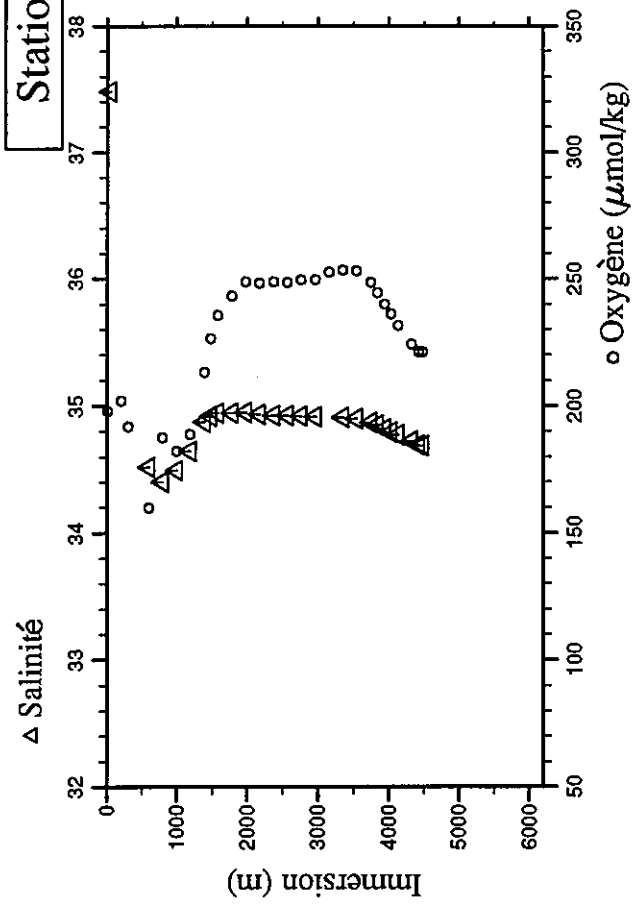
# Station 103



Station : 104 Campagne : CITHER 2  
 Date : 07-02-94 Heure : 15 h. 23 mn  
 Position : S 18 50.56 W 30 52.81  
 Dernier niveau à : 4557  
 Nb prélèvements : 31

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
9.1	9.0	27.790	24.3573	37.475	198.0	0.13	0.131	1.2	1.7805	1.0287			8.386
45.2	44.9	27.579	24.5927	37.486	199.2	0.13	0.122	1.1	1.7947	1.0355			8.386
125.3	124.5	22.789	25.8947	36.820	218.1	0.13	0.125	1.2	2.1388	1.2011			8.353
200.4	199.1	19.364	26.6877	36.191	202.0	1.25	0.329	1.6	2.3856	1.3150			8.263
300.1	298.1	14.325	27.7013	35.362	191.9	9.56	0.736	3.7	2.3470	1.2483			8.159
400.5	397.7	11.017	28.5226	34.940	173.0	18.66	1.301	7.9	1.5843	0.8409			8.040
601.0	596.5	6.392	29.8650	34.518	159.7	30.67	2.074	20.6	0.3347	0.1995			7.905
798.8	792.4	4.086	30.9846	34.403	187.5	32.62	2.237	33.3	0.2352	0.1360			7.898
999.9	991.5	3.623	32.0304	34.491	182.3	32.74	2.244	39.3	0.0510	0.0372			7.889
1200.0	1189.3	3.511	33.0762	34.644	188.8	30.39	2.078	39.8	0.0193	0.0166			7.906
1399.5	1386.4	3.923	34.1046	34.877	213.2	24.61	1.675	25.7	0.0262	0.0235			7.967
1499.4	1485.0	3.849	34.6010	34.922	226.4	22.68	1.535	22.9	0.0341	0.0313			7.988
1600.2	1584.5	3.765	35.0836	34.944	235.5	21.83	1.447	21.6	0.0366	0.0264			8.000
1799.6	1781.1	3.423	36.0288	34.944	243.3	21.15	1.398	23.4	0.0250	0.0215			8.011
1999.6	1978.1	3.231	36.9544	34.952	248.9	20.51	1.357	23.7	0.0192	0.0205			8.017
2199.4	2174.7	2.991	37.8703	34.935	248.4	20.96	1.384	27.7	0.0088	0.0147			8.017
2398.8	2370.8	2.848	38.7730	34.928	248.9	21.09	1.389	29.5	0.0078	0.0088			8.015
2598.8	2567.2	2.712	39.6742	34.924	248.6	21.23	1.411	31.8	0.0083	0.0078			8.015
2799.1	2763.8	2.627	40.5701	34.923	249.6	21.11	1.405	32.5	0.0088	0.0088			8.015
2998.5	2959.3	2.521	41.4568	34.914	249.5	21.29	1.416	34.5	0.0081	0.0147			8.018
3200.2	3156.9	2.454	42.3511	34.914	252.6	20.87	1.387	33.5	0.0103	0.0088			8.016
3398.9	3351.4	2.334	43.2316	34.913	253.3	21.01	1.398	35.4	0.0091	0.0166			8.018
3599.3	3547.4	2.169	44.1199	34.900	253.2	21.32	1.431	39.0	0.0131	0.0176			8.012
3798.7	3742.2	1.859	45.0143	34.869	248.5	22.89	1.547	50.9	0.0051	0.0078			7.995
3899.5	3840.6	1.629	45.4736	34.849	244.5	23.95	1.624	59.8	0.0073	0.0078			7.987
3999.0	3937.7	1.372	45.9284	34.820	239.8	25.62	1.742	71.4	0.0066	0.0078			7.970
4097.2	4033.5	1.148	46.3744	34.796	236.0	26.99	1.840	81.5	0.0117	0.0088			7.955
4198.4	4132.2	0.907	46.8336	34.774	231.4	28.52	1.939	92.3	0.0111	0.0117			7.939
4398.4	4327.1	0.407	47.7438	34.720	224.1	31.13	2.137	110.9	0.0437	0.0244			7.912
4498.1	4424.2	0.087	48.2073	34.690	221.0	32.61	2.242	122.4	0.0913	0.0479			7.895
4557.0	4481.5	0.086	48.4605	34.688	221.2	32.68	2.248	122.4	0.0831	0.0469			7.904

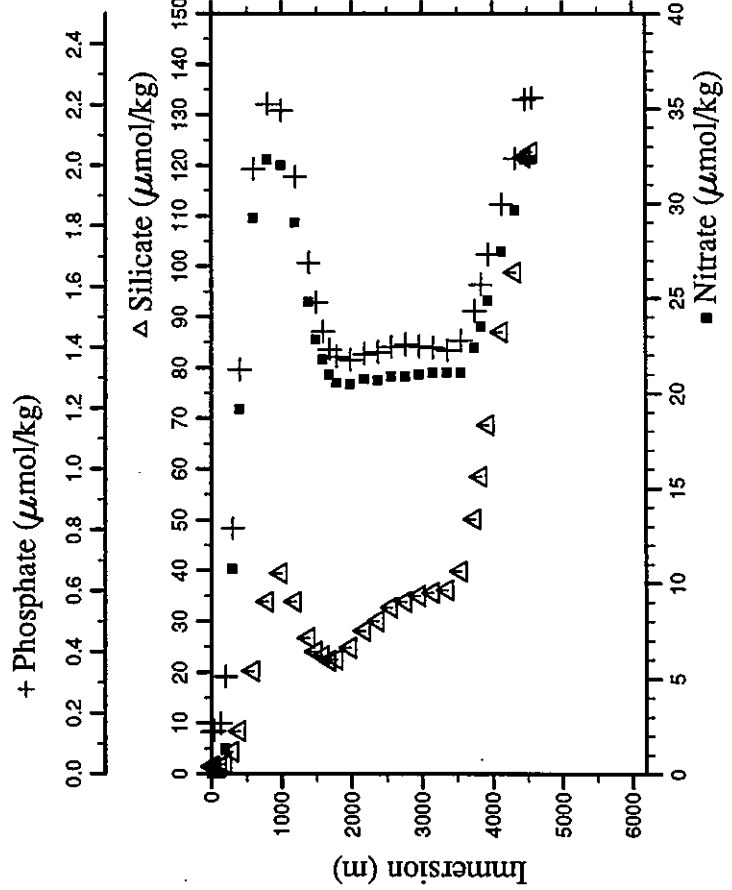
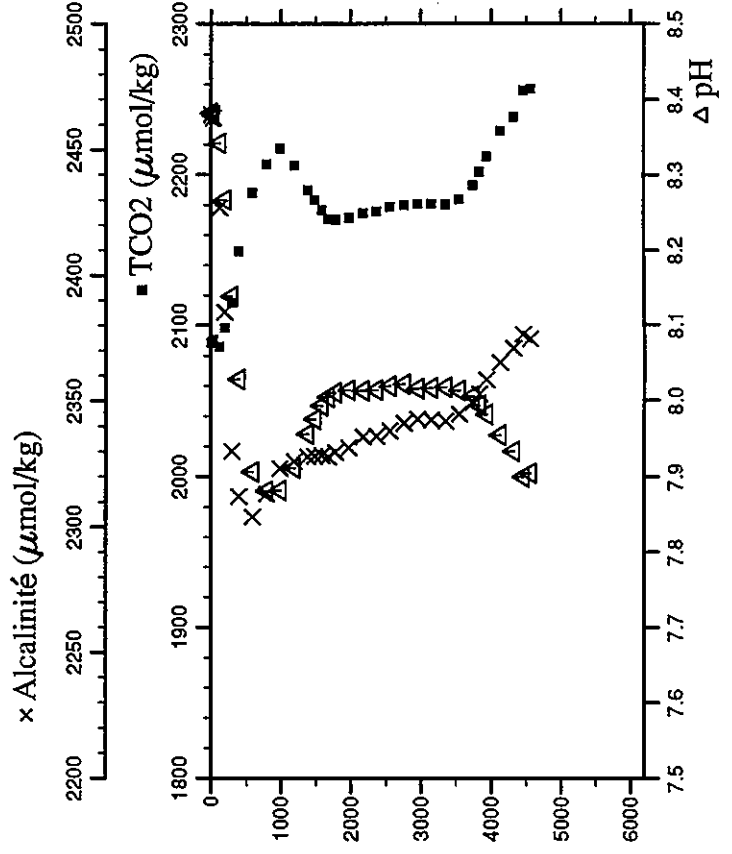
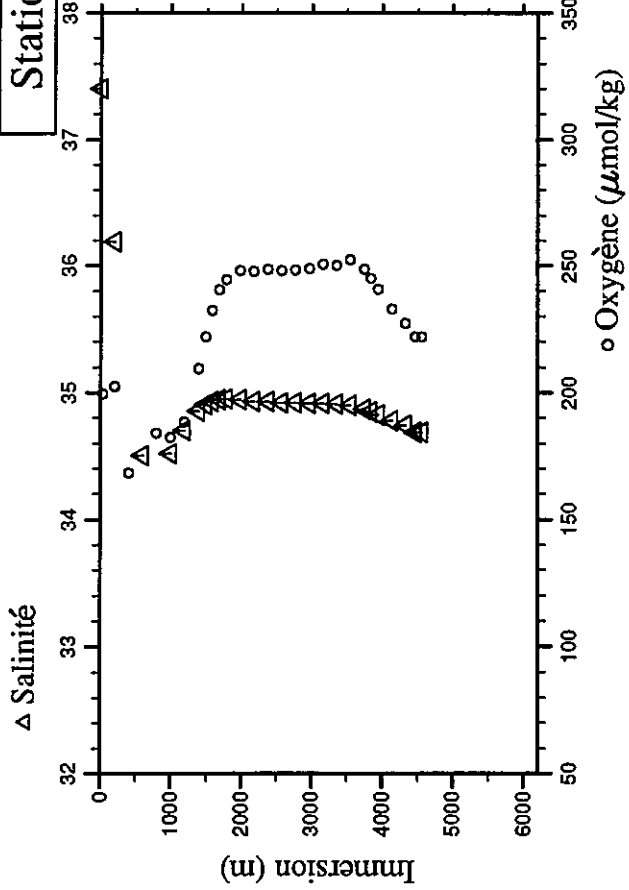
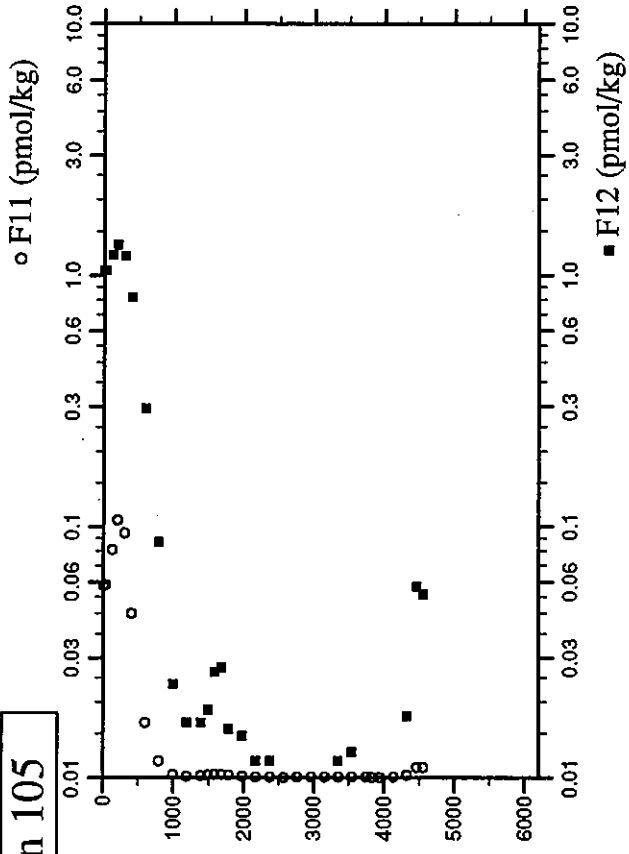
# Station 104



Station : 105 Campagne : CIPHER 2  
 Date : 07-02-94 Heure : 21 h 13 mn  
 Position : S 18 21.20 W 30 51.32  
 Dernier niveau à : 4641  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
6.2	6.2	27.759	24.3072	37.404	197.9	0.00	0.139	1.4	1.7830	1.0454	2088.73	2463.9	8.382
36.3	36.1	27.464	24.5288	37.395	199.6	0.00	0.142	1.4	1.7907	1.0483	2090.20	2462.6	8.379
126.3	125.5	22.924	25.8938	36.830	213.8	0.00	0.165	1.4	2.1223	1.2049	2085.67	2426.6	8.342
201.1	199.8	19.391	26.7005	36.192	202.5	1.25	0.318	1.9	2.3987	1.3198	2385.2	2385.2	8.267
201.8	200.5	19.039	26.7584	36.177	202.4	1.34	0.321	1.9	2.3943	1.3218	2098.34	2385.3	8.267
300.6	298.6	14.003	27.7467	35.313	186.9	10.73	0.806	4.4	2.2756	1.1975	2114.91	2330.2	8.139
401.5	398.7	10.872	28.5465	34.931	168.2	19.16	1.327	8.5	1.5258	0.8194	2149.34	2312.1	8.029
601.9	597.4	6.249	29.8752	34.503	169.9	29.22	1.988	20.2	0.5118	0.2954	2187.82	2303.9	7.907
800.7	794.4	4.070	31.0040	34.408	184.0	32.32	2.202	33.9	0.1583	0.0871	2207.07	2313.1	7.881
1001.5	993.1	3.611	32.0625	34.519	182.1	32.00	2.181	39.5	0.0330	0.0235	2217.52	2323.2	7.882
1201.0	1190.3	3.790	33.0919	34.704	188.4	28.98	1.962	33.9	0.0145	0.0166	2206.11	2326.1	7.912
1400.8	1387.7	3.898	34.0990	34.857	209.4	24.79	1.678	26.8	0.0198	0.0166	2189.66	2327.9	7.957
1501.1	1486.7	3.842	34.5982	34.907	221.8	22.80	1.547	24.1	0.0238	0.0186	2183.03	2328.2	7.976
1600.1	1584.4	3.695	35.0817	34.931	232.4	21.76	1.452	23.2	0.0289	0.0264	2176.24	2328.4	7.994
1700.2	1683.1	3.569	35.5638	34.948	240.3	20.98	1.392	22.3	0.0319	0.0274	2170.46	2327.9	8.005
1800.0	1781.5	3.415	36.0336	34.951	244.6	20.55	1.369	22.6	0.0244	0.0156	2169.94	2329.5	8.011
2000.6	1979.1	3.173	36.9619	34.945	248.0	20.46	1.359	24.9	0.0116	0.0147	2171.27	2331.5	8.014
2199.6	2175.0	2.953	37.8738	34.933	247.8	20.76	1.379	28.2	0.0066	0.0117	2174.52	2335.8	8.013
2399.6	2371.6	2.801	38.7813	34.931	248.6	20.68	1.384	30.1	0.0070	0.0117	2175.69	2335.9	8.014
2599.9	2568.4	2.671	39.6834	34.922	248.0	20.89	1.402	32.7	0.0049	0.0059	2178.42	2337.9	8.019
2799.7	2764.5	2.582	40.5758	34.921	248.3	20.89	1.410	33.9	0.0056	0.0050	2179.75	2341.1	8.022
2999.0	2959.9	2.492	41.4622	34.918	248.8	20.98	1.403	35.0	0.0066	0.0088	2180.74	2342.5	8.016
3198.7	3155.5	2.402	42.3491	34.915	250.7	21.07	1.400	35.6	0.0063	0.0078	2180.83	2342.3	8.017
3399.5	3352.1	2.305	43.2377	34.912	250.2	21.07	1.391	36.1	0.0086	0.0117	2180.04	2341.8	8.018
3598.4	3546.6	2.142	44.1189	34.899	252.3	21.07	1.423	39.8	0.0066	0.0127	2183.60	2344.5	8.013
3799.5	3743.1	1.848	45.0183	34.871	248.5	22.36	1.520	50.1	0.0071	0.0088	2193.06	2349.2	8.006
3898.0	3839.3	1.650	45.4635	34.851	244.9	23.49	1.606	58.5	0.0030	0.0088	2201.65	2352.6	7.994
3999.1	3937.9	1.401	45.9243	34.825	240.7	24.84	1.706	68.7	0.0020	0.0068	2211.83	2358.0	7.982
4199.4	4133.3	0.977	46.8293	34.779	232.9	27.47	1.872	87.0	0.0083	0.0068	2228.91	2364.9	7.955
4398.1	4326.1	0.635	47.7169	34.745	227.1	29.63	2.023	98.8	0.0240	0.0176	2238.24	2370.5	7.934
4538.5	4463.7	0.032	48.3859	34.688	221.8	32.32	2.217	121.6	0.0953	0.0577	2255.52	2376.2	7.900
4638.8	4561.3	0.018	48.8179	34.685	221.8	32.32	2.223	122.6	0.0977	0.0538	2256.94	2374.4	7.905

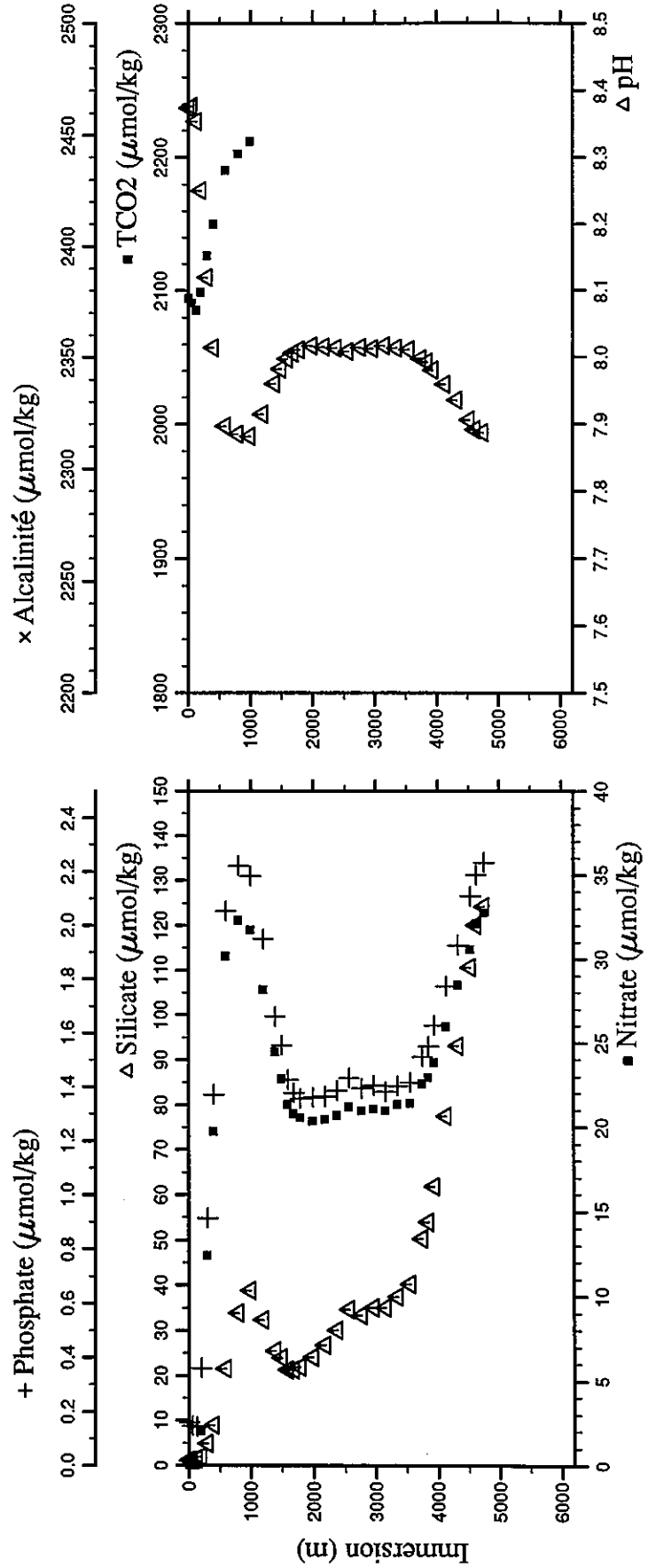
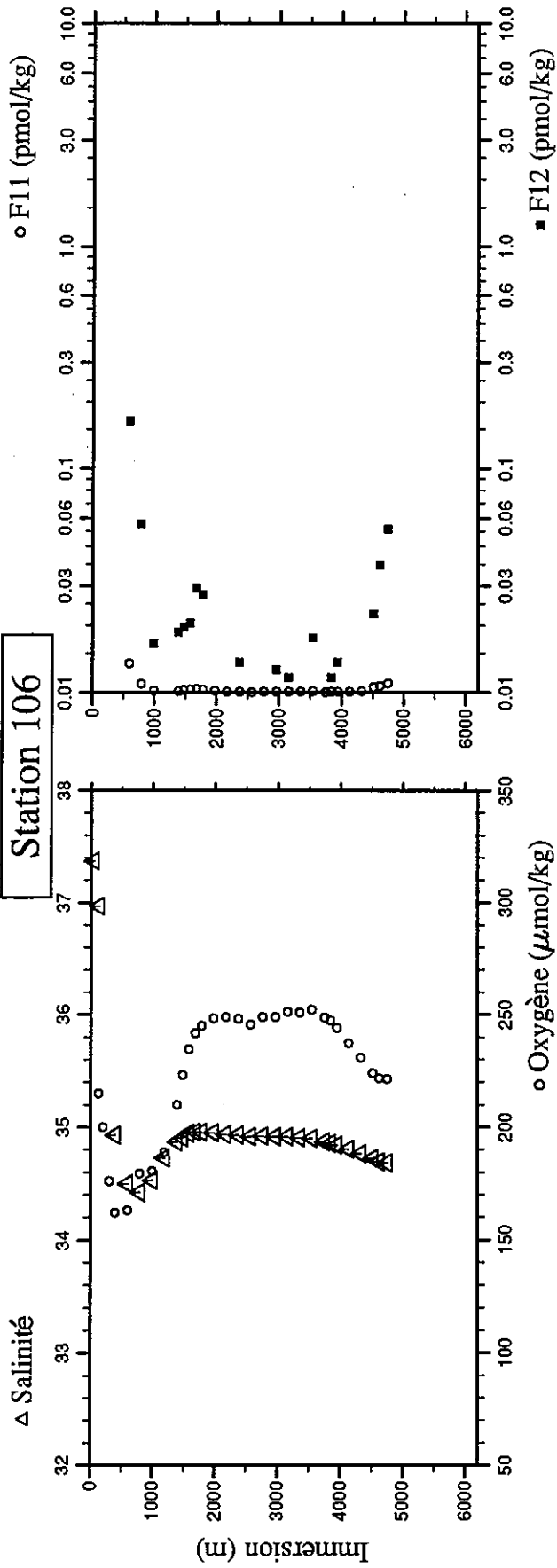
# Station 105



Station : 106 Campagne : CITHER 2  
 Date : 08-02-94 Heure : 3 h 10 mn  
 Position : S 17 51.68 W 30 49.47  
 Dernier niveau à : 4833  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION metres	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar		deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.4	5.4	27.411	24.3520	r	199.1	r	0.160	1.2			2094.12		8.374
46.3	46.0	27.431	24.5615	r	199.4	r	0.148	1.2			2090.85		8.377
125.0	124.2	23.615	25.7796		214.9		0.142	1.4			2085.28		8.354
200.4	199.1	18.673	26.7726	r	200.1		0.362	2.0			2098.81		8.251
300.0	298.0	13.781	27.7745	r	176.0		0.914	4.9			2126.26		8.120
401.1	398.3	10.841	28.5410		162.2		1.372	8.9			2150.05		8.015
602.3	597.8	6.133	29.8909		163.1		2.053	21.5	0.3063	0.1634	2190.26		7.897
800.2	793.9	4.103	31.0059		179.4		2.221	33.8	0.0890	0.0567	2202.57		7.885
1001.1	992.7	3.624	32.0691		180.5		2.183	38.8	0.0199	0.0166	2212.13		7.882
1200.4	1189.8	3.846	33.0961		188.9		1.949	32.4					7.915
1399.5	1386.5	3.928	34.0979		209.9		1.662	25.5	0.0168	0.0186			7.961
1499.0	1484.7	3.809	34.5928		223.2		1.553	24.0	0.0229	0.0196			7.983
1599.6	1583.9	3.776	35.0788		234.5		1.427	21.3	0.0345	0.0205			7.998
1700.3	1683.3	3.608	35.5616		241.6		1.378	21.3	0.0356	0.0293			8.007
1801.0	1782.5	3.484	36.0319		245.0		1.357	21.9	0.0312	0.0274			8.012
2001.3	1979.8	3.215	36.9612		248.2		1.361	24.1	0.0203	0.0098			8.018
2199.0	2174.4	3.004	37.8681		248.9		1.365	26.8	0.0098	0.0088			8.016
2398.7	2370.8	2.820	38.7749		248.1		1.386	30.1	0.0075	0.0137			8.014
2600.1	2568.6	2.654	39.6813		245.4		1.433	34.6	0.0000	0.0098			8.009
2799.9	2764.7	2.608	40.5734		248.8		1.395	33.3	0.0066	0.0078			8.015
2999.6	2960.6	2.498	41.4643		248.9		1.406	35.0	0.0066	0.0127			8.013
3200.2	3157.1	2.414	42.3544		251.1		1.383	35.0	0.0085	0.0117			8.018
3398.9	3351.6	2.298	43.2339		250.9		1.404	37.4	0.0069	0.0068			8.014
3598.6	3546.9	2.128	44.1215		252.2		1.417	40.2	0.0138	0.0176			8.012
3798.1	3741.8	1.849	45.0135		248.5		1.511	50.2	0.0049	0.0088			7.998
3899.3	3840.6	1.707	45.4672		247.2		1.549	54.0	0.0090	0.0117			7.993
3998.6	3937.6	1.548	45.9092		243.9		1.627	61.8	0.0078	0.0137			7.981
4199.3	4133.3	1.191	46.8099		237.2		1.774	77.5	0.0057	0.0068			7.960
4398.4	4327.3	0.835	47.6994		230.7		1.927	93.1	0.0121	0.0088			7.936
4598.3	4522.0	0.395	48.6008		223.9		2.108	110.7	0.0558	0.0225			7.907
4698.4	4619.4	0.108	49.0648		221.7		2.187	120.0	0.0692	0.0372			7.892
4831.4	4748.7	-0.029	49.6482		221.3		2.233	124.2	0.0957	0.0538			7.888

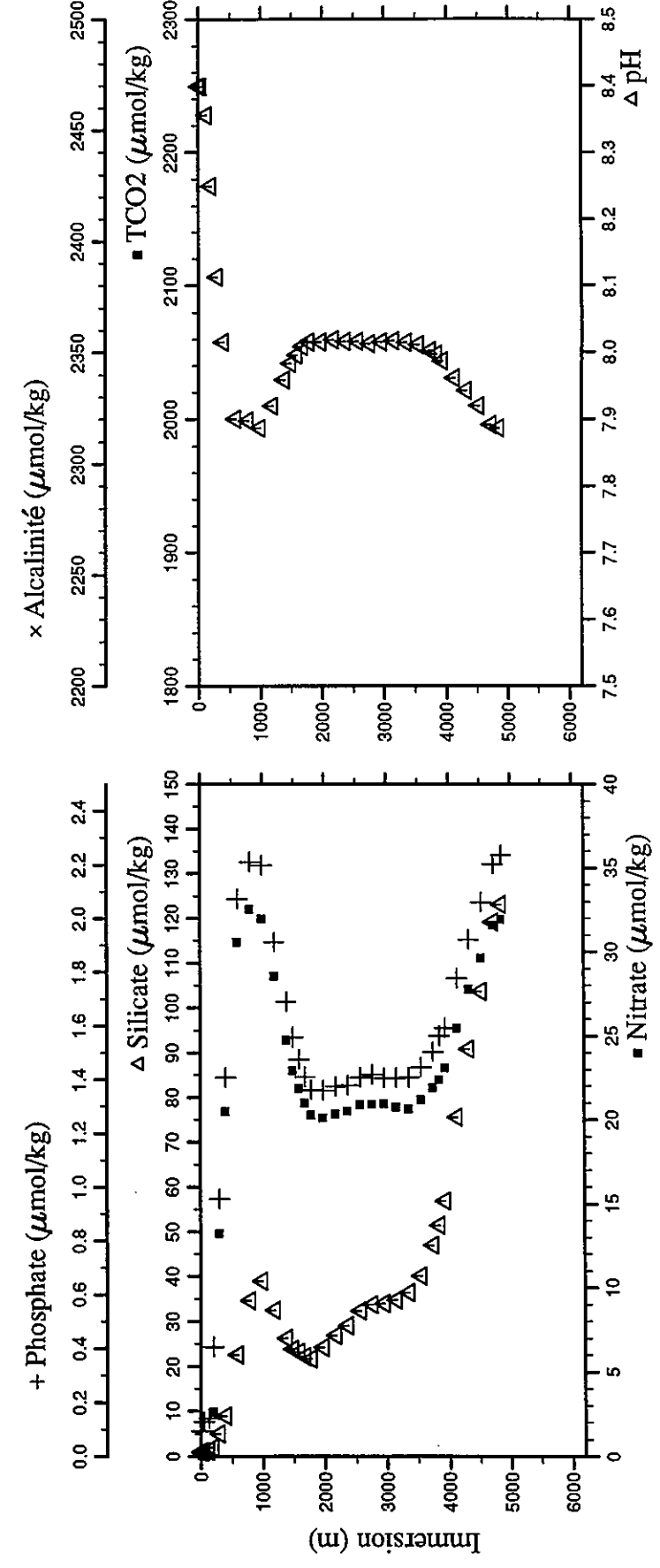
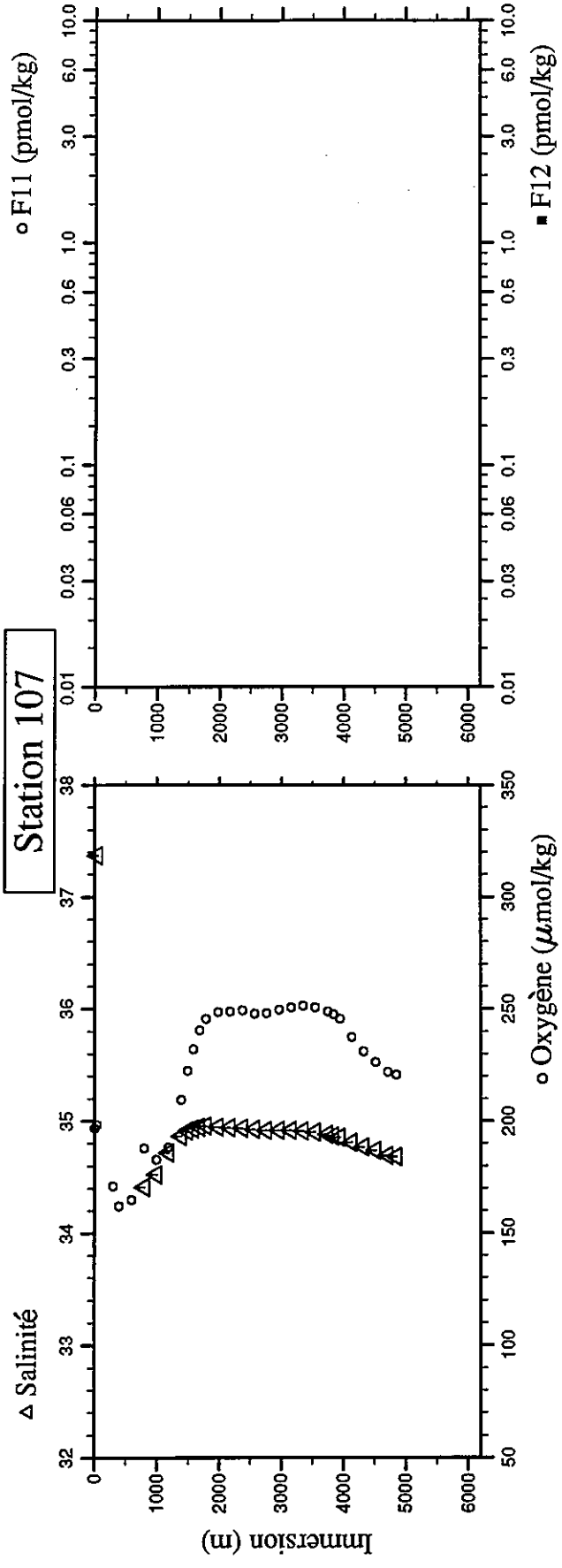
# Station 106





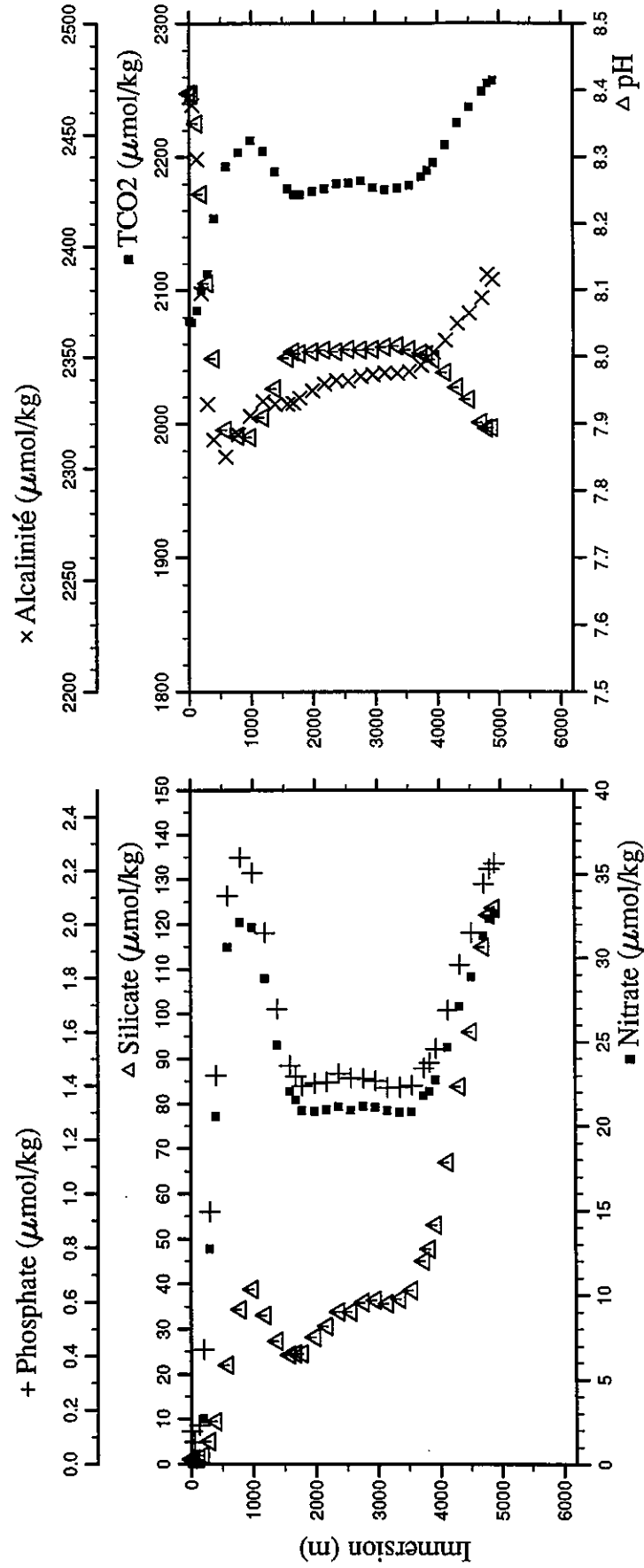
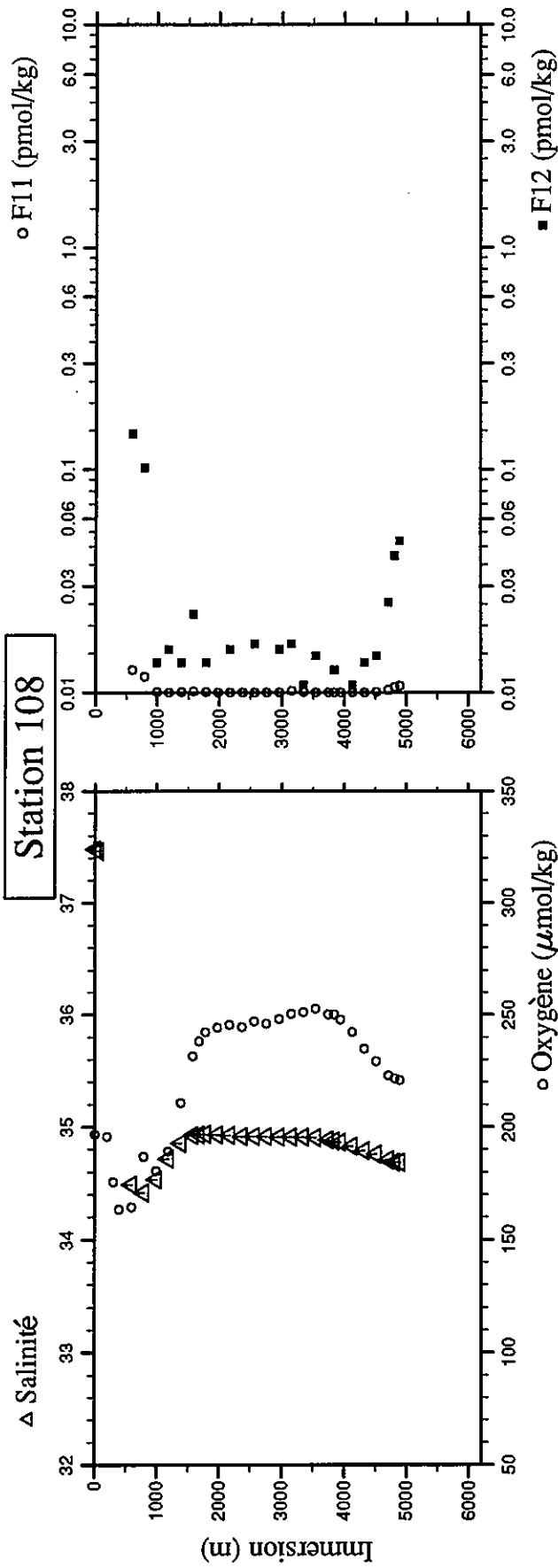


# Station 107





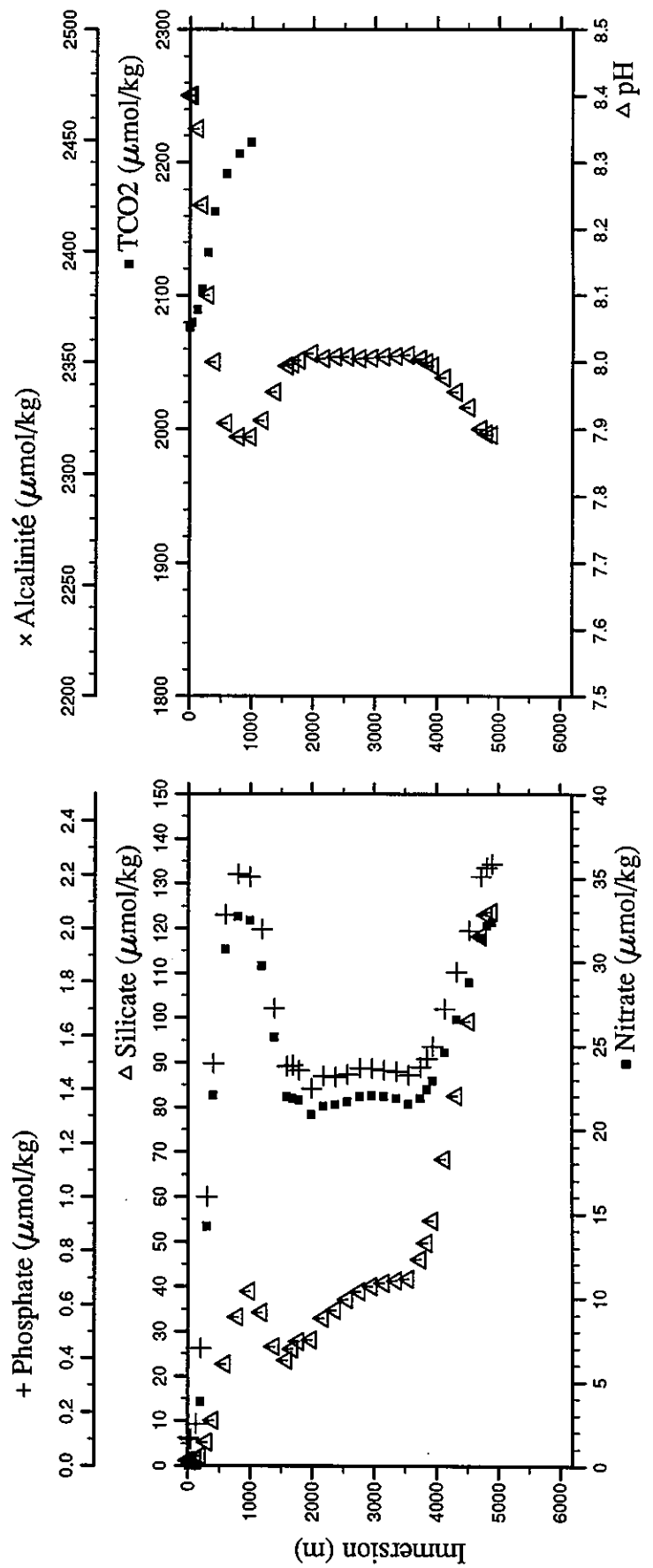
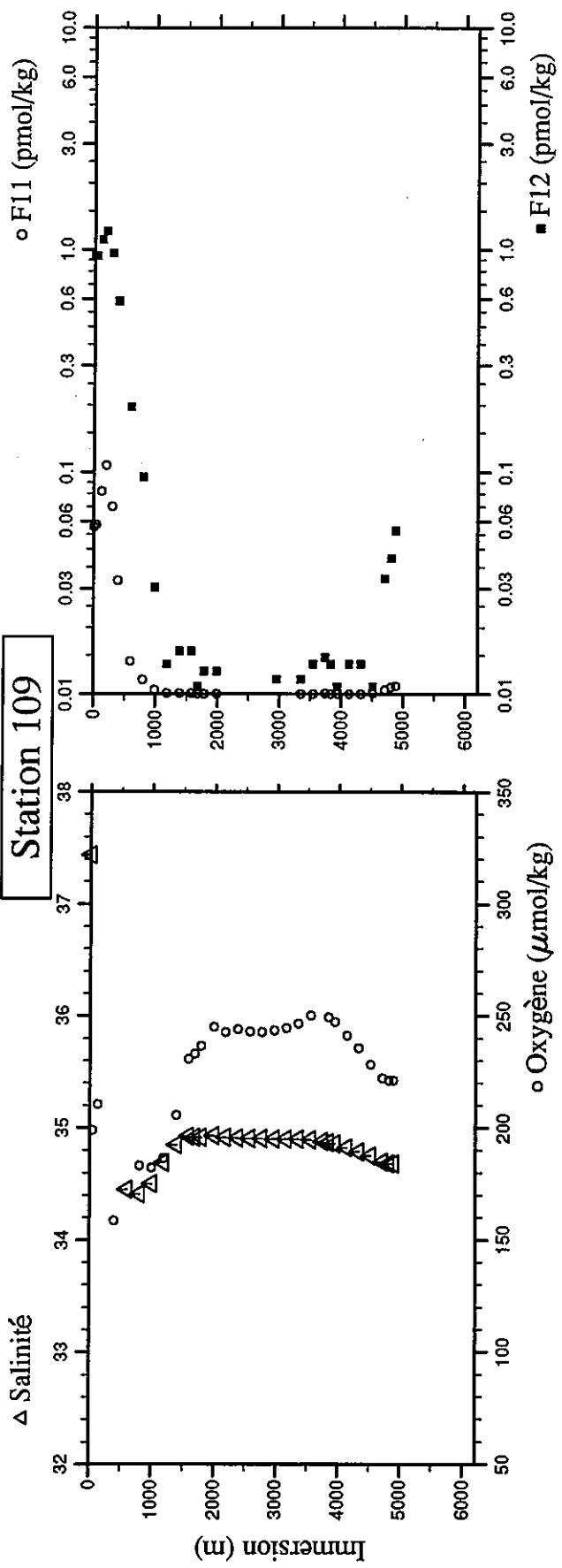
# Station 108



Station : 109 Campagne : CITHER 2  
 Date : 08-02-94 Heure : 21 h 19 mn  
 Position : S 16 23.38 W 30 44.72  
 Dernier niveau à : 4980  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI-	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.2	5.2	28.079	24.2248	37.436	196.0	r	0.104	1.2	1.7556	0.9341	2076.11		8.401
40.6	40.4	27.856	24.4647	37.454	r	0.04	0.098	1.1	1.7831	0.9370	2079.65		8.401
126.5	125.7	23.480	25.8416	36.977	r	0.04	0.156	1.3	2.1345	1.1062	2089.74		8.351
200.3	199.0	18.251	26.8414	35.989	r	3.80	0.437	2.2	2.4047	1.2077	2104.92		8.236
301.6	299.6	13.332	27.8393	35.225	r	14.22	1.000	5.3	1.9734	0.9610	2132.30		8.101
400.6	397.8	9.999	28.6245	34.850	r	22.05	1.497	10.1	1.1925	0.5858	2163.13		8.001
599.6	595.2	5.576	29.9232	34.453	r	30.74	2.051	22.7	0.3438	0.1966	2191.82		7.909
802.2	795.9	4.094	31.0068	34.414	r	32.72	2.202	33.2	0.1474	0.0949	2206.63		7.889
1000.7	992.4	3.644	32.0434	34.506	r	32.47	2.192	39.0	0.0461	0.0303	2215.14		7.889
1197.9	1187.4	3.785	33.0632	34.590	r	29.77	1.996	34.3	0.0067	0.0137			7.913
1401.7	1388.7	3.942	34.0934	34.849	r	25.52	1.703	26.6	0.0072	0.0156			7.956
1601.2	1585.6	3.681	35.0848	34.924	r	23.08	1.485	23.6	0.0105	0.0108			7.995
1699.7	1682.8	3.427	35.5554	34.915	r	21.95	1.490	26.1	0.0002	0.0127			7.997
1800.3	1782.0	3.246	36.0340	34.917	r	21.76	1.471	27.7	0.0006	0.0108			8.003
2009.6	1988.2	3.030	37.0129	34.931	r	20.87	1.404	28.1	0.0045	0.0127			8.013
2200.2	2175.8	2.801	37.8850	34.915	r	21.39	1.450	33.0	-0.0001	0.0098			8.006
2400.8	2373.0	2.683	38.7939	34.912	r	21.48	1.446	34.7	-0.0016	0.0068			8.008
2599.7	2568.4	2.576	39.6858	34.905	r	21.66	1.456	37.2	-0.0018	0.0059			8.008
2799.2	2764.3	2.494	40.5761	34.904	r	21.97	1.479	38.9	-0.0023	0.0088			8.006
2999.1	2960.3	2.419	41.4654	34.900	r	22.02	1.478	40.1	-0.0013	0.0117			8.007
3199.7	3156.8	2.344	42.3534	34.899	r	21.99	1.472	40.9	-0.0020	0.0059			8.008
3399.8	3352.7	2.259	43.2377	34.899	r	21.86	1.466	41.3	0.0022	0.0117			8.009
3600.5	3549.0	2.136	44.1275	34.894	r	21.53	1.454	41.8	0.0007	0.0137			8.011
3799.7	3743.7	1.949	45.0097	34.882	r	21.88	1.483	46.1	0.0056	0.0147			8.005
3898.8	3840.4	1.836	45.4495	34.870	r	22.40	1.516	49.7	0.0008	0.0137			8.000
3998.6	3937.9	1.711	45.8933	34.858	r	22.93	1.560	54.7	0.0031	0.0108			7.995
4199.0	4133.3	1.397	46.7869	34.825	r	24.62	1.699	68.4	0.0012	0.0137			7.977
4396.9	4326.2	1.090	47.6665	34.790	r	26.56	1.837	82.5	0.0018	0.0137			7.956
4598.0	4522.0	0.700	48.5664	34.751	r	28.77	1.992	99.2	0.0052	0.0108			7.933
4798.4	4717.0	0.164	49.4830	34.697	r	31.46	2.193	118.3	0.0449	0.0333			7.901
4897.3	4813.2	0.023	49.9203	34.684	r	32.17	2.228	123.1	0.0761	0.0411			7.894
4978.1	4891.7	0.001	50.2673	34.682	r	32.37	2.240	123.8	0.0843	0.0548			7.892

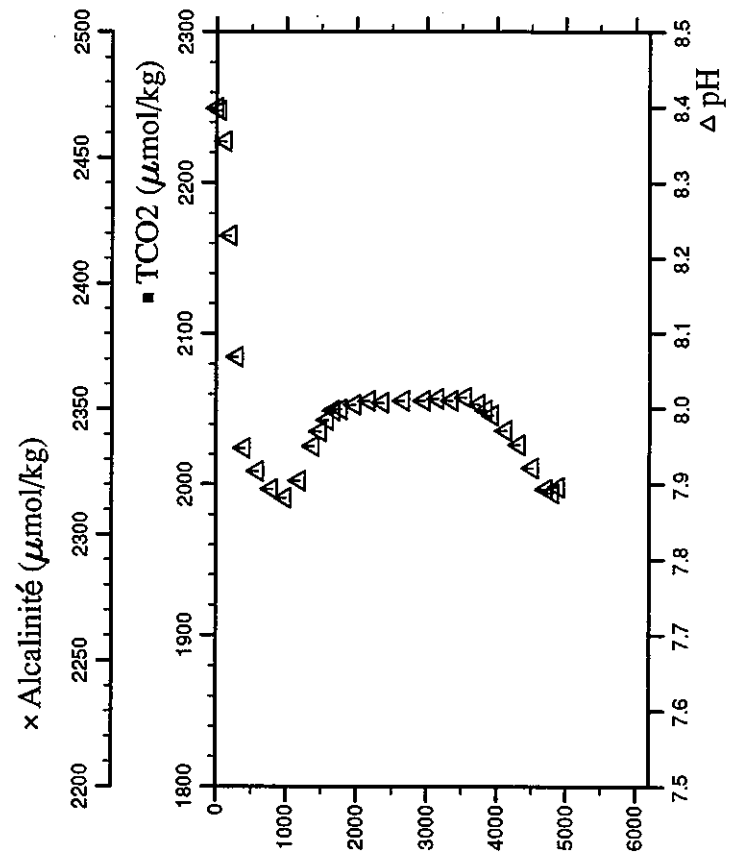
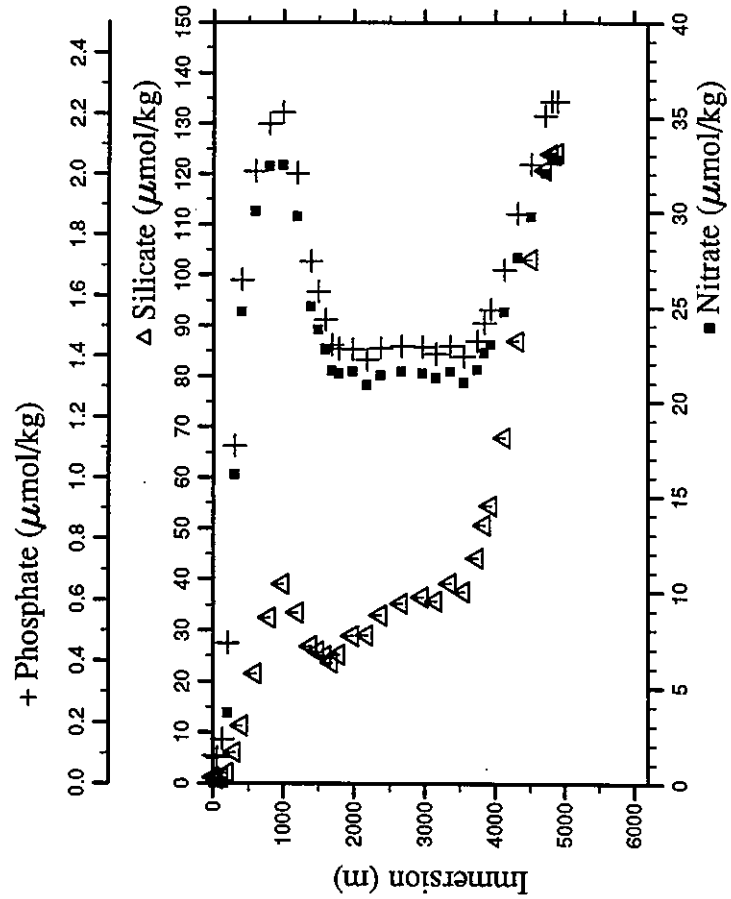
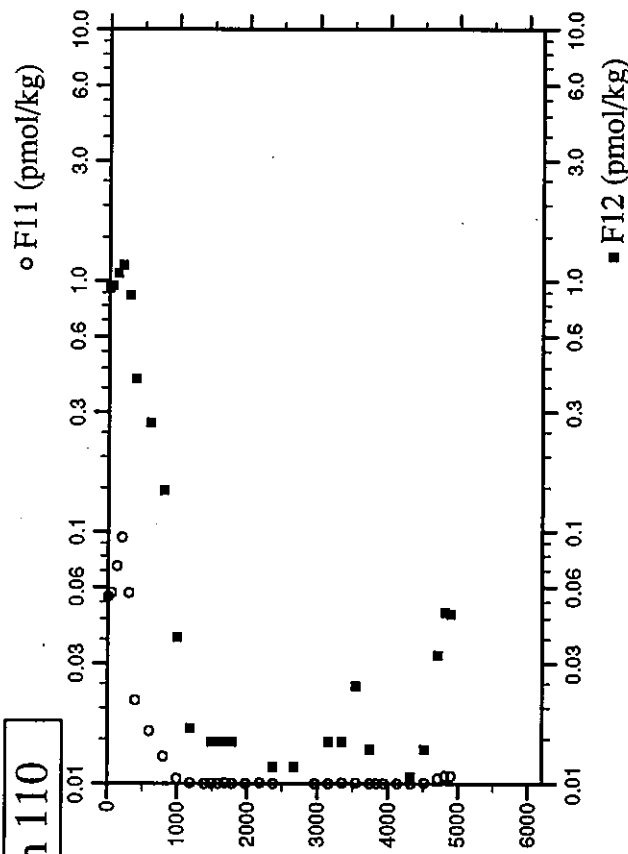
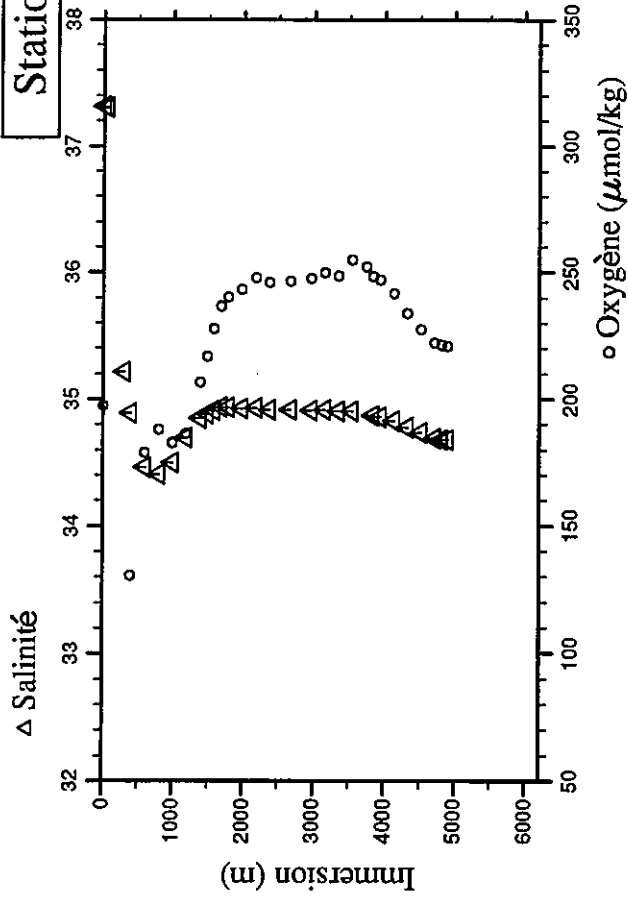
# Station 109



Station : 110 Campagne : CITHER 2  
 Date : 09-02-94 Heure : 3 h 55 mn  
 Position : S 15 53.69 W 30 43.12  
 Dernier niveau à : 4980  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.1	4.1	27.850	24.2013	37.315	197.4	0.04	0.092	1.2	1.7260	0.9351			8.399
52.2	51.9	27.831	24.4072	37.307	198.6	0.04	0.086	1.0	1.7638	0.9586			8.396
125.7	124.9	24.001	25.7399	37.089	210.7	0.04	0.145	1.2	2.0141	1.0730			8.355
200.2	198.9	18.433	26.8709	36.038	189.2	0.04	0.459	2.1	2.2800	1.1568			8.230
302.0	300.0	13.089	27.8775	35.217	158.3	0.04	1.104	6.1	1.7638	0.8789			8.069
400.0	397.3	10.164	28.6335	34.888	130.7	0.04	1.652	11.3	0.7758	0.4087			7.948
599.7	595.3	5.791	29.9025	34.464	178.8	0.04	2.010	21.5	0.4865	0.2719			7.918
801.5	795.2	4.158	30.9878	34.405	188.1	0.04	2.167	32.5	0.2515	0.1467			7.894
999.6	991.3	3.636	32.0343	34.500	182.6	0.04	2.204	39.1	0.0497	0.0381			7.882
1200.4	1189.9	3.831	33.0759	34.695	186.2	0.04	2.002	33.5	0.0057	0.0166			7.905
1399.2	1386.3	3.868	34.0879	34.849	206.7	0.04	1.712	26.9	0.0020	0.0059			7.951
1500.6	1486.4	3.740	34.5910	34.885	216.9	0.04	1.613	25.9	0.0014	0.0147			7.970
1601.6	1586.1	3.603	35.0869	34.913	227.8	0.04	1.520	25.0	0.0029	0.0147			7.985
1699.6	1682.7	3.528	35.5546	34.936	236.5	0.04	1.438	23.7	0.0056	0.0147			7.998
1800.9	1782.6	3.343	36.0327	34.934	240.1	0.04	1.425	25.2	0.0047	0.0147			8.000
1999.3	1978.1	3.038	36.9610	34.926	243.1	0.04	1.423	28.9	0.0015	0.0078			8.006
2202.6	2178.2	2.907	37.8934	34.933	247.9	0.04	1.388	29.0	0.0061	0.0078			8.011
2400.9	2373.2	2.716	38.7929	34.916	245.9	0.04	1.426	33.0	0.0022	0.0117			8.008
2699.0	2666.0	2.582	40.1286	34.918	246.4	0.04	1.433	35.3	-0.0007	0.0117			8.011
2998.6	2959.9	2.473	41.4614	34.913	247.6	0.04	1.430	36.5	0.0001	0.0098			8.011
3198.9	3156.1	2.406	42.3485	34.916	249.8	0.04	1.407	35.8	0.0013	0.0147			8.013
3400.3	3353.3	2.289	43.2370	34.906	248.5	0.04	1.434	39.2	0.0052	0.0147			8.011
3599.3	3547.9	2.200	44.1168	34.903	254.8	0.04	1.400	37.5	0.0057	0.0244			8.015
3798.7	3742.8	1.975	45.0041	34.896	252.0	0.04	1.449	44.1	0.0038	0.0137			8.006
3899.0	3840.7	1.847	45.4486	34.869	248.3	0.04	1.509	50.7	0.0002	0.0088			7.998
3998.7	3938.1	1.736	45.8912	34.861	247.1	0.04	1.554	54.4	0.0006	0.0059			7.991
4198.0	4132.5	1.426	46.7792	34.828	241.7	0.04	1.685	67.9	0.0016	0.0098			7.971
4398.3	4327.7	0.992	47.6824	34.780	233.7	0.04	1.870	87.0	0.0038	0.0107			7.952
4596.8	4521.0	0.607	48.5705	34.738	227.4	0.04	2.032	103.2	0.0097	0.0137			7.922
4799.0	4717.7	0.111	49.4926	34.693	222.2	0.04	2.193	120.8	0.0485	0.0323			7.894
4899.9	4815.8	-0.001	49.9346	34.684	221.4	0.04	2.240	124.0	0.0752	0.0479			7.889
4979.2	4892.9	-0.009	50.2731	34.681	220.9	0.04	2.240	124.3	0.0741	0.0469			7.896

**Station 110**

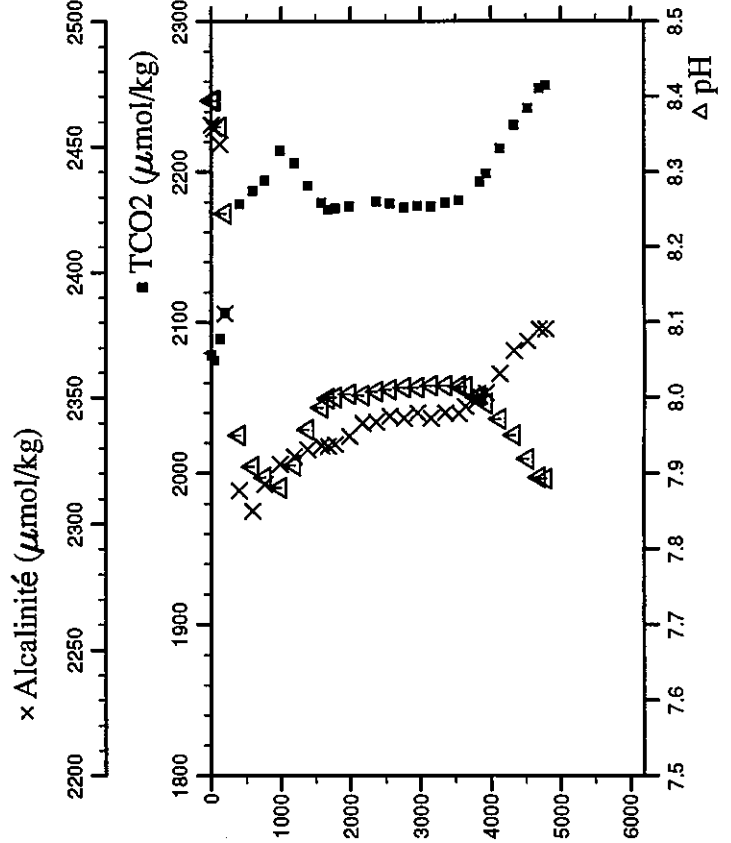
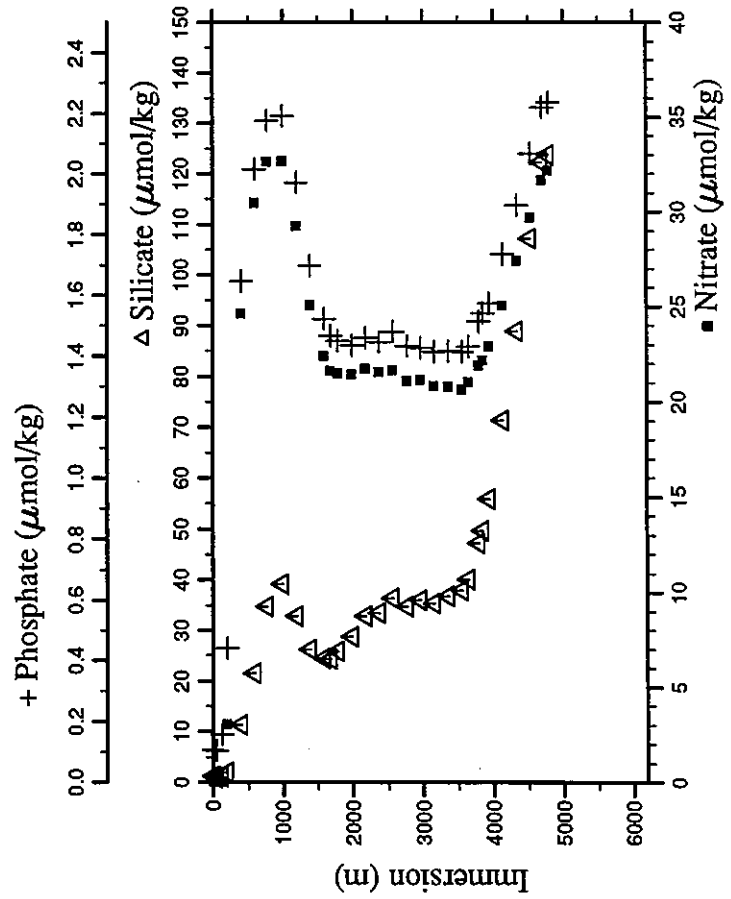
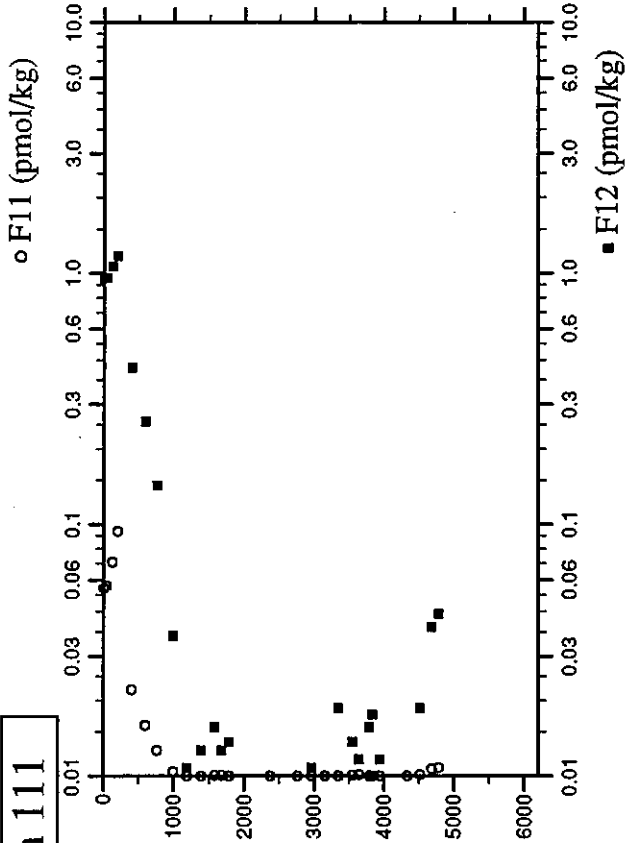
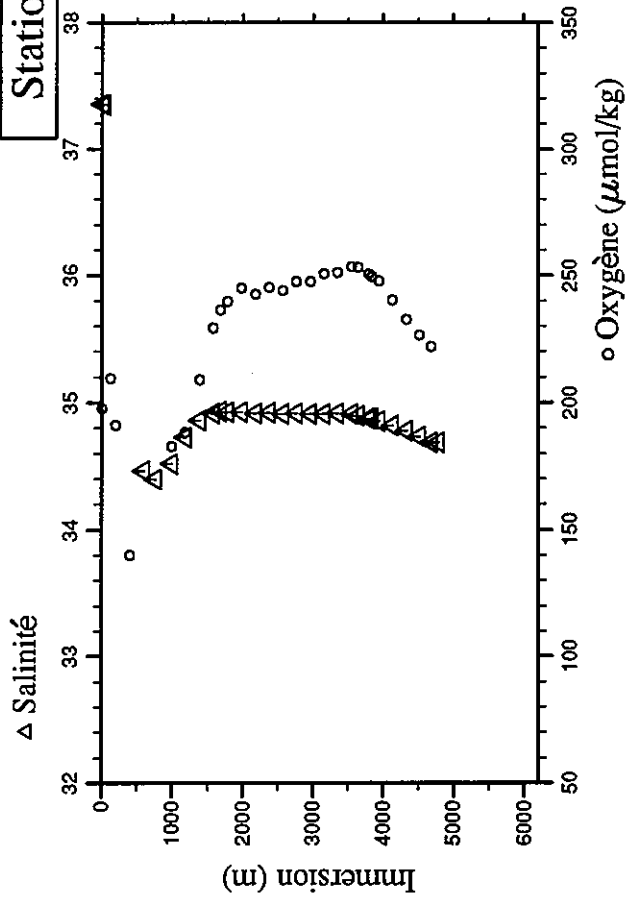




Station : 111 Campagne : CITHER 2  
 Date : 09-02-94 Heure : 9 h 59 mn  
 Position : S 15 24.25 W 30 41.71  
 Dernier niveau à : 4870  
 Nb prélèvements : 31

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.7	4.7	27.840	24.2414	37.357	197.7	0.04	0.107	1.2	1.7413	0.9546	2078.61	2458.7	8.395
42.6	42.3	27.728	24.4327	37.352	198.4	r	0.104	1.0	1.7655	0.9605	2074.63	2457.2	8.395
125.6	124.8	24.569	25.6573	37.155	209.3	r	0.157	1.1	1.9810	1.0650	2089.28	2450.9	8.360
201.1	199.8	19.230	26.7401	36.134	191.2	r	0.441	1.9	2.2672	1.1684	2106.30	2383.4	8.245
401.8	399.1	9.919	28.6545	34.861	140.0	r	0.646	11.3	0.8003	0.4205	2178.44	2313.0	7.951
600.4	596.0	5.787	29.9020	34.463	178.9	r	2.015	21.5	0.4728	0.2573	2187.52	2304.9	7.909
769.9	764.0	3.966	30.8637	34.396	192.5	r	2.177	34.7	0.2399	0.1428	2194.38	2315.6	7.895
1002.1	993.8	3.622	32.0609	34.518	182.7	r	2.192	39.2	0.0462	0.0362	2214.17	2323.5	7.881
1200.4	1189.9	3.870	33.0969	34.727	188.3	r	1.972	32.9	0.0030	0.0108	2205.67	2326.5	7.911
1401.5	1388.6	3.872	34.1074	34.860	208.9	r	1.698	26.2	0.0020	0.0127	2190.88	2329.3	7.958
1600.2	1584.7	3.633	35.0809	34.917	229.2	r	1.522	24.4	0.0081	0.0156	2179.23	2330.9	7.987
1701.3	1684.5	3.484	35.5653	34.931	236.4	r	1.466	24.3	0.0075	0.0127	2174.56	2330.7	7.999
1800.4	1782.2	3.305	36.0349	34.928	239.7	r	1.450	25.8	0.0041	0.0137	2175.37	2331.5	8.001
2001.3	1980.1	3.046	36.9689	34.925	244.9	r	1.436	28.8	-0.0006	0.0088	2176.69	2334.7	8.005
2200.6	2176.3	2.816	37.8833	34.917	242.5	r	1.460	32.8	-0.0001	0.0078	2339.7	2339.7	8.003
2399.2	2371.6	2.714	38.7842	34.919	245.3	r	1.445	33.5	0.0017	0.0088	2180.20	2340.4	8.008
2599.5	2568.4	2.588	39.6854	34.912	244.1	r	1.479	36.4	-0.0013	0.0078	2179.06	2342.5	8.011
2799.8	2765.0	2.550	40.5786	34.918	247.6	r	1.433	34.7	0.0009	0.0068	2176.12	2341.9	8.013
2999.9	2961.2	2.465	41.4690	34.913	247.5	r	1.426	36.0	0.0022	0.0108	2177.38	2343.9	8.013
3200.3	3157.6	2.394	42.3576	34.913	250.5	r	1.415	35.4	0.0022	0.0098	2176.80	2341.8	8.016
3400.8	3353.9	2.291	43.2445	34.914	251.2	r	1.417	36.8	0.0037	0.0186	2179.25	2343.8	8.016
3600.8	3549.5	2.170	44.1275	34.908	253.4	r	1.413	37.9	0.0058	0.0137	2180.99	2343.6	8.015
3699.3	3645.8	2.080	44.5633	34.897	253.2	r	1.430	40.1	0.0111	0.0117	2346.3	2346.3	8.014
3845.5	3788.6	1.898	45.2148	34.875	250.6	r	1.514	47.2	0.0025	0.0156	2348.4	2348.4	8.001
3899.4	3841.2	1.827	45.4543	34.873	249.7	r	1.542	49.6	0.0044	0.0176	2193.22	2350.4	8.002
4000.7	3940.1	1.680	45.9064	34.855	247.8	r	1.572	55.8	0.0010	0.0117	2198.85	2351.6	7.992
4196.0	4130.6	1.329	46.7809	34.818	240.2	r	1.735	71.4	-0.0014	0.0098	2215.61	2359.3	7.972
4402.3	4331.7	0.942	47.7059	34.776	232.5	r	1.898	88.9	0.0018	0.0078	2231.04	2368.4	7.951
4598.8	4523.0	0.513	48.5909	34.735	226.4	r	2.066	107.2	0.0141	0.0186	2242.16	2372.4	7.919
4770.4	4690.0	0.058	49.3748	34.687	221.9	r	2.220	122.4	0.0679	0.0391	2255.37	2377.2	7.895
4867.2	4784.1	0.003	49.7951	34.685	221.4	r	2.235	123.7	0.0789	0.0440	2257.50	2377.1	7.893

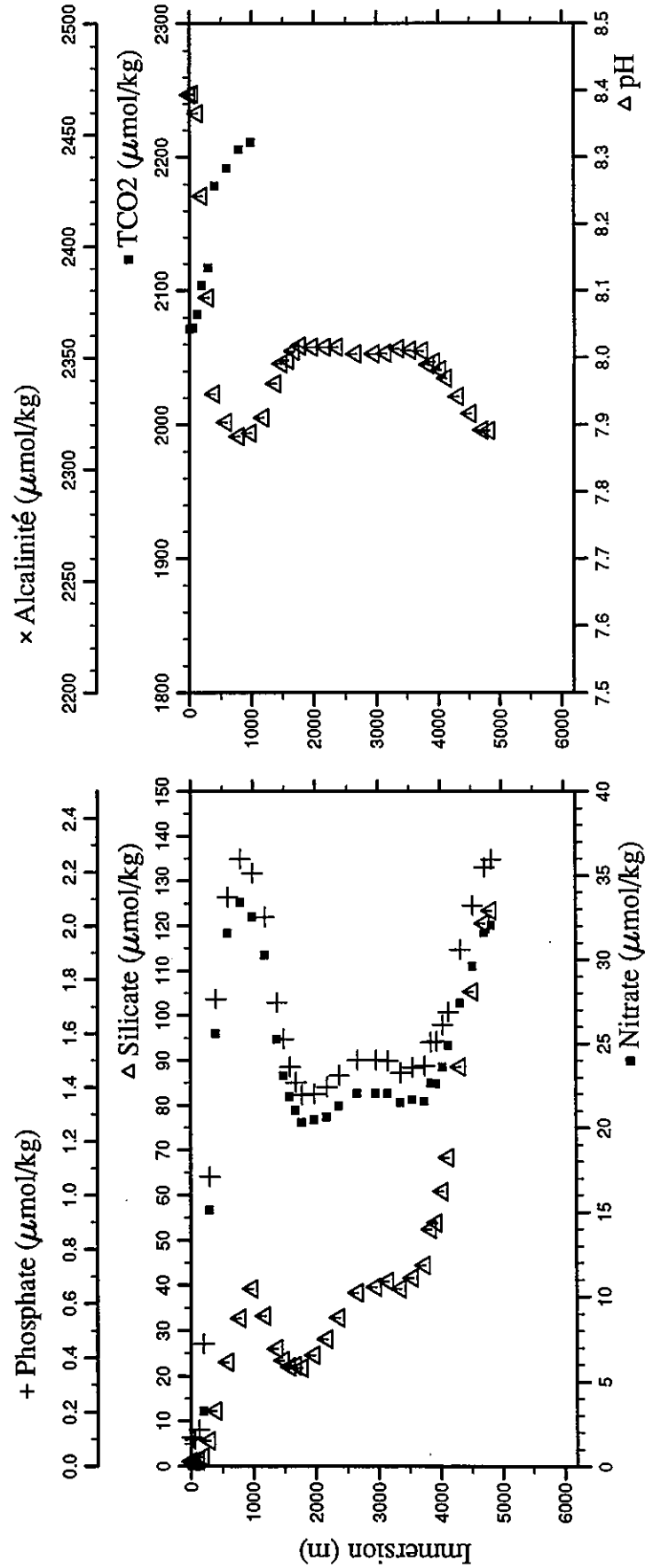
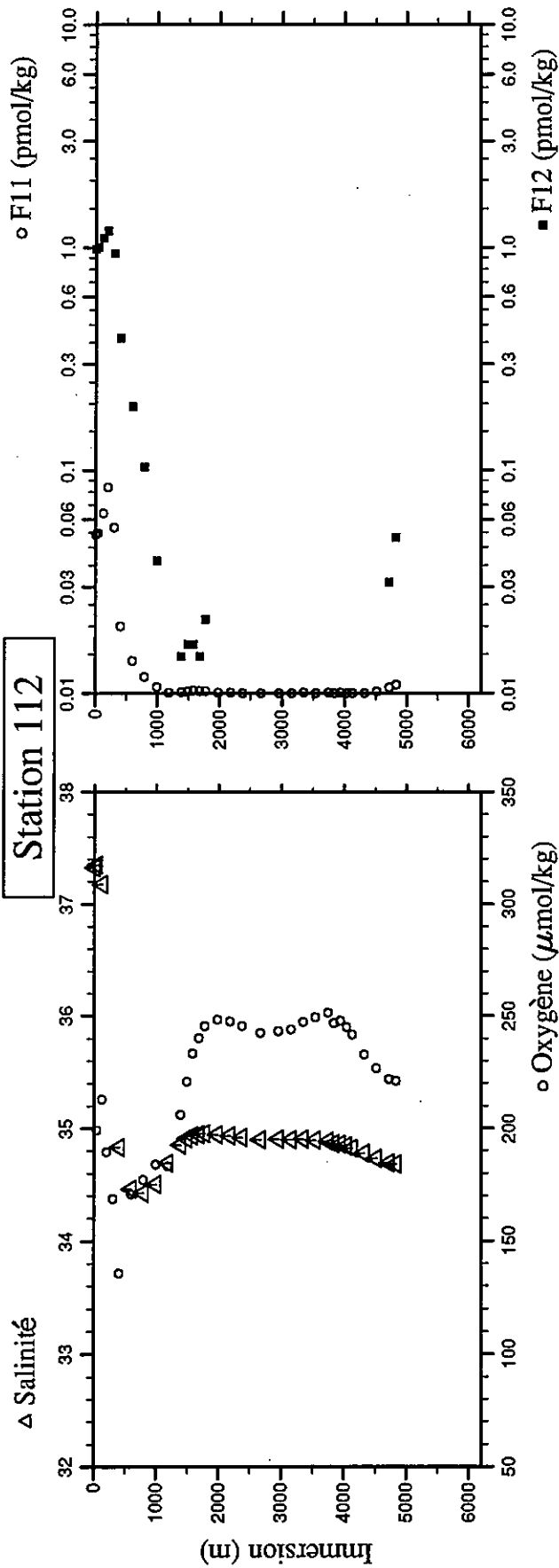
Station 111



Station : 112 Campagne : CITHER 2  
 Date : 09-02-94 Heure : 16 h 16 mn  
 Position : S 14 54.82 W 30 40.01  
 Dernier niveau à : 4919  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION metres	TEMP. POT. SONDE	deg.cels.	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
3.3	3.3	27.893		24.1914	37.325	197.8	0.04	0.107	1.1	1.6545	0.9878	2071.54		8.394
46.3	46.0	27.612		24.4858	37.352	199.3	0.04	0.098	1.1	1.6724	1.0015	2072.04		8.395
125.0	124.2	24.627		25.6328	37.178	213.0	0.04	0.134	1.2	1.8810	1.1012	2082.46		8.366
200.9	199.6	18.883		26.7687	36.130	189.5	3.25	0.453	2.1	2.1527	1.1900	2104.03		8.242
302.0	300.0	13.011		27.8769	35.201	168.6	15.11	1.069	5.7	1.7347	0.9434	2117.10		8.090
401.9	399.2	9.648		28.6888	34.835	135.7	25.59	1.727	12.3	0.7041	0.3931	2178.59		7.946
600.5	596.1	5.626		29.9273	34.463	170.7	31.57	2.107	23.0	0.3426	0.1937	2191.69		7.904
798.7	792.5	4.224		30.9840	34.426	177.2	33.38	2.248	32.7	0.1722	0.1037	2205.49		7.883
1000.6	992.4	3.637		32.0413	34.506	184.1	32.54	2.195	39.2	0.0695	0.0391	2211.31		7.888
1199.7	1189.3	3.856		33.0649	34.690	183.1	30.26	2.032	33.2	0.0067	0.0039			7.911
1398.1	1385.3	3.986		34.0767	34.855	206.1	25.26	1.715	26.0	0.0125	0.0147			7.962
1499.4	1485.3	3.884		34.5846	34.909	220.9	23.08	1.579	23.5	0.0213	0.0166			7.991
1601.1	1585.7	3.740		35.0827	34.937	233.2	21.82	1.476	22.0	0.0303	0.0166			7.996
1699.2	1682.4	3.568		35.5568	34.948	240.2	21.02	1.419	22.3	0.0267	0.0147			8.010
1796.9	1778.8	3.460		36.0177	34.957	245.4	20.30	1.371	21.8	0.0272	0.0215			8.018
2000.6	1979.4	3.190		36.9610	34.948	248.2	20.47	1.375	24.6	0.0100	0.0078			8.016
2200.7	2176.4	2.965		37.8776	34.935	247.6	20.64	1.402	28.2	0.0092	0.0020			8.016
2400.6	2373.0	2.749		38.7874	34.919	245.4	21.30	1.443	32.8	0.0026	0.0078			8.016
2701.0	2668.1	2.542		40.1349	34.902	242.5	22.04	1.501	38.3	0.0014	-0.0010			8.006
2997.1	2958.5	2.442		41.4514	34.903	243.2	22.04	1.500	39.6	0.0003	0.0000			8.006
3197.4	3154.8	2.360		42.3395	34.898	244.0	22.03	1.499	40.8	0.0016	-0.0010			8.007
3401.3	3354.4	2.286		43.2431	34.905	247.2	21.49	1.455	39.2	0.0057	0.0068			8.013
3596.8	3545.7	2.156		44.1068	34.895	249.4	21.66	1.474	41.6	0.0028	0.0000			8.011
3798.5	3742.8	1.992		45.0013	34.887	251.3	21.56	1.480	44.4	0.0075	0.0078			8.010
3898.7	3840.6	1.842		45.4469	34.866	246.9	22.66	1.567	52.4	0.0005	-0.0019			7.990
3999.2	3938.7	1.722		45.8950	34.861	247.9	22.61	1.571	53.8	0.0054	0.0000			7.994
4101.4	4038.4	1.556		46.3515	34.842	244.9	23.58	1.633	60.8	0.0004	0.0049			7.982
4200.0	4134.6	1.402		46.7906	34.826	241.8	24.88	1.679	68.3	0.0004	0.0020			7.969
4398.0	4327.6	0.949		47.6855	34.776	232.9	27.39	1.912	88.5	0.0044	0.0088			7.942
4599.8	4524.1	0.539		48.5936	34.734	226.7	29.58	2.074	105.3	0.0179	0.0078			7.917
4801.6	4720.5	0.105		49.5042	34.694	221.9	31.60	2.218	120.6	0.0636	0.0313			7.892
4915.8	4831.5	0.007		50.0020	34.684	221.0	32.02	2.247	123.4	0.0883	0.0499			7.891

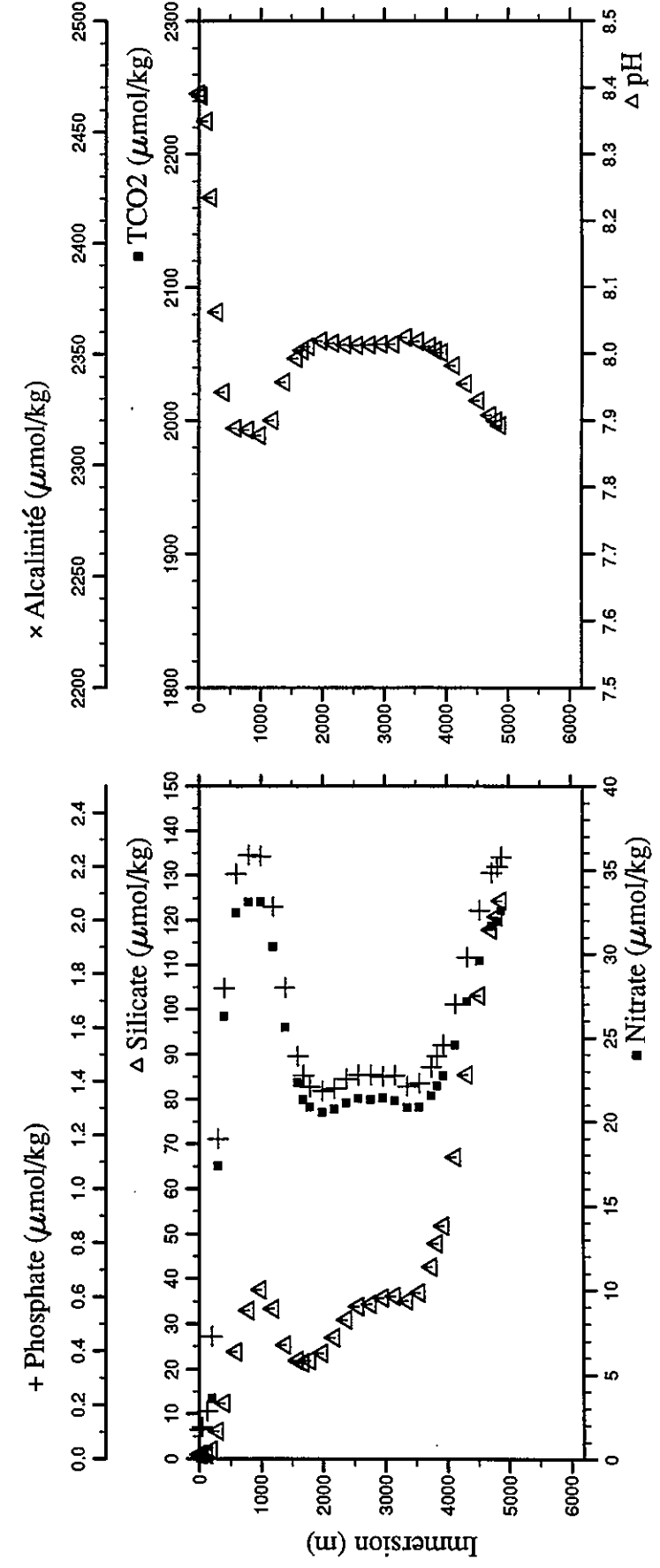
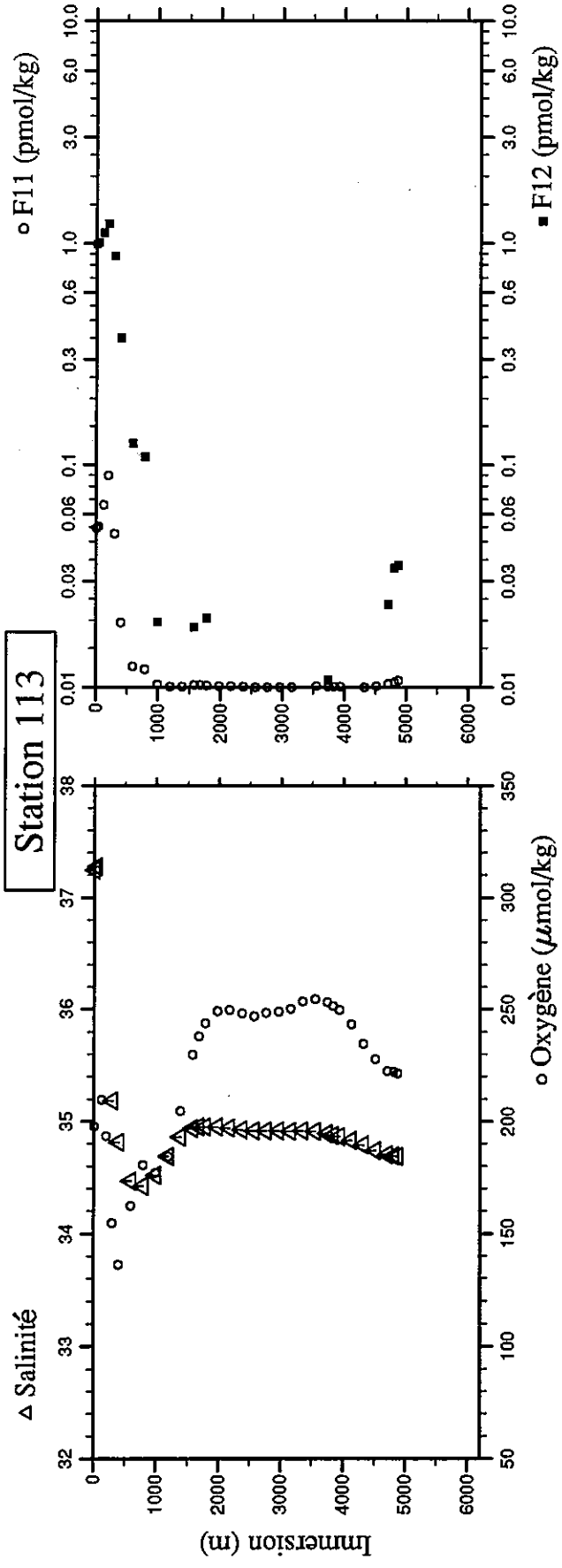
# Station 112



Station : 113 Campagne : CITHER 2  
 Date : 09-02-94 Heure : 22 h 20 mn  
 Position : S 14 25.35 W 30 38.45  
 Dernier niveau à : 4960  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- um/kg	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.0	5.0	27.718	24.1964	37.247	197.8	0.04	0.108	0.9	1.6672	0.9928			8.391
42.2	42.0	27.480	24.4574	37.276	199.9	0.04	0.117	0.9	1.6872	1.0123			8.388
126.7	125.9	23.881	25.7373	37.050	209.7	0.04	0.176	1.0	1.9110	1.1189			8.350
200.0	198.7	17.790	26.8958	35.962	193.4	3.58	0.455	2.0	2.2179	1.2253			8.235
299.6	297.6	12.849	27.8958	35.183	154.8	17.36	1.185	6.2	1.6087	0.8770			8.063
402.0	399.3	9.464	28.7048	34.812	136.2	26.26	1.746	12.4	0.6765	0.3765			7.943
601.7	597.3	5.549	29.9457	34.468	162.3	32.44	2.172	23.8	0.2218	0.1252			7.889
800.2	794.0	4.177	30.9924	34.422	180.4	33.08	2.243	33.0	0.1944	0.1086			7.886
1001.4	993.2	3.749	32.0420	34.518	176.9	33.11	2.239	37.6	0.0328	0.0196			7.878
1203.2	1192.7	3.861	33.0785	34.686	184.3	30.45	2.052	33.4	0.0060	0.0029			7.901
1399.2	1386.4	4.004	34.0769	34.859	204.6	25.64	1.748	25.4	0.0094	0.0078			7.958
1600.0	1584.6	3.834	35.0640	34.934	229.8	22.35	1.494	21.9	0.0273	0.0186			7.994
1700.6	1683.8	3.674	35.5497	34.949	237.9	21.33	1.423	21.4	0.0276	0.0098			8.006
1800.4	1782.2	3.505	36.0248	34.953	243.7	20.89	1.381	21.9	0.0225	0.0205			8.012
2001.8	1980.7	3.241	36.9630	34.953	249.0	20.53	1.365	23.6	0.0116	0.0098			8.020
2197.4	2173.2	3.001	37.8627	34.943	249.5	20.75	1.374	27.0	0.0120	0.0098			8.017
2399.1	2371.6	2.784	38.7809	34.927	248.1	21.13	1.410	30.9	0.0050	0.0039			8.014
2599.2	2568.2	2.647	39.6817	34.918	246.8	21.39	1.425	33.9	0.0032	0.0010			8.013
2798.1	2763.4	2.567	40.5701	34.918	248.4	21.32	1.425	34.4	0.0025	0.0059			8.014
3001.6	2963.0	2.470	41.4767	34.915	248.7	21.42	1.418	35.8	0.0025	0.0039			8.015
3199.1	3156.6	2.395	42.3511	34.912	250.1	21.26	1.423	36.2	0.0022	0.0059			8.015
3400.1	3353.3	2.321	43.2391	34.916	253.3	20.86	1.382	35.1					8.025
3601.7	3550.5	2.196	44.1297	34.911	254.4	20.87	1.393	36.9	0.0114	0.0068			8.019
3797.9	3742.3	2.008	44.9980	34.889	253.1	21.55	1.454	42.6	0.0079	0.0108			8.012
3897.1	3839.1	1.868	45.4390	34.875	251.3	22.15	1.494	47.8	0.0060	0.0088			8.006
4000.4	3940.0	1.764	45.8964	34.864	249.6	22.74	1.536	51.8	0.0053	0.0059			8.002
4197.0	4131.8	1.435	46.7741	34.831	243.1	24.59	1.687	67.0	-0.0004	0.0039			7.983
4396.8	4326.5	1.038	47.6713	34.786	234.6	27.14	1.864	85.5	0.0036	0.0039			7.956
4597.6	4522.1	0.609	48.5749	34.740	227.6	29.61	2.037	103.2	0.0150	0.0068			7.930
4798.4	4717.4	0.200	49.4817	34.703	222.4	31.66	2.176	117.9	0.0400	0.0235			7.908
4899.3	4815.6	0.116	49.9194	34.693	222.2	31.94	2.199	120.8	0.0537	0.0342			7.900
4960.7	4875.2	0.010	50.1928	34.686	221.3	32.59	2.237	124.4	0.0727	0.0352			7.893

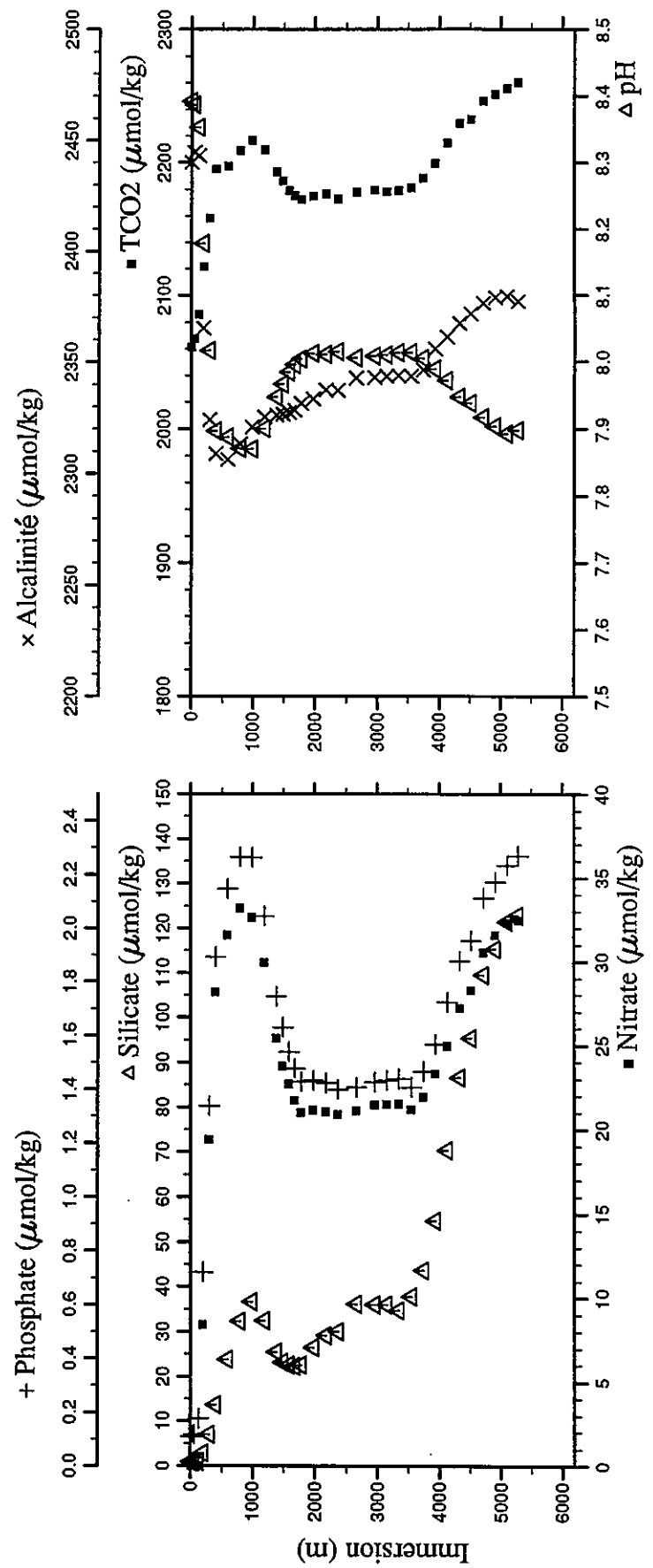
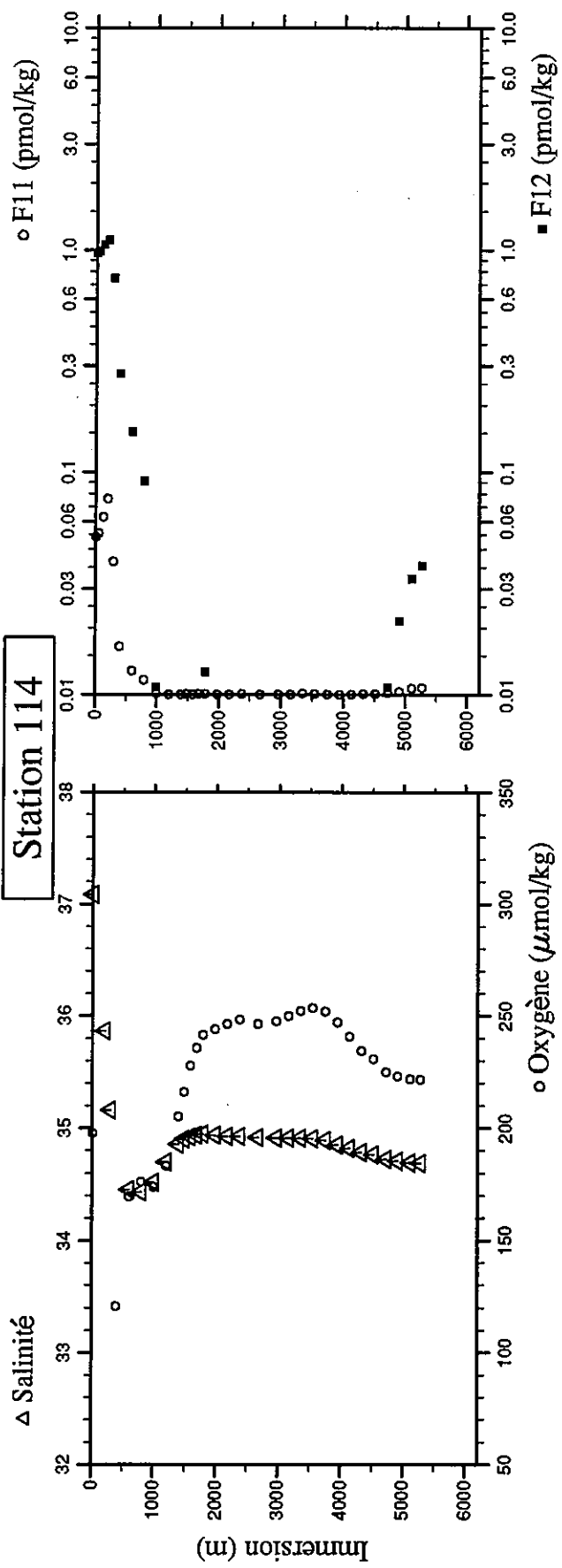
**Station 113**



Station : 114 Campagne : CITHER 2  
 Date : 10-02-94 Heure : 4 h 26 mn  
 Position : S 13 55.86 W 30 36.78  
 Dernier niveau à : 5383  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.6	4.6	27.667	24.0940	37.088	197.6	0.04	0.108	0.9	1.6550	0.9714	2061.08	2439.9	8.392
51.5	51.2	27.376	24.4246	37.152	200.6	0.04	0.117	0.8	1.6911	0.9870	2067.45	2444.5	8.387
126.6	125.8	24.314	25.6826	37.089	210.0	0.00	0.176	0.9	1.8650	1.0563	2085.86	2443.1	8.353
201.9	200.6	17.290	26.9919	35.869	172.3	8.41	0.722	2.8	2.0544	1.1091	2121.87	2365.3	8.179
299.0	297.1	12.440	27.9517	35.161	139.6	19.40	1.338	7.1	1.3951	0.7450	2158.19	2324.1	8.018
400.6	397.9	9.137	28.7532	34.794	120.6	28.16	1.893	13.7	0.5037	0.2768	2194.95	2308.8	7.897
601.2	596.8	5.359	29.9584	34.454	169.5	31.58	2.147	23.8	0.2523	0.1516	2197.26	2306.2	7.888
800.6	794.4	4.221	30.9966	34.430	176.0	33.18	2.266	32.4	0.1563	0.0910	2209.03	2313.0	7.871
1000.4	992.2	3.793	32.0358	34.521	173.7	32.65	2.263	36.7	0.0165	0.0108	2216.79	2320.8	7.870
1201.4	1191.0	3.847	33.0787	34.696	183.1	29.94	2.046	32.5	0.0021	0.0010	2209.50	2325.4	7.901
1401.4	1388.6	3.929	34.0955	34.854	205.1	25.41	1.745	25.5	0.0039	0.0020	2192.99	2326.1	7.948
1499.2	1485.2	3.905	34.5737	34.899	216.1	23.76	1.631	23.2	0.0066	0.0068	2186.13	2326.5	7.968
1600.4	1585.0	3.744	35.0696	34.922	227.6	22.71	1.539	22.6	0.0048	0.0068	2178.85	2327.3	7.985
1698.5	1681.8	3.594	35.5436	34.937	235.7	21.74	1.477	22.3	0.0056	0.0098	2174.97	2328.4	7.996
1798.8	1780.7	3.450	36.0186	34.946	241.5	21.03	1.429	22.6	0.0066	0.0127	2172.27	2331.4	8.005
2000.3	1979.2	3.113	36.9621	34.935	244.1	21.15	1.432	26.5	0.0033	-0.0020	2174.54	2333.5	8.013
2199.6	2175.4	2.906	37.8774	34.928	246.3	21.06	1.424	29.2	0.0043	0.0029	2176.47	2337.4	8.012
2400.3	2372.8	2.774	38.7897	34.928	248.4	20.89	1.400	30.0	0.0058	0.0049	2172.79	2337.2	8.016
2699.4	2666.6	2.585	40.1319	34.917	246.3	21.13	1.407	36.1	0.0015	0.0049	2177.90	2342.7	8.007
2998.6	2960.1	2.452	41.4662	34.911	247.5	21.46	1.426	36.0	0.0016	-0.0039	2179.56	2343.2	8.009
3200.1	3157.6	2.382	42.3575	34.913	249.8	21.50	1.432	36.0	0.0016	0.0000	2177.94	2343.6	8.011
3398.0	3351.3	2.286	43.2344	34.912	253.1	21.53	1.439	34.8	0.0158	0.0098	2179.02	2343.8	8.014
3597.9	3546.9	2.152	44.1179	34.905	253.4	21.19	1.407	37.8	0.0089	0.0039	2181.23	2343.5	8.014
3798.4	3742.8	1.966	45.0052	34.889	251.8	21.94	1.468	43.7	0.0048	0.0059	2188.21	2346.5	8.006
3996.6	3936.4	1.700	45.8868	34.852	247.1	23.31	1.567	54.7	0.0040	0.0039	2199.26	2355.7	7.990
4196.5	4131.4	1.329	46.7827	34.820	240.7	24.94	1.723	70.3	0.0036	-0.0010	2214.75	2361.1	7.973
4399.6	4329.3	0.987	47.6905	34.783	234.2	27.21	1.878	86.6	0.0073	0.0068	2229.35	2367.3	7.948
4596.8	4521.4	0.787	48.5537	34.761	230.7	28.28	1.955	95.4	0.0067	0.0078	2232.18	2371.6	7.939
4799.9	4719.0	0.407	49.4619	34.724	224.9	30.55	2.114	109.5	0.0227	0.0108	2246.32	2376.5	7.918
4997.5	4911.1	0.233	50.3221	34.707	223.1	31.58	2.172	115.3	0.0327	0.0215	2251.22	2379.0	7.904
5199.0	5106.8	0.048	51.1977	34.690	221.8	32.29	2.231	121.5	0.0670	0.0333	2255.66	2379.4	7.893
5376.1	5278.7	0.027	51.9467	34.687	221.6	32.49	2.269	122.9	0.0736	0.0381	2260.18	2377.1	7.898

# Station 114

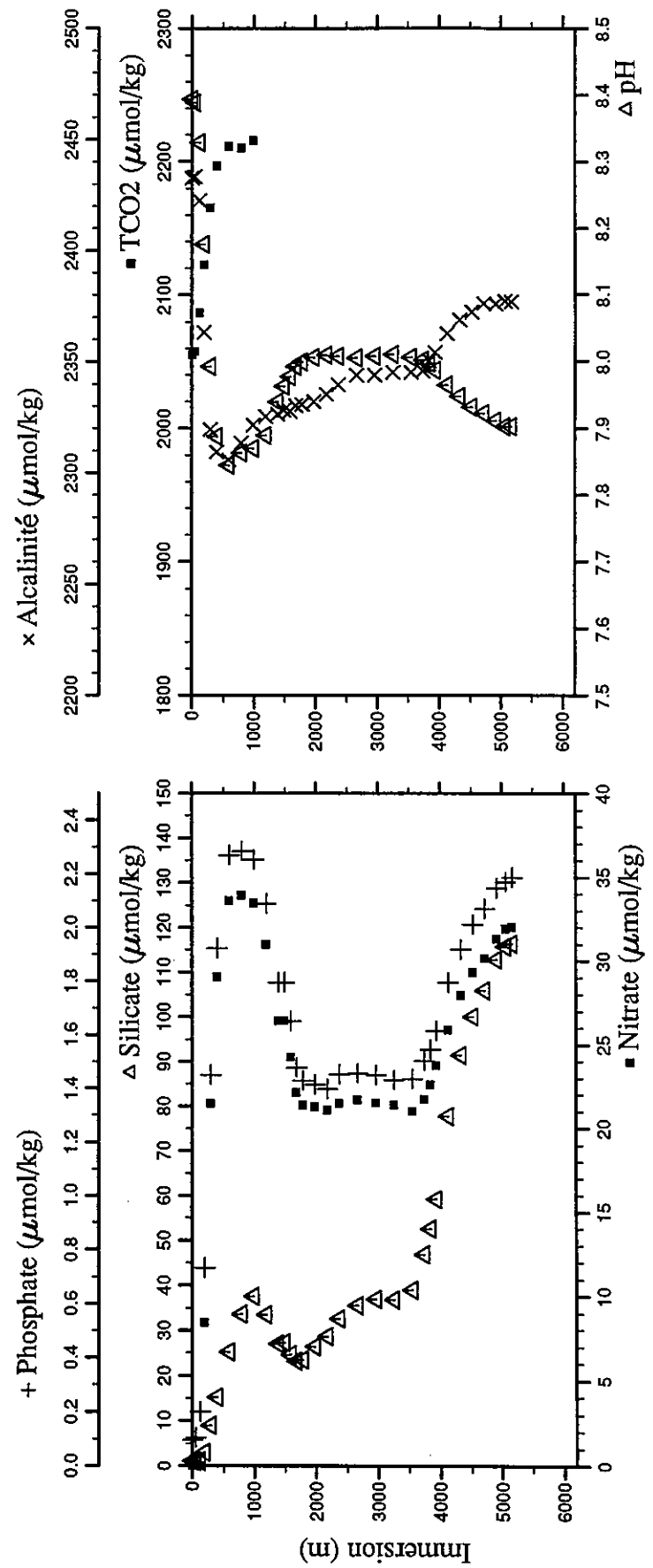
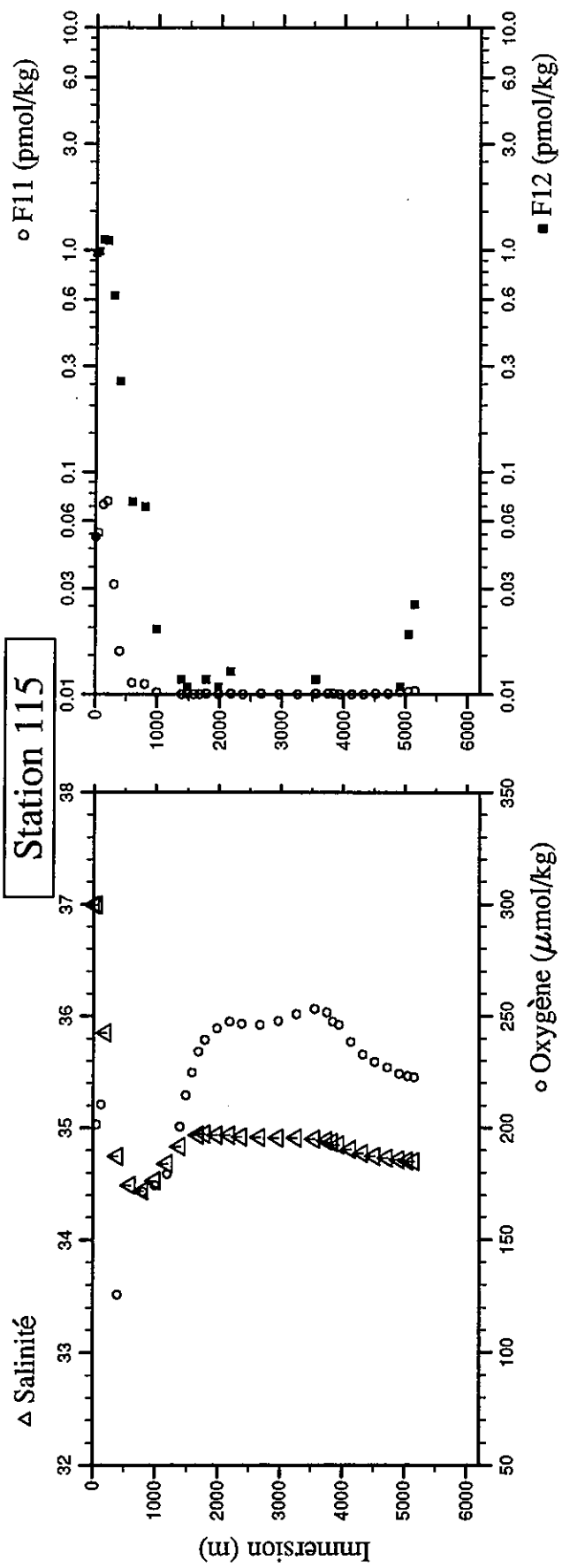




Station : 115 Campagne : CITHER 2  
 Date : 10-02-94 Heure : 10 h 29 mn  
 Position : S 13 26.36 W 30 35.16  
 Dernier niveau à : 5254  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.2	5.2	27.903	23.9473	36.993	197.2	r	0.096	1.1	1.6491	0.9695	2055.15	2432.6	8.394
50.8	50.5	27.429	24.2971	36.996	201.4		0.105	1.0	1.6919	0.9861	2057.80	2433.2	8.389
126.7	125.9	23.074	25.7876	36.751	r	0.00	0.200	1.0	1.9899	1.1142	2086.73	2422.4	8.329
201.6	200.3	17.051	27.0333	35.849	170.7	r	0.731	3.0	2.0240	1.1032	2122.73	2363.2	8.176
301.7	299.7	11.457	28.0653	35.044	r	8.48	1.450	9.0	1.1555	0.6248	2165.40	2319.5	7.993
400.7	398.0	8.542	28.8027	34.750	125.7	r	1.923	15.2	0.4548	0.2572	2196.71	2309.3	7.888
601.0	596.7	5.558	29.9585	34.490	144.9	r	2.269	25.2	0.1181	0.0734	2211.55	2305.7	7.845
801.2	795.0	4.233	31.0064	34.439	171.5	r	2.285	33.6	0.1100	0.0695	2210.45	2313.3	7.863
1001.7	993.5	3.800	32.0496	34.528	174.3	r	2.254	37.5	0.0217	0.0196	2215.67	2321.5	7.870
1200.7	1190.3	3.839	33.0660	34.680	179.3	r	2.090	33.5	-0.0022	0.0068	2325.3	2325.3	7.890
1400.4	1387.6	3.927	34.0750	34.833	200.4	r	1.796	27.0	0.0041	0.0117	2326.2	2326.2	7.940
1496.6	1482.6	3.907	34.5547	34.834	214.6	r	1.796	27.3	0.0061	0.0108	2328.0	2328.0	7.963
1600.8	1585.5	3.750	35.0564	34.889	224.6	r	1.652	24.6	0.0005	0.0068	2327.5	2327.5	7.978
1701.4	1684.7	3.625	35.5505	34.936	234.0	r	1.477	23.2	0.0047	0.0098	2330.1	2330.1	7.993
1800.5	1782.4	3.495	36.0210	34.945	239.4	r	1.429	23.4	0.0086	0.0117	2330.7	2330.7	8.000
2000.5	1979.5	3.213	36.9505	34.935	247.5	r	1.398	26.3	0.0028	0.0108	2332.0	2332.0	8.007
2202.2	2178.0	2.979	37.8823	34.922	246.6	r	1.452	28.6	0.0070	0.0127	2335.1	2335.1	8.010
2401.4	2373.9	2.769	38.7900	34.911	247.8	r	1.456	32.6	0.0049	0.0088	2339.6	2339.6	8.008
2598.8	2666.1	2.592	40.1256	34.915	246.0	r	1.456	35.5	0.0053	0.0068	2343.9	2343.9	8.006
2999.8	2961.4	2.460	41.4681	34.911	247.8	r	1.449	36.9	0.0042	0.0068	2343.8	2343.8	8.008
3299.4	3254.9	2.343	42.7963	34.909	250.8	r	1.431	36.8	0.0026	0.0068	2345.2	2345.2	8.011
3600.2	3549.2	2.146	44.1267	34.902	253.2	r	1.436	39.0	0.0079	0.0117	2345.2	2345.2	8.007
3800.4	3744.9	1.939	45.0152	34.884	251.7	r	1.502	46.8	0.0051	0.0098	2345.6	2345.6	8.002
3900.1	3842.2	1.780	45.4621	34.868	247.6	r	1.546	52.5	0.0067	0.0059	2350.2	2350.2	7.997
3998.7	3938.5	1.614	45.9018	34.848	246.1	r	1.616	59.1	0.0049	0.0098	2353.9	2353.9	7.987
4199.4	4134.3	1.222	46.8056	34.809	238.4	r	1.796	77.7	0.0038	0.0098	2362.3	2362.3	7.965
4399.2	4329.0	0.902	47.6969	34.773	232.8	r	1.918	91.4	0.0013	0.0049	2368.6	2368.6	7.948
4598.1	4522.7	0.683	48.5708	34.749	229.6	r	2.012	100.1	0.0050	0.0059	2372.1	2372.1	7.932
4800.1	4719.3	0.529	49.4489	34.735	226.9	r	2.071	106.0	0.0073	0.0078	2375.8	2375.8	7.923
4998.0	4911.7	0.337	50.3101	34.716	224.2	r	2.147	112.8	0.0279	0.0108	2375.6	2375.6	7.912
5148.9	5058.3	0.255	50.9590	34.707	223.2	r	2.171	115.7	0.0318	0.0186	2376.9	2376.9	7.903
5253.4	5159.8	0.208	51.4059	34.702	222.5	r	2.188	116.4	0.0372	0.0254	2376.6	2376.6	7.903

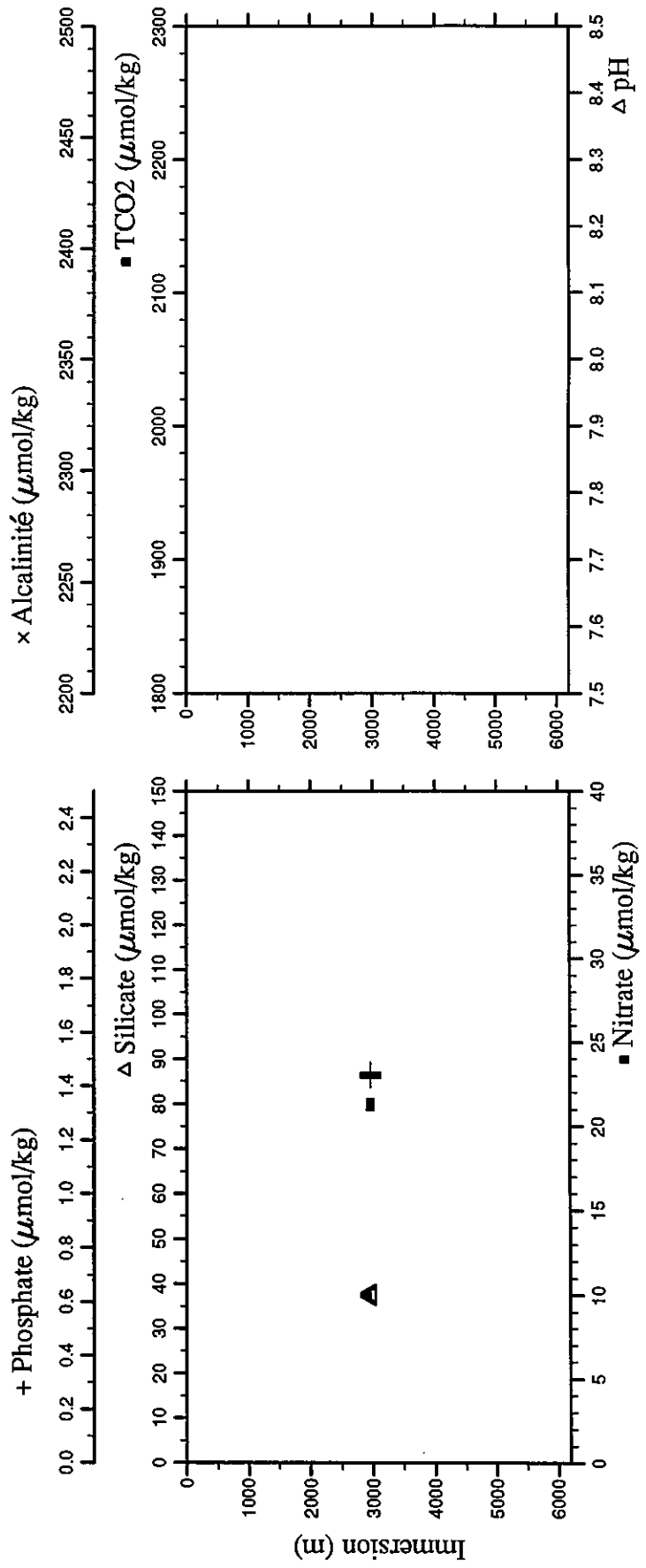
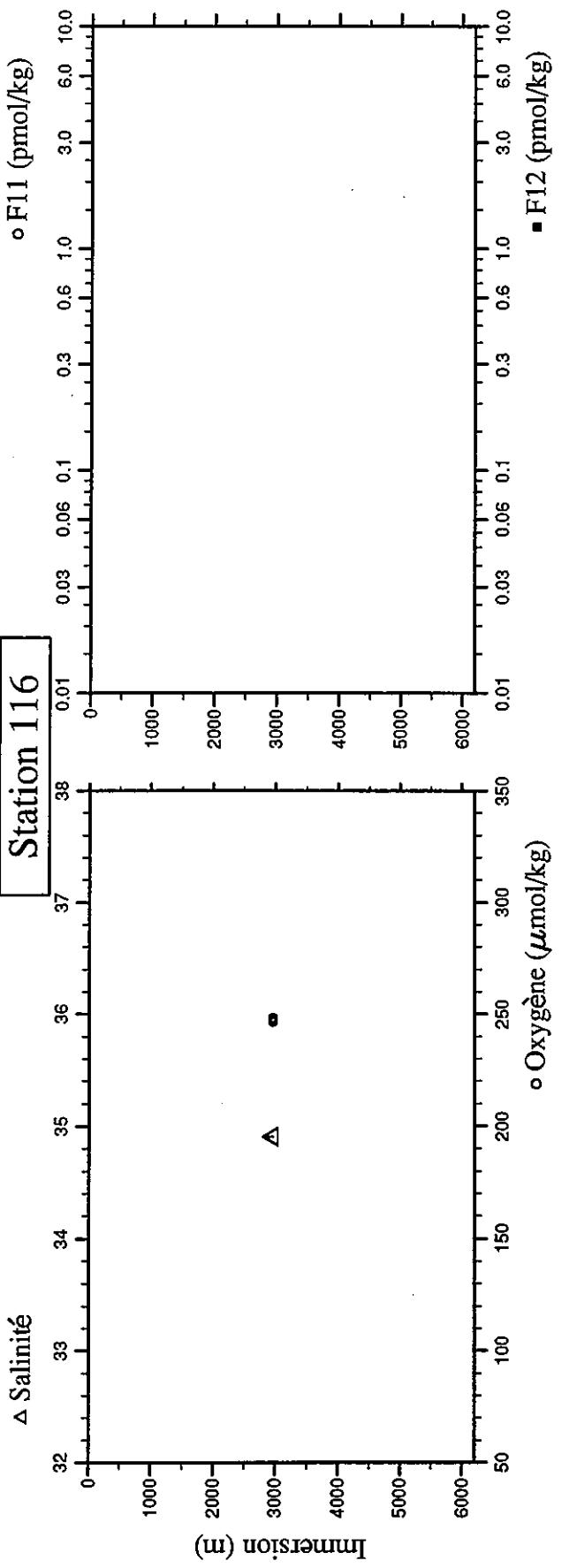
**Station 115**



Station : 116 Campagne : CIPIHER 2  
 Date : 10-02-94 Heure : 18 h 40 mn  
 Position : S 13 26.38 W 30 35.15  
 Dernier niveau à : 3000  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
2998.8	2960.4	2.448	41.4654	34.909	246.9	21.27	1.437	37.9					
2999.0	2960.6	2.448	41.4653	34.908	246.9	21.27	1.431	37.7					
2999.2	2960.8	2.448	41.4670	34.910	248.4	21.15	1.429	37.8					
2999.2	2960.8	2.449	41.4660	34.910	247.0	21.35	1.435	37.5					
2999.3	2960.9	2.448	41.4674	34.909	246.6	21.31	1.430	37.7					
2999.3	2960.9	2.448	41.4665	34.911	246.7	21.18	1.449	37.3					
2999.5	2961.1	2.448	41.4682	34.910	246.6	21.27	1.435	37.6					
2999.6	2961.2	2.448	41.4687	34.908	246.8	21.27	1.432	37.7					
2999.6	2961.2	2.448	41.4687	34.910	247.0	21.27	1.433	37.7					
2999.6	2961.2	2.448	41.4687	34.909	246.9	21.18	1.440	37.2					
2999.7	2961.3	2.448	41.4691	34.908	246.9	21.33	1.431	37.4					
2999.8	2961.4	2.448	41.4695	34.911	247.2	21.19	1.441	37.6					
3000.3	2961.9	2.447	41.4715	34.911	246.9	21.31	1.443	37.4					
3000.4	2962.0	2.449	41.4709	34.908	247.1	21.18	1.443	37.4					
3000.4	2962.0	2.448	41.4710	34.908	247.2	21.18	1.447	37.5					
3000.5	2962.1	2.447	41.4724	34.909	247.0	21.31	1.438	37.5					
3000.5	2962.1	2.448	41.4723	34.910	246.9	21.18	1.448	37.3					
3000.6	2962.2	2.448	41.4718	34.908	246.9	21.17	1.445	37.8					
3000.7	2962.3	2.447	41.4732	34.907	246.7	21.27	1.431	37.7					
3000.8	2962.4	2.447	41.4736	34.909	246.8	21.31	1.437	37.6					
3000.9	2962.5	2.448	41.4739	34.909	246.7	21.15	1.446	37.8					
3001.0	2962.6	2.447	41.4744	34.907	246.9	21.18	1.447	37.2					
3001.0	2962.6	2.447	41.4753	34.910	246.7	21.27	1.435	37.5					
3001.0	2962.6	2.448	41.4743	34.908	246.9	21.27	1.448	37.6					
3001.1	2962.7	2.448	41.4747	34.910	247.0	21.27	1.437	37.7					
3001.2	2962.8	2.447	41.4752	34.904	247.1	21.18	1.442	37.5					
3001.3	2962.9	2.447	41.4756	34.910	246.8	21.24	1.430	37.4					
3001.3	2962.9	2.447	41.4756	34.911	246.7	21.18	1.433	37.7					
3001.4	2963.0	2.447	41.4760	34.909	247.3	21.43	1.429	37.8					
3001.6	2963.1	2.447	41.4777	34.909	247.2	21.35	1.435	37.5					
3001.7	2963.2	2.447	41.4781	34.910	246.5	21.27	1.436	37.7					

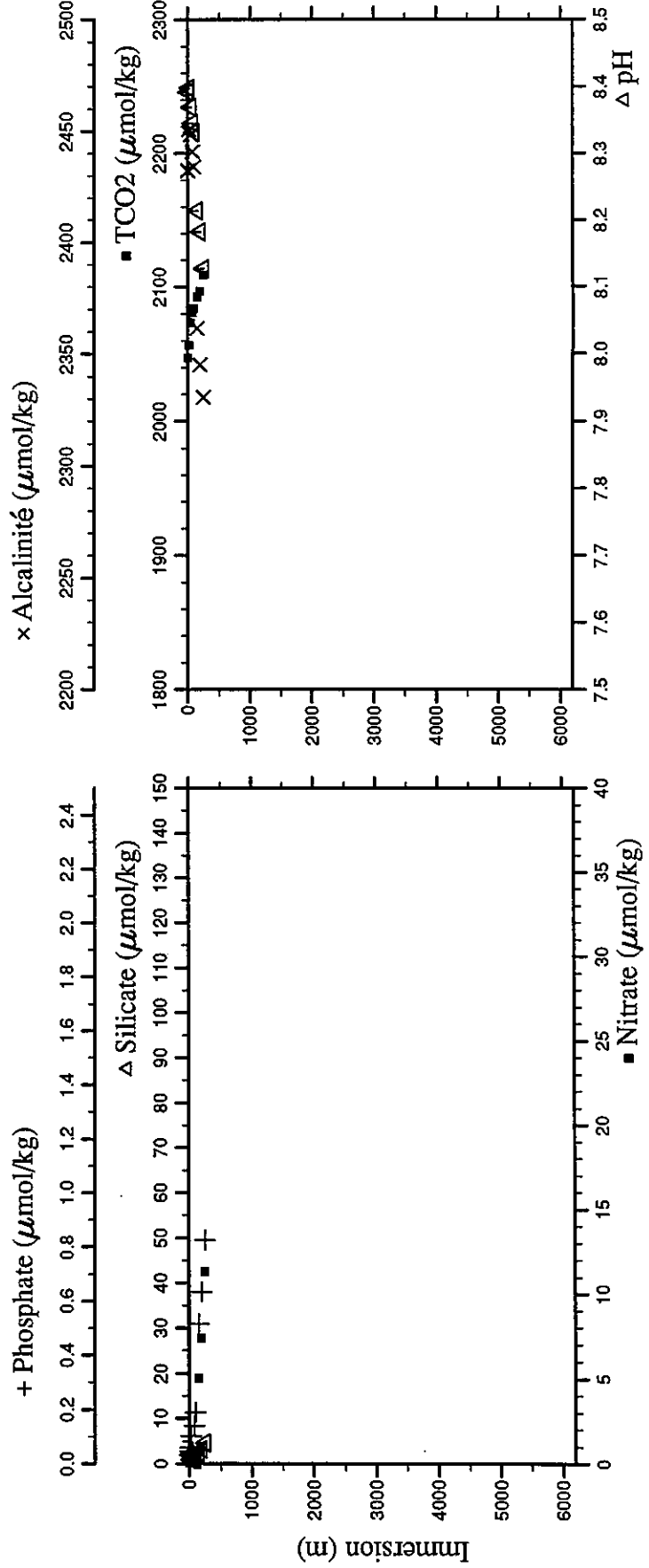
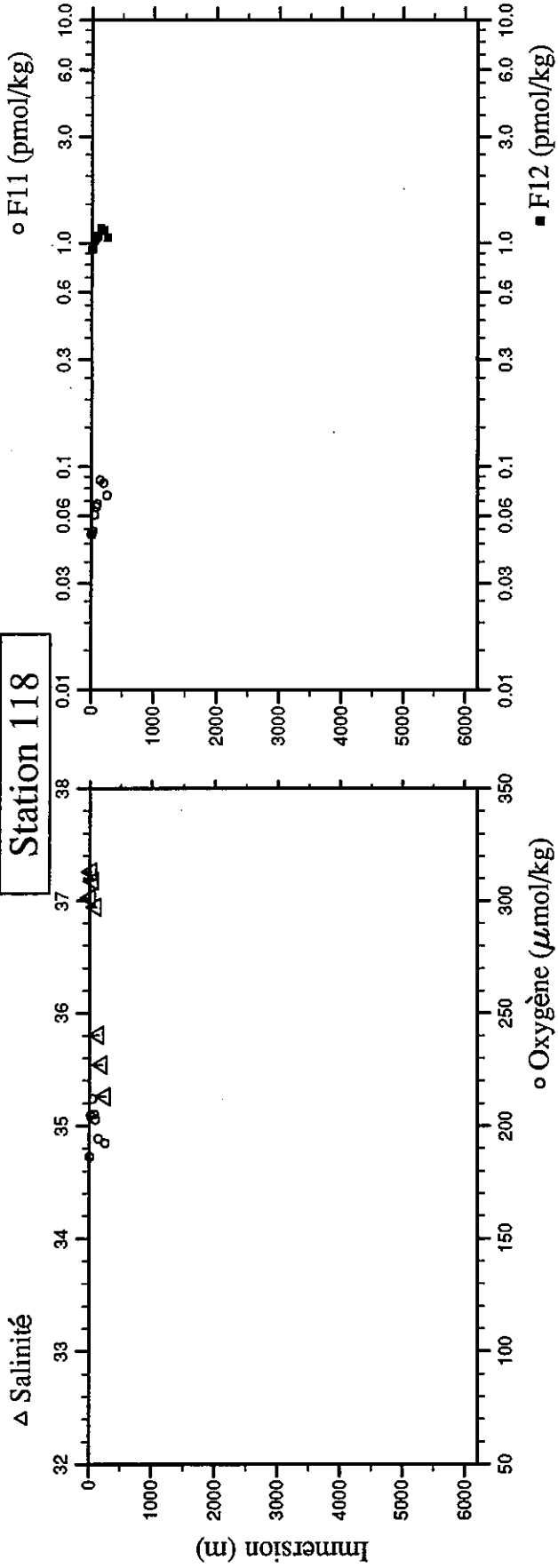
# Station 116



Station : 118 Campagne : CITHER 2  
 Date : 17-02-94 Heure : 23 h 24 mn  
 Position : S 12 21.89 W 37 37.95  
 Dernier niveau à : 261  
 Nb prélèvements : 9

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.2	5.2	28.427	23.7976	37.026	186.2	0.04	0.061	2.0	1.6203	0.9363	2432.3	2432.3	8.392
5.5	5.5	28.430	23.7976	37.022	196.8	0.04	0.046	2.0	1.6282	0.9392	2047.05	2432.1	8.392
25.9	25.7	28.381	24.0797	37.262	204.6	0.04	0.102	1.0	1.6549	0.9469	2056.34	2450.5	8.398
50.9	50.6	25.447	25.0694	37.178	211.9	0.04	0.044	1.3	1.8289	1.0250	2073.62	2448.4	8.369
76.8	76.3	24.223	25.4662	37.049	205.2	0.04	0.141	1.0	1.9107	1.0583	2080.61	2440.6	8.346
101.2	100.6	23.430	25.7199	36.946	202.8	0.12	0.189	1.1	1.9423	1.0799	2084.01	2433.9	8.332
150.6	149.7	17.039	26.7795	35.803	194.5	5.06	0.515	2.5	2.1921	1.1639	2092.42	2361.4	8.214
202.4	201.1	15.453	27.1758	35.543	199.4	7.40	0.635	3.2	2.1624	1.1406	2096.84	2345.0	8.183
253.4	251.8	13.506	27.6100	35.259	192.3	11.36	0.824	4.6	2.0317	1.0597	2109.03	2330.6	8.128

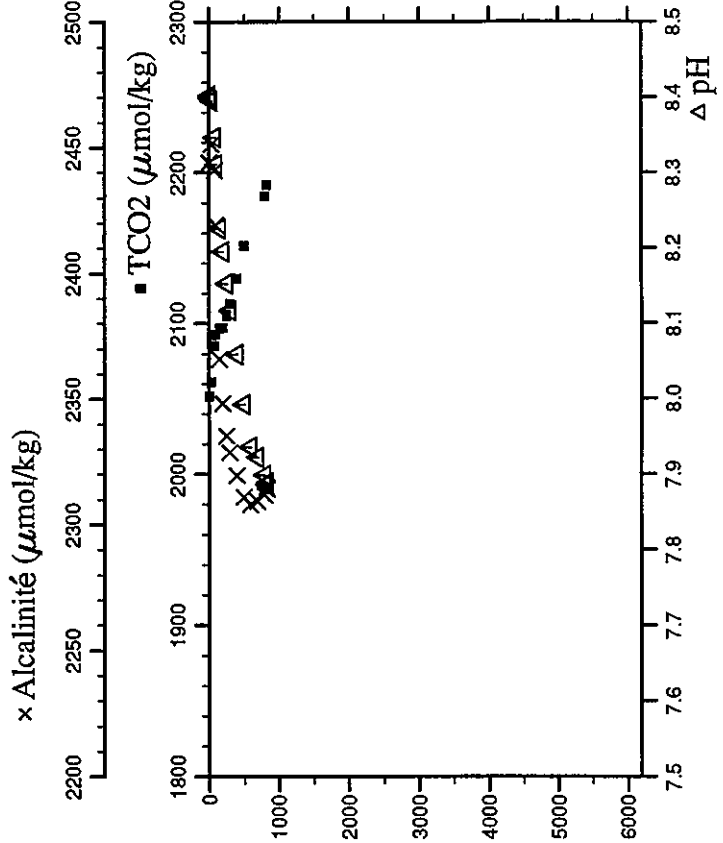
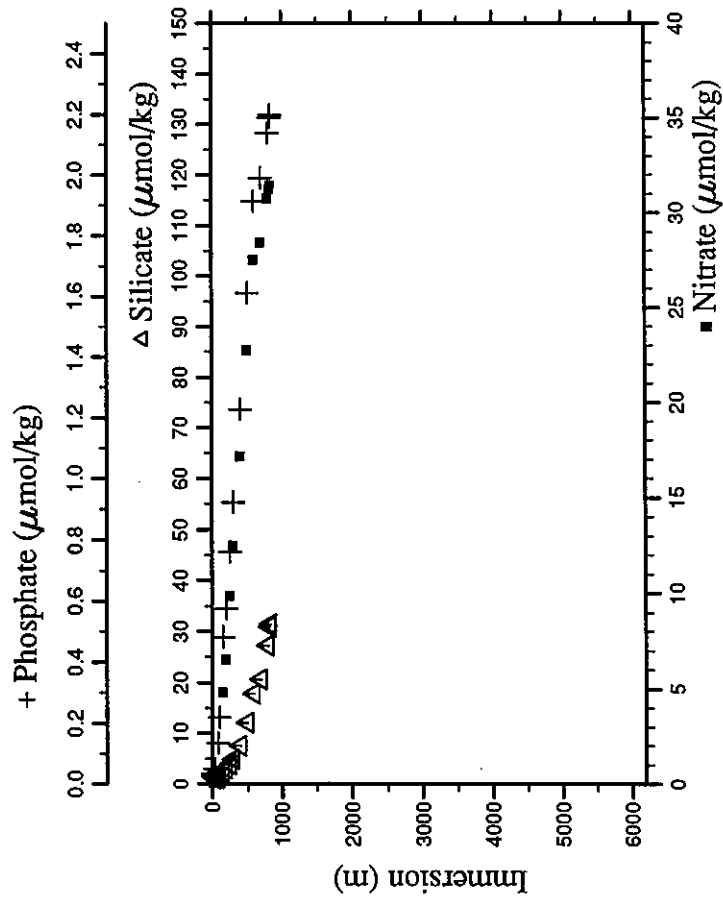
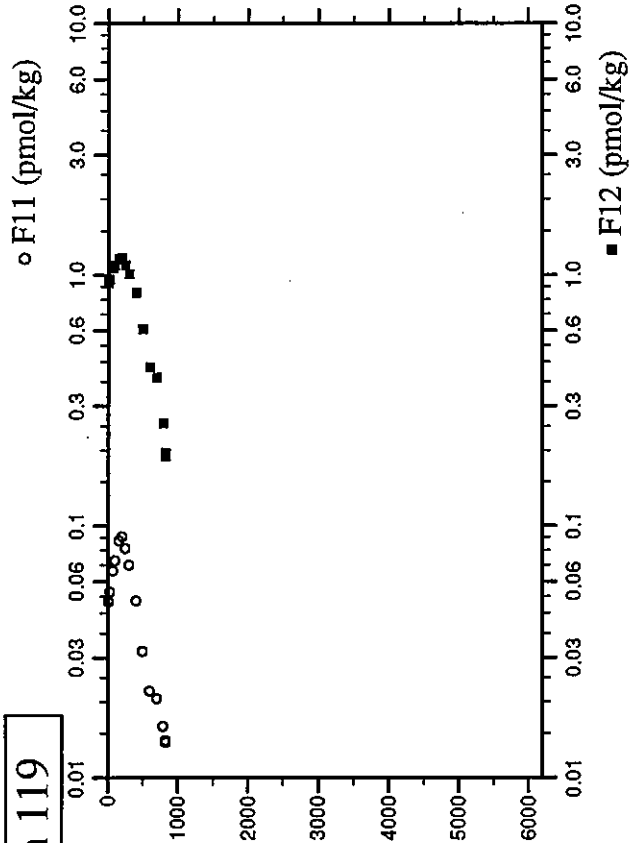
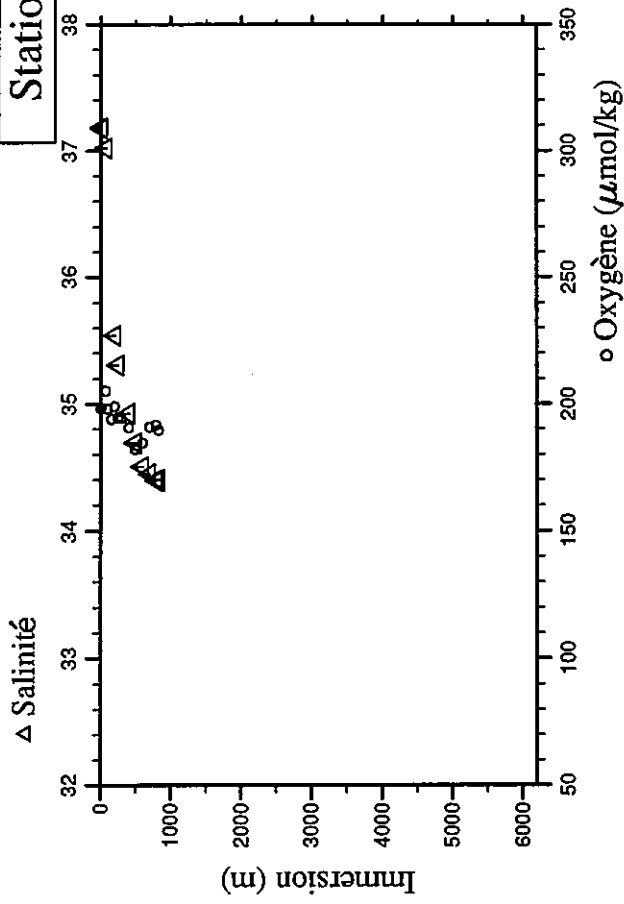
Station 118



Station : 119 Campagne : CITHER 2  
 Date : 18-02-94 Heure : 1 h 54 mn  
 Position : S 12 23.18 W 37 35.78  
 Dernier niveau à : 972  
 Nb prélèvements : 16

PRESSION CHIMIE	IMMERSION SONDE	TEMP. POT. deg.cels.	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE um/kg	PHOSPHATE um/kg	SILICATE um/kg	F11 pmol/kg	F12 pmol/kg	CARBONE INORG.TOT. um/kg	ALCALI- NITE um/kg	pH
3.6	3.6	28.446	23.9040	37.182	198.5	0.04	0.035	1.6	1.6413	0.9342	2052.03	2443.8	8.399
3.8	3.8	28.447	23.9050	37.180	197.9	0.04	0.035	1.6	1.6301	0.9284		2444.1	8.402
29.3	29.1	28.202	24.2357	37.249	208.7	0.04	0.050	1.1	1.7244	0.9634	2061.28	2451.2	8.396
75.8	75.4	23.559	25.6230	37.022	205.0	0.04	0.135	1.1	1.9191	1.0652	2085.48	2440.8	8.347
100.8	100.2	21.878	25.9592	36.712	198.0	0.54	0.219	1.3	2.0156	1.0928	2092.70	2419.2	8.311
151.5	150.6	17.247	26.7621	35.828	193.8	4.80	0.481	2.5	2.1993	1.1628	2096.76	2365.7	8.226
201.4	200.1	15.587	27.1444	35.540	198.9	6.55	0.574	3.0	2.2307	1.1680	2097.09	2348.1	8.196
252.6	251.0	13.999	27.5388	35.309	194.4	9.85	0.761	3.9	2.1249	1.0958	2105.14	2335.2	8.153
302.1	300.1	12.747	27.8934	35.160	194.4	12.48	0.923	4.9	1.9737	1.0129	2113.29	2328.5	8.118
402.3	399.6	10.831	28.5442	34.924	190.6	17.15	1.227	7.5	1.6383	0.8546	2129.95	2319.5	8.059
501.1	497.6	8.641	29.1971	34.691	181.9	22.74	1.610	12.1	1.1705	0.6103	2151.26	2310.7	7.993
599.4	595.1	6.575	29.8214	34.506	184.6	27.53	1.913	17.9	0.8013	0.4284		2307.8	7.936
700.0	694.8	5.835	30.3393	34.449	190.8	28.45	1.991	20.7	0.7303	0.3913		2309.0	7.923
799.8	793.7	4.731	30.9023	34.397	191.7	30.74	2.139	27.2	0.4762	0.2563	2184.64	2311.5	7.899
829.5	823.1	4.347	31.0901	34.399	189.6	31.25	2.190	31.0	0.3480	0.1966	2191.76	2314.5	7.886
836.6	830.1	4.283	31.1322	34.400	189.6	31.45	2.198	31.5	0.3307	0.1898		2313.9	7.889

# Station 119

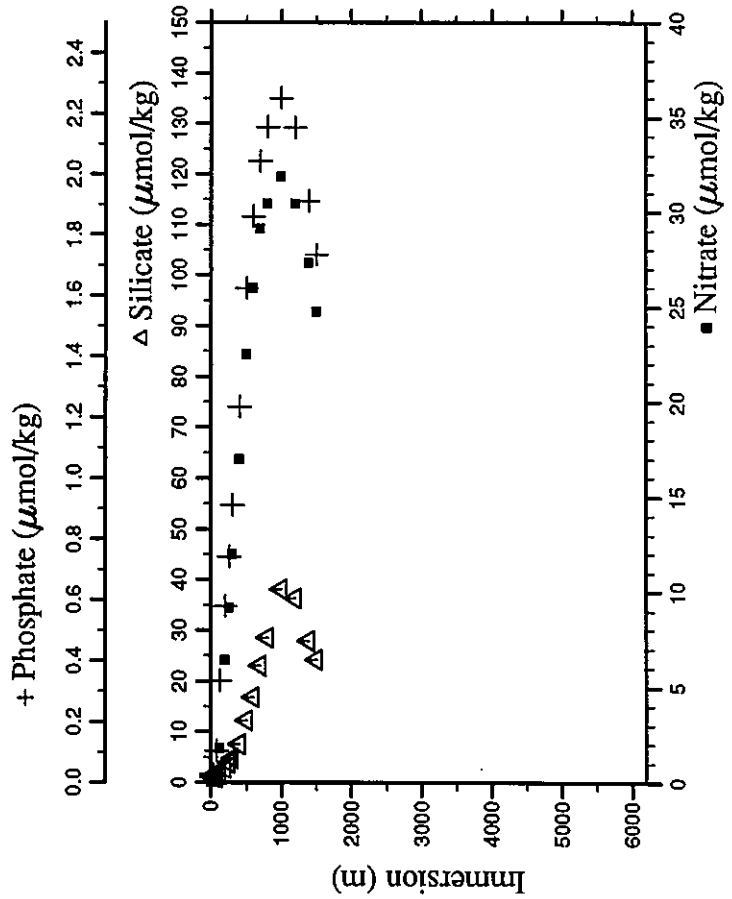
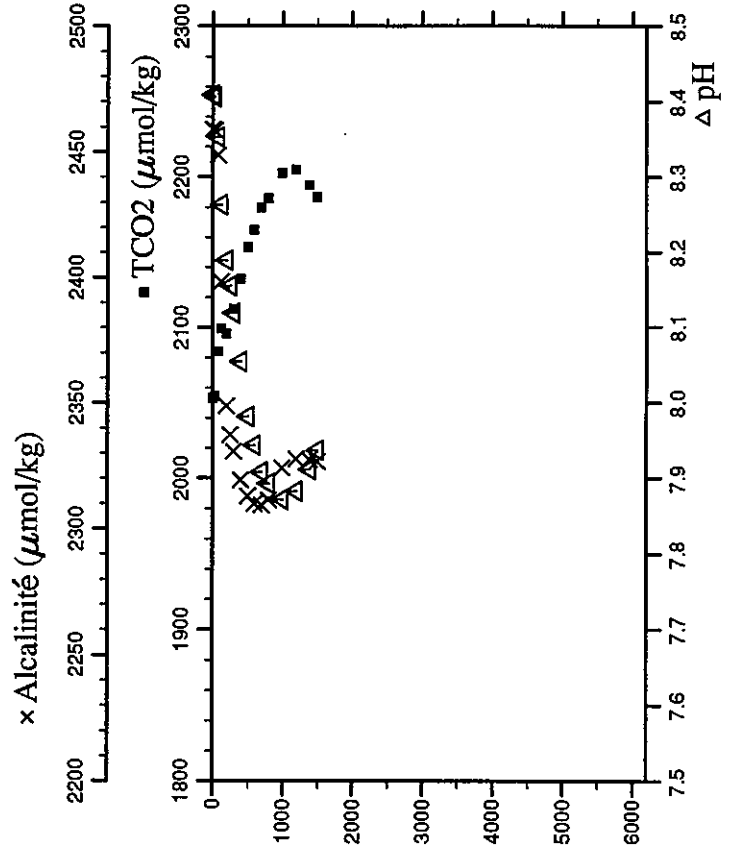
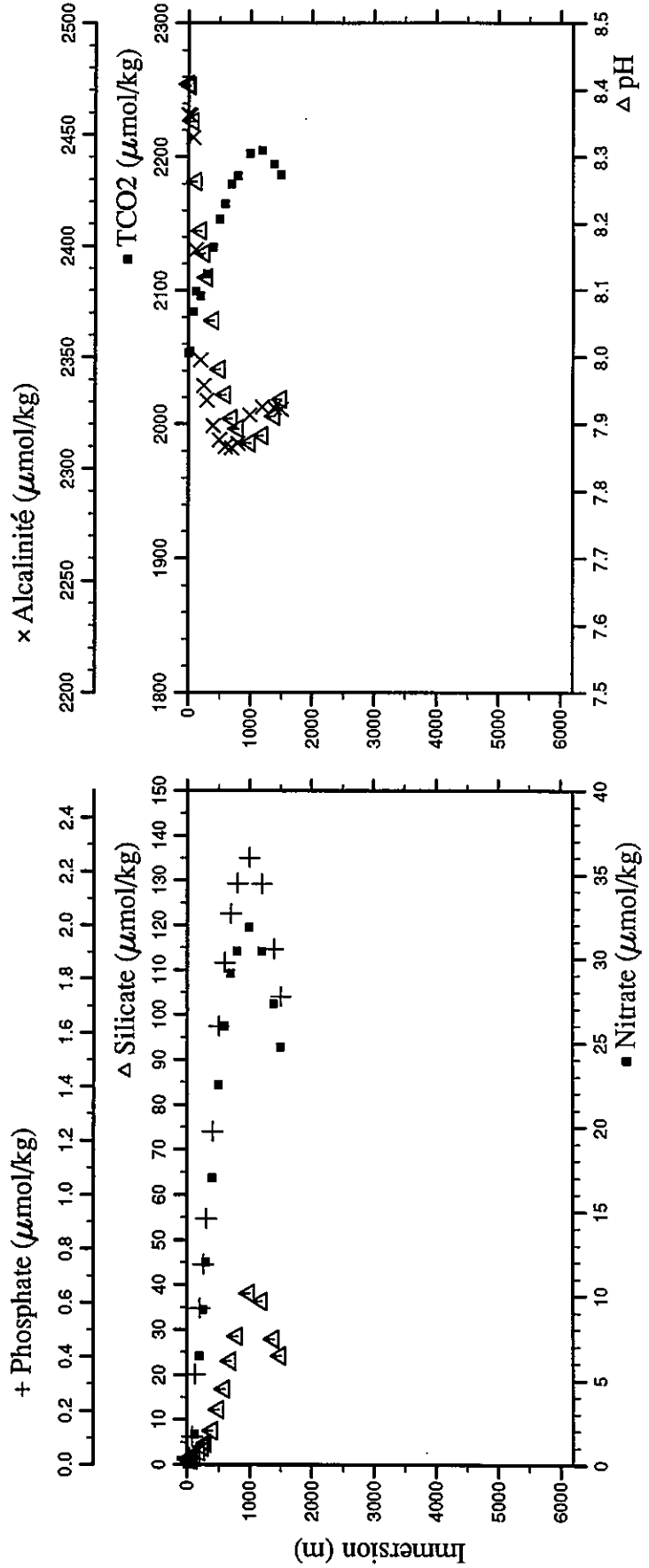
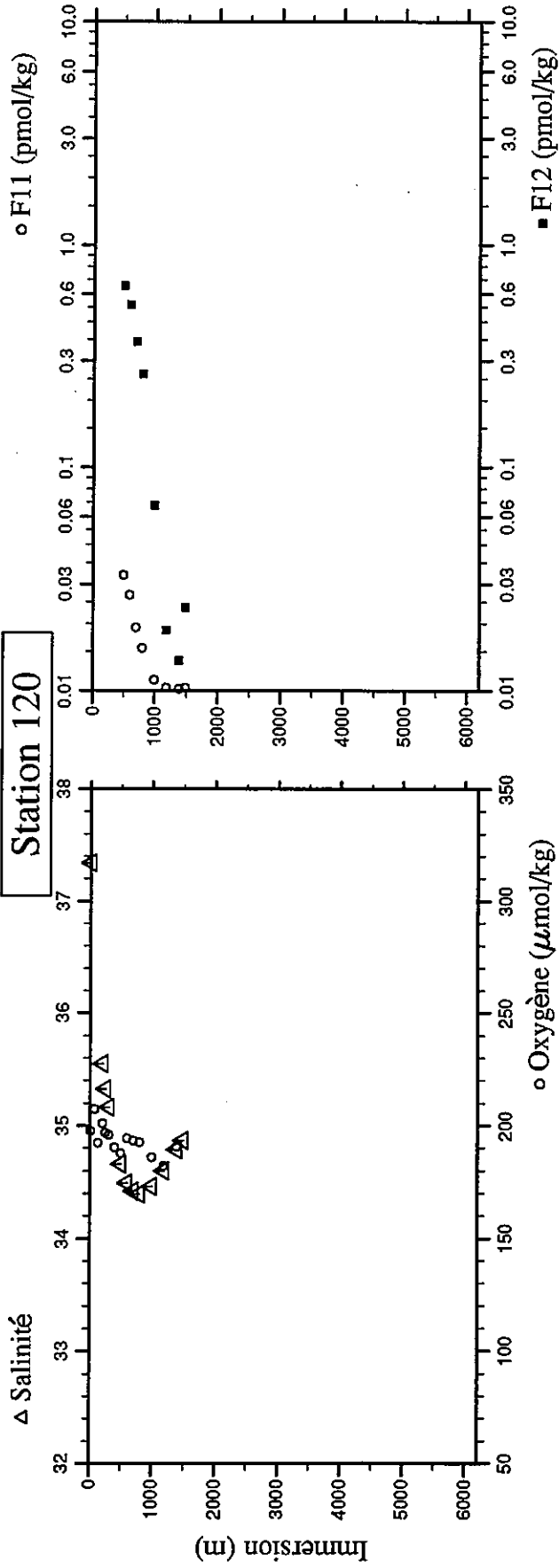




Station : 120 Campagne : CITHER 2  
 Date : 18-02-94 Heure : 4 h 49 mn  
 Position : S 12 24.53 W 37 34.29  
 Dernier niveau à : 1514  
 Nb prélèvements : 16

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
2.5	2.5	28.742	23.9181	37.341	197.8	0.04	0.029	1.2			2053.11	2459.0	8.409
31.1	30.9	28.531	24.1319	37.331	201.1	0.04	0.026	1.2			2054.39	2458.5	8.407
75.6	75.2	24.500	25.4425	37.132	207.4	0.04	0.104	1.1			2083.87	2448.5	8.353
126.6	125.8	20.197	26.2931	36.340	192.3	1.79	0.336	1.6			2099.38	2398.3	8.263
200.7	199.5	15.606	27.1434	35.549	201.1	6.45	0.580	2.9			2096.02	2348.7	8.190
251.7	250.1	14.085	27.5318	35.326	197.0	9.20	0.742	3.8			2089.59	2337.3	8.156
301.2	299.3	12.895	27.8799	35.165	195.9	11.99	0.911	4.8			2112.27	2330.6	8.119
400.2	397.5	10.843	28.5409	34.915	190.3	16.99	1.234	7.5			2132.37	2319.1	8.055
501.7	498.2	8.454	29.2091	34.663	187.9	22.52	1.623	12.2	1.2050	0.6543	2153.70	2312.7	7.982
601.4	597.1	6.634	29.8171	34.496	194.5	26.01	1.861	16.8	1.0003	0.5380	2165.05	2309.7	7.944
700.9	695.7	5.365	30.3858	34.420	193.5	29.11	2.043	23.0	0.6616	0.3658	2179.82	2309.2	7.908
800.9	794.8	4.555	30.9286	34.395	192.6	30.45	2.156	28.5	0.4467	0.2622	2185.75	2311.4	7.893
999.9	991.8	3.717	31.9966	34.465	185.9	31.88	2.251	38.0	0.1124	0.0675	2202.83	2324.0	7.872
1200.4	1190.1	3.777	33.0049	34.602	182.3	30.44	2.153	36.3	0.0332	0.0186	2204.93	2327.5	7.883
1400.5	1387.8	4.102	34.0071	34.789	190.7	27.33	1.912	27.9	0.0193	0.0137	2194.69	2327.2	7.912
1505.8	1491.8	4.164	34.5408	34.868	203.8	24.74	1.734	24.2	0.0300	0.0235	2186.43	2326.6	7.937

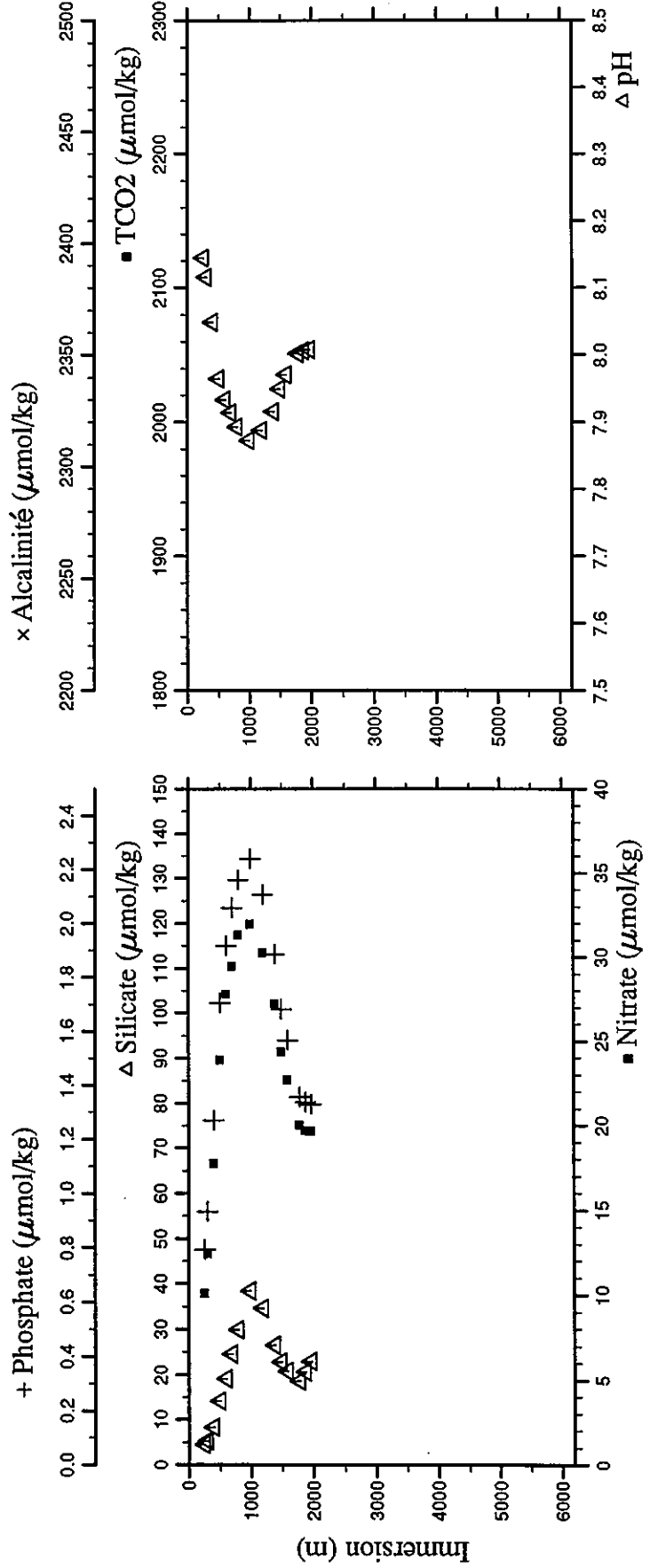
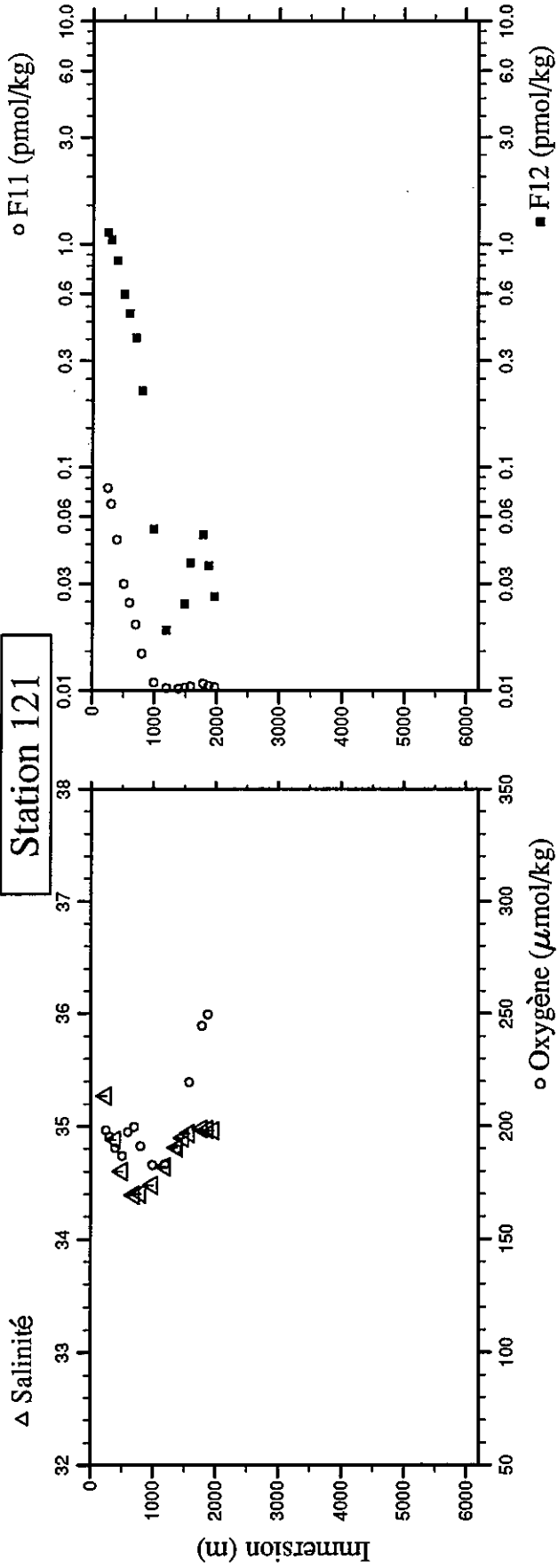
### Station 120



Station : 121 Campagne : CITHER 2  
 Date : 18-02-94 Heure : 8 h 5 mn  
 Position : S 12 25.46 W 37 32.57  
 Dernier niveau à : 1987  
 Nb prélèvements : 15

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGÈNE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- um/kg	pH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
251.8	250.2	13.731	27.5712	35.271	198.2	10.10	0.793	4.5	2.1132	1.1272			8.145
299.9	298.0	12.757	27.8988	35.144 r	195.4	12.43	0.934	5.3	1.9459	1.0451			8.116
401.2	398.5	10.499	28.5731	34.881	190.4	17.75	1.269	8.3	1.5748	0.8439			8.049
503.6	500.1	7.764	29.2767	34.600	186.9	23.89	1.704	14.2	1.1108	0.5976			7.965
603.1	598.8	6.111	29.8723	34.451 r	197.5	27.81	1.918	19.1	0.9167	0.4891			7.934
703.2	698.0	4.957	30.4249	34.393	199.8	29.46	2.058	24.6	0.6917	0.3805			7.914
804.1	797.9	4.425	30.9601	34.401	191.0	31.31	2.162	29.9	0.3886	0.2201			7.893
1002.1	994.0	3.701	32.0191	34.480	182.8	31.98	2.241	38.4	0.0866	0.0528			7.873
1201.9	1191.6	3.848	33.0351	34.642	182.9	30.27	2.107	34.6	0.0248	0.0186			7.888
1401.8	1389.1	4.217	34.0183	34.809	189.7	27.23	1.887	26.5	0.0172	0.0098			7.916
1500.5	1486.5	4.235	34.5273	34.894	208.0 r	24.37	1.682	22.8	0.0303	0.0244			7.950
1600.6	1585.3	4.150	35.0183	34.935	219.7	22.70	1.566	20.8	0.0426	0.0372			7.971
1799.0	1781.0	3.787	35.9949	34.976	244.5	20.04	1.357	18.6	0.0713	0.0499			8.002
1894.0	1874.6	3.450	36.4628	34.971	249.7	19.71	1.337	20.7	0.0512	0.0362			8.007
1986.1	1965.4	3.183	36.9072	34.961	253.0 r	19.66	1.329	22.9	0.0401	0.0264			8.008

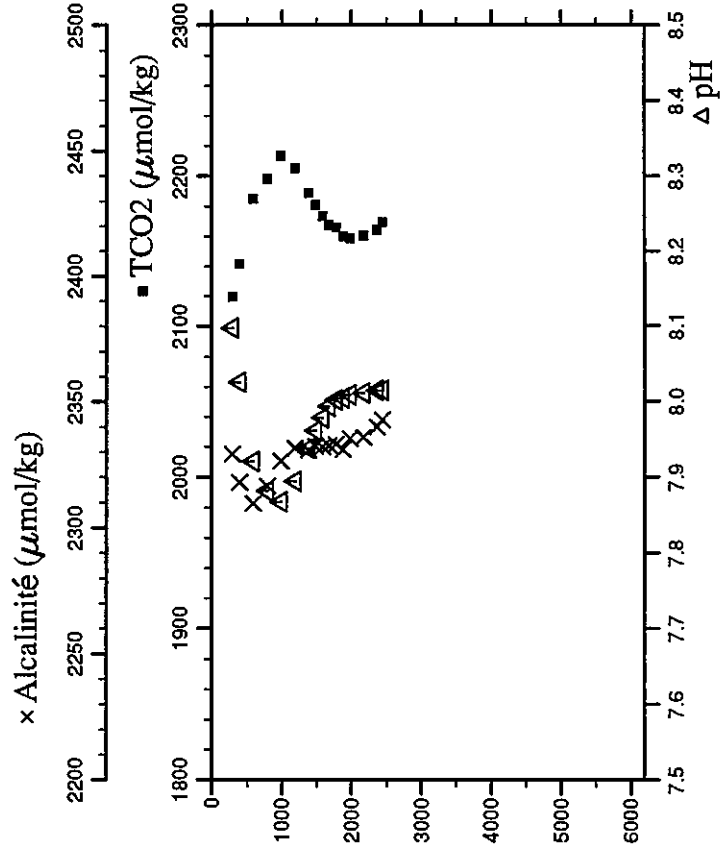
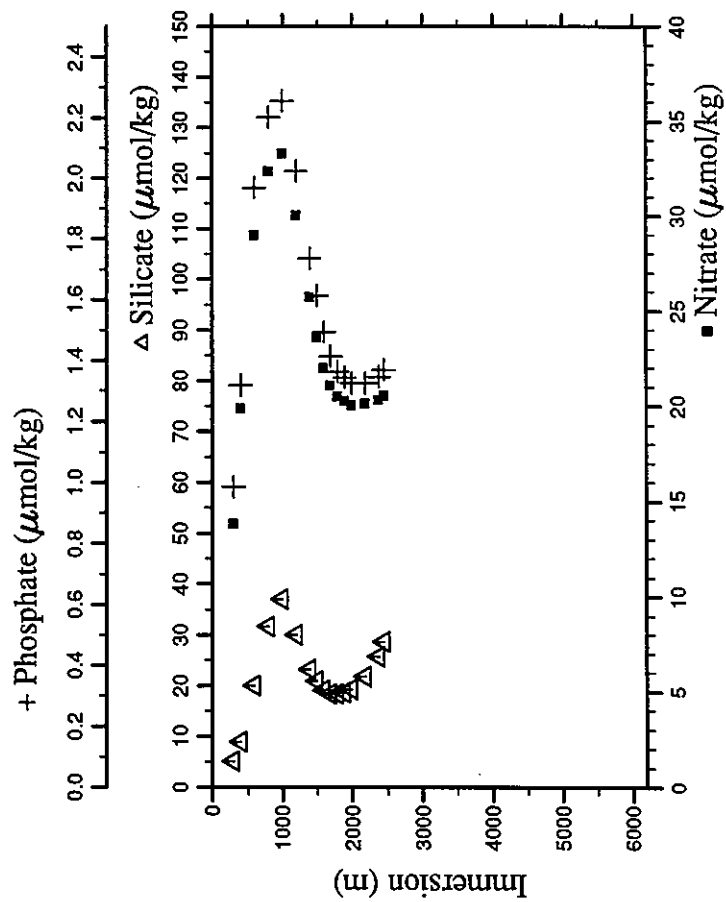
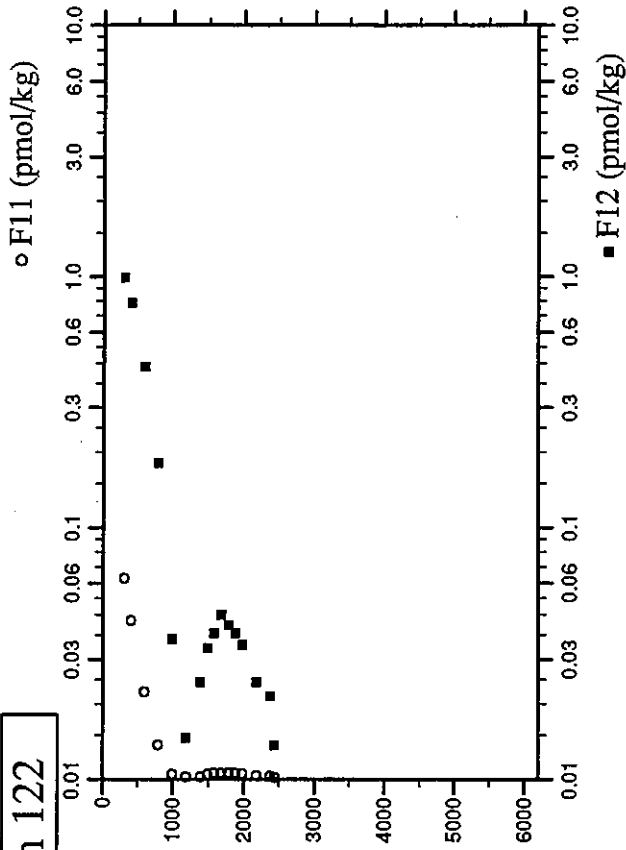
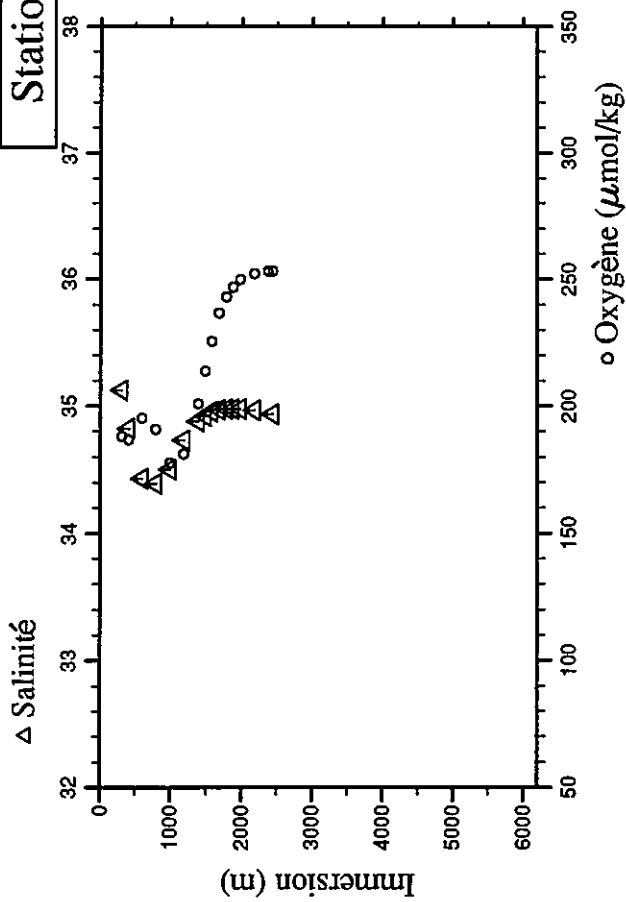
# Station 121



Station : 122 Campagne : CITHER 2  
 Date : 18-02-94 Heure : 12 h 21 mn  
 Position : S 12 29.11 W 37 27.29  
 Dernier niveau à : 2497  
 Nb prélèvements : 16

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT. NITE	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
301.4	299.5	12.605	27.9053	35.122	188.1	13.83	0.985	5.1	1.8545	0.9904	2119.50	2329.0	8.098
403.4	400.7	9.926	28.6318	34.822	186.8	19.87	1.319	8.9	1.4710	0.7843	2141.78	2317.8	8.026
600.3	596.0	5.768	29.8819	34.434	195.1	28.97	1.970	20.0	0.8158	0.4382	2184.81	2309.6	7.921
800.3	794.2	4.181	30.9701	34.391	190.9	32.37	2.202	31.7	0.3209	0.1810	2197.87	2316.4	7.882
1000.7	992.6	3.786	32.0258	34.506	177.5	33.31	2.256	37.0	0.0504	0.0362	2213.20	2326.4	7.868
1199.9	1189.6	4.082	33.0616	34.731	181.1	30.03	2.024	30.0	0.0277	0.0147	2205.31	2331.3	7.895
1400.1	1387.4	4.287	34.0525	34.879	200.8	25.72	1.735	23.2	0.0282	0.0244	2188.92	2330.7	7.938
1501.6	1487.6	4.241	34.5524	34.921	213.6	23.64	1.613	20.9	0.0491	0.0332	2180.53	2332.1	7.962
1600.5	1585.2	4.117	35.0406	34.954	225.4	21.99	1.495	19.1	0.0502	0.0381	2173.48	2332.0	7.979
1700.2	1683.6	3.979	35.5188	34.971	236.6	21.09	1.414	18.3	0.0628	0.0450	2167.38	2332.3	7.994
1802.0	1784.0	3.813	36.0031	34.975	243.0	20.51	1.363	18.3	0.0634	0.0411	2165.67	2333.0	8.002
1900.5	1881.0	3.695	36.4608	34.975	246.7	20.27	1.345	18.6	0.0584	0.0381	2159.89	2330.9	8.005
2001.9	1980.9	3.558	36.9319	34.977	249.8	20.03	1.324	19.3	0.0544	0.0342	2158.55	2335.3	8.009
2200.3	2176.2	3.290	37.8473	34.964	252.2	20.12	1.326	21.8	0.0366	0.0244	2160.18	2335.6	8.012
2398.8	2371.5	2.967	38.7669	34.963	253.2	20.29	1.347	25.7	0.0314	0.0215	2164.13	2339.7	8.015
2469.5	2441.0	2.750	39.1044	34.938	253.1	20.55	1.369	28.7	0.0198	0.0137	2169.27	2342.6	8.015

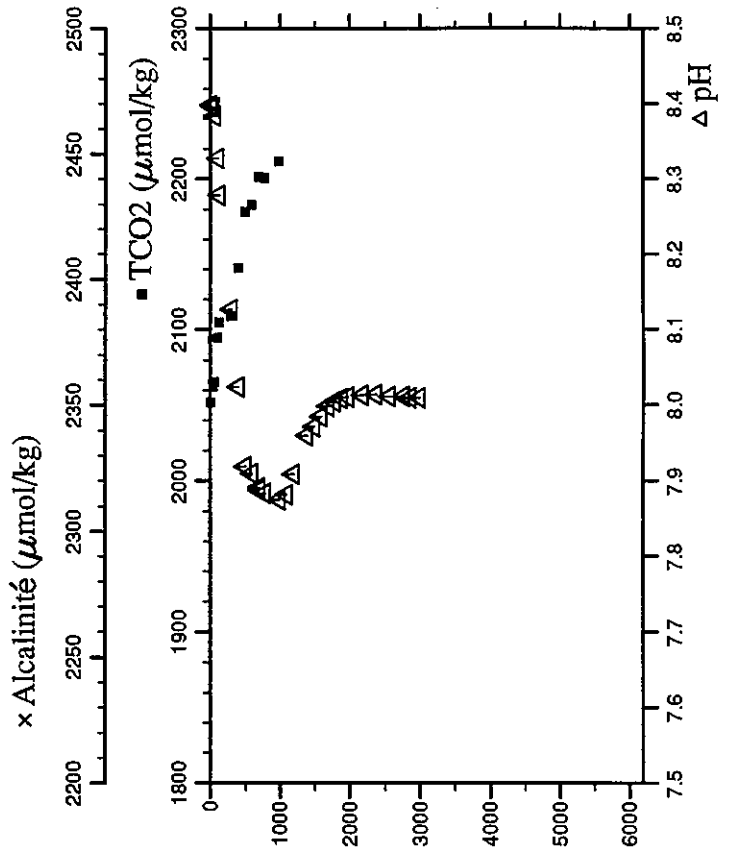
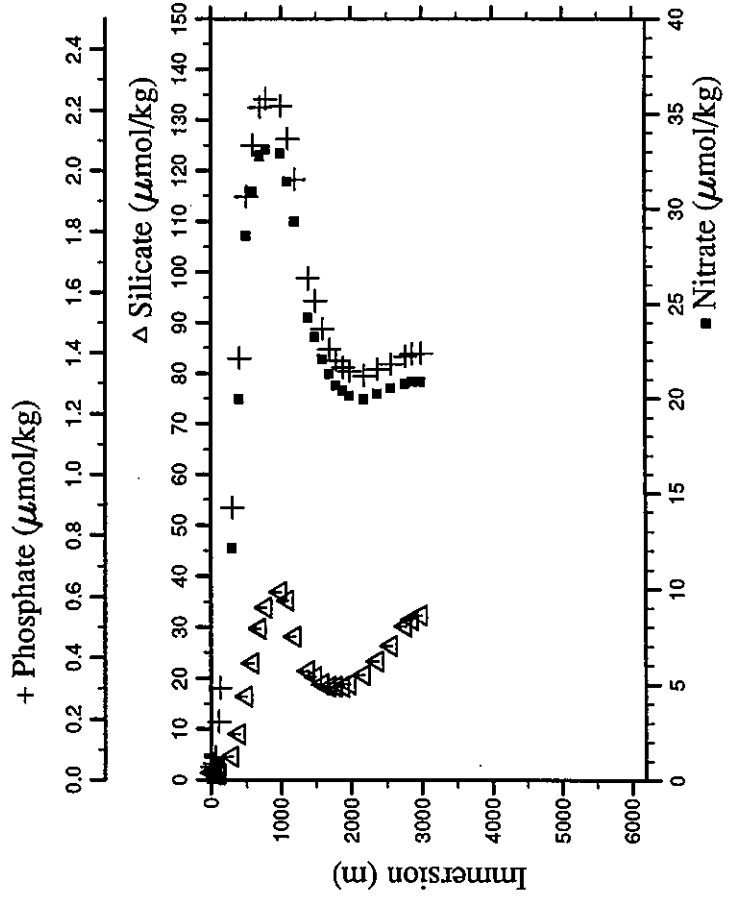
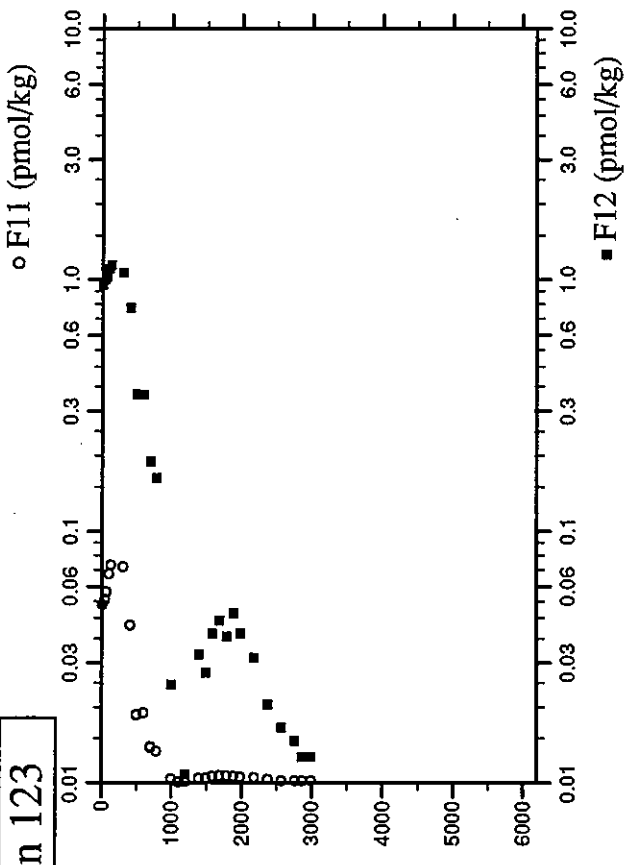
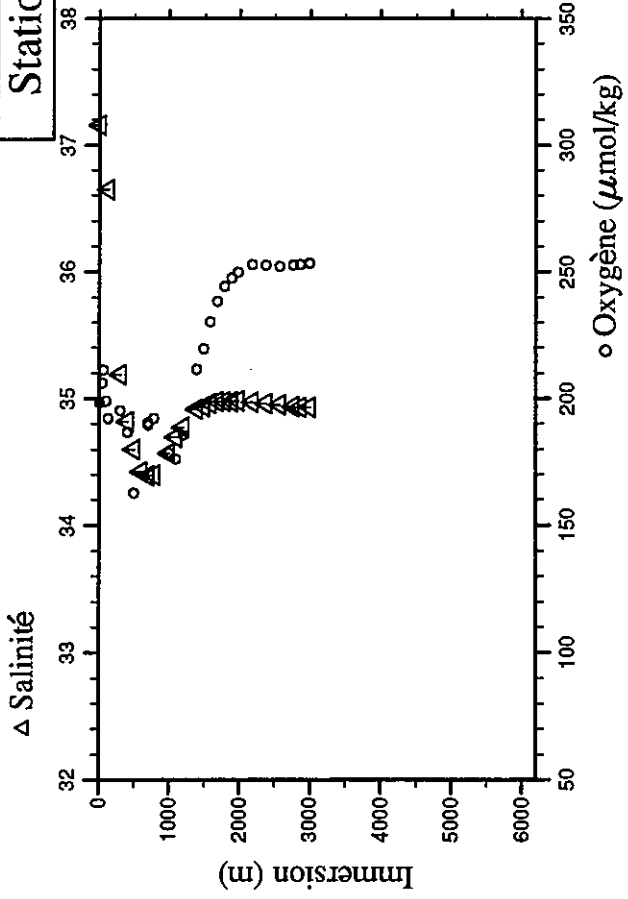
# Station 122



Station : 123 Campagne : CIPHER 2  
 Date : 18-02-94 Heure : 18 h 17 mn  
 Position : S 12 34.39 W 37 20.45  
 Dernier niveau à : 3029  
 Nb prélèvements : 28

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	PH
dbar	metres	deg.ceils.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.3	4.3	28.792	23.7725	37.158	198.3	0.04	0.044	1.5	1.6531	0.9518	2051.78		8.398
41.2	41.0	27.719	24.3100	37.183	206.0	0.04	0.053	1.2	1.6985	0.9996	2062.45		8.396
60.9	60.5	26.270	24.9145	37.210	211.3	0.04	0.074	1.1	1.7707	1.0220	2065.33		8.384
102.3	101.7	23.685	25.6917	37.020	199.0	0.17	0.191	1.1	1.9384	1.1023	2094.77		8.328
129.1	128.3	21.787	26.0806	36.650	192.0	0.90	0.301	1.3	2.0207	1.1416	2104.61		8.279
300.9	299.0	13.101	27.8598	35.192	195.1	12.15	0.890	4.6	2.0009	1.0656	2108.87		8.127
401.3	398.6	9.942	28.6274	34.818	186.8	19.97	1.382	9.1	1.4592	0.7696	2140.86		8.024
501.2	497.7	7.361	29.3366	34.599	162.5	28.57	1.915	16.4	0.6328	0.3492	2178.06		7.919
601.7	597.4	5.375	29.9325	34.420	189.7	30.93	2.083	22.9	0.6482	0.3473	2182.71		7.910
699.5	694.3	4.377	30.4878	34.394	189.5	32.75	2.209	29.7	0.6482	0.1898	2201.37		7.888
699.7	694.5	4.445	30.4853	34.391	190.3	32.80	2.209	29.8	0.3362	0.1878			7.891
783.7	777.7	4.017	30.9232	34.398	192.1	33.13	2.236	33.9	0.2907	0.1624	2200.38		7.884
1001.3	993.2	3.731	32.0806	34.571	178.7	32.92	2.213	36.9	0.0366	0.0245	2211.39		7.875
1101.8	1092.6	4.124	32.5926	34.699	176.0	31.43	2.104	35.3	0.0101	0.0078			7.882
1201.5	1191.2	4.142	33.1018	34.775	185.6	29.33	1.972	28.2	0.0114	0.0108			7.909
1401.3	1388.6	4.256	34.0964	34.914	211.4	24.27	1.648	21.4	0.0437	0.0323			7.960
1501.2	1487.2	4.176	34.5741	34.936	219.6	23.26	1.572	20.3	0.0430	0.0274			7.972
1601.2	1585.9	4.077	35.0565	34.962	230.3	22.06	1.480	18.9	0.0595	0.0391			7.985
1701.8	1685.2	3.960	35.5346	34.978	238.3	21.29	1.412	18.3	0.0683	0.0440			7.999
1801.9	1783.9	3.814	36.0053	34.978	244.2	20.69	1.376	18.4	0.0671	0.0381			8.005
1901.0	1881.5	3.707	36.4659	34.977	247.5	20.39	1.352	18.3	0.0638	0.0469			8.009
1997.0	1976.1	3.596	36.9090	34.980	249.9	20.13	1.340	18.9	0.0563	0.0391			8.011
2200.3	2176.2	3.348	37.8461	34.972	252.9	19.96	1.324	20.6	0.0474	0.0313			8.013
2399.0	2371.7	3.147	38.7483	34.959	252.6	20.23	1.347	23.3	0.0293	0.0205			8.014
2598.6	2567.8	2.940	39.6547	34.949	252.2	20.53	1.364	26.3	0.0221	0.0166			8.012
2799.7	2765.2	2.653	40.5771	34.935	252.7	20.79	1.388	30.2	0.0201	0.0147			8.012
2899.0	2862.6	2.544	41.0262	34.933	252.9	20.88	1.396	31.5	0.0199	0.0127			8.010
3026.1	2987.3	2.466	41.5932	34.931	253.5	20.88	1.399	32.3	0.0179	0.0127			8.010

**Station 123**

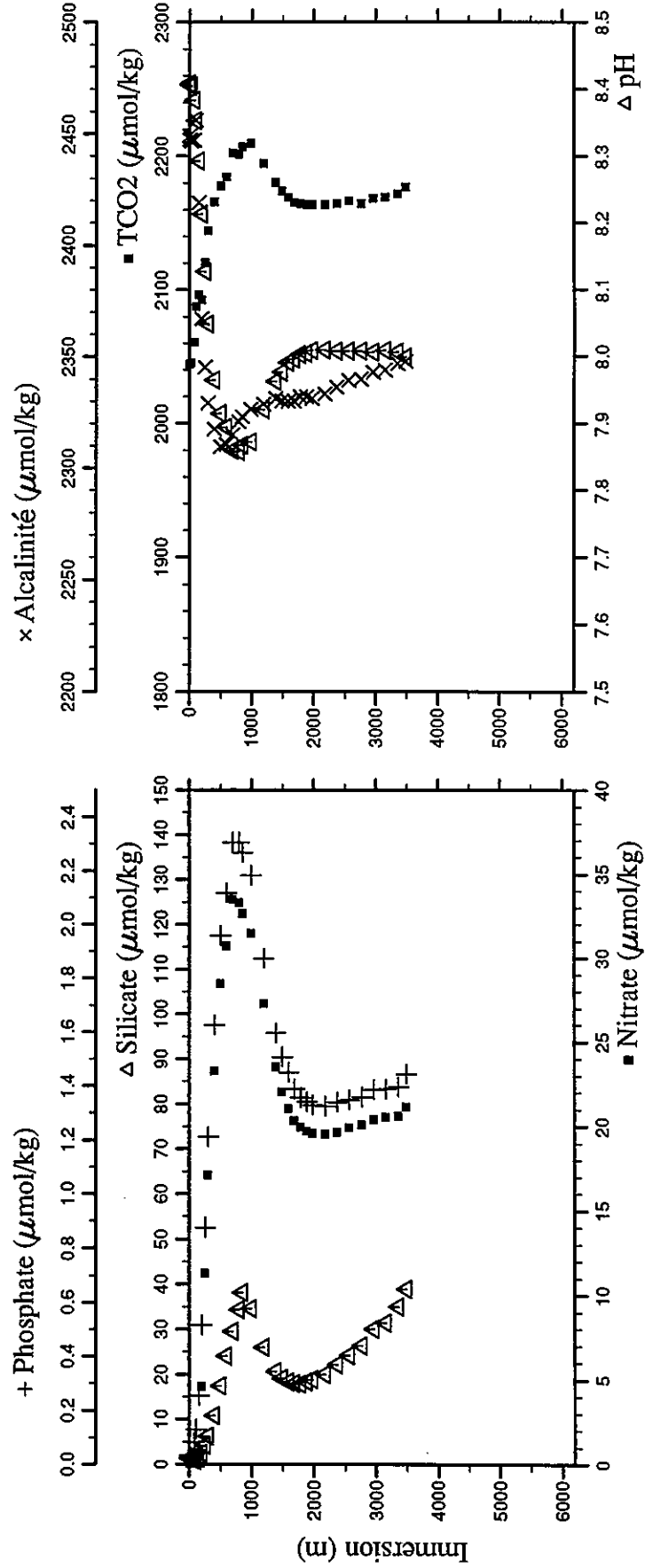
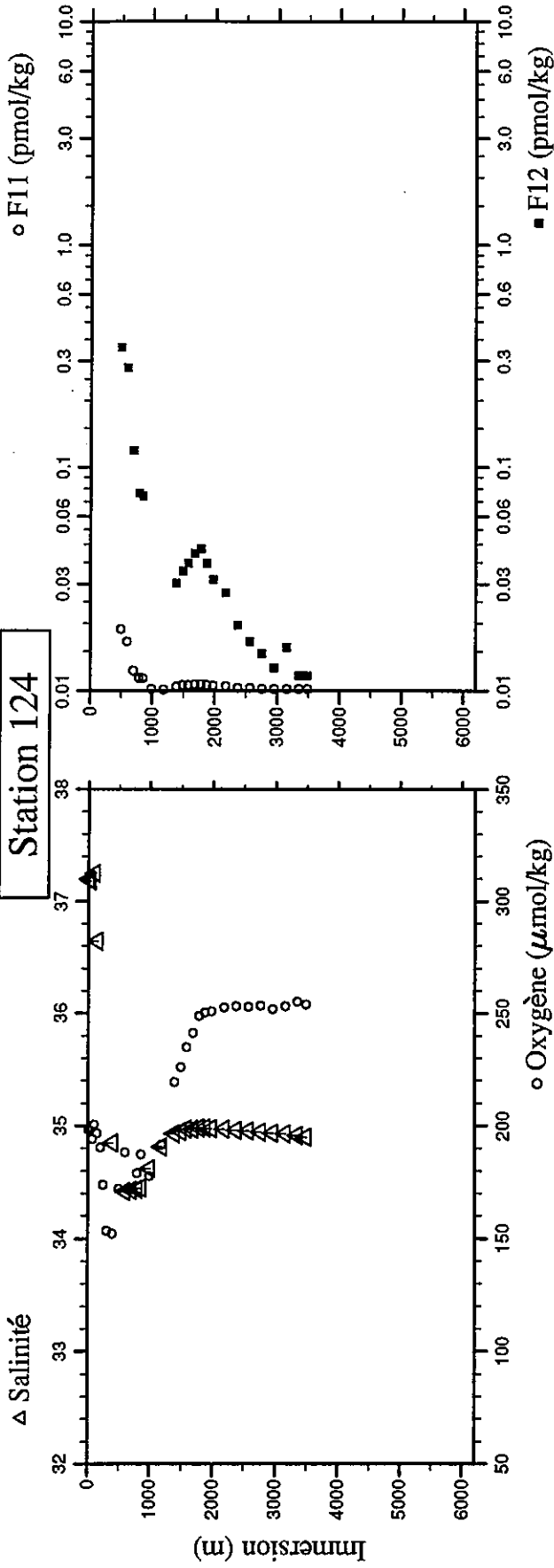




Station : 124 Campagne : CITHER 2  
 Date : 19-02-94 Heure : 0 h 15 mn  
 Position : S 12 42.93 W 37 7.97  
 Dernier niveau à : 3543  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	PH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
3.5	3.5	28.685	23.8334	37.198	198.5	0.04	0.032	1.3				2447.2	8.408
3.6	3.6	28.685	23.8339	37.197	198.3	0.04	0.026	1.3			2044.36	2449.0	8.407
31.0	30.8	28.566	23.9784	37.186	197.9	0.04	0.026	1.4			2045.49	2446.7	8.405
75.0	74.6	26.710	24.7576	37.133	194.2	0.04	0.083	1.0			2060.95	2447.1	8.384
101.7	101.1	25.041	25.4640	37.252	200.4	0.08	0.131	1.0			2087.49	2455.9	8.353
150.0	149.1	21.684	26.1950	36.647	196.7	0.56	0.256	1.3			2096.31	2419.2	8.293
200.9	199.6	17.311	27.0110	35.850	190.4	4.61	0.516	2.4			2092.53	2367.0	8.213
250.3	248.7	14.647	27.4827	35.451	173.8	11.33	0.876	4.2			2120.70	2345.2	8.128
300.9	299.0	12.735	27.9247	35.198	153.4	17.11	1.212	6.3			2144.36	2329.0	8.049
400.7	398.0	9.871	28.6549	34.847	152.2	23.28	1.625	10.8			2166.02	2317.5	7.965
500.7	497.2	6.821	29.3551	34.545	172.0	28.49	1.958	17.5	0.3453	0.0049	2177.90	2309.4	7.915
600.5	596.2	5.138	29.9501	34.415	188.3	30.70	2.118	24.1	0.5140	0.1193	2184.39	2310.5	7.895
700.4	695.2	4.555	30.4955	34.427	171.8	33.49	2.307	29.6	0.2088	0.0763	2202.43	2314.9	7.860
799.7	793.6	4.028	31.0297	34.439	178.8	33.28	2.307	34.4	0.1339	0.0743	2201.45	2320.6	7.858
860.1	853.4	3.656	31.3554	34.447	187.2	32.64	2.268	38.2	0.1306	0.0078	2206.83	2323.1	7.868
1001.4	993.2	3.874	32.1105	34.620	177.5	31.47	2.184	34.6	0.0191	0.0049	2209.36	2326.2	7.873
1199.5	1189.2	4.202	33.1177	34.816	191.7	27.28	1.874	26.0	0.0125	0.0049	2194.80	2328.5	7.921
1399.7	1387.0	4.227	34.1021	34.929	219.2	23.52	1.597	20.6	0.0434	0.0303	2180.08	2331.1	7.963
1499.4	1485.4	4.135	34.5834	34.952	226.0	22.05	1.508	19.1	0.0631	0.0342	2173.97	2330.2	7.977
1600.4	1585.1	4.011	35.0658	34.969	234.8	21.06	1.449	18.4	0.0588	0.0372	2169.14	2329.9	7.991
1700.2	1683.6	3.882	35.5366	34.972	241.2	20.33	1.389	18.0	0.0687	0.0411	2165.35	2330.0	7.996
1801.0	1783.0	3.770	36.0067	34.980	248.9	19.95	1.357	17.9	0.0672	0.0430	2164.62	2331.8	8.003
1900.3	1880.8	3.667	36.4660	34.980	250.3	19.73	1.341	18.3	0.0631	0.0372	2163.52	2331.8	8.005
2000.0	1979.0	3.543	36.9277	34.978	250.9	19.60	1.329	18.9	0.0577	0.0313	2163.70	2331.2	8.009
2200.1	2176.0	3.387	37.8377	34.969	252.5	19.56	1.325	20.0	0.0497	0.0274	2163.59	2333.2	8.010
2399.9	2372.5	3.199	38.7446	34.962	253.2	19.65	1.339	22.2	0.0320	0.0196	2164.73	2336.1	8.008
2599.5	2568.7	3.051	39.6439	34.956	252.8	19.92	1.348	24.2	0.0294	0.0166	2166.82	2339.3	8.008
2798.0	2763.5	2.885	40.5380	34.946	253.3	20.09	1.359	26.4	0.0224	0.0147	2164.75	2339.8	8.008
2996.6	2958.3	2.676	41.4333	34.935	251.9	20.39	1.387	30.0	0.0188	0.0127	2168.28	2342.7	8.007
3196.1	3153.8	2.534	42.3247	34.930	253.2	20.53	1.389	31.4	0.0183	0.0156	2169.02	2343.9	8.009
3398.5	3352.0	2.260	43.2414	34.914	255.1	20.61	1.398	35.0	0.0203	0.0117	2171.83	2346.7	8.007
3534.0	3484.6	2.110	43.8461	34.901	253.8	21.14	1.443	39.0	0.0173	0.0117	2176.69	2347.7	7.999

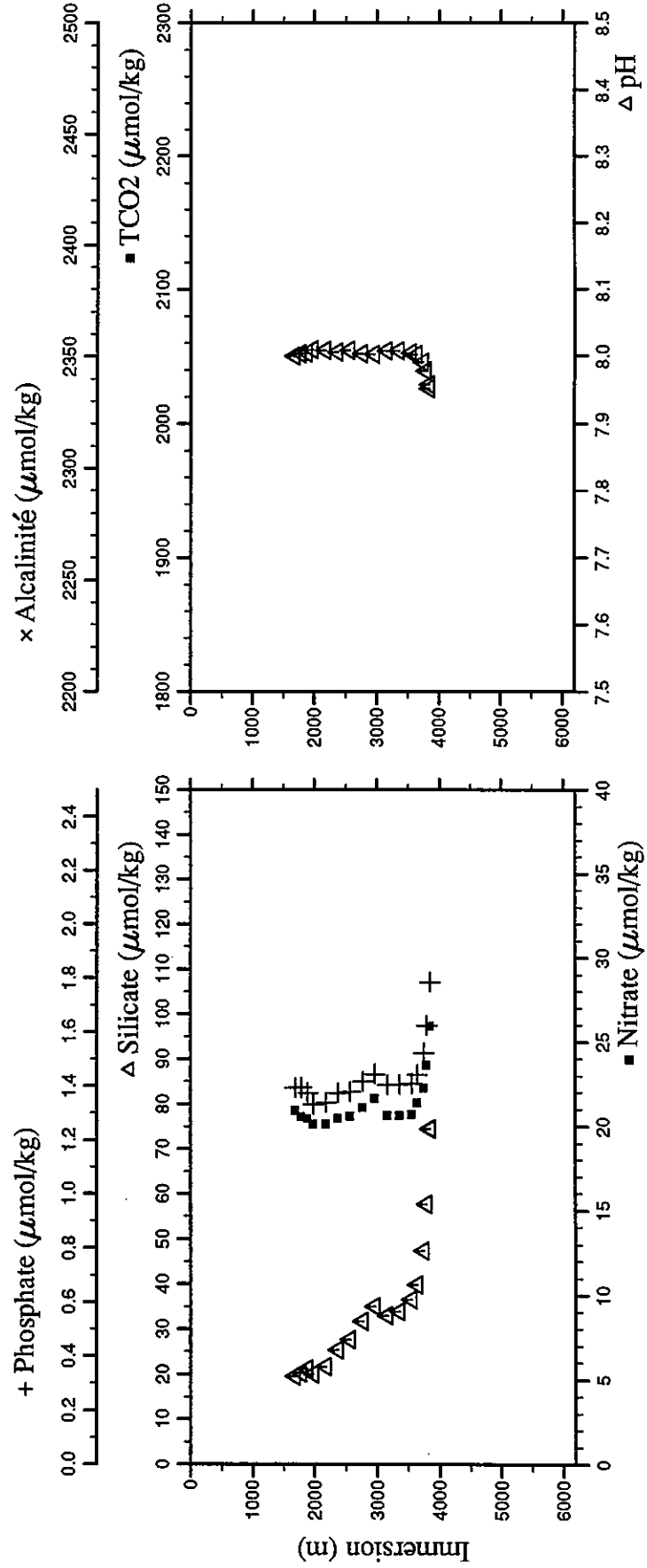
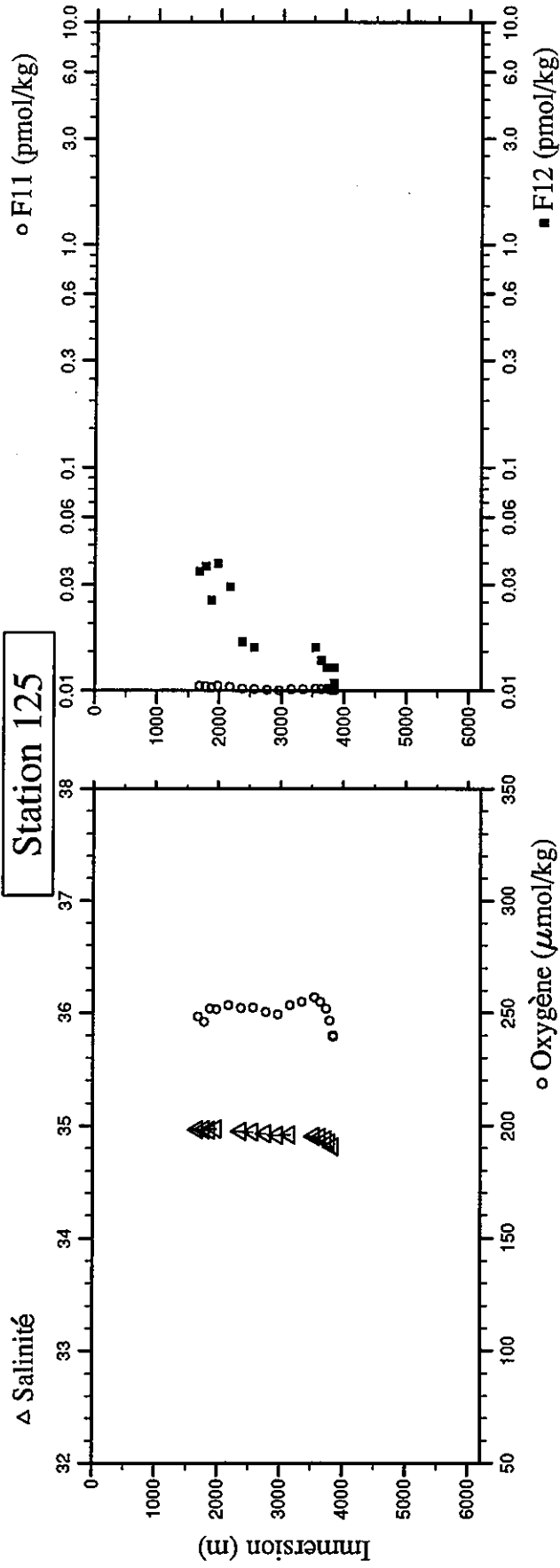
# Station 124



Station : 125 Campagne : CITHER 2  
 Date : 19-02-94 Heure : 5 h 40 mn  
 Position : S 12 57.34 W 36 47.29  
 Dernier niveau à : 3906  
 Nb prélèvements : 17

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
1699.5	1682.9	3.722	35.5506	34.968	248.3	20.94	1.392	19.5	0.0521	0.0342			8.001
1799.4	1781.4	3.595	36.0158	34.967	245.9	20.57	1.395	20.3	0.0445	0.0362			8.004
1899.1	1879.6	3.481	36.4765	34.963	251.9	20.49	1.374	21.1	0.0326	0.0254			8.005
2000.4	1979.4	3.437	36.9427	34.970	251.6	20.12	1.332	20.0	0.0489	0.0372			8.010
2200.0	2175.9	3.264	37.8509	34.972	253.3	20.13	1.337	21.7	0.0398	0.0293			8.009
2399.8	2372.4	3.032	38.7619	34.953	252.1	20.47	1.373	25.4	0.0215	0.0166			8.007
2599.3	2568.4	2.852	39.6666	34.945	252.4	20.61	1.377	27.6	0.0154	0.0156			8.009
2800.3	2765.8	2.660	40.5725	34.929	250.4	21.13	1.416	31.7	0.0103	0.0098			8.004
3000.0	2961.6	2.518	41.4631	34.917	249.3	21.65	1.444	35.0	0.0045	0.0039			8.003
3202.3	3159.9	2.441	42.3643	34.921	253.3	20.66	1.403	33.0	0.0124	0.0088			8.008
3399.7	3353.1	2.327	43.2392	34.907	254.9	20.66	1.406	33.9	0.0155	0.0098			8.008
3599.3	3548.4	2.175	44.1234	34.905	256.9	20.71	1.410	36.5	0.0180	0.0156			8.005
3698.4	3645.3	2.074	44.5632	34.897	254.8	21.39	1.442	39.8	0.0145	0.0137			8.002
3794.6	3739.3	1.877	44.9988	34.875	251.8	22.28	1.521	47.4	0.0181	0.0127			7.991
3848.4	3791.8	1.653	45.2519	34.852	246.6	23.63	1.624	57.6	0.0087	0.0059			7.979
3902.0	3844.2	1.304	45.5165	34.816	239.8	25.93	1.785	74.4	0.0124	0.0127			7.958
3902.1	3844.3	1.294	45.5193	34.813	239.3	25.94	1.785	74.6	0.0047	0.0108			7.952

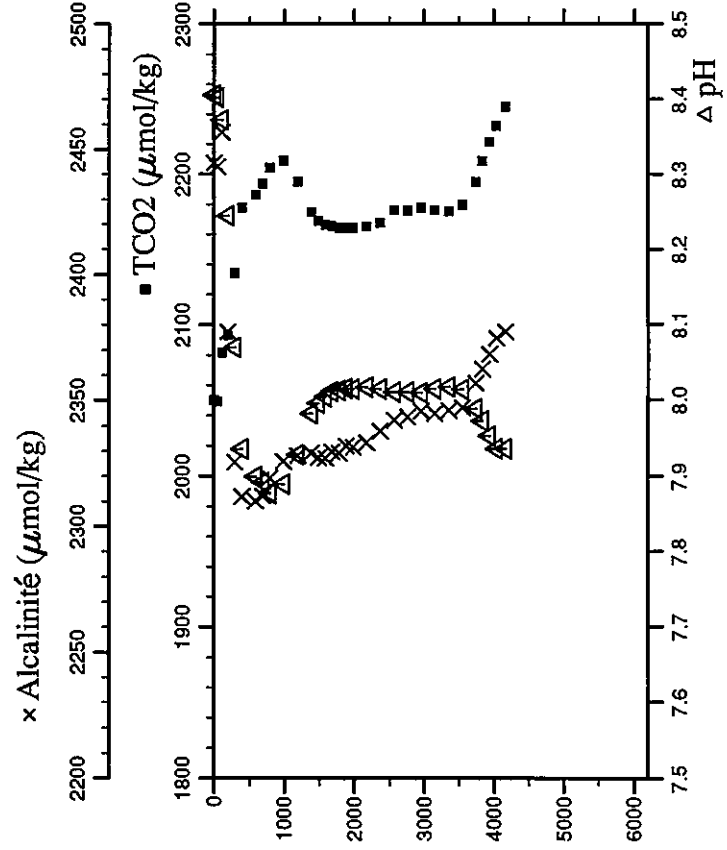
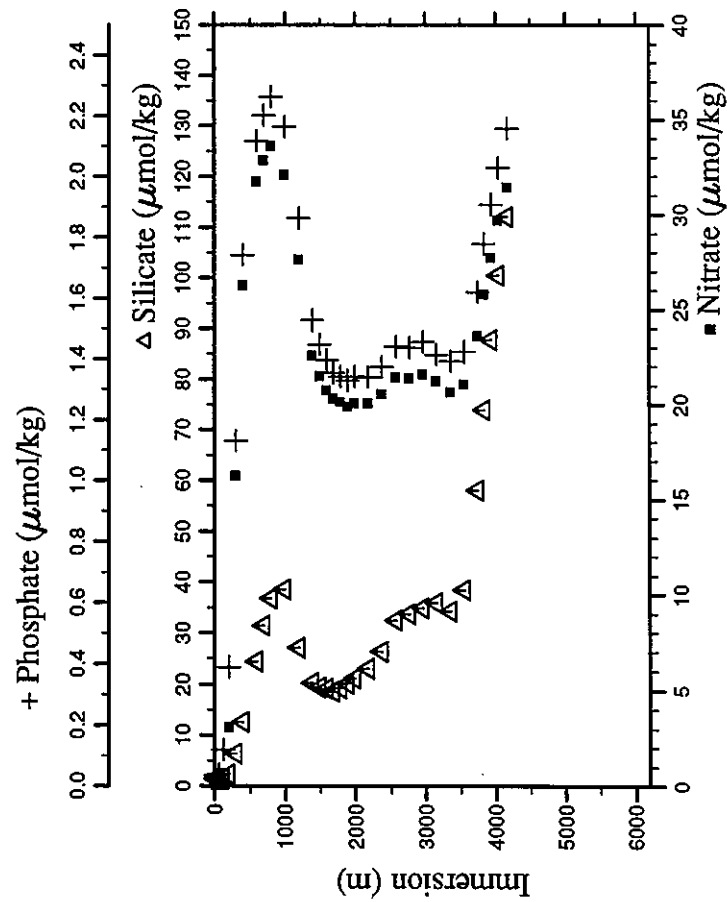
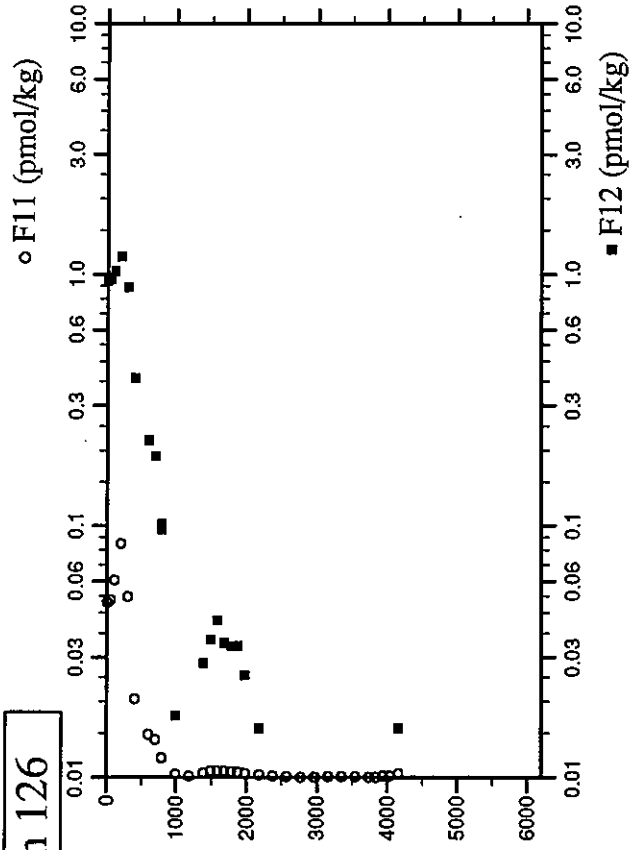
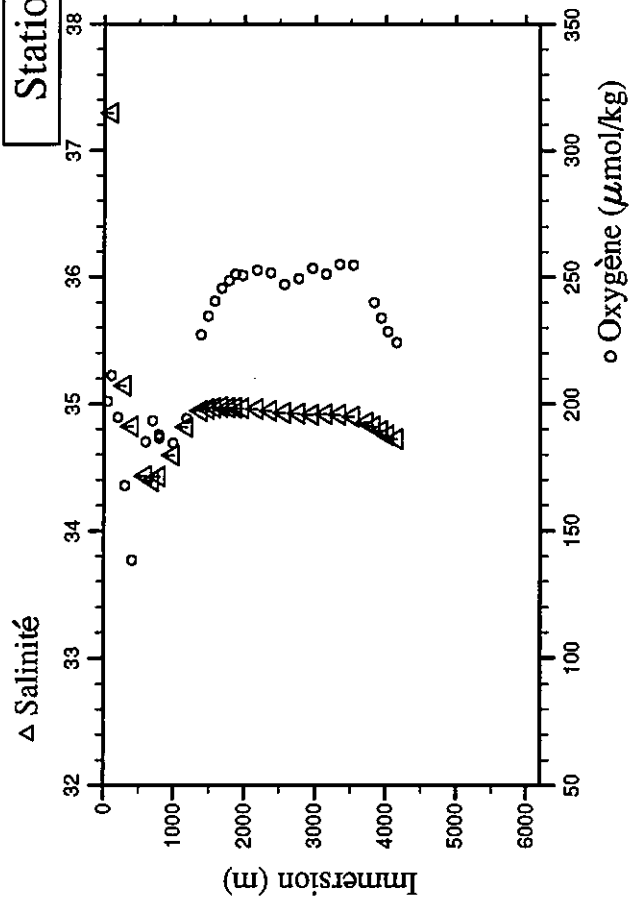
# Station 125



Station : 126 Campagne : CITHER 2  
 Date : 19-02-94 Heure : 11 h 47 mn  
 Position : S 13 12.39 W 36 27.07  
 Dernier niveau à : 4239  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGÈNE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.0	7.0	28.601	23.8810	34.722	ε	0.04	0.035	1.5	1.6206	0.9430	2050.36	2444.4	8.406
50.9	50.6	28.390	24.1300	37.181	ε	0.04	0.038	1.5	1.6460	0.9596	2049.42	2443.1	8.402
111.4	110.7	25.198	25.4858	37.293		0.04	0.119	1.4	1.8280	1.0279	2081.53	2456.8	8.373
200.4	199.1	18.493	26.8133	36.048	ε	3.08	0.388	2.3	2.1697	1.1754	2092.79	2377.2	8.245
301.5	299.5	12.645	27.9152	35.144		16.24	1.131	6.4	1.6731	0.8868	2133.90	2325.5	8.070
401.7	399.0	9.542	28.7023	34.825		26.26	1.743	12.6	0.7228	0.3873	2177.55	2311.7	7.936
601.4	597.1	5.259	29.9541	34.430		31.72	2.117	24.5	0.3973	0.2191	2186.30	2309.9	7.900
701.1	695.9	4.240	30.5074	34.392		32.86	2.202	31.5	0.3521	0.1898	2193.75	2312.1	7.892
799.6	793.5	3.834	31.0378	34.427		33.58	2.264	36.8	0.1793	0.1017	2204.60	2319.3	7.877
799.8	793.7	3.835	31.0395	34.428		33.63	2.264	36.8	0.1842	0.0968	2204.60	2319.2	7.879
1000.3	992.1	3.647	32.1115	34.596		32.07	2.164	38.6	0.0336	0.0176	2208.97	2325.7	7.890
1199.5	1189.2	4.090	33.1315	34.817		27.64	1.864	27.1	0.0132	0.0078	2194.96	2328.2	7.929
1399.6	1386.9	4.083	34.1363	34.946		22.57	1.528	20.2	0.0284	0.0284	2174.94	2329.2	7.983
1500.2	1486.2	3.945	34.6227	34.963		21.49	1.447	19.4	0.0616	0.0352	2168.73	2327.2	7.996
1600.1	1584.8	3.830	35.0937	34.972		20.75	1.397	19.1	0.0635	0.0420	2166.18	2327.0	8.005
1700.1	1683.4	3.732	35.5612	34.977		20.32	1.355	18.6	0.0609	0.0342	2165.46	2329.6	8.012
1801.6	1783.5	3.592	36.0337	34.973		20.14	1.343	19.3	0.0562	0.0332	2163.98	2329.2	8.013
1900.5	1881.0	3.489	36.4905	34.974		19.89	1.330	20.1	0.0498	0.0332	2164.00	2331.9	8.016
2001.1	1980.1	3.385	36.9503	34.967		20.07	1.342	21.1	0.0385	0.0254	2163.94	2331.3	8.015
2200.1	2176.0	3.195	37.8596	34.959		20.07	1.340	23.1	0.0285	0.0156	2164.85	2333.1	8.018
2400.1	2372.7	2.972	38.7711	34.947		20.55	1.374	26.4	0.0149	0.0098	2167.37	2337.7	8.015
2600.2	2569.3	2.726	39.6768	34.930		21.42	1.441	32.5	0.0103	0.0059	2175.86	2342.0	8.011
2800.2	2765.6	2.616	40.5747	34.927		21.38	1.437	33.7	0.0026	0.0049	2175.59	2343.3	8.011
2999.3	2960.9	2.498	41.4617	34.916		21.60	1.457	34.9	0.0042	0.0010	2177.52	2345.6	8.010
3199.1	3156.7	2.417	42.3512	34.912		21.21	1.415	35.9	0.0064	0.0059	2176.13	2344.6	8.015
3398.8	3352.2	2.312	43.2377	34.918		20.65	1.392	34.2	0.0089	0.0068	2175.12	2345.9	8.018
3598.3	3547.4	2.144	44.1207	34.902		21.05	1.425	38.4	0.0107	0.0059	2179.50	2347.0	8.014
3796.8	3741.4	1.643	45.0320	34.854		23.58	1.620	58.0	0.0038	0.0049	2194.60	2356.5	7.989
3895.8	3838.1	1.321	45.4891	34.824	ε	25.78	1.778	73.9	0.0023	0.0030	2208.54	2362.1	7.973
3996.9	3936.8	1.014	45.9353	34.787		27.74	1.907	87.7	0.0145	0.0030	2221.25	2368.1	7.953
4097.8	4035.2	0.715	46.4201	34.754		29.69	2.029	100.5	0.0123	0.0049	2232.09	2374.3	7.936
4229.6	4163.8	0.422	47.0169	34.722		31.43	2.158	112.0	0.0348	0.0156	2244.61	2377.0	7.936

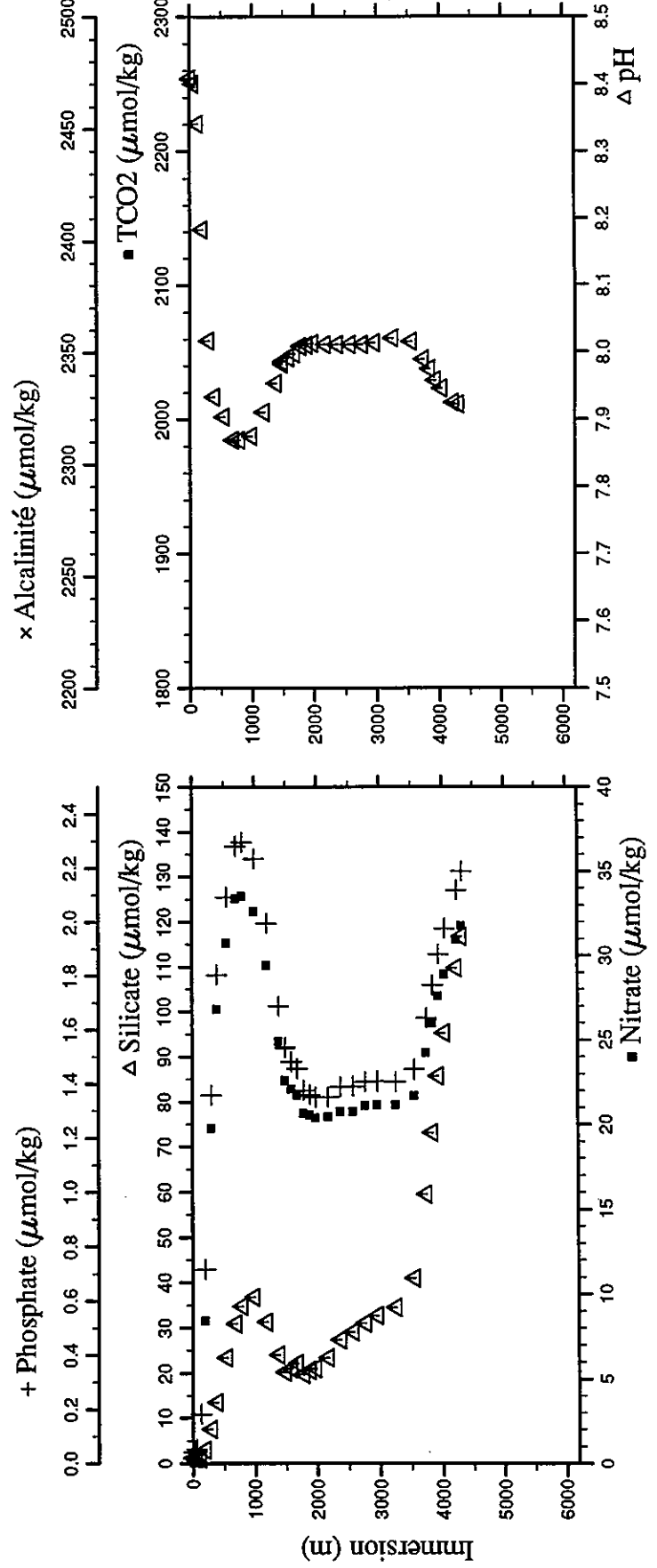
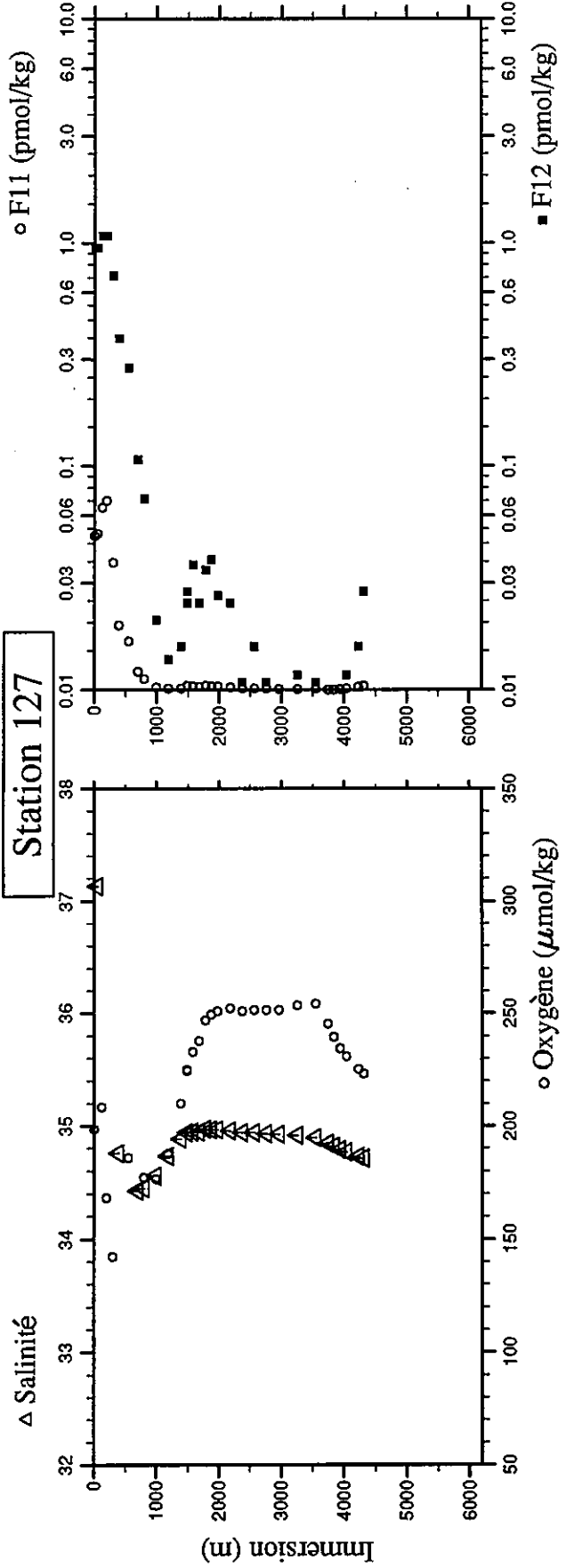
# Station 126



Station : 127 Campagne : CITHER 2  
 Date : 19-02-94 Heure : 17 h 49 mn  
 Position : S 13 13.46 W 35 57.69  
 Dernier niveau à : 4388  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH	
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg		
5.4	5.4	28.555	23.8753	37.198 r	198.4	0.04	0.040	1.2	1.6010	0.9508			8.408	
51.9	51.6	28.158	24.1652	37.135	201.4 r	0.04	0.052	1.1	1.6259	0.9499			8.401	
126.5	125.7	24.032	25.6631	36.962 r	208.4	0.04	0.180	1.1	1.9022	1.0789			8.341	
201.8	200.5	17.927	26.9225	35.962 r	168.2	8.41	0.714	3.0	1.9721	1.0767			8.184	
302.2	300.2	12.285	27.9894	35.131 r	142.4	19.77	1.359	7.5	1.3257	0.7147			8.018	
395.7	393.0	8.860	28.7339	34.756	143.8 r	26.83	1.804	13.5	0.6730	0.3726			7.934	
551.5	547.6	5.329	29.7062	34.427 r	185.8	30.76	2.092	23.5	0.5089	0.2749			7.904	
701.1	695.9	4.437	30.5125	34.429	174.0 r	33.40	2.280	31.0	0.1892	0.1066			7.869	
801.6	795.4	4.033	31.0366	34.446	177.0	33.51	2.295	34.8	0.1135	0.0714			7.869	
1001.6	993.4	3.769	32.0708	34.560	176.6	32.60	2.233	36.8	0.0248	0.0205			7.875	
1200.6	1190.2	3.927	33.0902	34.735	187.5	29.41	1.994	31.3	0.0122	0.0137			7.911	
1400.9	1388.1	4.025	34.1030	34.884	209.8	24.92	1.687	24.1	0.0131	0.0156			7.954	
1499.6	1485.6	4.063	34.5862	34.942	224.8	22.60	1.534	20.3	0.0440	0.0244			7.986	
1601.5	1586.2	3.835	35.0800	34.948	232.8	22.58	1.533	20.3	0.0427	0.0274			7.983	
1700.5	1683.8	3.608	35.5547	34.946	237.6	21.73	1.456	22.2	0.0379	0.0362			7.992	
1798.8	1780.8	3.582	36.0171	34.969	246.8	20.66	1.375	22.2	0.0293	0.0244			7.998	
1900.5	1881.0	3.464	36.4880	34.967	249.2	20.55	1.359	19.7	0.0423	0.0342			8.009	
1999.6	1978.6	3.370	36.9430	34.964	250.9	20.37	1.350	20.6	0.0403	0.0381			8.011	
2200.6	2176.5	3.137	37.8672	34.956	252.0	20.45	1.351	21.0	0.0395	0.0264			8.013	
2399.4	2372.0	2.912	38.7721	34.941	250.8	20.75	1.351	23.5	0.0278	0.0244			8.012	
2600.2	2569.3	2.763	39.6816	34.942	251.4	20.75	1.389	27.4	0.0114	0.0108			8.012	
2799.5	2765.0	2.629	40.5749	34.932	251.3	21.11	1.408	29.1	0.0150	0.0156			8.012	
2998.7	2960.3	2.512	41.4641	34.924	251.4	21.16	1.408	31.1	0.0150	0.0108			8.012	
3299.3	3254.8	2.346	42.7990	34.915	253.3	21.16	1.407	32.7	0.0089	0.0088			8.014	
3600.9	3549.9	2.035	44.1452	34.894	254.1	21.70	1.455	34.5	0.0076	0.0117			8.021	
3799.4	3743.9	1.610	45.0451	34.846	245.3	24.24	1.643	41.0	0.0155	0.0108			8.016	
3899.9	3842.1	1.306	45.5091	34.818	239.4	25.97	1.765	59.6	0.0013	0.0068			7.990	
3998.5	3938.3	1.043	45.9595	34.787	234.3	27.60	1.881	73.2	0.0045	0.0049			7.975	
4099.3	4036.7	0.831	46.4155	34.766	230.7	28.88	1.976	85.7	0.0095	0.0098			7.958	
4298.6	4231.0	0.465	47.3102	34.728	225.1	30.96	2.117	95.2	0.0154	0.0117			7.946	
4386.5	4316.7	0.284	47.7070	34.710	223.2	31.75	2.187	109.8	0.0343	0.0156			7.925	
								116.7	0.0446	0.0274				7.923

Station 127

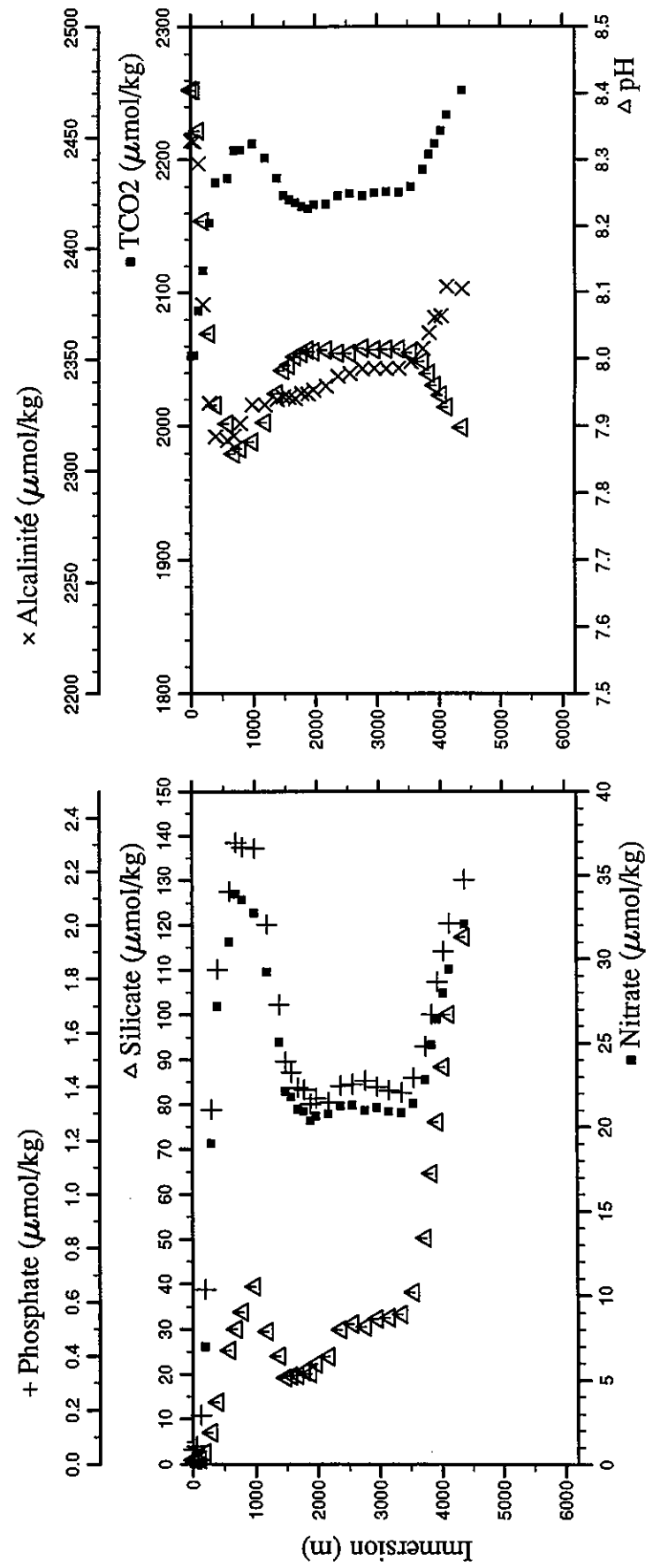
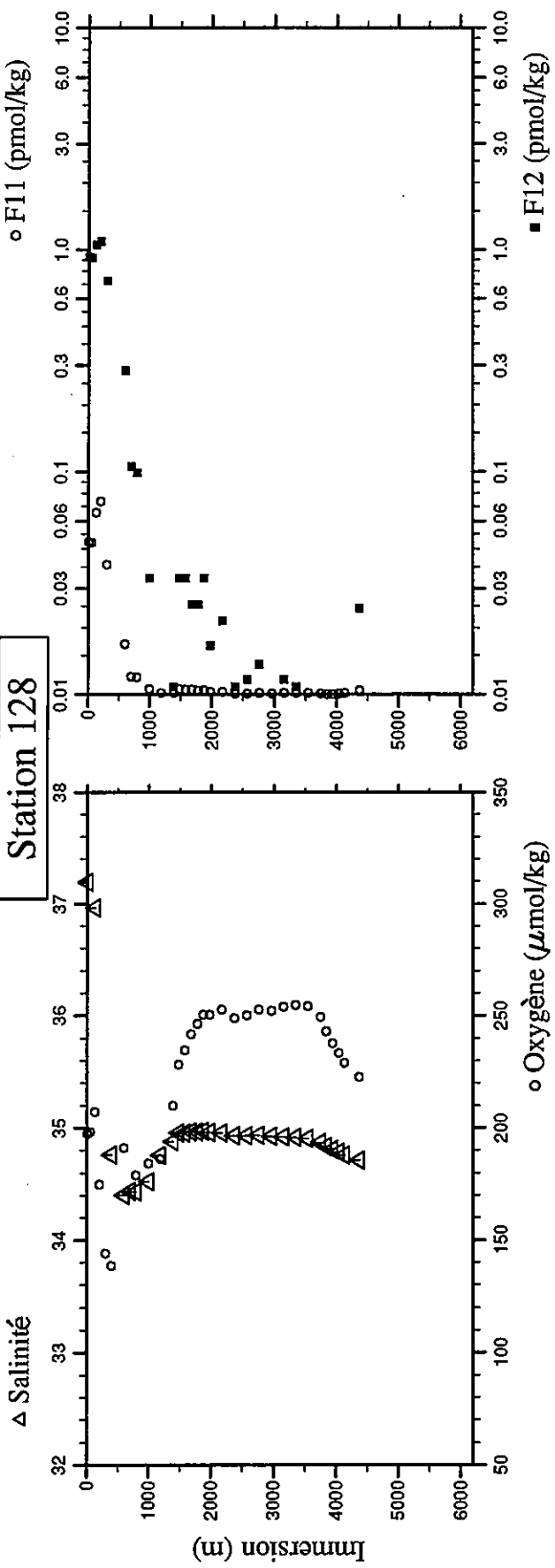




Station : 128 Campagne : CITHER 2  
 Date : 20-02-94 Heure : 0 h 2 mn  
 Position : S 13 14.61 W 35 28.59  
 Dernier niveau à : 4318  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.0	4.0	28.538	23.8817	37.193	197.4	0.04	0.056	0.9	1.5968	0.9294	2052.51	2448.7	8.406
50.5	50.2	28.372	24.1287	37.177	198.2	0.04	0.067	0.9	1.5948	0.9196	2052.97	2448.2	8.405
125.0	124.2	23.832	25.7123	36.964	207.2	0.04	0.180	1.1	1.9052	1.0545	2086.63	2438.1	8.344
200.4	199.1	17.800	26.9583	35.993	174.9	6.99	0.648	2.6	2.0267	1.0884	2116.70	2374.7	8.208
300.9	298.9	12.629	27.9454	35.176	144.0	19.03	1.315	7.0	1.3604	0.7215	2152.87	2330.4	8.039
400.4	397.7	8.904	28.7555	34.762	138.5	27.19	1.835	13.8			2182.89	2315.3	7.932
600.0	595.7	4.966	29.9637	34.402	191.2	31.02	2.126	25.4	0.5290	0.2847	2186.25	2313.6	7.904
699.8	694.6	4.547	30.5012	34.440	168.7	33.85	2.309	30.1	0.1857	0.1056	2207.09	2315.6	7.859
799.8	793.7	4.084	31.0094	34.430	178.8	33.51	2.291	33.9	0.1771	0.0988	2207.23	2321.2	7.867
1000.5	992.3	3.595	32.0634	34.526	184.3	32.73	2.287	39.4	0.0567	0.0333	2212.14	2329.6	7.877
1200.8	1190.4	4.089	33.0970	34.759	186.3	29.23	2.004	29.6	0.0110	0.0029	2201.52	2329.6	7.906
1400.8	1388.0	4.040	34.1024	34.881	209.8	25.05	1.705	24.1	0.0144	0.0108	2186.18	2331.9	7.949
1499.0	1485.0	4.088	34.5913	34.955	228.2	22.13	1.495	19.3	0.0577	0.0332	2173.59	2333.2	7.984
1598.7	1583.4	3.908	35.0673	34.956	234.5	21.79	1.454	19.6	0.0507	0.0332	2170.15	2333.0	7.991
1699.0	1682.3	3.717	35.5506	34.964	241.8	21.06	1.397	19.7	0.0471	0.0254	2168.05	2332.5	8.004
1799.6	1781.5	3.549	36.0216	34.965	246.3	20.95	1.388	20.6	0.0348	0.0254	2165.12	2334.7	8.009
1899.5	1880.0	3.457	36.4871	34.971	250.4	20.38	1.335	20.1	0.0457	0.0332	2163.19	2334.5	8.014
1999.9	1978.9	3.294	36.9521	34.959	250.3	20.65	1.357	22.3	0.0242	0.0166	2166.39	2336.1	8.012
2199.0	2174.9	3.087	37.8692	34.955	252.7	20.78	1.343	24.0	0.0277	0.0215	2166.64	2337.9	8.014
2399.1	2371.7	2.838	38.7758	34.931	248.9	21.27	1.403	29.9	0.0092	0.0108	2173.10	2342.2	8.009
2599.3	2568.4	2.718	39.6789	34.929	250.0	21.29	1.409	31.2	0.0100	0.0117	2174.55	2343.6	8.009
2799.8	2765.2	2.640	40.5762	34.934	252.5	20.99	1.422	30.5	0.0120	0.0137	2173.13	2345.7	8.017
2999.5	2961.1	2.530	41.4651	34.927	252.0	21.15	1.399	32.4	0.0108	0.0049	2175.35	2345.9	8.014
3198.9	3156.5	2.443	42.3504	34.922	254.0	20.93	1.387	32.6	0.0121	0.0117	2175.97	2345.7	8.015
3398.8	3352.2	2.354	43.2320	34.917	254.6	20.85	1.378	33.3	0.0137	0.0108	2175.43	2345.8	8.015
3598.2	3547.3	2.166	44.1177	34.904	254.1	21.40	1.434	38.2	0.0114	0.0078	2179.89	2348.6	8.010
3800.0	3744.5	1.823	45.0266	34.870	249.4	22.81	1.549	50.2	0.0053	0.0068	2192.50	2354.6	7.996
3898.5	3840.7	1.519	45.4816	34.836	243.0	24.89	1.668	64.6	0.0001	0.0010	2203.97	2361.6	7.979
3999.3	3939.1	1.255	45.9435	34.811	237.7	26.40	1.788	76.1	0.0023	0.0059	2211.88	2368.4	7.961
4099.0	4036.4	0.990	46.3973	34.785	233.2	27.95	1.904	88.4	0.0061	0.0068	2221.97	2369.3	7.946
4198.7	4133.6	0.725	46.8539	34.756	228.9	29.40	2.008	100.1	0.0142	0.0088	2233.79	2382.4	7.929
4446.5	4375.2	0.295	47.9633	34.713	222.6	32.06	2.171	117.4	0.0411	0.0244	2252.11	2381.4	7.898

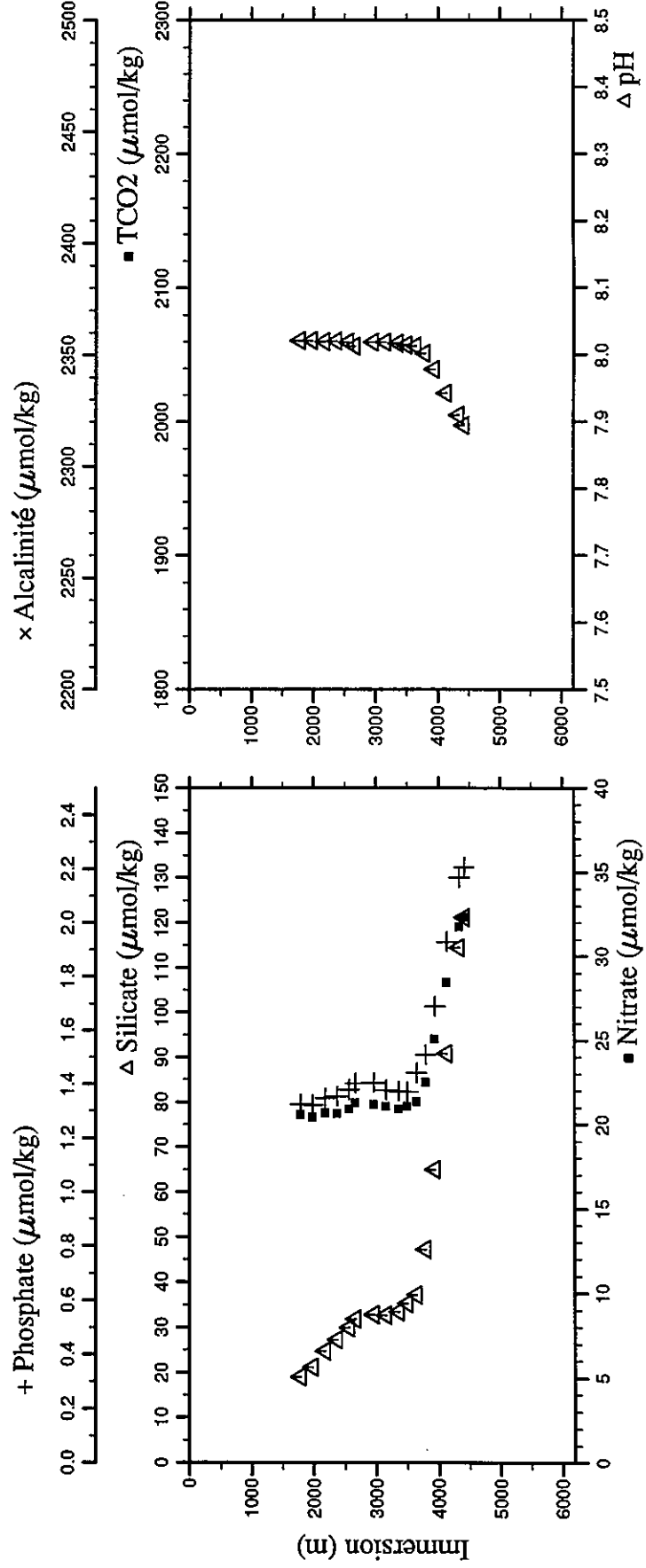
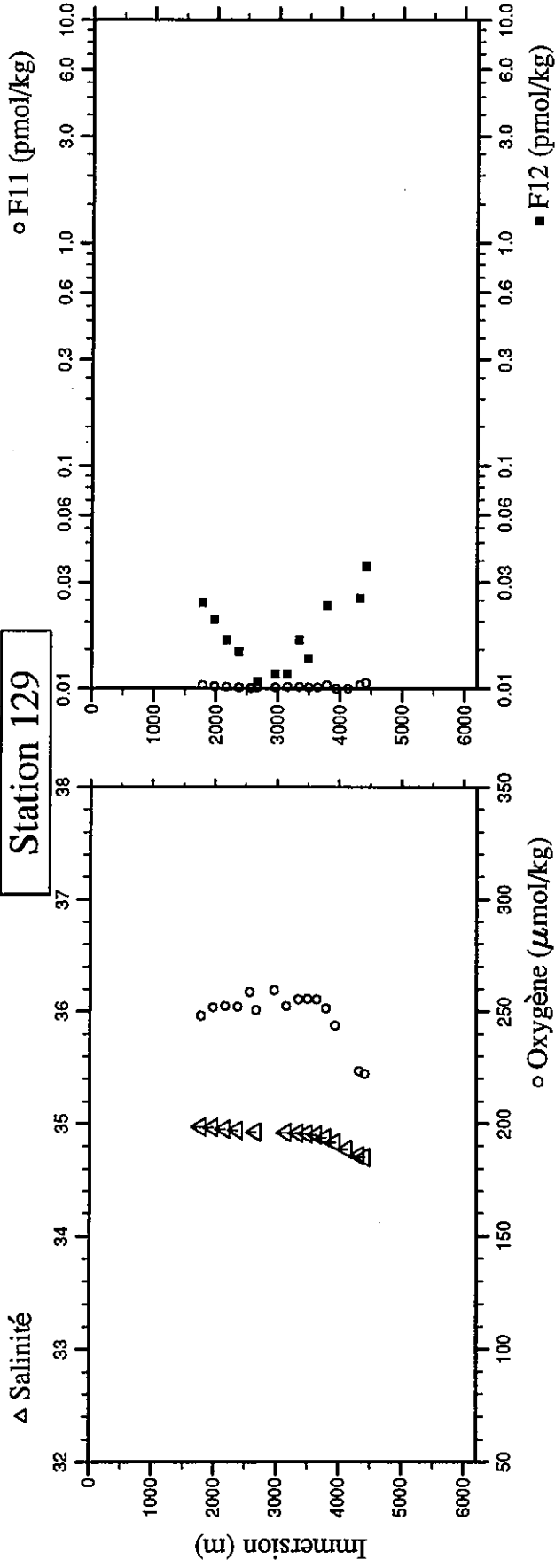
# Station 128



Station : 129 Campagne : CITHER 2  
 Date : 20-02-94 Heure : 7 h 20 mn  
 Position : S 13 15.76 W 34 59.23  
 Dernier niveau à : 4490  
 Nb prélèvements : 16

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
1801.1	1783.0	3.618	36.0295	34.974	248.1	20.56	1.324	19.0	0.0374	0.0244			8.022
2000.4	1979.4	3.343	36.9531	34.964	251.8	20.41	1.322	21.2	0.0229	0.0205			8.022
2199.8	2175.7	3.045	37.8766	34.950	252.4	20.67	1.349	24.7	0.0173	0.0166			8.020
2399.8	2372.4	2.859	38.7864	34.941	252.1	20.66	1.354	27.3	0.0117	0.0147			8.021
2598.8	2567.9	2.704	39.6834		258.8	20.93	1.381	29.9	0.0092	0.0049			8.019
2699.8	2667.1	2.620	40.1381	34.926	250.7	21.29	1.404	31.8	0.0126	0.0108			8.013
2999.0	2960.6	2.477	41.4727		259.5	21.20	1.406	32.9	0.0156	0.0117			8.019
3199.7	3157.3	2.389	42.3617	34.919	252.3	21.07	1.377	32.7	0.0171	0.0117			8.019
3399.6	3353.0	2.312	43.2418	34.914	255.5	20.92	1.373	33.5	0.0199	0.0166			8.018
3548.6	3498.8	2.218	43.9000	34.911	255.7	21.08	1.372	35.3	0.0138	0.0137			8.015
3699.1	3645.9	2.146	44.5598	34.900	255.5	21.36	1.442	37.2	0.0144	0.0098			8.013
3849.5	3792.8	1.882	45.2361	34.876	251.3	22.51	1.510	47.2	0.0392	0.0235			8.002
3999.5	3939.3	1.477	45.9228	34.833	243.8	25.07	1.690	65.0	0.0048	0.0049			7.979
4199.1	4134.0	0.930	46.8363	34.774	243.5	28.45	1.929	90.8	0.0034	0.0029			7.943
4399.4	4329.3	0.341	47.7582	34.717	223.4	31.76	2.168	114.4	0.0378	0.0254			7.910
4488.8	4416.4	0.186	48.1566	34.700	222.1	32.33	2.206	121.2	0.0629	0.0352			7.895

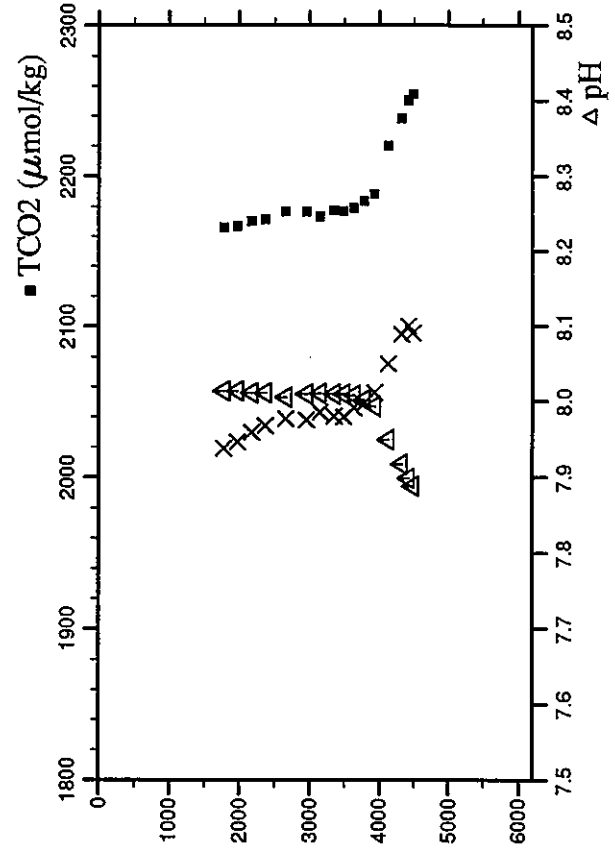
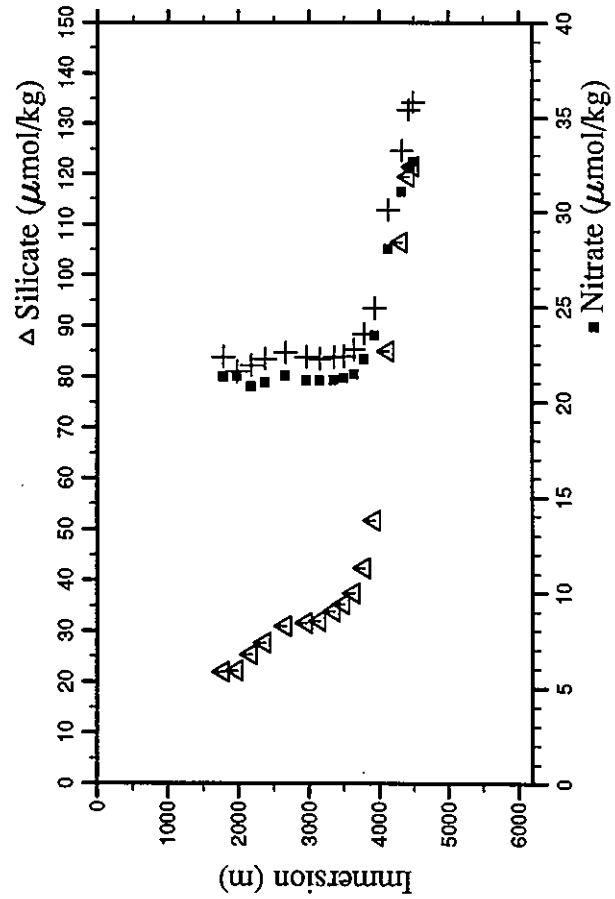
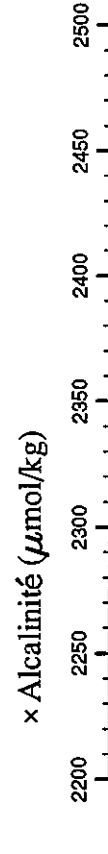
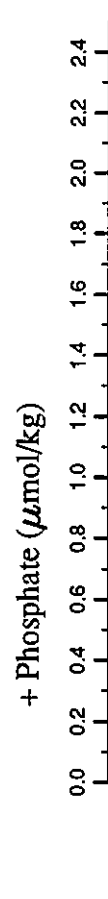
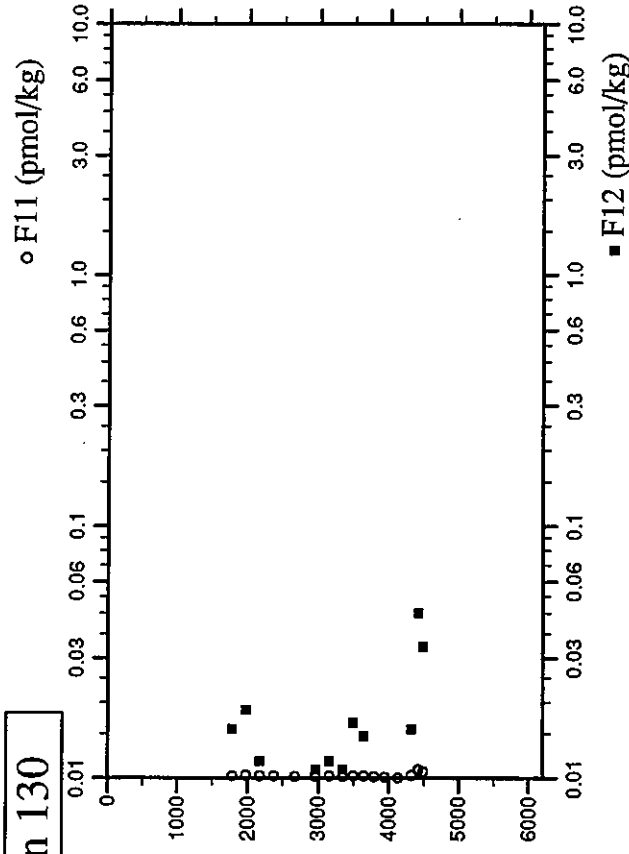
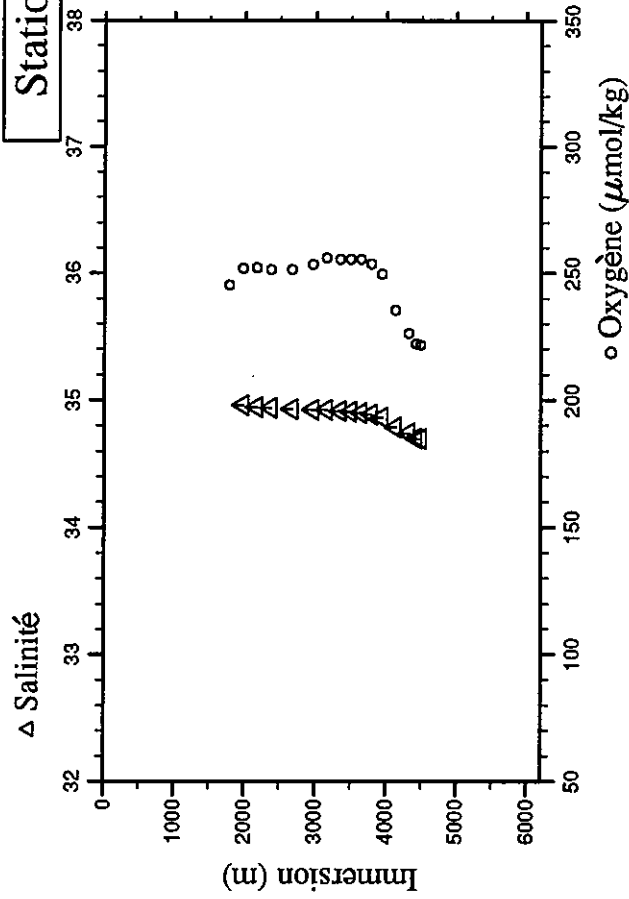
# Station 129



Station : 130 Campagne : CITHER 2  
 Date : 20-02-94 Heure : 14 h 17 mn  
 Position : S 13 16.90 W 34 30.07  
 Dernier niveau à : 4573  
 Nb prélèvements : 16

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
1800.8	1782.7	3.443	36.0368	34.940	245.3	21.33	1.396	21.9	0.0198	0.0156	2165.94	2331.4	8.014
2000.1	1979.1	3.222	36.9663	34.961	251.8	21.34	1.350	22.2	0.0286	0.0186	2166.83	2333.8	8.014
2199.5	2175.4	2.974	37.8820	34.948	252.1	20.81	1.369	25.4	0.0225	0.0117	2170.17	2337.7	8.012
2399.4	2372.0	2.854	38.7828	34.940	251.4	21.00	1.390	27.6	0.0181	0.0088	2171.40	2340.4	8.012
2699.4	2666.7	2.647	40.1320	34.931	251.3	21.39	1.411	31.0	0.0113	0.0078	2176.57	2343.1	8.006
2999.0	2960.6	2.515	41.4667	34.926	253.4	21.15	1.398	31.6	0.0126	0.0108	2176.35	2342.5	8.010
3200.4	3158.0	2.425	42.3603	34.925	256.0	21.11	1.391	32.0	0.0172	0.0117	2173.08	2345.6	8.011
3398.6	3352.0	2.290	43.2407	34.916	255.5	21.14	1.398	33.8	0.0149	0.0108	2177.35	2344.2	8.010
3548.0	3498.2	2.198	43.8994	34.912	255.3	21.25	1.400	35.2	0.0227	0.0166	2176.96	2343.9	8.010
3699.7	3646.5	2.117	44.5647	34.902	255.3	21.45	1.422	37.4	0.0199	0.0147	2178.84	2347.3	8.008
3848.4	3791.8	1.982	45.2204	34.889	253.6	22.23	1.474	42.4	0.0125	0.0088	2183.61	2349.1	8.002
3998.5	3938.3	1.773	45.8893	34.867	249.6	23.48	1.558	51.7	0.0075	0.0088	2188.10	2353.6	7.994
4198.1	4133.0	1.076	46.8181	34.790	235.3	28.03	1.880	85.0	0.0019	0.0068	2220.21	2364.9	7.950
4398.2	4328.1	0.554	47.7268	34.741	226.2	31.06	2.077	106.5	0.0257	0.0156	2238.30	2376.6	7.918
4499.2	4426.5	0.212	48.1980	34.702	222.2	32.27	2.212	119.4	0.0808	0.0450	2250.31	2379.9	7.899
4567.3	4492.8	0.144	48.4982	34.698	221.5	32.66	2.239	121.5	0.0621	0.0333	2254.56	2377.1	7.889

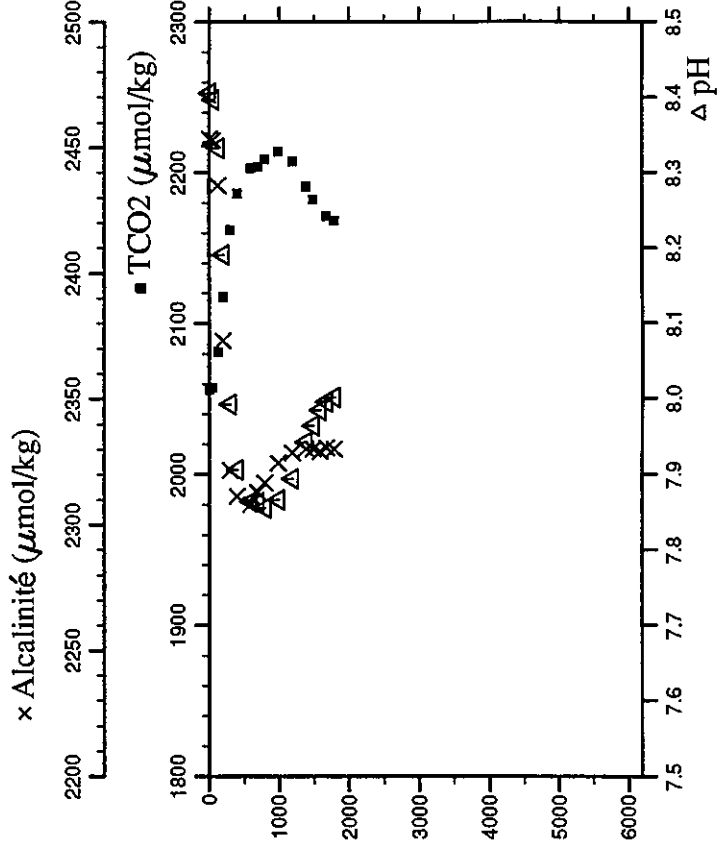
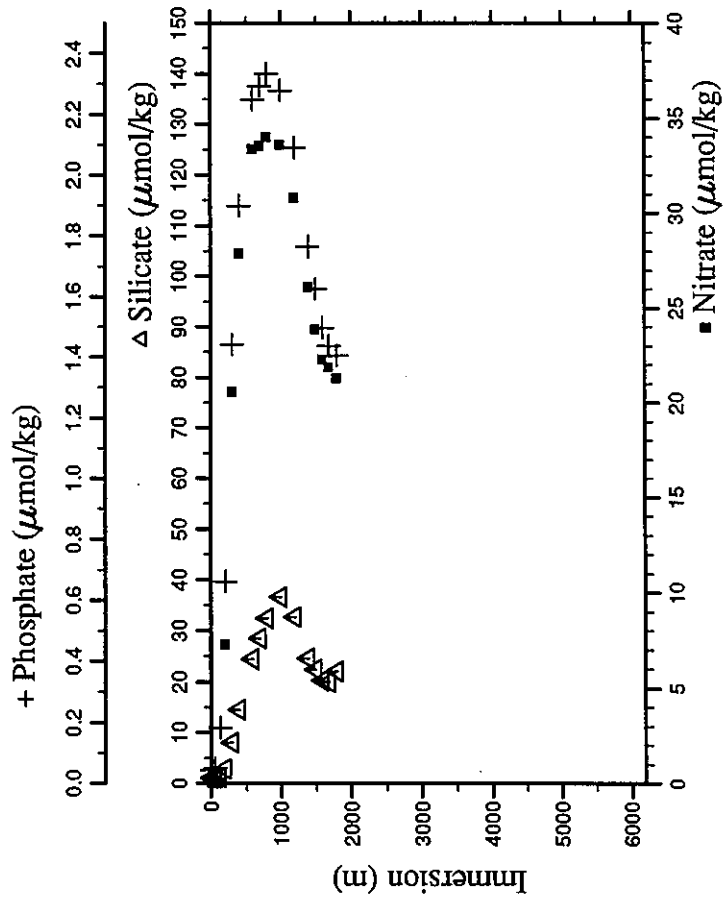
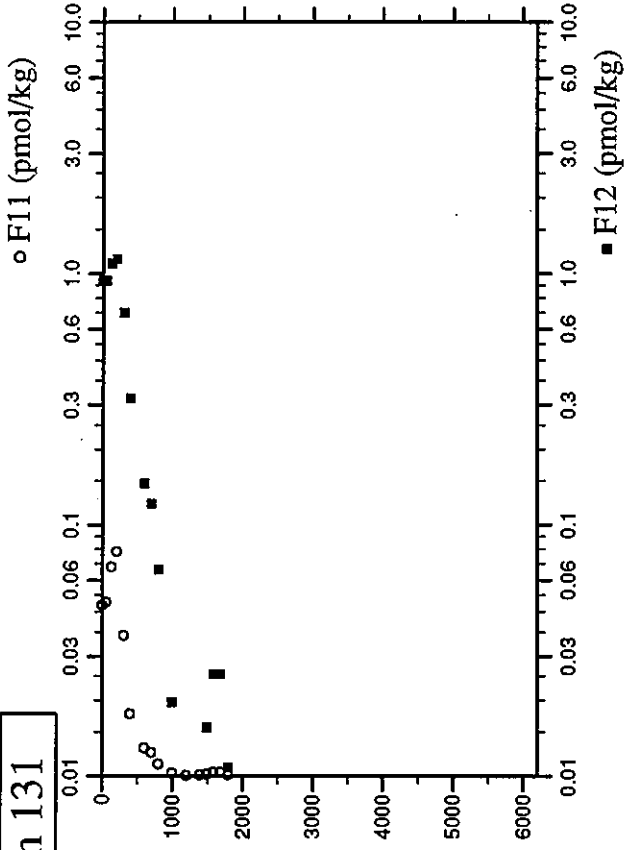
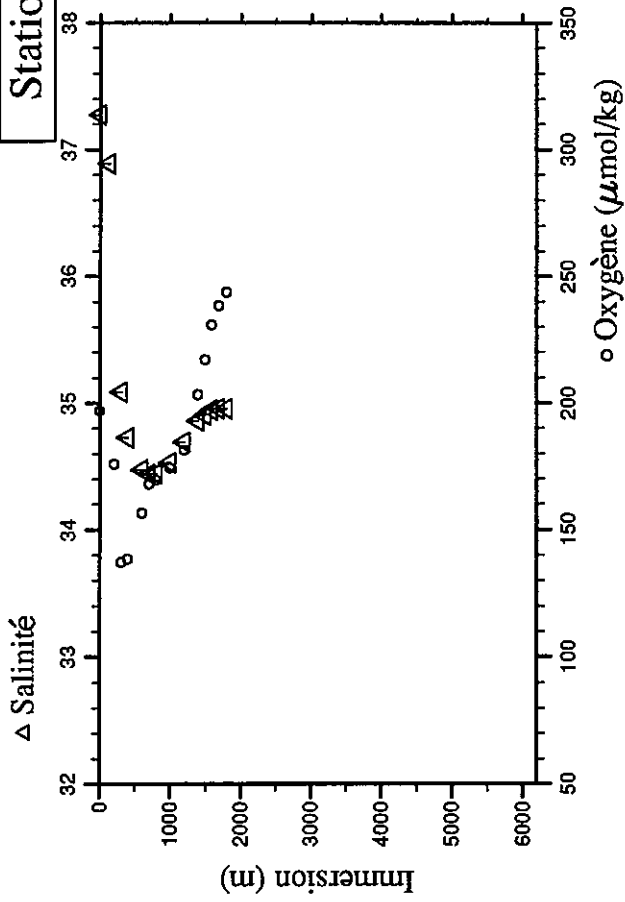
# Station 130



Station : 131 Campagne : CITHER 2  
 Date : 20-02-94 Heure : 18 h 35 mn  
 Position : S 13 16.91 W 34 29.97  
 Dernier niveau à : 1807  
 Nb prélèvements : 16

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.ce1s.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
2.1	2.1	28.616	23.9115	37.275	196.9	0.04	0.043	1.1	1.5832	0.9351	2056.21	2453.4	8.406
52.9	52.6	28.422	24.1795	37.257 r	198.1 r	0.04	0.049	1.1	1.6132	0.9342	2057.47	2452.8	8.397
126.7	125.9	23.864	25.6509	36.891	210.7 r	0.04	0.182	1.2	1.9411	1.0936	2081.25	2434.9	8.333
202.0	200.7	18.016	26.9116	35.985 r	175.9	7.29	0.662	2.9	2.0830	1.1402	2117.72	2373.2	8.191
302.9	300.9	11.910	28.0202	35.087	137.2	20.58	1.441	8.1	1.3097	0.6981	2162.08	2321.7	7.993
401.2	398.5	8.553	28.7910	34.729	138.5	27.87	1.900	14.6	0.5753	0.3188	2185.99	2311.3	7.907
600.2	595.9	5.517	29.9494	34.474	156.5	33.36	2.249	24.5	0.2646	0.1467	2202.98	2308.1	7.864
701.3	696.1	4.777	30.4780	34.439	168.0	33.51	2.293	28.5	0.2204	0.1213	2204.12	2312.8	7.863
801.0	794.8	4.302	30.9987	34.444	169.6	33.99	2.333	32.5	0.1140	0.0665	2208.93	2316.6	7.856
1000.9	992.7	3.804	32.0427	34.529	174.4	33.59	2.278	36.7	0.0290	0.0196	2214.28	2324.6	7.867
1201.3	1190.9	3.876	33.0667	34.691	181.4	30.80	2.090	32.7	0.0065	0.0039	2207.75	2328.6	7.895
1401.9	1389.1	4.091	34.0809	34.862	203.3	26.11	1.765	24.6	0.0143	0.0098	2190.77	2330.1	7.943
1500.9	1486.9	4.010	34.5708	34.907	217.0	23.86	1.625	22.4	0.0211	0.0156	2182.54	2330.2	7.965
1600.5	1585.2	3.901	35.0659	34.946	230.7	22.28	1.497	20.2	0.0367	0.0254	2188.26 d	2329.2	7.985
1698.5	1681.9	3.760	35.5327	34.957	238.3	21.85	1.437	20.0	0.0352	0.0254	2171.22	2330.7	7.996
1807.4	1789.2	3.466	36.0601	34.954	243.6	21.30	1.405	22.0	0.0154	0.0108	2168.31	2330.0	8.002

# Station 131

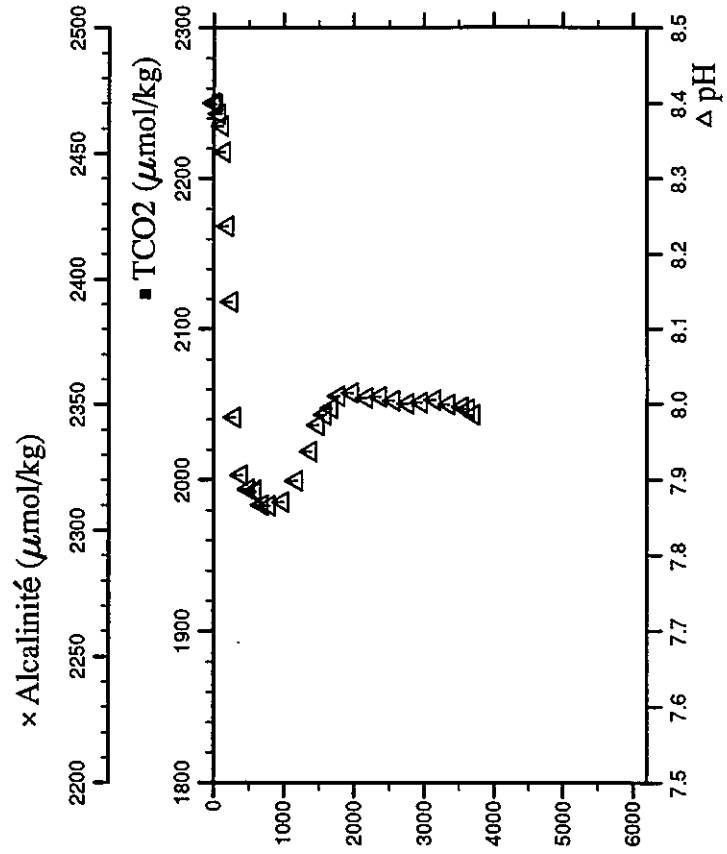
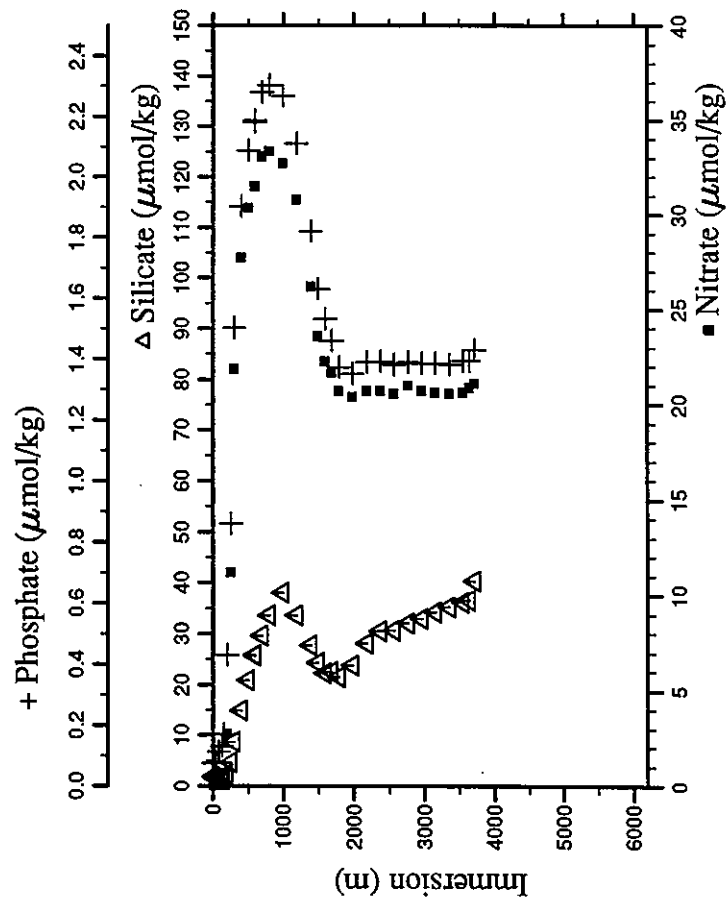
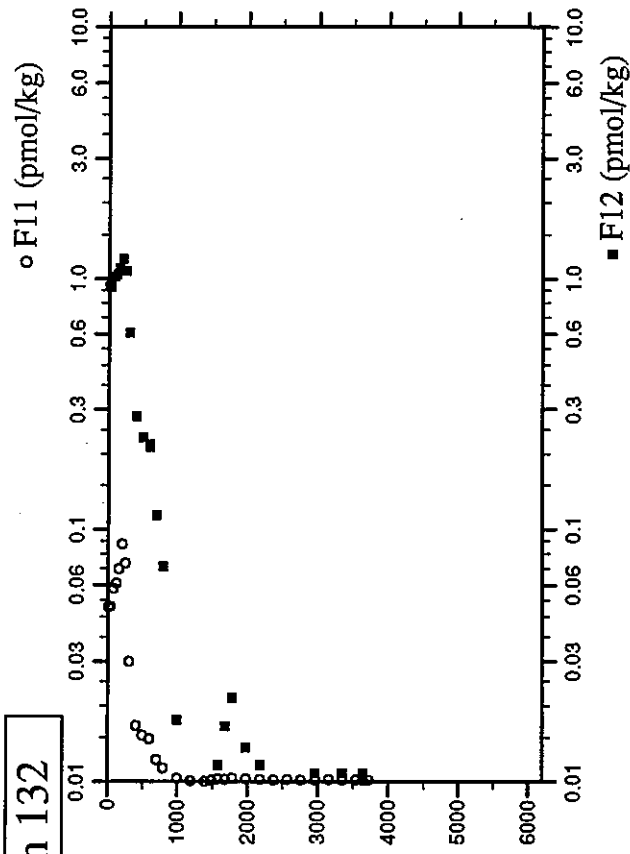
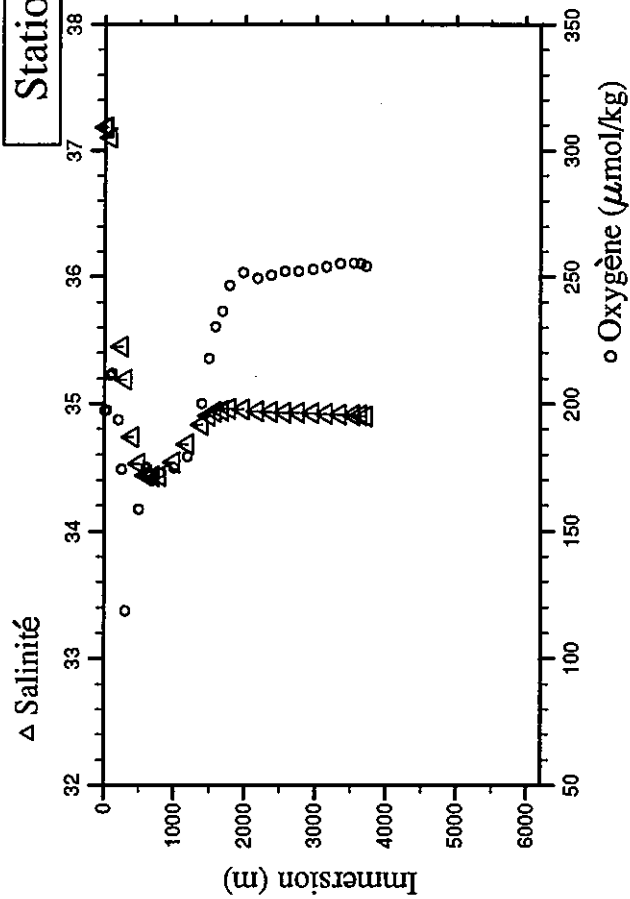




Station : 132 Campagne : CITHER 2  
 Date : 20-02-94 Heure : 23 h 17 mn  
 Position : S 13 18.09 W 34 0.62  
 Dernier niveau à : 3775  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- um/kg	PH
dbar	metres	deg.ceils.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.5	4.5	28.216	23.9868	37.185	197.1	0.04	0.074	1.8	1.6185	0.9323			8.401
31.8	31.6	28.194	24.1056	37.183	197.4	0.04	0.074	1.4	1.6204	0.9274			8.399
81.1	80.6	26.358	24.8492	37.104	211.2	0.04	0.113	1.4	1.7895	1.0134			8.386
121.4	120.7	25.208	25.5182	37.268	r 212.0	0.04	0.131	1.5	1.8346	1.0396			8.370
152.3	151.4	23.535	25.9150	36.981	r 248.8	r 0.04	0.170	1.5	1.9658	1.0994			8.335
201.5	200.2	18.866	26.7778	36.100	r 193.6	r 2.76	0.431	2.3	2.1958	1.1949			8.237
252.5	250.9	14.757	27.4816	35.451	174.4	11.21	0.861	4.6	2.0162	1.0684			8.136
302.9	300.9	12.390	28.0068	35.190	118.6	21.89	1.503	8.7	1.1104	0.6052			7.983
401.3	398.6	8.652	28.7877	34.740	133.7	r 27.72	1.904	14.9	0.5159	0.2826			7.907
500.5	497.0	6.493	29.4072	34.530	158.6	30.38	2.087	20.9	0.4290	0.2328			7.888
601.3	597.0	5.240	29.9642	34.440	175.2	31.50	2.187	25.8	0.4014	0.2132			7.886
601.6	597.3	5.238	29.9628	34.436	174.6	31.52	2.181	25.7	0.3941	0.2181			7.884
700.0	694.8	4.724	30.4782	34.432	169.9	33.10	2.280	29.7	0.2053	0.1135			7.867
800.3	794.1	4.272	30.9949	34.433	172.8	33.37	2.303	33.6	0.1257	0.0714			7.866
1000.5	992.3	3.827	32.0446	34.537	174.9	32.71	2.268	38.0	0.0320	0.0176			7.871
1197.9	1187.6	3.949	33.0432	34.683	179.2	30.81	2.112	33.6	0.0072	0.0020			7.899
1400.1	1387.4	3.929	34.0706	34.832	200.0	26.21	1.820	27.8	0.0026	0.0049			7.938
1500.4	1486.4	3.937	34.5769	34.905	217.7	23.58	1.630	24.3	0.0143	0.0068			7.973
1599.3	1584.0	3.828	35.0629	34.938	230.3	22.26	1.533	22.3	0.0246	0.0117			7.986
1700.0	1683.3	3.676	35.5431	34.946	236.3	21.68	1.461	22.5	0.0176	0.0166			7.995
1800.1	1782.0	3.549	36.0230	34.962	246.4	20.71	1.374	21.5	0.0344	0.0215			8.011
2000.2	1979.2	3.235	36.9599	34.957	251.7	20.40	1.352	23.8	0.0254	0.0137			8.015
2200.2	2176.1	2.995	37.8749	34.942	249.4	20.76	1.391	28.1	0.0208	0.0117			8.008
2400.1	2372.7	2.797	38.7877	34.937	250.5	20.76	1.392	30.5	0.0115	0.0068			8.010
2599.1	2568.2	2.711	39.6806	34.932	252.1	20.57	1.383	30.7	0.0187	0.0098			8.005
2799.3	2764.7	2.606	40.5762	34.929	252.0	21.03	1.390	32.1	0.0129	0.0078			8.001
2998.1	2959.7	2.520	41.4603	34.924	252.9	20.73	1.387	33.0	0.0141	0.0108			8.002
3198.6	3156.2	2.427	42.3495	34.922	253.8	20.65	1.386	34.2	0.0172	0.0068			8.006
3398.7	3352.1	2.323	43.2348	34.914	255.1	20.58	1.383	35.2	0.0140	0.0108			8.000
3598.9	3548.0	2.268	44.1087	34.912	255.5	20.66	1.394	36.1	0.0167	0.0088			7.996
3698.5	3645.3	2.241	44.5427	34.910	255.2	20.89	1.394	36.5	0.0153	0.0108			7.994
3775.1	3720.2	2.111	44.8866	34.900	254.1	21.13	1.430	40.3	0.0153	0.0068			7.986

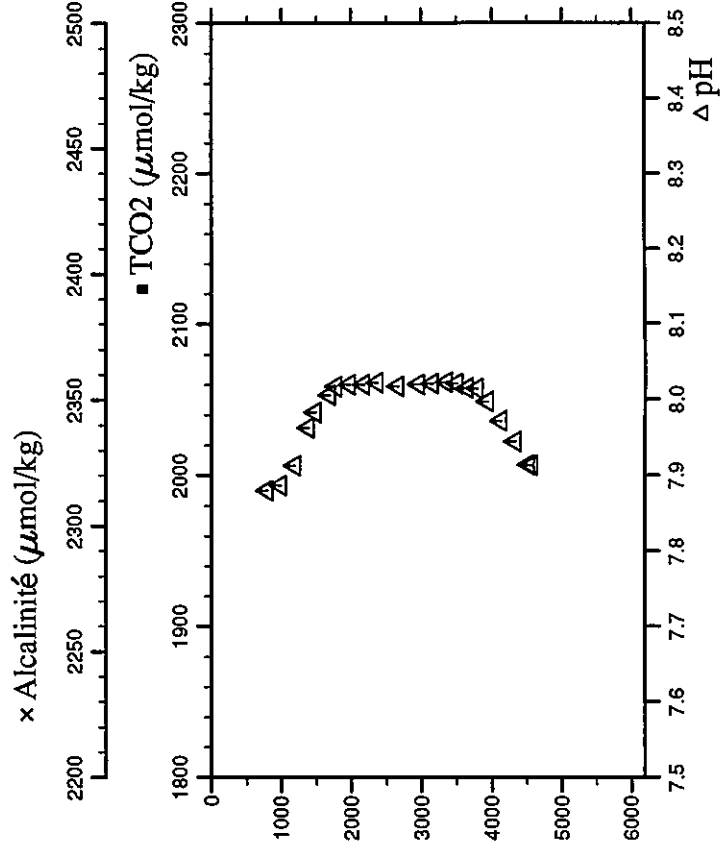
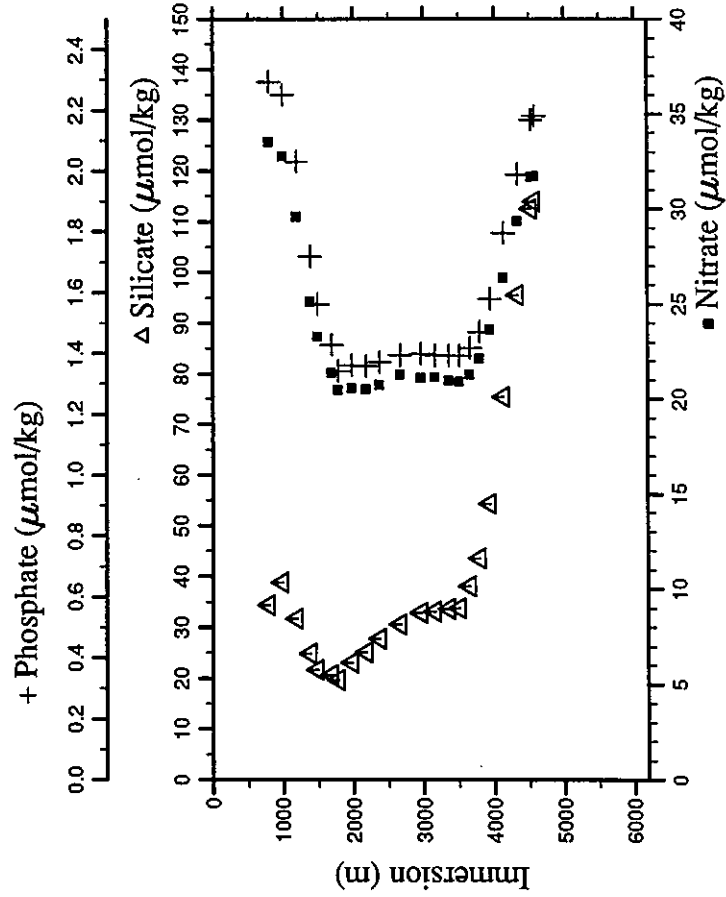
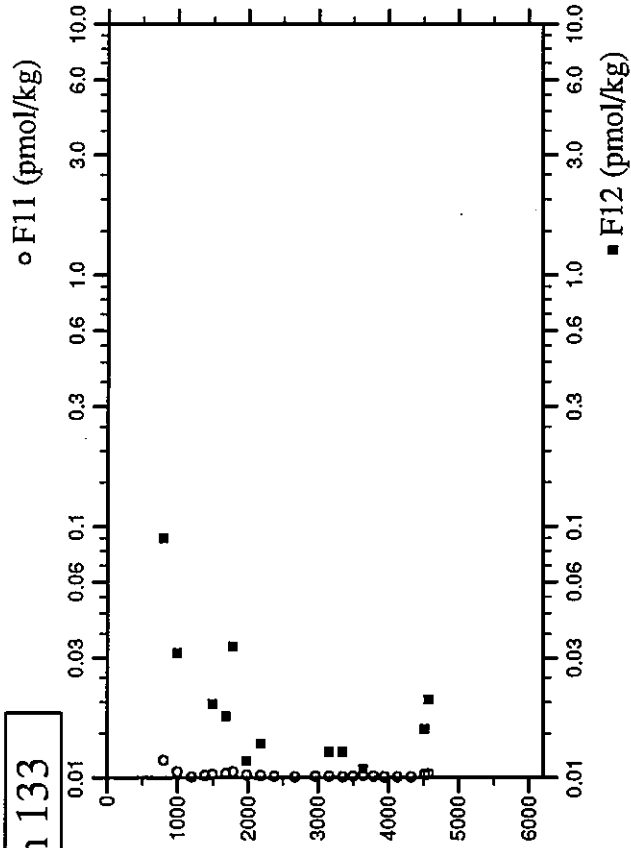
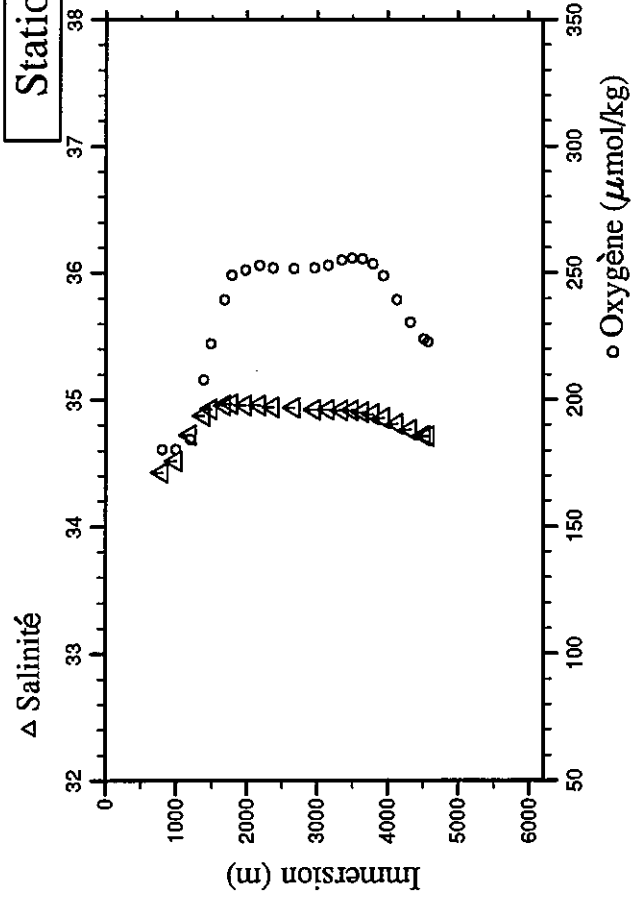
# Station 132



Station : 133 Campagne : CITHER 2  
 Date : 21-02-94 Heure : 4 h 57 mn  
 Position : S 13 19.19 W 33 31.34  
 Dernier niveau à : 4651  
 Nb prélèvements : 22

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
801.8	795.6	4.070	31.0155	34.427	180.4	33.54	2.293	34.4	0.1631	0.0900			7.880
998.6	990.5	3.690	32.0346	34.521	180.4	32.79	2.251	38.8	0.0536	0.0313			7.887
1201.2	1190.8	3.943	33.0829	34.720	184.6	29.60	2.031	31.7	0.0065	0.0068			7.913
1401.7	1388.9	4.027	34.0932	34.873	207.8	25.12	1.720	24.8	0.0194	0.0098			7.963
1501.0	1487.0	3.989	34.5872	34.925	222.2	23.30	1.563	21.7	0.0311	0.0196			7.984
1703.4	1686.7	3.695	35.5617	34.954	239.4	21.39	1.429	20.7	0.0354	0.0176			8.007
1801.0	1782.9	3.544	36.0371	34.968	249.0	20.46	1.342	19.6	0.0548	0.0332			8.018
2000.0	1979.0	3.236	36.9601	34.956	251.1	20.58	1.361	23.0	0.0250	0.0117			8.020
2200.5	2176.4	3.046	37.8784	34.954	252.8	20.50	1.359	25.1	0.0189	0.0137			8.020
2399.8	2372.4	2.869	38.7832	34.942	251.9	20.74	1.372	27.8	0.0167	0.0078			8.023
2700.2	2667.5	2.685	40.1327	34.934	251.6	21.29	1.395	30.6	0.0100	0.0059			8.018
2998.5	2960.1	2.527	41.4624	34.923	251.9	21.13	1.399	32.8	0.0117	0.0088			8.020
3200.7	3158.3	2.435	42.3594	34.920	253.0	21.16	1.395	33.1	0.0150	0.0127			8.021
3399.4	3352.8	2.361	43.2334	34.916	254.8	20.98	1.392	33.6	0.0105	0.0127			8.023
3549.2	3499.4	2.265	43.8957	34.917	255.6	20.90	1.393	33.7	0.0145	0.0088			8.021
3700.0	3646.8	2.116	44.5663	34.900	255.5	21.30	1.419	38.1	0.0183	0.0108			8.015
3850.0	3793.3	1.969	45.2288	34.884	253.4	22.13	1.471	43.5	0.0112	0.0088			8.014
3999.0	3938.8	1.707	45.8967	34.857	248.8	23.65	1.579	54.3	0.0101	0.0098			7.997
4199.6	4134.5	1.263	46.8035	34.810	239.4	26.37	1.795	75.4	0.0051	0.0039			7.972
4398.6	4328.5	0.798	47.7062	34.762	230.6	29.37	1.988	95.5	0.0074	0.0039			7.945
4598.6	4523.3	0.363	48.6076	34.716	224.0	31.68	2.168	112.5	0.0342	0.0156			7.914
4649.3	4572.6	0.314	48.8288	34.713	222.8	31.73	2.180	113.9	0.0362	0.0205			7.913

# Station 133

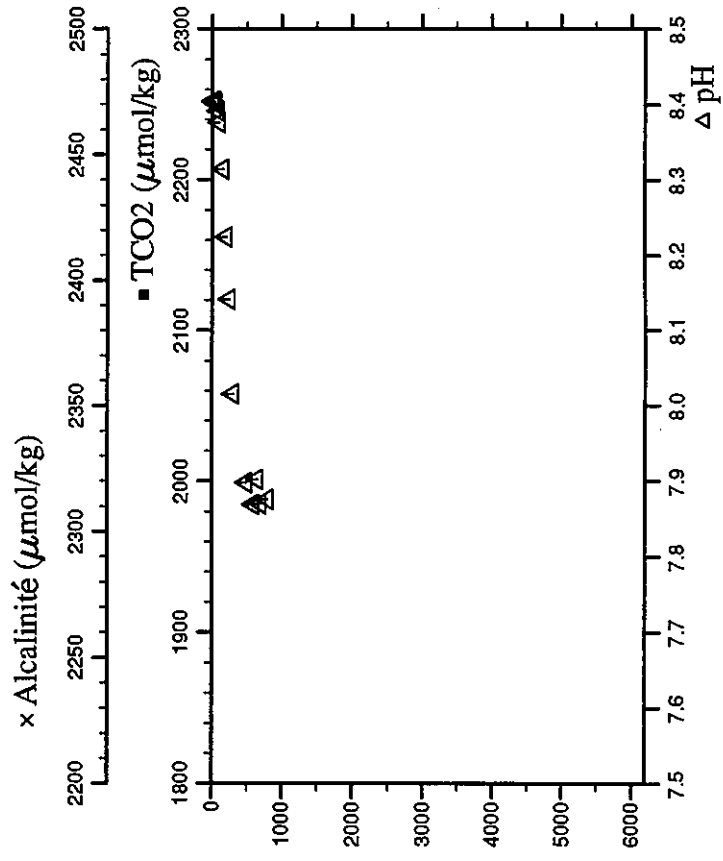
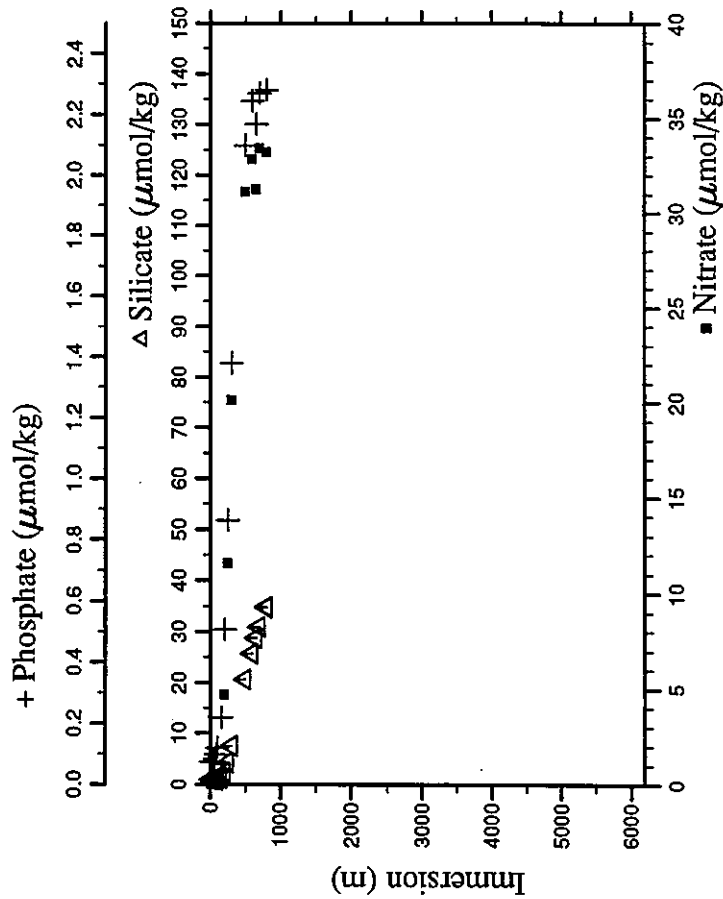
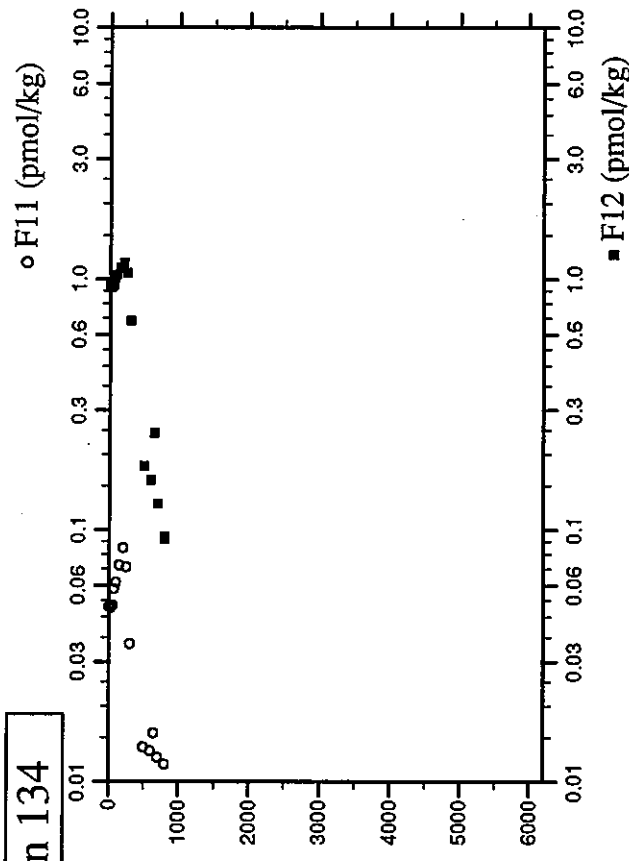
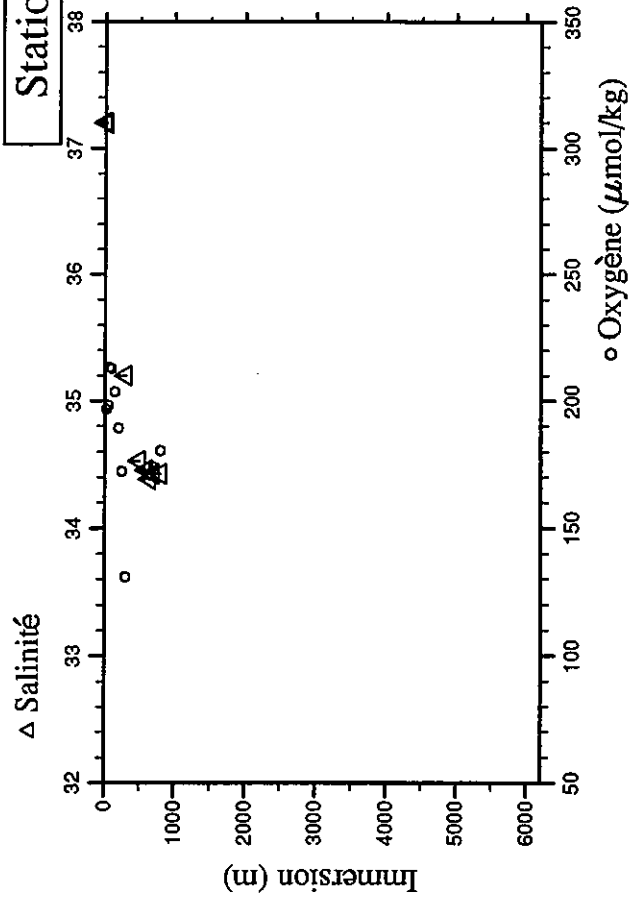


Δ pH

Station : 134 Campagne : CITHER 2  
 Date : 21-02-94 Heure : 10 h 24 mn  
 Position : S 13 19.08 W 33 31.34  
 Dernier niveau à : 809  
 Nb prélèvements : 16

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg. cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
0.8	0.8	28.200	23.9860	37.202	202.0	0.04	0.075	1.0	1.6188	0.9342			8.404
30.1	29.9	28.201	24.1080	37.200	196.8	0.04	0.075	1.0	1.6109	0.9264			8.404
49.7	49.4	28.189	24.1952	37.204	198.1	0.04	0.075	0.9	1.6313	0.9430			8.401
75.6	75.1	26.548	24.8428	37.220	213.3	0.04	0.099	0.9	1.7868	1.0084			8.391
100.8	100.2	25.405	25.3219	37.265	212.8	0.04	0.120	1.0	1.8479	1.0416			8.376
150.6	149.7	23.040	25.9966	36.759	203.6	0.16	0.219	1.2	2.0078	1.1073			8.314
200.2	198.9	17.867	26.9031	35.919	189.2	4.72	0.507	2.3	2.1675	1.1598			8.224
249.6	248.0	14.909	27.4519	35.458	172.3	11.57	0.863	4.2	1.9875	1.0615			8.141
301.0	299.0	12.650	27.9505	35.199	130.9	20.11	1.381	7.6	1.2795	0.6804			8.016
499.9	496.4	6.401	29.4123	34.531	156.6	31.11	2.099	20.7	0.3218	0.1800			7.898
601.4	597.1	5.308	29.9655	34.459	161.8	32.86	2.245	25.7	0.2882	0.1575			7.869
650.3	645.5	4.532	30.2337	34.388	193.1	31.24	2.168	28.8	0.4502	0.2436			7.902
701.7	696.5	4.519	30.5020	34.425	174.0	33.42	2.269	30.9	0.2300	0.1272			7.870
802.6	796.4	4.067	31.0207	34.425	180.5	33.23		34.7	0.1620	0.0939			7.876
802.8	796.6	4.067	31.0216	34.425	180.5	33.22	2.281	34.9	0.1632	0.0920			7.876

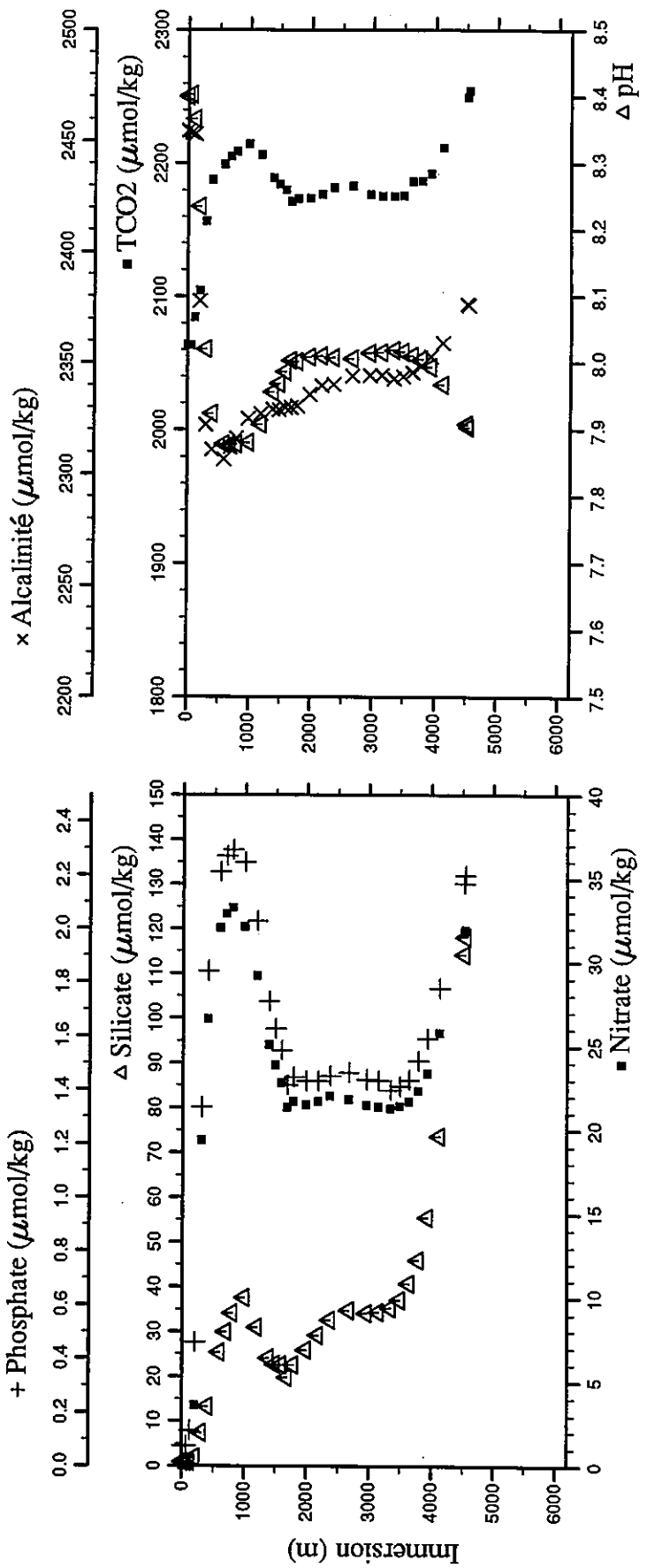
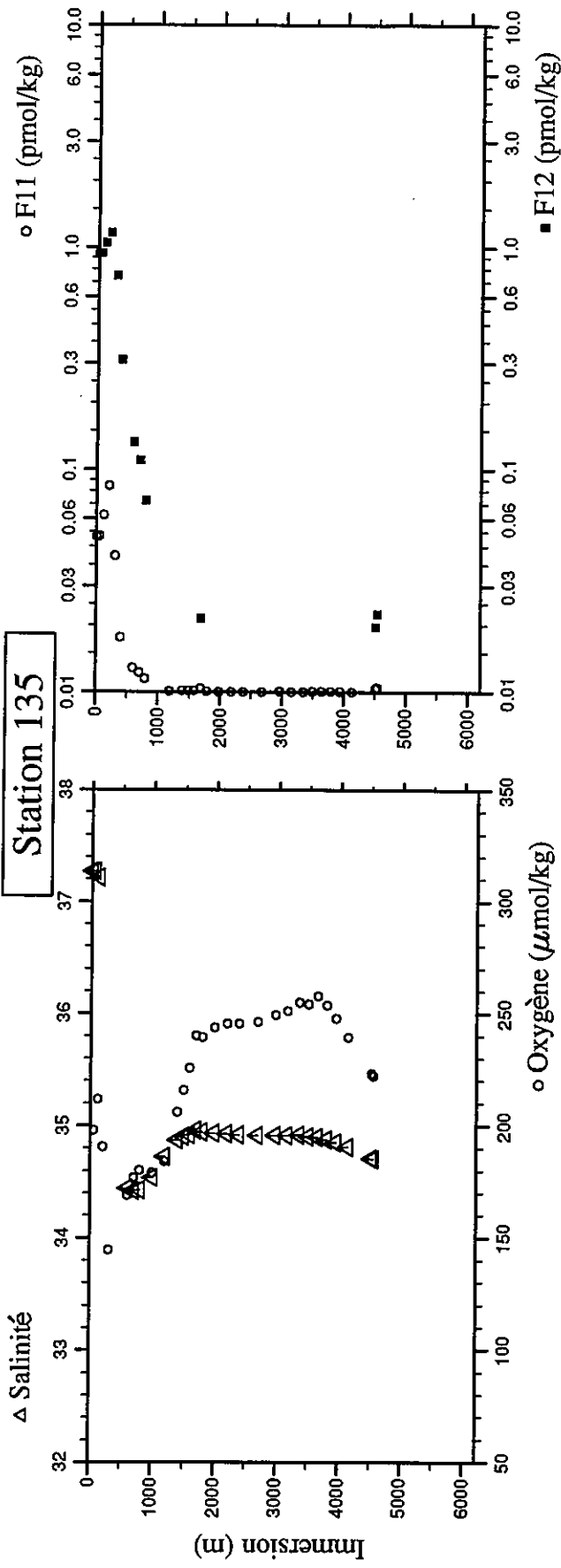
# Station 134



Station : 135 Campagne : CITHER 2  
 Date : 21-02-94 Heure : 14 h 35 mn  
 Position : S 13 20.60 W 33 1.95  
 Dernier niveau à : 4624  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
3.3	3.3	28.172	24.0609	37.270	198.4	0.04	0.075	1.0	1.6252	0.9381	2063.54	2454.6	8.401
55.6	55.3	28.167	24.2814	37.270	198.0	0.04	0.075	0.9	1.6325	0.9391	2063.28	2453.6	8.403
118.8	118.1	24.960	25.5337	37.215	211.8	0.04	0.132	1.0	1.8517	1.0445	2084.50	2453.1	8.367
199.2	18.499	26.8166	26.8166	36.041	190.6	3.60	0.460	2.0	2.1625	1.1617	2104.31	2378.0	8.235
302.0	300.0	12.349	27.9657	35.125	144.5	19.38	1.336	7.4	1.4267	0.7460	2156.41	2322.2	8.021
400.1	397.4	9.220	28.7339	34.795	130.6	26.62	1.841	13.3	0.5718	0.3120	2187.86	2311.0	7.924
600.1	595.8	5.178	29.9715	34.443	169.0	32.03	2.212	25.3	0.2515	0.1321	2199.25	2306.7	7.879
700.9	695.7	4.515	30.4969	34.421	176.9	32.89	2.272	29.9	0.2045	0.1096	2205.28	2312.1	7.878
800.7	794.5	4.052	31.0196	34.428	180.1	33.24	2.296	34.1	0.1362	0.0724	2209.04	2316.0	7.879
1000.1	991.9	3.720	32.0562	34.537	179.2	32.10	2.249	37.5			2214.38	2324.9	7.881
1200.5	1190.1	3.947	33.0863	34.726	184.2	29.19	2.028	31.0	0.0063	0.0000	2206.45	2327.1	7.908
1400.6	1387.8	4.061	34.0881	34.873	206.0	25.09	1.729	24.1	0.0163	0.0078	2189.09	2329.0	7.957
1499.8	1485.8	3.966	34.5741	34.904	215.8	23.86	1.627	22.7	0.0137	0.0068	2184.53	2328.8	7.969
1601.0	1585.7	3.760	35.0702	34.923	225.7	22.82	1.548	22.5	0.0109	0.0078	2180.14	2329.9	7.987
1700.4	1683.7	3.749	35.5478	34.960	240.2	21.36	1.419	19.7	0.0373	0.0215	2171.31	2329.9	8.004
1799.5	1781.4	3.496	36.0165	34.944	239.3	21.68	1.447	22.5	0.0082	0.0049	2173.58	2330.7	8.002
2001.1	1980.1	3.176	36.9597	34.937	243.7	21.48	1.432	25.9	0.0021	0.0039	2173.94	2335.6	8.009
2200.4	2176.3	2.939	37.8772	34.929	245.5	21.68	1.433	29.1	0.0029	0.0049	2176.76	2339.7	8.011
2400.0	2372.6	2.744	38.7859	34.919	245.4	22.04	1.452	32.6	0.0000	0.0010	2181.77	2340.2	8.008
2708.6	2675.7	2.579	40.1740	34.914	246.3	21.84	1.465	34.8	0.0033	0.0059	2183.10	2344.1	8.007
2998.6	2960.2	2.472	41.4668	34.916	249.2	21.49	1.439	34.1	0.0064	0.0049	2176.79	2344.4	8.015
3199.2	3156.8	2.396	42.3547	34.915	251.0	21.38	1.436	34.4	0.0045	0.0039	2175.74	2344.3	8.016
3397.4	3350.8	2.319	43.2298	34.919	254.8	21.30	1.400	35.2	0.0030	0.0049	2175.40	2342.9	8.019
3547.9	3498.1	2.226	43.8920	34.906	254.1	21.41	1.413	37.0	0.0079	0.0020	2175.98	2343.8	8.017
3698.8	3645.6	2.099	44.5625	34.898	257.8	21.70	1.438	40.7	0.0084	0.0068	2186.46	2345.7	8.011
3847.8	3791.2	1.937	45.2222	34.882	253.7	22.33	1.509	45.9	0.0053	0.0068	2186.83	2348.6	8.006
3999.1	3938.9	1.702	45.8984	34.857	247.8	23.39	1.593	55.5	0.0060	0.0039	2192.59	2352.8	7.994
4196.0	4131.0	1.280	46.7873	34.812	239.5	25.80	1.778	73.7	0.0037	0.0010	2211.84	2358.9	7.968
4598.8	4523.4	0.316	48.6154	34.711	223.1	31.73	2.170	114.2	0.0395	0.0196	2276.3	2376.3	7.908
4599.0	4523.6	0.321	48.6159	34.713	223.5	31.78	2.170	118.2	0.0494	0.0225	2254.54	2375.9	7.904
4622.4	4546.4	0.240	48.7223	34.706	222.2	31.94	2.200						

# Station 135

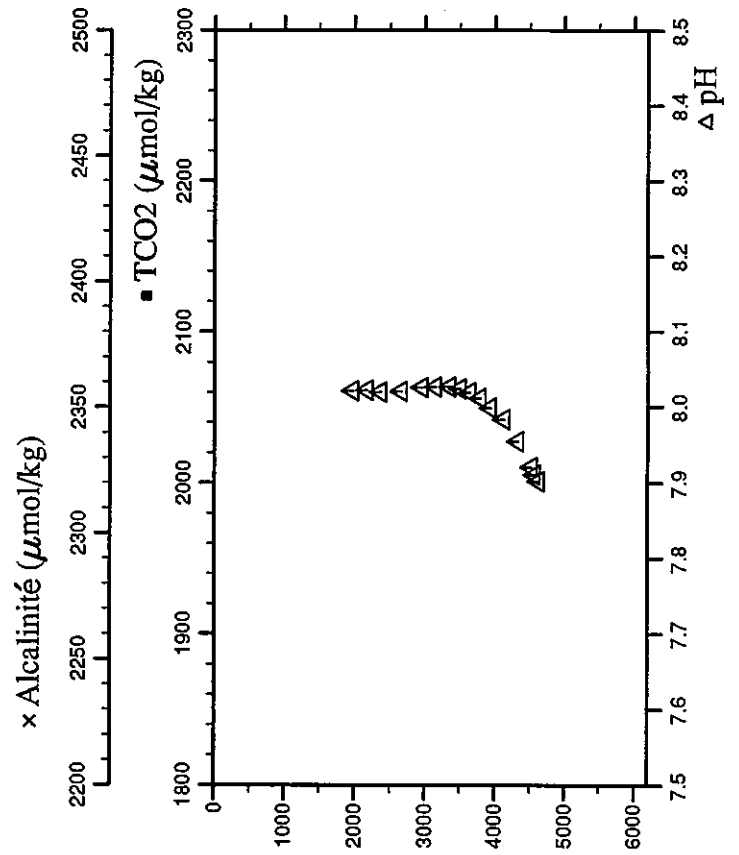
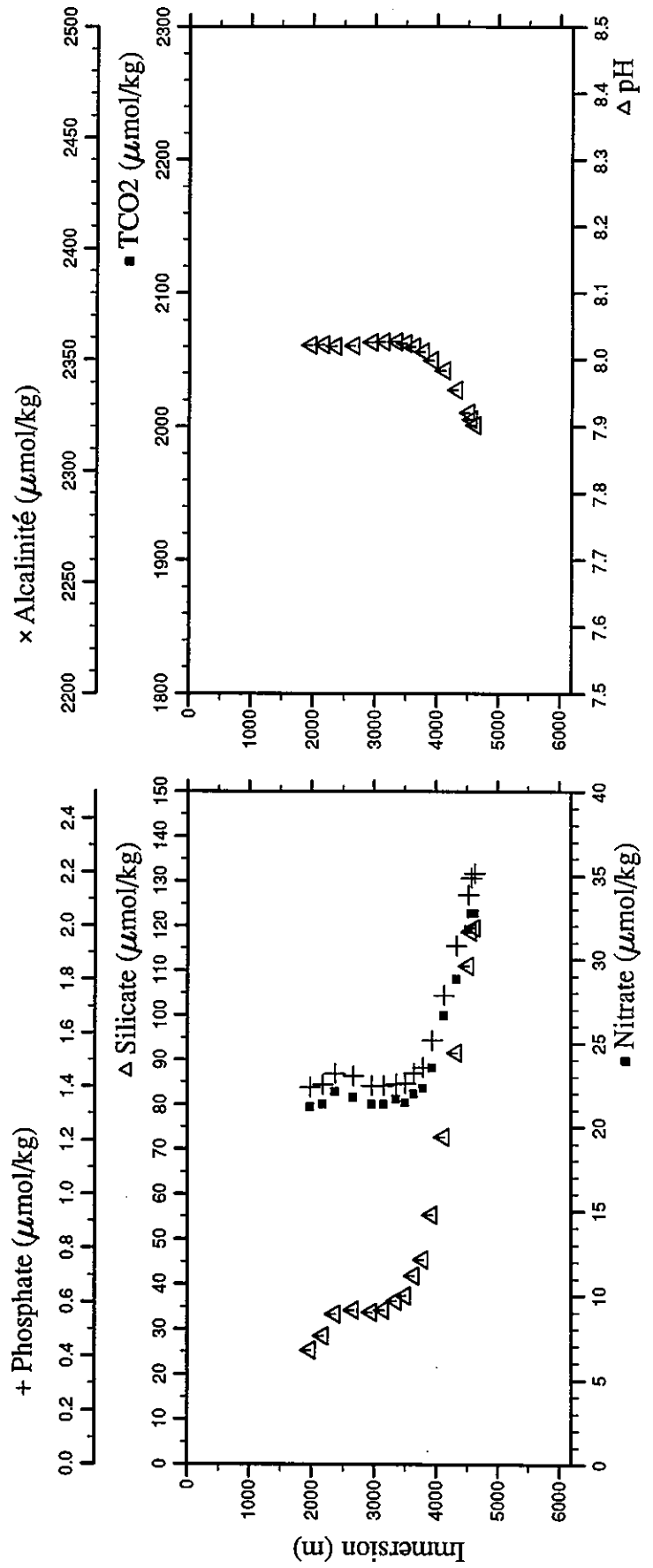
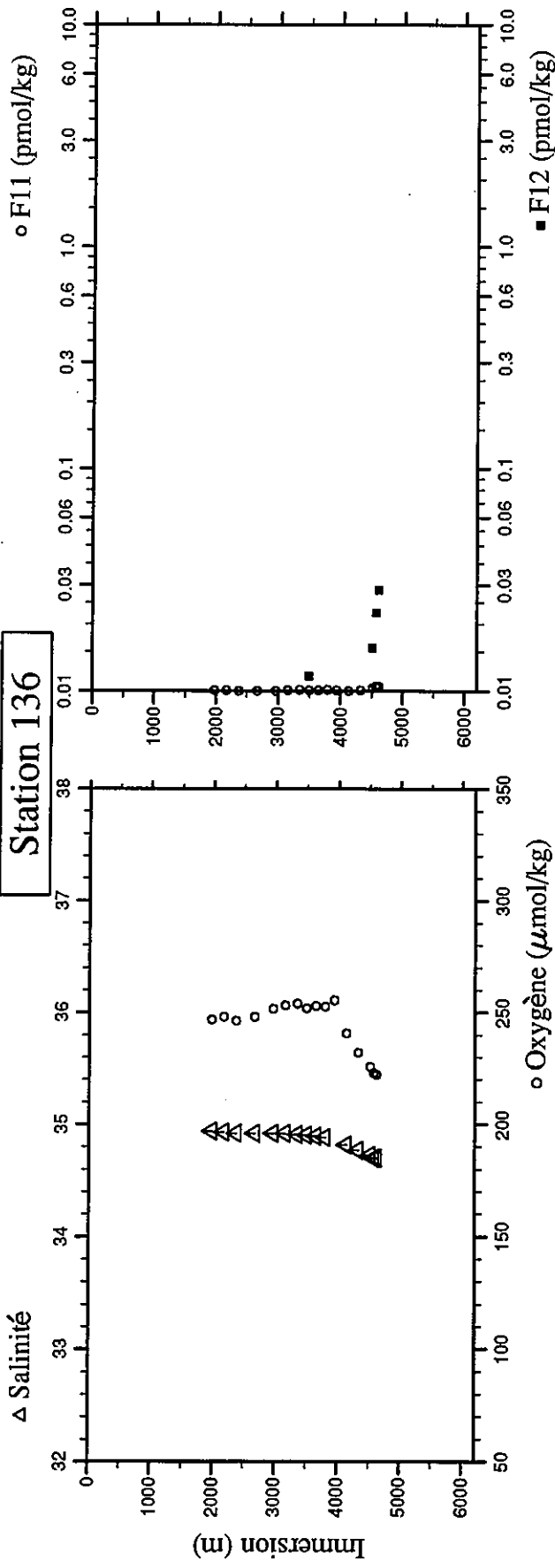




Station : 136 Campagne : CITHER 2  
 Date : 21-02-94 Heure : 20 h 47 mn  
 Position : S 13 21.58 W 32 32.95  
 Dernier niveau à : 4705  
 Nb prélèvements : 16

PRESSION CHIMIE	IMMERSTION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
1999.9	1978.9	3.189	36.9542	34.939	246.9	21.18	1.397	25.3	0.0097	0.0068			8.022
2197.3	2173.2	2.953	37.8639	34.932	248.1	21.34	1.407	28.5	0.0100	0.0059			8.023
2401.0	2373.6	2.733	38.7914	34.920	246.3	22.09	1.448	33.4	0.0001	0.0010			8.020
2699.0	2666.3	2.599	40.1294	34.919	248.1	21.77	1.439	34.2	0.0010	0.0000			8.021
2999.8	2961.4	2.491	41.4688	34.923	251.6	21.34	1.403	33.7	0.0049	0.0098			8.026
3198.2	3155.8	2.412	42.3479	34.919	253.1	21.34	1.403	34.3	0.0064	0.0078			8.027
3401.0	3354.4	2.298	43.2455	34.912	253.9	21.66	1.410	36.3	0.0112	0.0059			8.027
3550.3	3500.4	2.197	43.9053	34.904	251.9	21.46	1.412	37.4	0.0092	0.0117			8.024
3698.6	3645.4	2.055	44.5627	34.896	252.9	21.97	1.451	41.9	0.0085	0.0049			8.019
3848.6	3792.0	1.933	45.2247	34.884	252.6	22.29	1.472	45.4	0.0109	0.0078			8.012
3999.6	3939.4	1.708	45.8972		255.3	23.52	1.573	55.4	0.0053	0.0049			7.999
4196.8	4131.8	1.338	46.7833	34.820	240.6	26.64	1.741	72.7	0.0040	0.0010			7.984
4399.0	4328.9	0.921	47.6927	34.775	232.1	28.81	1.924	91.6	0.0095	0.0039			7.955
4598.1	4522.8	0.413	48.5975	34.727	225.7	31.79	2.115	111.0	0.0325	0.0156			7.921
4649.4	4572.7	0.226	48.8390	34.704	222.9	32.75	2.179	118.6	0.0479	0.0225			7.911
4702.8	4624.7	0.189	49.0702	34.700	222.2	32.75	2.196	119.6	0.0482	0.0284			7.902

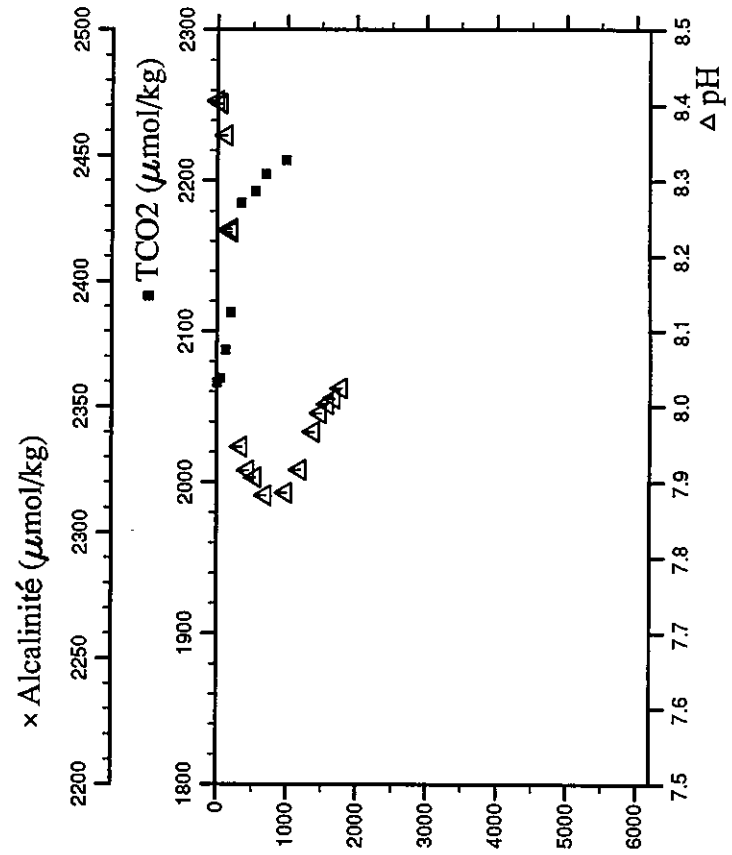
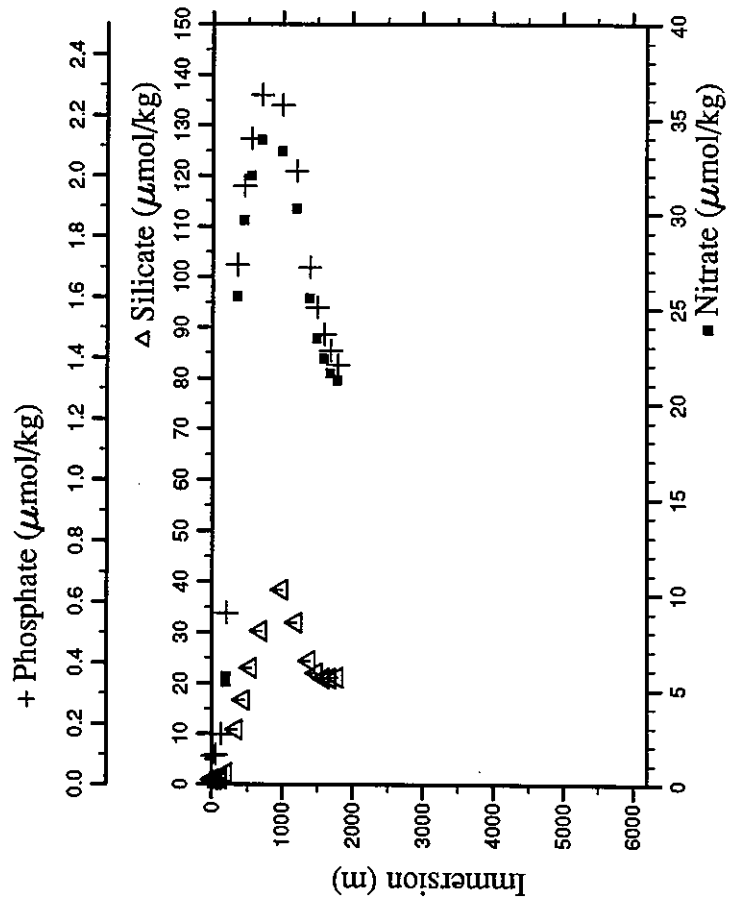
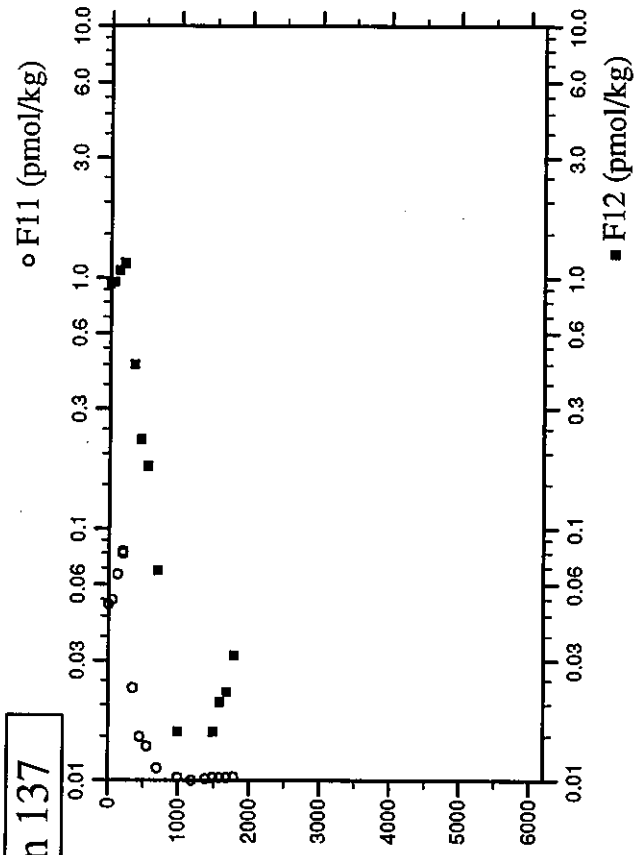
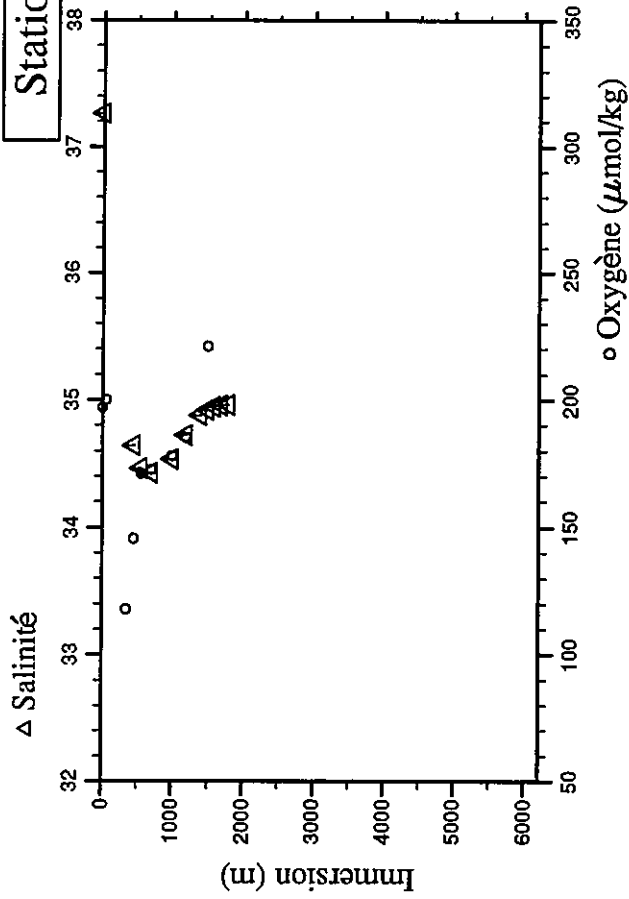
# Station 136



Station : 137 Campagne : CITHER 2  
 Date : 22-02-94 Heure : 1 h 8 mn  
 Position : S 13 21.66 W 32 32.83  
 Dernier niveau à : 1800  
 Nb prélèvements : 16

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT. NITE	ALCALI-	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
2.3	2.3	27.999	24.1102	37.265	197.0	0.04	0.093	0.9	1.6359	0.9420	2065.88		8.406
50.8	50.5	27.895	24.3564	37.259	200.1	0.04	0.099	0.9	1.6752	0.9654	2068.61		8.402
125.6	124.8	24.145	25.7070	37.074	222.8	r	0.167	1.1	1.9126	1.0720	2087.43		8.360
199.2	198.0	18.617	26.8433	36.102	238.0	r	0.568	2.2	2.1006	1.1372	2112.96		8.232
199.2	198.0	18.617	26.8433	36.112	181.8	r	0.565	2.1	2.1278	1.1499	2112.38		8.236
351.2	348.9	10.430	28.3991	34.949	117.8	r	1.707	10.9	0.8549	0.4508	2185.14		7.947
449.8	446.7	7.658	29.0879	34.641	145.7	r	1.966	16.7	0.4077	0.2269	2198.90	d	7.916
555.8	551.8	5.588	29.7265	34.462	171.0	r	2.123	23.1	0.3191	0.1770	2192.90		7.907
701.6	696.4	4.552	30.4979	34.426	172.5	r	2.267	30.3	0.1168	0.0685	2204.28		7.886
999.0	990.8	3.720	32.0470	34.533	177.9	r	2.234	38.4	0.0255	0.0156	2213.52		7.886
1199.4	1189.0	3.910	33.0784	34.720	185.3	r	2.015	32.0	0.0034	0.0000			7.917
1399.8	1387.1	4.020	34.0931	34.878	220.2	r	1.697	24.5	0.0120	0.0059			7.967
1499.5	1485.5	3.965	34.5848	34.923	221.1	r	1.567	22.1	0.0243	0.0156			7.991
1601.3	1586.0	3.860	35.0733	34.945	291.0	r	1.478	21.0	0.0275	0.0205			8.003
1700.0	1683.3	3.690	35.5480	34.954	277.5	r	1.425	21.0	0.0283	0.0225			8.011
1800.4	1782.3	3.547	36.0234	34.961	271.9	r	1.377	21.1	0.0323	0.0313			8.024

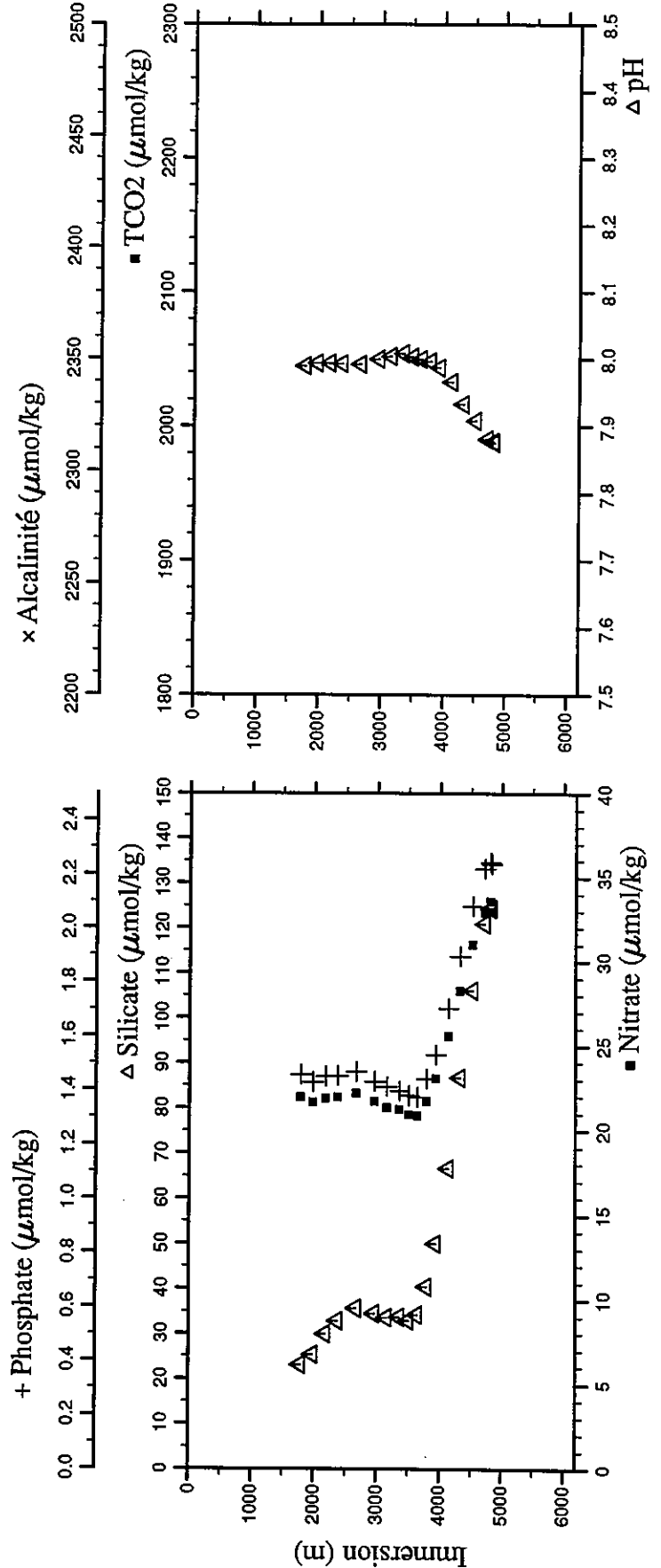
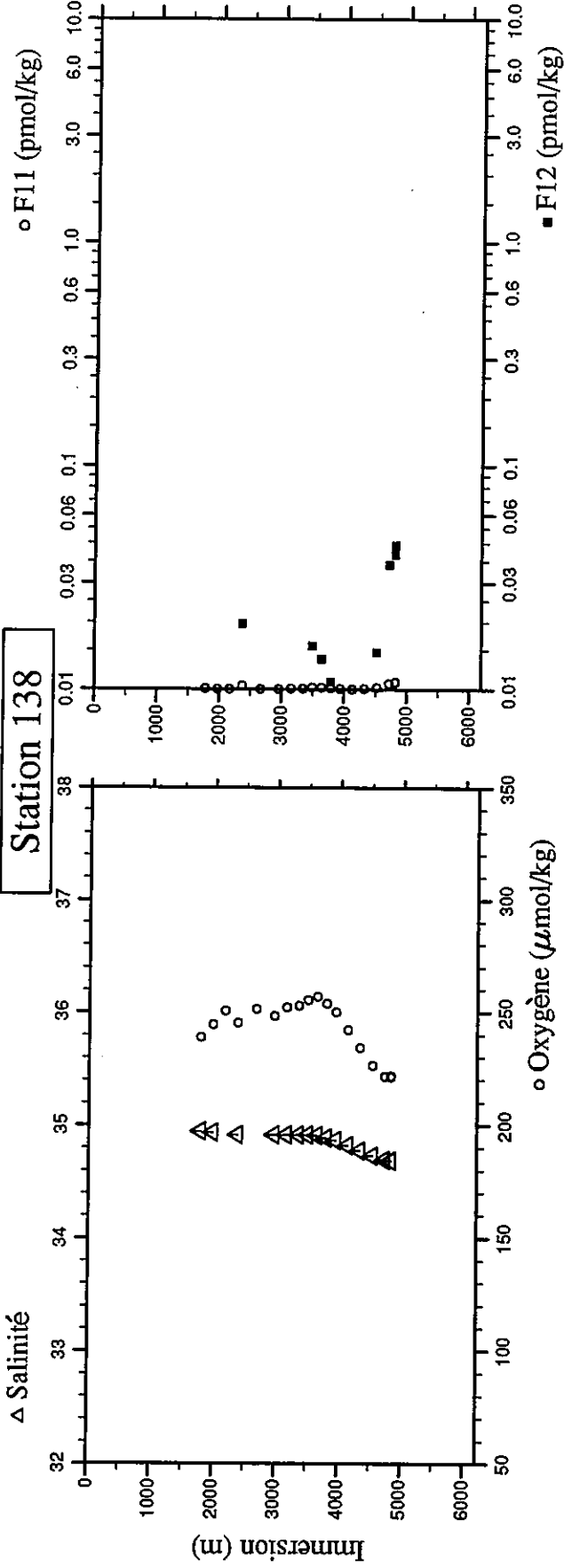
# Station 137



Station : 138 Campagne : CITHER 2  
 Date : 22-02-94 Heure : 5 h 40 mn  
 Position : S 13 22.79 W 32 3.30  
 Dernier niveau à : 4914  
 Nb prélèvements : 18

PRESSION CHIMIE	IMMERSION metres	TEMP. POT. SONDE	deg. cels.	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	um/kg	PHOSPHATE	um/kg	SILICATE	F11	pmol/kg	F12	pmol/kg	CARBONE INORG. TOT.	um/kg	ALCALI- NITE	um/kg	pH
1800.0	1781.9	3.494	36.0149	34.946	238.9	21.97	um/kg	1.456	um/kg	23.0	0.0083	0.0049	0.0083	0.0049	um/kg	7.990				
1999.3	1978.3	3.169	36.9508	34.938	244.6	21.66	um/kg	1.429	um/kg	25.4	0.0048	0.0010	0.0048	0.0010	um/kg	7.994				
2198.6	2174.5	2.911	37.8673	34.914	250.6	21.89	um/kg	1.449	um/kg	29.9	0.0037	0.0068	0.0037	0.0068	um/kg	7.994				
2399.5	2372.1	2.733	38.7834	34.914	245.3	21.97	um/kg	1.453	um/kg	32.9	0.0373	0.0196	0.0373	0.0196	um/kg	7.993				
2700.6	2667.9	2.567	40.1355	34.914	251.4	22.21	um/kg	1.466	um/kg	35.6	0.0010	0.0020	0.0010	0.0020	um/kg	7.992				
2997.5	2959.1	2.491	41.4557	34.914	248.2	21.73	um/kg	1.431	um/kg	34.5	0.0008	0.0039	0.0008	0.0039	um/kg	8.000				
3198.3	3155.9	2.418	42.3470	34.917	252.2	21.34	um/kg	1.411	um/kg	33.6	0.0075	0.0078	0.0075	0.0078	um/kg	8.004				
3399.8	3353.2	2.356	43.2325	34.915	252.9	21.26	um/kg	1.396	um/kg	33.7	0.0106	0.0078	0.0106	0.0078	um/kg	8.008				
3550.0	3500.1	2.288	43.8946	34.915	255.4	20.95	um/kg	1.381	um/kg	33.0	0.0175	0.0156	0.0175	0.0156	um/kg	8.003				
3699.4	3646.2	2.178	44.5552	34.909	256.9	20.87	um/kg	1.374	um/kg	34.2	0.0186	0.0137	0.0186	0.0137	um/kg	8.000				
3848.7	3792.0	2.018	45.2158	34.891	254.0	21.73	um/kg	1.442	um/kg	40.5	0.0161	0.0108	0.0161	0.0108	um/kg	7.996				
3998.9	3938.7	1.784	45.8877	34.868	250.0	23.08	um/kg	1.530	um/kg	50.0	0.0104	0.0078	0.0104	0.0078	um/kg	7.987				
4200.9	4135.8	1.416	46.7930	34.826	242.2	25.58	um/kg	1.702	um/kg	66.7	0.0032	0.0020	0.0032	0.0020	um/kg	7.966				
4397.5	4327.4	0.970	47.6811	34.780	234.3	28.26	um/kg	1.895	um/kg	86.8	0.0085	0.0059	0.0085	0.0059	um/kg	7.933				
4599.9	4524.5	0.513	48.5950	34.732	226.4	31.03	um/kg	2.082	um/kg	106.1	0.0221	0.0147	0.0221	0.0147	um/kg	7.908				
4799.9	4719.1	0.102	49.4963	34.696	221.7	32.90	um/kg	2.222	um/kg	120.9	0.0618	0.0362	0.0618	0.0362	um/kg	7.881				
4897.8	4814.3	0.044	49.9199	34.693	221.3	33.60	um/kg	2.245	um/kg	124.4	0.0721	0.0401	0.0721	0.0401	um/kg	7.878				
4910.8	4827.0	0.044	49.9753	34.686	221.9	33.00	um/kg	2.239	um/kg	124.4	0.0774	0.0440	0.0774	0.0440	um/kg	7.876				

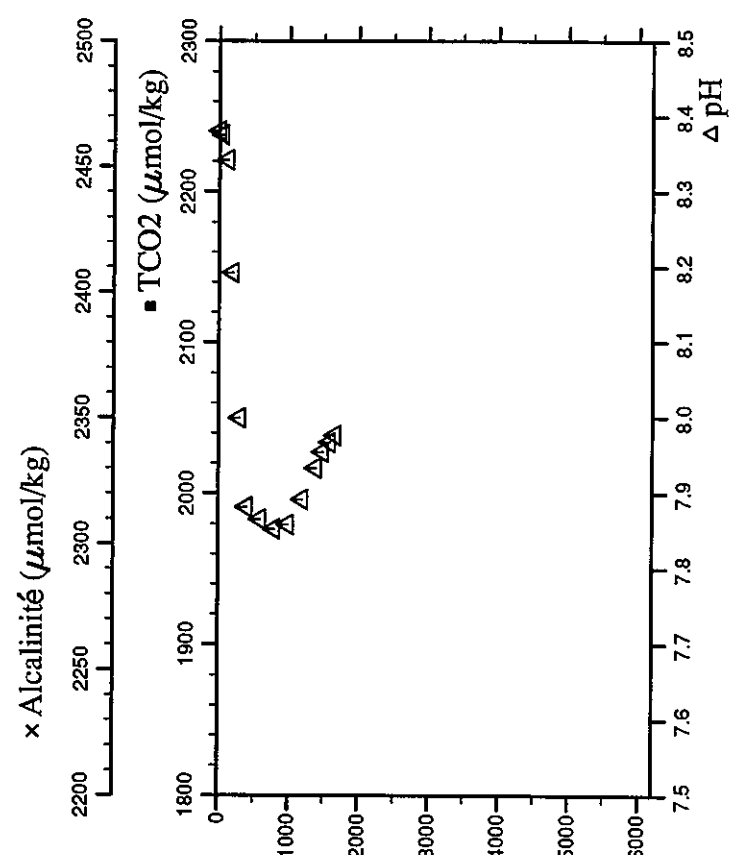
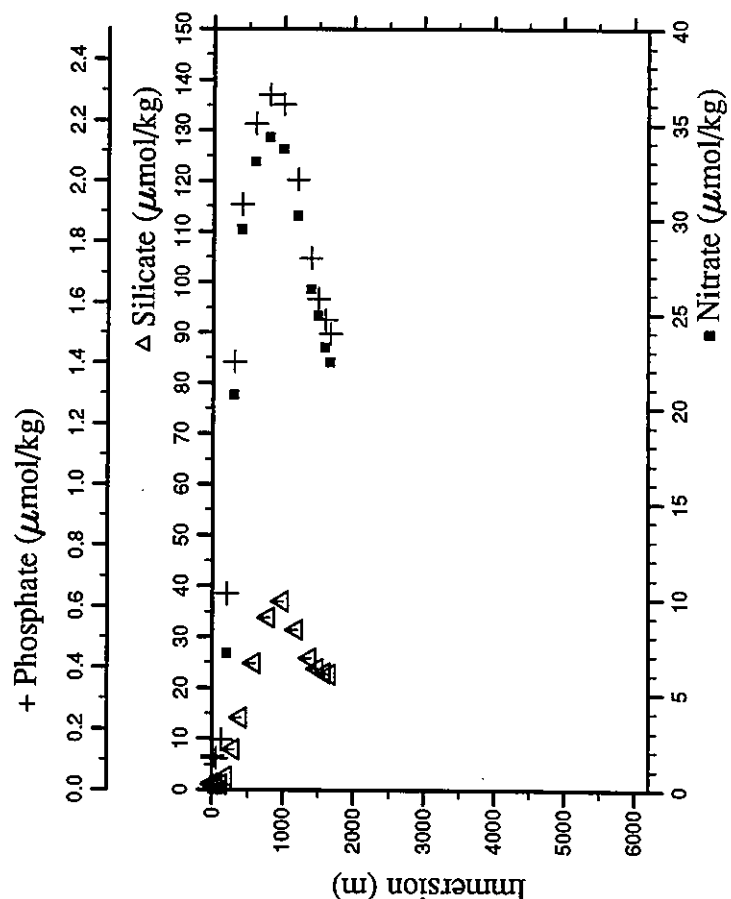
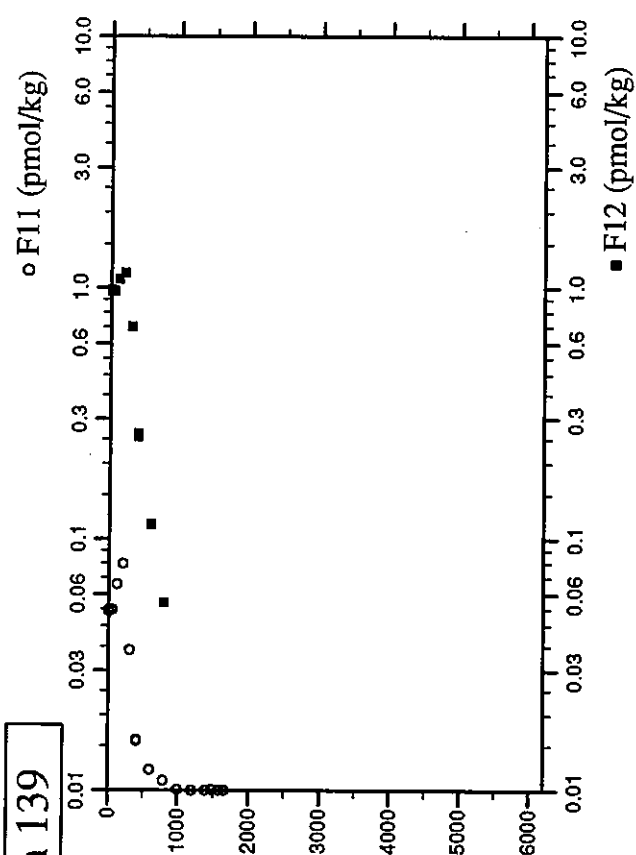
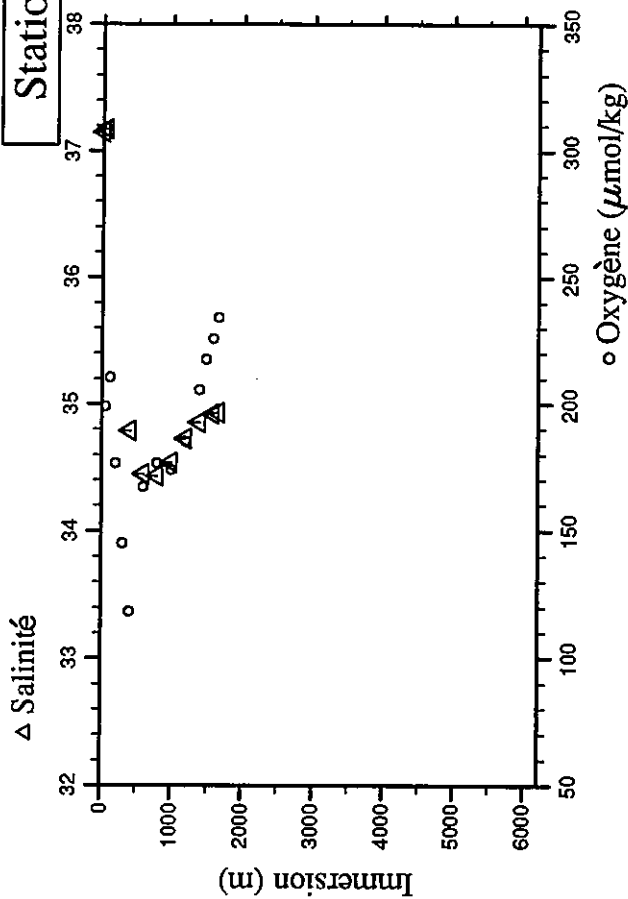
# Station 138



Station : 139 Campagne : CITHER 2  
 Date : 22-02-94 Heure : 10 h 30 mn  
 Position : S 13 22.73 W 32 3.40  
 Dernier niveau à : 1742  
 Nb prélèvements : 16

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	PH
dbar	metres	deg. cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.3	4.3	27.742	24.1125			0.04	0.110	1.2	1.6740	0.9782			8.380
5.5	5.5	27.738	24.1199	37.148	198.2	0.04	0.105	1.1	1.6582	0.9655			8.380
50.8	50.5	27.718	24.3369	37.173	198.9	0.04	0.102	1.1	1.6732	0.9713			8.375
122.0	121.3	24.350	25.6484	37.092	210.4	0.04	0.164	1.1	1.9135	1.0778			8.342
199.0	197.8	18.336	26.8472	36.905	176.6	7.14	0.643	2.6	2.1003	1.1441			8.192
300.5	298.5	12.166	27.9849		145.1	20.71	1.403	7.9	1.3039	0.6991			8.000
401.7	399.0	9.085	28.7510	34.790	118.4	29.47	1.922	14.1	0.4590	0.2552			7.882
402.3	399.6	9.085	28.7543			29.42	1.922	14.1	0.4714	0.2631			7.882
600.8	596.5	5.298	29.9625	34.450	167.2	33.00	2.190	24.8	0.1901	0.1144			7.866
800.5	794.3	4.128	31.0099	34.435	176.6	34.31	2.285	33.8	0.0934	0.0558			7.853
1000.2	992.0	3.787	32.0479	34.540	174.1	33.71	2.253	37.0	0.0086	0.0098			7.859
1202.2	1191.8	3.894	33.0960	34.726	185.3	30.17	2.005	31.4	0.0003	0.0000			7.892
1400.2	1387.4	3.898	34.0915	34.854	205.6	26.29	1.746	25.8	0.0009	0.0010			7.934
1498.8	1484.8	3.845	34.5781	34.907	217.5	24.93	1.613	23.8	0.0054	0.0049			7.955
1600.9	1585.6	3.722	35.0705	34.922	225.6	23.23	1.544	22.9	0.0021	0.0029			7.968
1676.6	1660.2	3.624	35.4353	34.932	234.1	22.44	1.497	22.7	0.0022	0.0088			7.977

**Station 139**

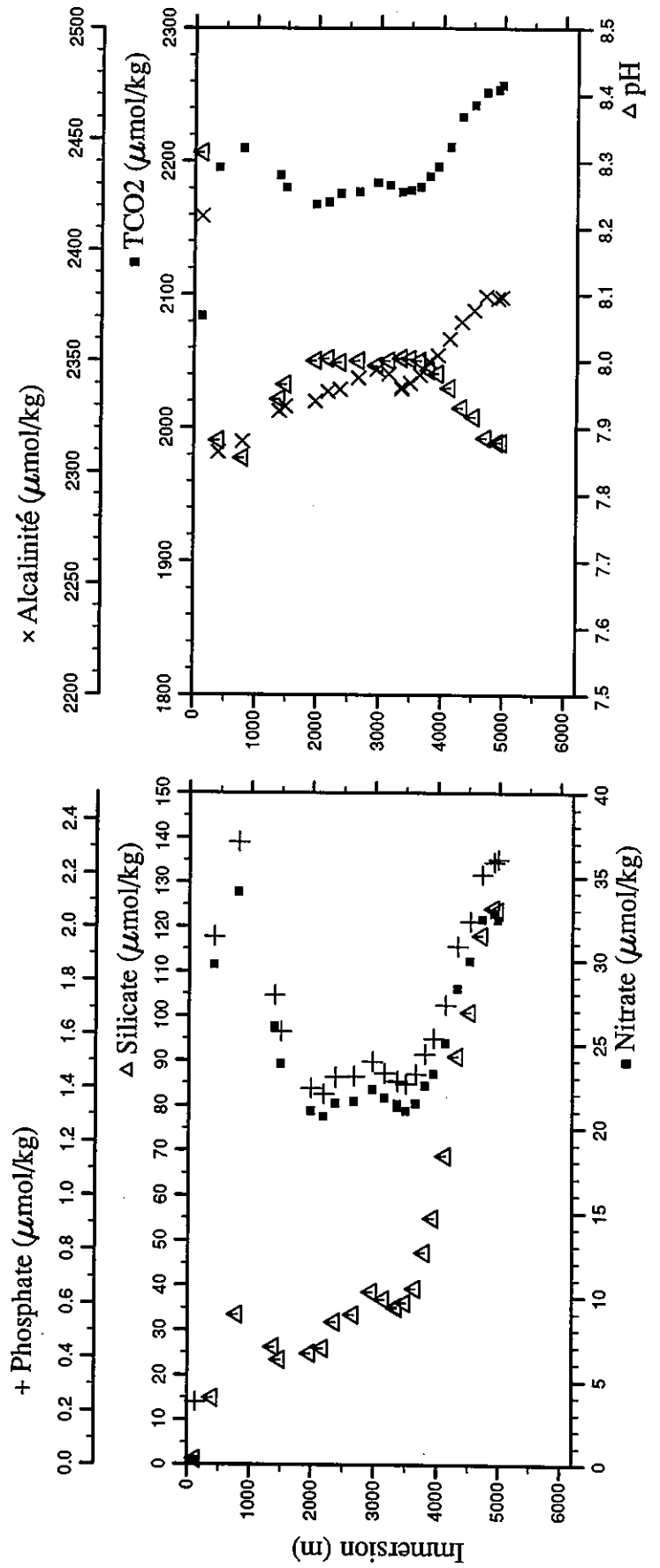
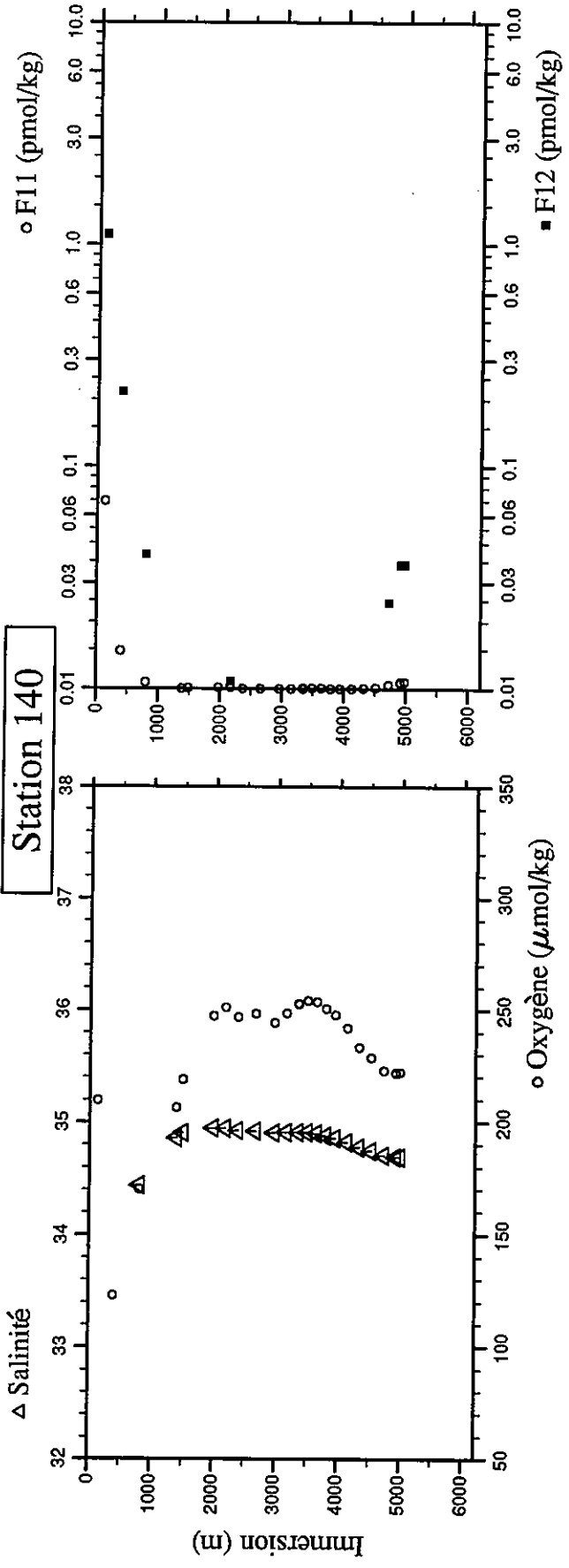




Station : 140 Campagne : CITHER 2  
 Date : 22-02-94 Heure : 16 h 38 mn  
 Position : S 13 24.01 W 31 34.12  
 Dernier niveau à : 5070  
 Nb prélèvements : 23

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
126.5	125.7	22.683	25.8403	36.657	209.6	0.28	0.233	1.2	1.9675	1.1074	2084.18	2415.4	8.313
400.0	397.3	8.690	28.7751	34.758	122.9	29.73	1.962	14.9	0.3935	0.2171	2195.37	2309.0	7.881
802.5	796.3	4.214	31.0181	34.440	170.2	34.08	2.317	33.5	0.0701	0.0401	2209.88	2313.8	7.855
1402.1	1389.3	3.891	34.1068	34.859	206.4	26.05	1.744	26.2	0.0009	-0.0010	2189.90	2327.6	7.943
1501.1	1487.1	3.882	34.5931	34.906	218.7	23.80	1.608	23.5	0.0104	0.0068	2180.57	2329.6	7.965
2000.0	1979.0	3.216	36.9551	34.947	247.4	21.03	1.397	24.8	0.0140	0.0078	2168.07	2331.9	8.001
2199.4	2175.3	3.009	37.8754	34.947	251.0	20.67	1.375	26.0	0.0112	0.0108	2169.56	2336.1	8.004
2398.7	2371.3	2.781	38.7778	34.924	246.7	21.45	1.440	31.8	0.0008	0.0039	2176.09	2337.2	7.998
2694.1	2661.5	2.643	40.1043	34.922	248.2	21.60	1.441	33.5	0.0032	0.0020	2177.16	2342.3	8.001
2999.8	2961.4	2.462	41.4646	34.904	244.3	22.31	1.497	38.6	0.0009	-0.0020	2184.36	2346.1	7.993
3199.6	3157.2	2.401	42.3512	34.911	248.5	21.80	1.454	36.9	0.0019	-0.0029	2182.19	2344.0	8.001
3399.2	3352.6	2.337	43.2329	34.913	252.9	21.27	1.422	35.0	0.0041	0.0029	2337.5	2337.5	8.005
3399.6	3353.0	2.336	43.2355	34.912	252.7	21.42	1.425	35.3	0.0054	0.0020	2177.47	2338.2	8.004
3542.9	3493.2	2.244	43.8697	34.909	254.1	21.02	1.415	36.2	0.0104	0.0078	2178.68	2340.0	8.003
3699.9	3646.7	2.120	44.5635	34.899	253.7	21.45	1.449	39.3	0.0067	0.0049	2181.23	2343.5	8.001
3852.2	3795.5	1.916	45.2409	34.879	250.7	22.51	1.524	47.4	0.0008	0.0000	2189.26	2349.8	7.986
3998.2	3938.0	1.735	45.8888	34.861	247.8	23.21	1.584	55.0	0.0041	0.0049	2196.24	2352.6	7.981
4199.0	4133.9	1.377	46.7895	34.822	242.0	25.05	1.708	68.8	0.0021	0.0039	2211.12	2359.9	7.960
4397.9	4327.8	0.937	47.6873	34.777	233.3	28.32	1.927	91.0	0.0052	0.0039	2233.44	2367.6	7.930
4598.8	4523.4	0.692	48.5724	34.750	228.7	29.97	2.021	100.9	0.0164	0.0078	2242.32	2372.9	7.917
4798.9	4718.1	0.226	49.4786	34.707	223.0	32.45	2.196	118.0	0.0436	0.0244	2252.01	2379.2	7.885
4999.0	4912.7	0.079	50.3467	34.691	221.9	32.80	2.243	124.1	0.0693	0.0362	2253.79	2378.1	7.879
5068.3	4980.0	0.058	50.6438	34.690	222.1	32.42	2.252	123.6	0.0720	0.0362	2257.20	2378.6	7.879

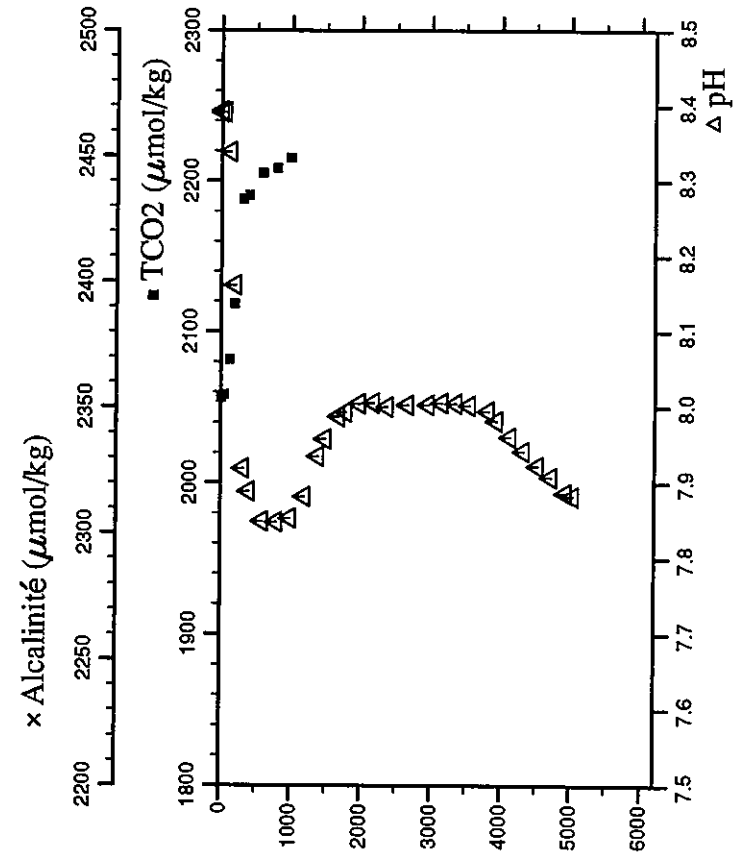
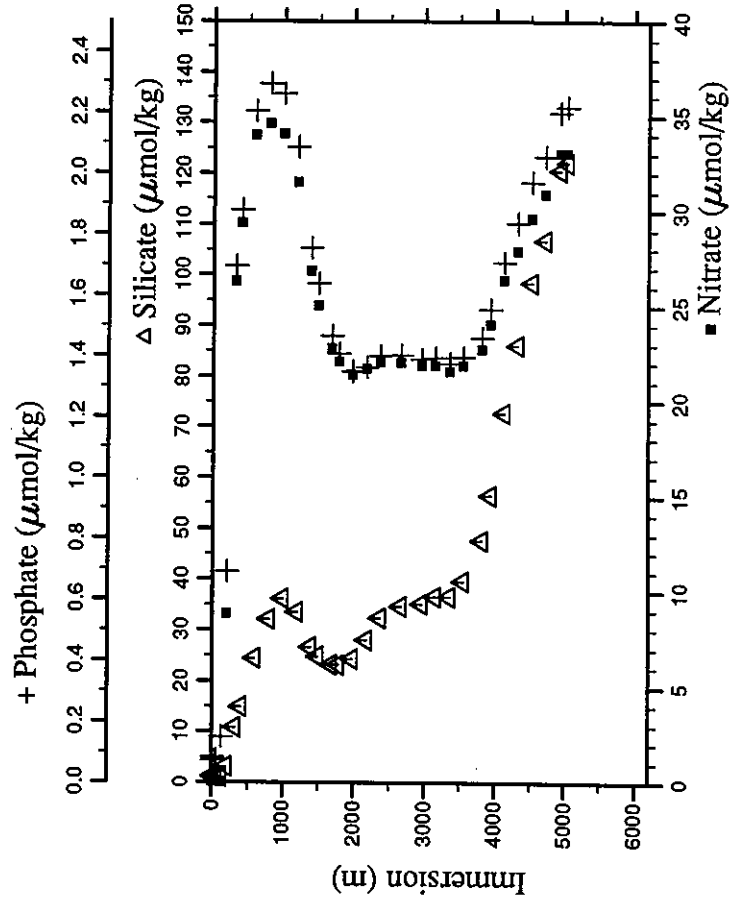
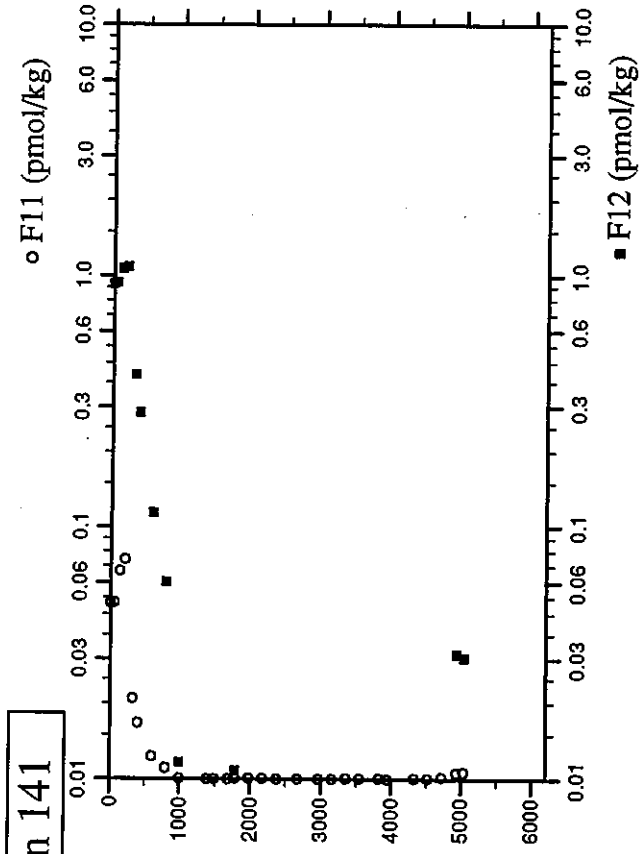
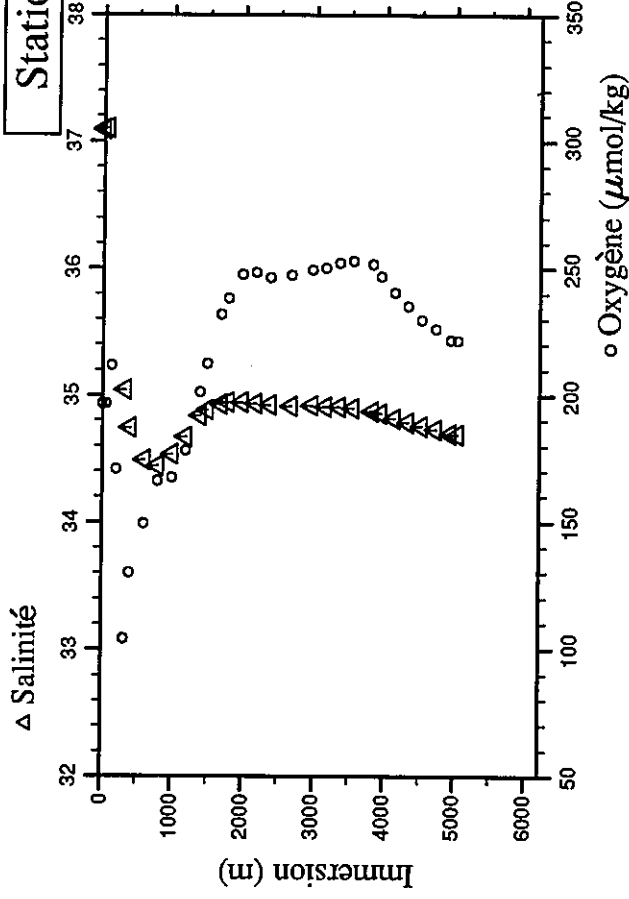
# Station 140



Station : 141 Campagne : CITHER 2  
 Date : 22-02-94 Heure : 23 h 8 mn  
 Position : S 13 25.24 W 31 4.92  
 Dernier niveau à : 5125  
 Nb prélèvements : 31

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
1.5	1.5	27.873	24.0215	37.094	196.6	0.04	0.072	1.2	1.6289	0.9284	2056.06		8.391
1.9	1.9	27.875	24.0218	37.097	196.6	0.04	0.083	1.2	1.6337	0.9265			8.393
51.1	50.8	27.874	24.2327	37.101	196.6	0.04	0.075	1.2	1.6341	0.9343	2058.19		8.391
124.2	123.4	24.059	25.6304	36.963	r	0.04	0.149	1.1	1.9270	1.0652	2081.53		8.339
200.9	199.6	17.016	27.0211	35.867	r	8.86	0.692	3.1	2.0338	1.0827	2118.31		8.162
320.7	318.6	10.984	28.2411	35.045	104.1	26.32	1.696	10.8	0.7458	0.4038	2187.92		7.919
400.4	397.7	8.471	28.8069	34.744	130.1	29.40	1.881	14.9	0.5190	0.2846	2190.41		7.889
601.4	597.1	5.596	29.9533	34.489	149.5	34.00	2.204	24.5	0.2078	0.1135	2205.09		7.849
800.0	793.8	4.420	30.9815	34.443	166.1	34.60	2.295	32.1	0.1030	0.0606	2208.45		7.848
1000.9	992.7	3.898	32.0334	34.534	167.5	34.06	2.262	36.2	0.0086	0.0117	2215.31		7.853
1200.4	1190.0	3.839	33.0567	34.670	178.1	31.54	2.086	33.5	-0.0003	0.0010			7.882
1399.7	1387.0	3.924	34.0781	34.837	201.3	26.89	1.755	26.6	0.0038	0.0010			7.935
1500.1	1486.1	3.876	34.5690	34.883	212.5	25.06	1.638	24.9	0.0022	0.0020			7.958
1700.6	1683.9	3.650	35.5400	34.933	231.7	22.81	1.466	23.2	0.0041	0.0049			7.988
1801.8	1783.7	3.522	36.0199	34.944	238.2	22.11	1.407	23.2	0.0069	0.0108			7.994
2000.5	1979.5	3.266	36.9512	34.947	247.5	21.42	1.350	24.3	0.0108	0.0049			8.005
2199.1	2175.0	2.978	37.8718	34.937	248.2	21.73	1.363	28.0	0.0058	0.0068			8.006
2400.2	2372.8	2.772	38.7853	34.926	246.2	22.08	1.402	32.4	0.0021	0.0000			8.001
2700.2	2667.5	2.604	40.1347	34.917	247.4	22.08	1.403	34.6	0.0036	0.0020			8.003
2998.5	2960.1	2.494	41.4622	34.919	249.4	21.89	1.391	35.1	0.0041	0.0049			8.003
3198.3	3155.9	2.394	42.3481	34.912	250.1	21.89	1.394	36.5	0.0040	0.0020			8.006
3399.2	3352.6	2.300	43.2379	34.913	252.1	21.59	1.376	36.5	0.0066	0.0020			8.005
3598.9	3547.9	2.162	44.1199	34.902	253.0	21.90	1.398	39.6	0.0065	0.0029			8.002
3878.8	3821.4	1.889	45.3591	34.877	251.6	22.75	1.461	47.6	0.0075	0.0068			7.995
3998.2	3938.0	1.708	45.8924	34.858	246.8	24.07	1.554	56.5	0.0018	0.0009			7.982
4198.6	4133.5	1.350	46.7905	34.820	240.4	26.39	1.708	72.7	-0.0009	0.0020			7.961
4397.5	4327.4	1.046	47.6748	34.788	235.2	27.93	1.837	86.1	0.0065	0.0029			7.942
4596.9	4521.6	0.747	48.5599	34.756	229.8	29.67	1.972	98.5	0.0107	0.0078			7.923
4799.8	4719.0	0.531	49.4479	34.735	226.3	30.92	2.055	106.8	0.0200	0.0098			7.908
5019.4	4932.5	0.126	50.4277	34.697	221.8	33.05	2.201	120.6	0.0594	0.0313			7.887
5120.9	5031.1	0.076	50.8640	34.691	221.6	33.06	2.220	122.1	0.0659	0.0303			7.883

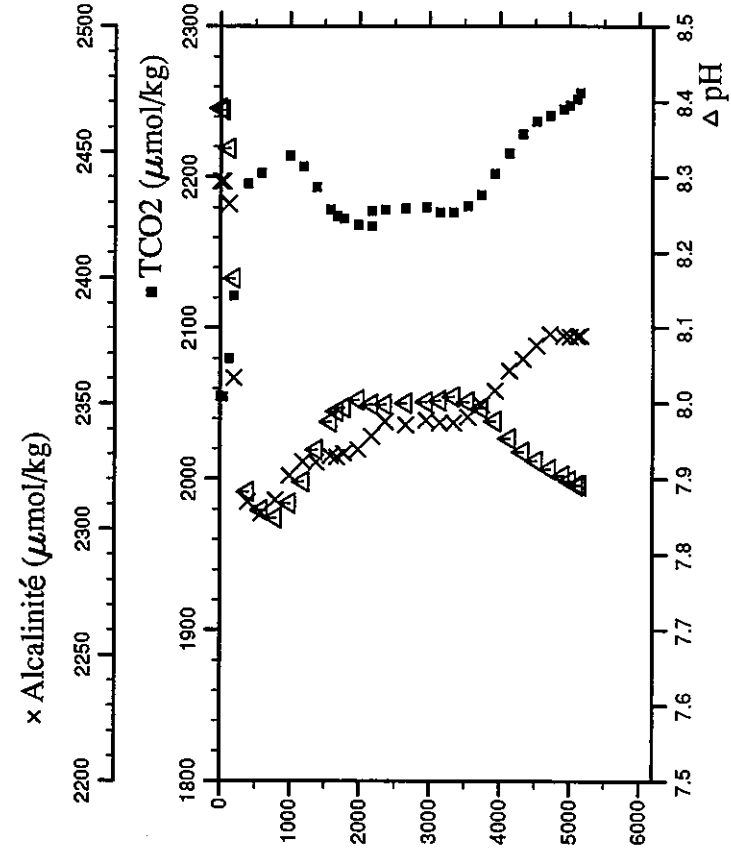
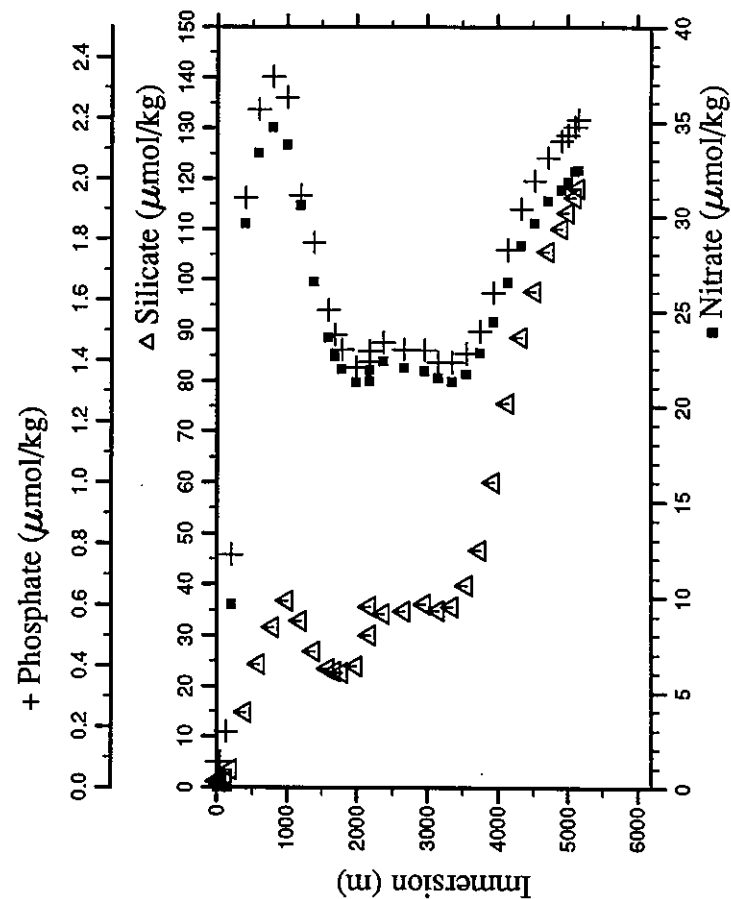
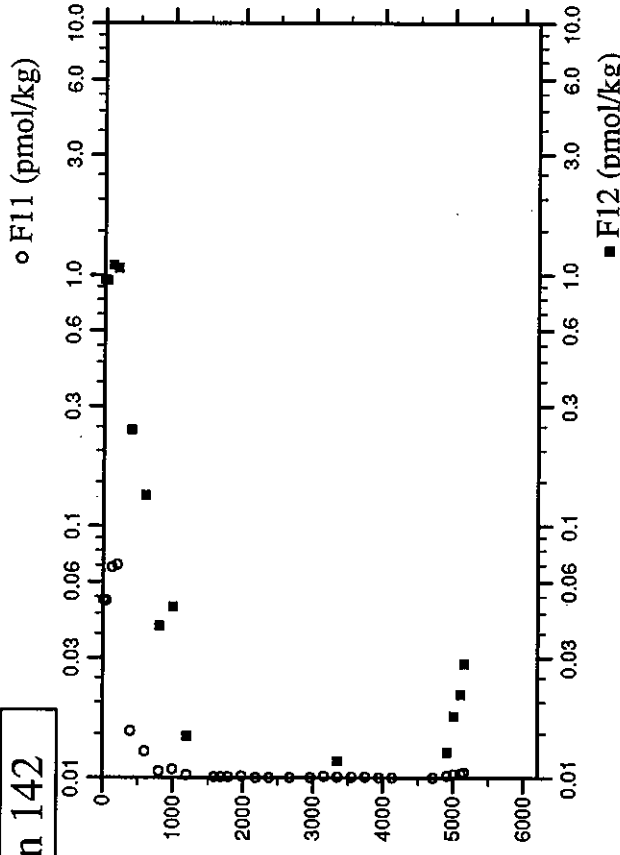
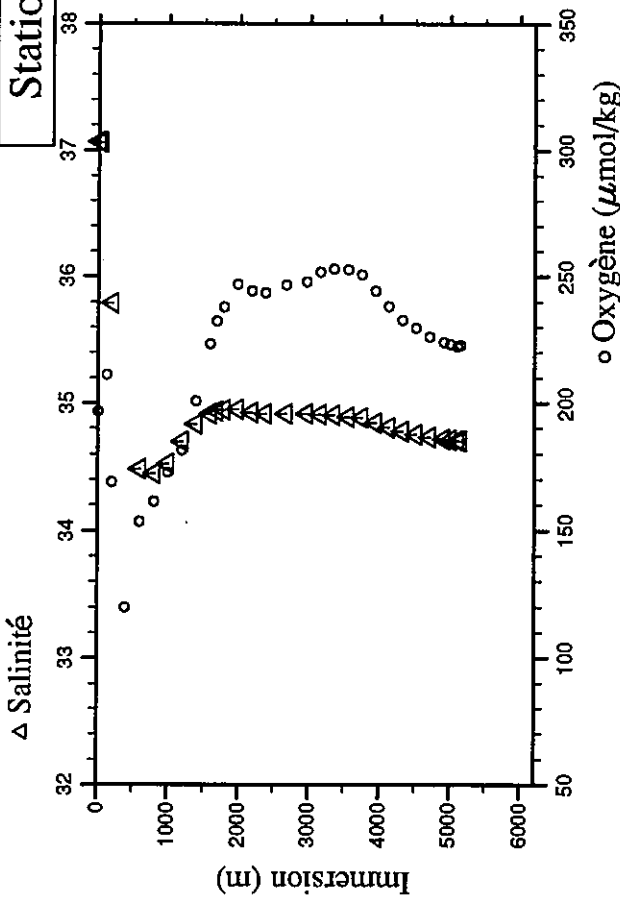
# Station 141



Station : 142 Campagne : CITHER 2  
 Date : 23-02-94 Heure : 5 h 42 mn  
 Position : S 13 26.32 W 30 35.36  
 Dernier niveau à : 5254  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSTON	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.4	4.4	27.770	24.0381	37.064	196.8	0.04	0.084	1.2	1.6499	0.9597	2054.69	2438.2	8.391
41.4	41.2	27.765	24.1951	37.059	196.9	0.04	0.084	1.1	1.6446	0.9509	2054.57	2438.2	8.389
126.1	125.3	23.450	25.7270	36.853	211.1	0.04	0.183	1.2	1.9535	1.0946	2079.92	2429.2	8.338
201.0	199.7	16.755	27.0573	35.788	169.1	9.63	0.763	3.5	1.9791	1.0622	2121.30	2360.1	8.166
400.8	398.1	8.780	28.8070	34.772	119.9	29.64	1.938	14.8	0.4376	0.2415	2195.56	2310.9	7.883
601.2	596.9	5.585	29.9495	34.481	153.5	33.35	2.228	24.3	0.2457	0.1321	2202.91	2306.3	7.858
800.8	794.6	4.475	30.9797	34.449	161.3	34.70	2.336	31.6	0.0618	0.0401	2202.91	2311.6	7.848
1003.3	995.1	3.819	32.0423	34.525	172.9	33.81	2.267	36.8	0.0820	0.0479	2214.18	2321.1	7.868
1201.5	1191.1	3.843	33.0778	34.696	181.4	30.60	1.946	32.9	0.0250	0.0147	2206.81	2326.7	7.896
1400.3	1387.5	3.923	34.0751	34.836	200.8	26.54	1.788	26.9	-0.0059	0.0039	2193.23	2326.6	7.939
1602.0	1586.7	3.754	35.0688	34.916	223.4	23.63	1.566	23.4	0.0090	0.0078	2178.54	2329.2	7.976
1700.9	1684.2	3.636	35.5456	34.935	232.2	22.63	1.486	22.9	0.0080	0.0059	2174.21	2328.5	7.990
1801.3	1783.2	3.528	36.0166	34.946	238.0	21.98	1.438	22.7	0.0085	0.0088	2172.58	2330.0	7.995
2001.8	1980.8	3.250	36.9591	34.951	246.9	21.25	1.377	24.0	0.0139	0.0088	2168.31	2331.6	8.005
2200.2	2176.1	2.921	37.8750	34.914	253.1	21.33	1.398	35.7	0.0002	0.0039	2177.55	2337.1	7.999
2200.3	2176.2	2.921	37.8754	34.928	244.3	21.91	1.432	30.1	0.0002	0.0039	2167.52	2337.1	7.999
2399.2	2371.8	2.702	38.7842	34.916	243.5	22.38	1.460	34.2	0.0000	0.0000	2178.70	2342.9	7.999
2701.4	2668.6	2.570	40.1421	34.917	246.6	22.03	1.437	34.8	0.0034	0.0020	2179.28	2341.5	8.001
2999.4	2961.0	2.462	41.4676	34.915	247.8	21.88	1.436	36.1	0.0026	0.0039	2180.17	2343.3	8.002
3199.2	3156.8	2.369	42.3579	34.908	251.7	21.49	1.395	34.9	0.0112	0.0039	2176.92	2342.2	8.004
3397.3	3350.7	2.276	43.2327	34.904	253.0	21.30	1.395	35.6	0.0085	0.0117	2176.79	2342.3	8.009
3600.9	3549.9	2.099	44.1356	34.891	252.6	21.69	1.425	39.8	0.0075	0.0039	2181.13	2344.5	8.002
3800.6	3745.1	1.890	45.0212	34.883	250.7	22.81	1.497	46.7	0.0082	0.0059	2188.28	2349.4	7.994
4000.1	3939.9	1.576	45.9137	34.846	244.2	24.44	1.624	60.1	0.0015	0.0039	2202.36	2354.9	7.977
4200.2	4135.1	1.228	46.8088	34.811	238.1	26.51	1.766	75.5	0.0015	0.0059	2215.90	2362.9	7.954
4398.6	4328.5	0.925	47.6926	34.778	232.9	28.48	1.901	88.6	-0.0002	0.0049	2228.48	2367.5	7.936
4599.0	4523.6	0.700	48.5728	34.753	229.8	29.67	1.994	97.7	-0.0001	0.0049	2237.21	2372.7	7.924
4797.7	4717.0	0.497	49.4424	34.733	226.3	30.86	2.070	105.6	0.0042	0.0068	2240.92	2377.3	7.913
4998.1	4911.8	0.371	50.3079	34.719	224.2	31.41	2.125	110.2	0.0107	0.0127	2245.25	2376.7	7.905
5097.3	5008.2	0.282	50.7371	34.713	223.3	31.85	2.144	113.3	0.0307	0.0176	2247.75	2376.5	7.898
5198.0	5106.0	0.202	51.1742	34.706	222.4	32.39	2.173	116.4	0.0387	0.0215	2251.67	2376.4	7.892
5249.8	5156.3	0.151	51.3984	34.700	223.0	32.47	2.196	118.2	0.0483	0.0284	2256.26	2376.7	7.892

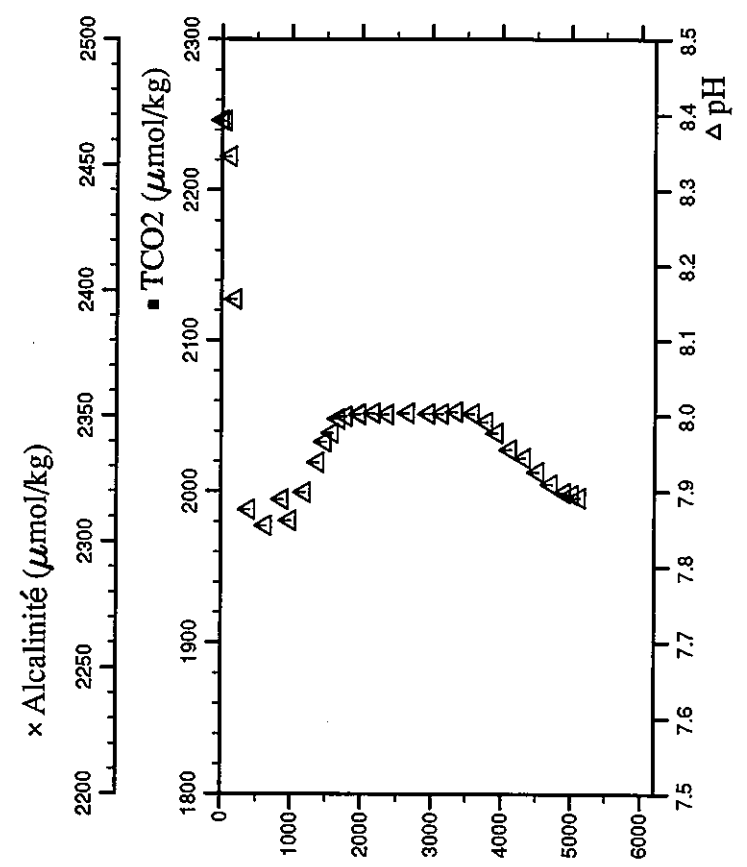
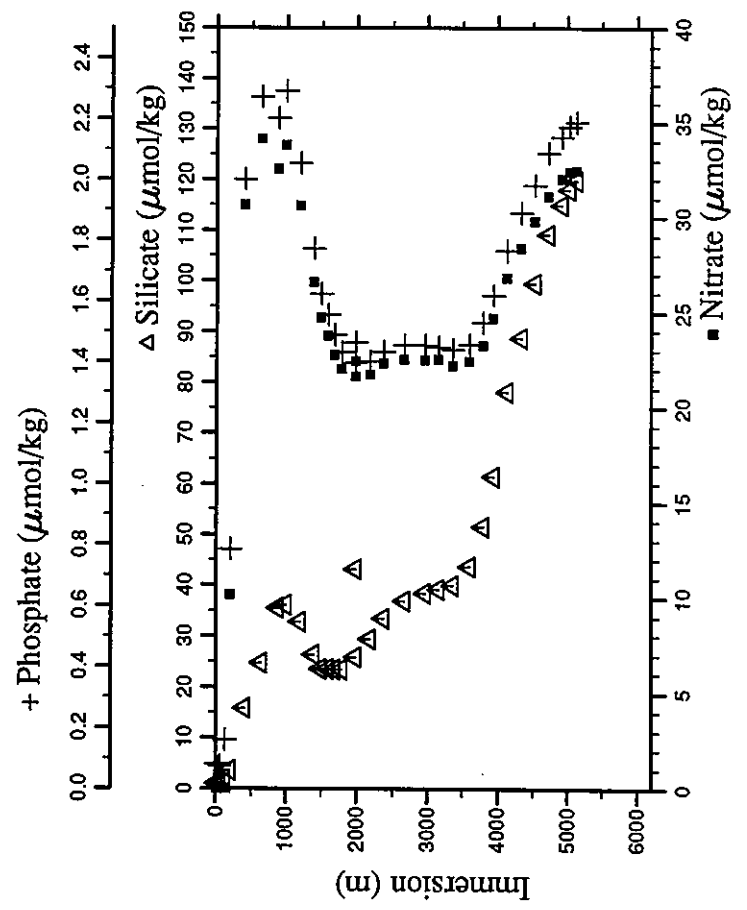
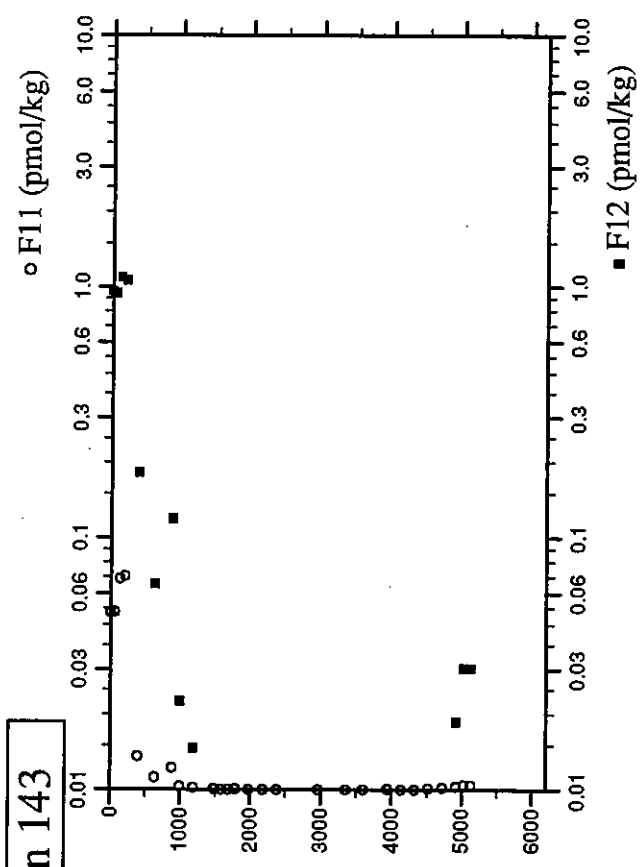
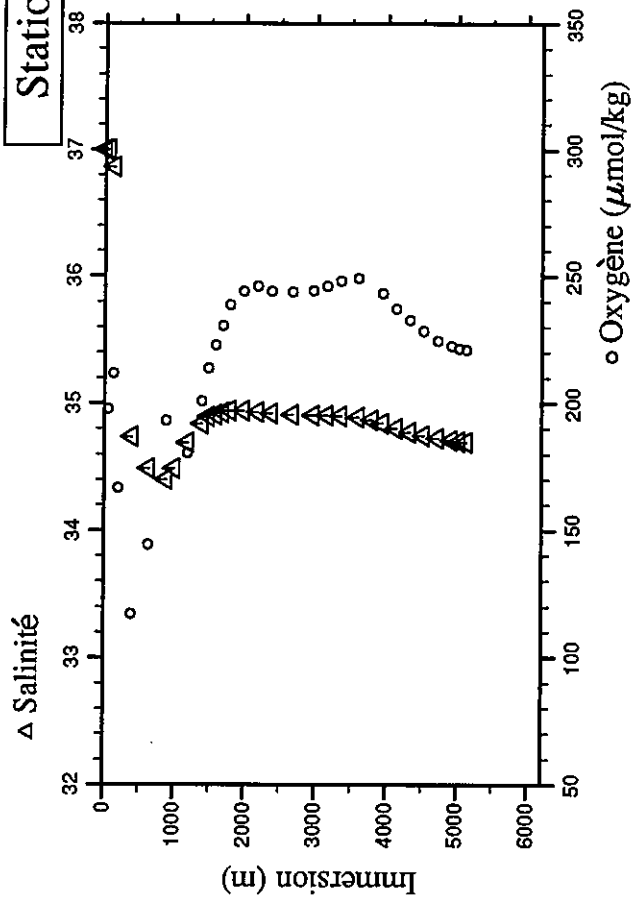
Station 142



Station : 143 Campagne : CIPHER 2  
 Date : 23-02-94 Heure : 12 h 10 mn  
 Position : S 12 56.58 W 30 33.93  
 Dernier niveau à : 5219  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- um/kg	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
1.9	1.9	27.964	23.9208	37.002	197.5	0.04	0.081	1.1	1.6414	0.9578			8.393
49.3	49.0	27.840	24.1563	36.998	197.7	0.04	0.075	1.2	1.6441	0.9392			8.392
124.9	124.1	23.734	25.6634	36.863	211.7	0.04	0.159	1.2	1.9539	1.0878			8.345
201.4	200.1	16.524	27.1065	35.740	166.7	10.17	0.784	3.6	1.9750	1.0603			8.155
400.4	397.7	8.328	28.8295	34.736	117.0	30.64	2.001	15.8	0.3100	0.1819			7.876
640.7	636.0	5.533	30.1424	34.488	144.4	34.13	2.273	24.7	0.1155	0.0655			7.855
885.8	878.8	3.848	31.4105	34.402	193.1	32.54	2.202	35.5	0.2020	0.1193			7.890
1000.1	992.0	3.935	31.9884	34.488	169.8	33.79	2.291	36.1	0.0291	0.0225			7.862
1199.3	1189.0	3.861	33.0617	34.694	180.3	30.61	2.054	32.8	0.0220	0.0147			7.899
1399.9	1387.2	3.929	34.0769	34.841	200.8	26.57	1.771	26.4	-0.0057	0.0059			7.939
1498.3	1484.3	3.932	34.5637	34.897	213.7	24.73	1.623	23.6	0.0101	0.0049			7.966
1601.0	1585.7	3.744	35.0642	34.911	223.0	23.78	1.557	23.6	0.0038	0.0059			7.978
1698.5	1681.9	3.618	35.5338	34.927	230.4	22.77	1.491	23.5	0.0024	0.0020			7.996
1800.3	1782.3	3.472	36.0196	34.942	238.7	22.05	1.432	23.5	0.0055	0.0039			8.000
2000.5	1979.5	3.197	36.9552	34.892	249.2	22.43	1.464	43.2	0.0007	0.0010			8.003
2000.6	1979.6	3.197	36.9556	34.939	243.9	21.61	1.400	25.8	0.0044	0.0039			8.002
2200.6	2176.5	2.936	37.8788	34.931	246.0	21.73	1.404	29.4	0.0046	0.0059			8.004
2399.4	2372.0	2.737	38.7835	34.919	244.1	22.35	1.435	33.5	0.0006	0.0039			8.002
2698.9	2666.2	2.557	40.1289	34.912	243.6	22.55	1.457	36.9	-0.0012	0.0029			8.004
2999.6	2961.2	2.437	41.4678	34.904	244.3	22.51	1.456	38.4	0.0022	0.0010			8.003
3197.6	3155.3	2.348	42.3479	34.905	246.0	22.55	1.449	39.2	-0.0018	0.0020			8.003
3399.0	3352.5	2.258	43.2360	34.902	248.0	22.20	1.442	40.0	0.0008	0.0010			8.006
3647.7	3595.7	2.078	44.3367	34.891	249.0	22.44	1.458	43.6	0.0019	0.0088			8.003
3847.8	3791.2	1.835	45.2303	34.868	245.0	23.30	1.530	51.5	-0.0018	-0.0009			8.003
3998.7	3938.6	1.587	45.9064	34.843	243.3	24.72	1.620	61.4	0.0018	0.0059			7.978
4198.7	4133.7	1.204	46.8050	34.805	237.2	26.82	1.766	78.1	0.0012	0.0010			7.956
4398.6	4328.5	0.931	47.6931	34.775	232.7	28.36	1.890	88.8	0.0000	0.0020			7.945
4598.1	4522.8	0.677	48.5694	34.748	228.4	29.78	1.982	99.4	0.0121	0.0088			7.926
4798.8	4718.1	0.436	49.4519	34.725	224.7	31.13	2.088	109.1	0.0197	0.0088			7.910
4998.5	4912.3	0.262	50.3223	34.710	222.5	32.03	2.140	115.0	0.0295	0.0186			7.899
5116.5	5026.9	0.187	50.8306	34.703	221.7	32.39	2.175	118.0	0.0455	0.0303			7.896
5216.3	5123.8	0.142	51.2583	34.698	221.1	32.49	2.190	119.8	0.0464	0.0303			7.892

Station 143

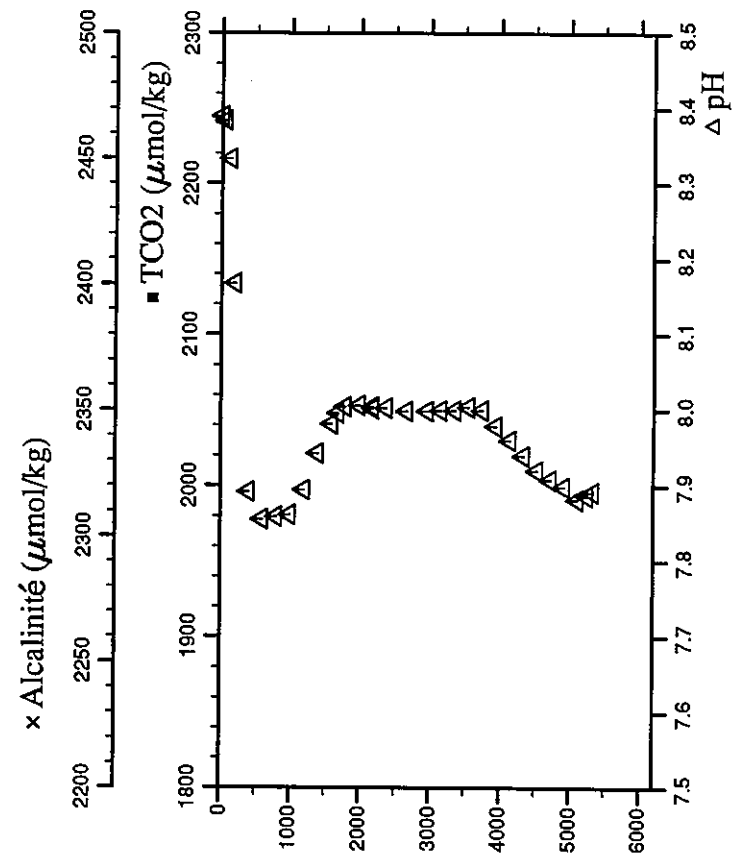
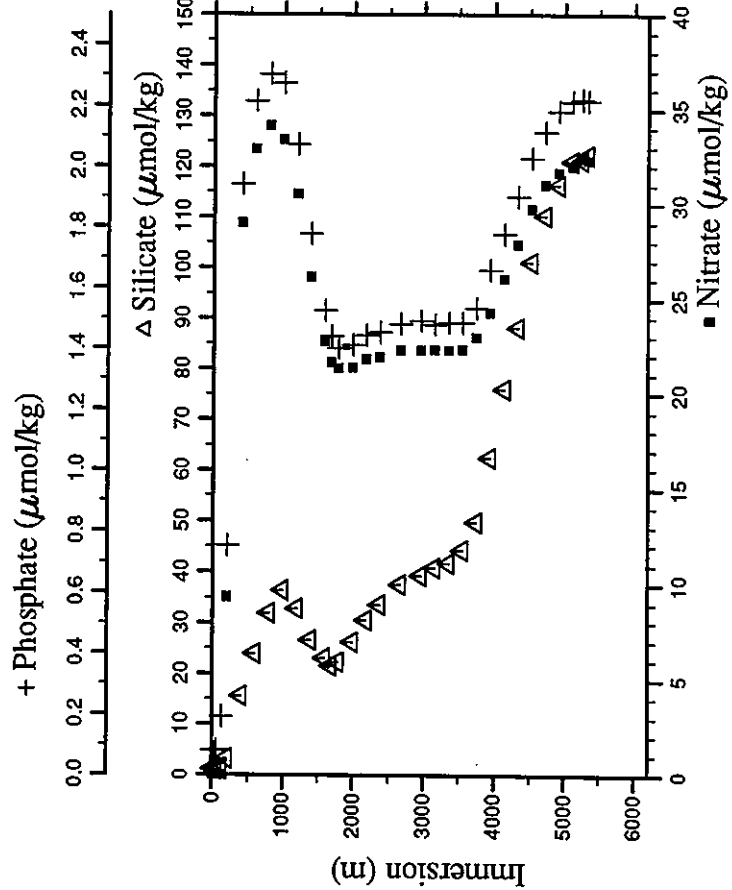
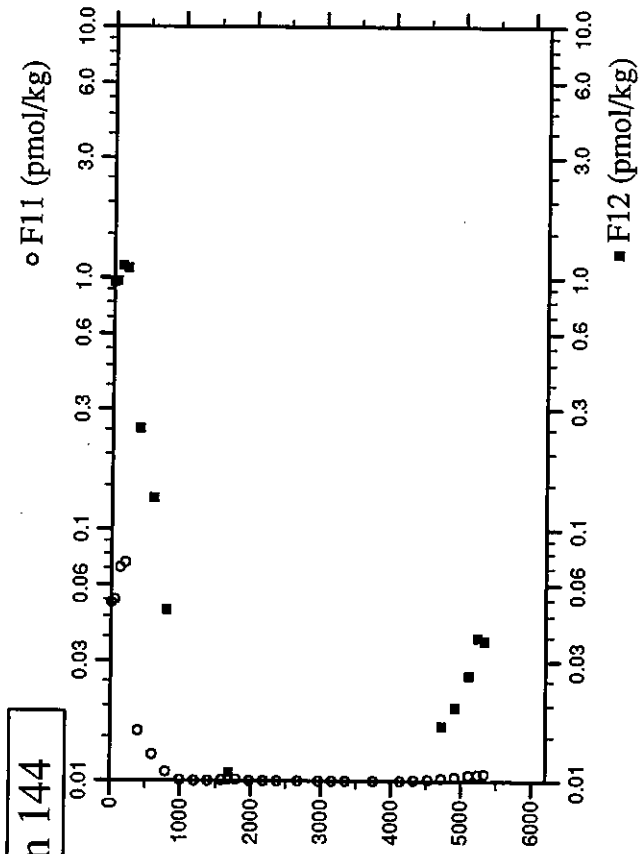
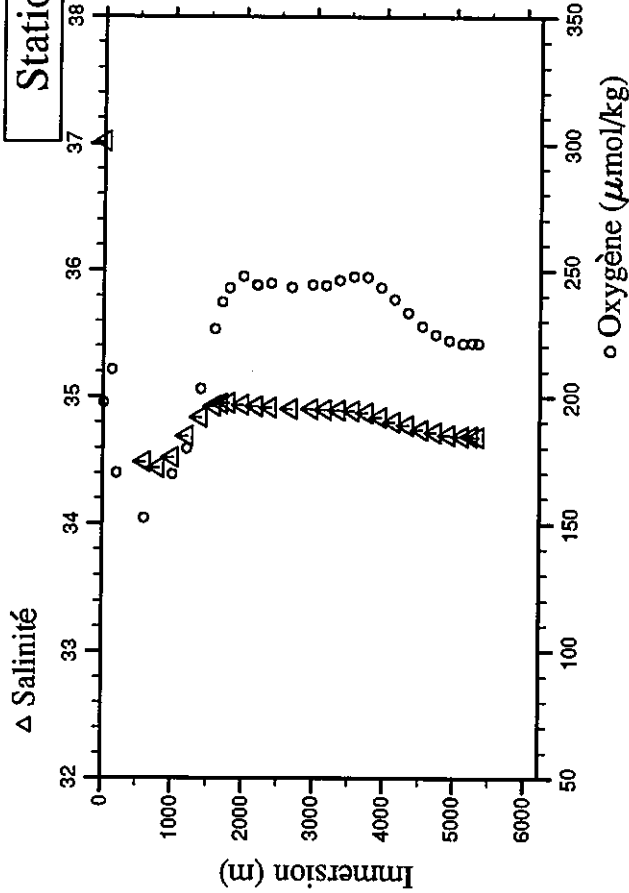




Station : 144 Campagne : CITHER 2  
 Date : 23-02-94 Heure : 18 h 29 mn  
 Position : S 12 26.74 W 30 32.35  
 Dernier niveau à : 5427  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT. NITE	ALCALI- um/kg	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.4	7.4	27.796	24.0112	37.017	197.8	0.04	0.081	1.2	1.6499	0.9588			8.390
52.3	52.0	27.687	24.2262	36.999	200.0	0.04	0.081	1.1	1.6823	0.9676			8.384
127.5	126.7	23.199	25.7768	36.778	210.7	0.04	0.191	1.1	1.9750	1.1132			8.333
200.7	199.5	17.125	27.0152	35.843	170.0	9.36	0.752	3.2	2.0267	1.0905			8.168
400.6	397.9	8.142	28.8341	34.697	137.9	29.02	1.942	15.5	0.4649	0.2523			7.892
601.4	597.1	5.617	29.9462	34.487	152.3	32.91	2.214	24.0	0.2459	0.1330			7.856
800.6	794.5	4.398	30.9883	34.443	164.8	34.14	2.304	31.9	0.0874	0.0479			7.859
999.9	991.8	3.866	32.0262	34.525	169.4	33.44	2.274	36.4	0.0089	0.0088			7.862
1201.5	1191.2	3.864	33.0707	34.690	179.7	30.54	2.073	32.9	0.0008	0.0020			7.895
1399.9	1387.2	3.912	34.0831	34.840	203.1	26.16	1.779	26.6	0.0009	0.0029			7.943
1601.7	1586.4	3.765	35.0763	34.928	226.7	22.79	1.527	23.1	0.0066	0.0078			7.982
1699.9	1683.3	3.647	35.5511	34.948	237.4	21.66	1.442	21.5	0.0139	0.0108			7.996
1800.1	1782.1	3.470	36.0291	34.951	242.9	21.34	1.402	22.3	0.0114	0.0088			8.005
2000.8	1979.9	3.147	36.9641	34.938	247.5	21.38	1.411	26.2	0.0005	0.0020			8.007
2199.7	2175.7	2.915	37.8742	34.926	244.2	21.84	1.444	30.6	0.0014	0.0059			8.005
2200.1	2176.0	2.912	37.8769	34.924	244.1	21.84	1.444	30.6	0.0002	0.0088			8.002
2401.6	2374.2	2.734	38.7917	34.914	244.7	21.92	1.454	33.6	0.0017	0.0039			8.003
2699.5	2666.9	2.553	40.1306	34.904	243.1	22.30	1.481	37.5	0.0015	0.0000			7.999
3000.6	2962.3	2.434	41.4711	34.903	244.2	22.30	1.492	39.3	0.0015	0.0020			7.999
3200.0	3157.7	2.346	42.3559	34.900	244.0	22.34	1.479	40.9	0.0001	0.0068			8.000
3400.5	3354.0	2.243	43.2420	34.895	246.0	22.29	1.487	41.8	0.0009	0.0020			8.000
3599.8	3549.0	2.108	44.1260	34.889	247.5	22.33	1.487	44.3	-0.0023	-0.0020			8.004
3801.7	3746.3	1.911	45.0215	34.876	247.2	22.99	1.535	49.8	0.0006	0.0068			8.000
3999.5	3939.4	1.557	45.9114	34.839	243.1	24.31	1.660	62.5	-0.0023	0.0020			8.000
4200.0	4135.0	1.234	46.8103	34.805	238.7	26.10	1.779	75.9	0.0048	0.0059			7.979
4398.6	4328.6	0.931	47.6912	34.777	233.3	27.89	1.902	88.2	0.0059	0.0098			7.960
4600.1	4524.9	0.639	48.5832	34.744	227.9	29.77	2.028	101.1	0.0111	0.0059			7.920
4799.4	4718.8	0.392	49.4605	34.720	224.6	31.06	2.115	110.3	0.0253	0.0166			7.908
4998.6	4912.5	0.213	50.3292	34.704	222.4	31.70	2.183	116.4	0.0392	0.0196			7.899
5197.9	5106.1	0.104	51.1861	34.693	221.0	32.04	2.215	121.1	0.0561	0.0264			7.882
5336.5	5240.6	0.084	51.7721	34.691	221.4	32.44	2.221	121.3	0.0623	0.0372			7.887
5426.3	5327.7	0.064	52.1529	34.688	221.2	32.33	2.217	122.3	0.0645	0.0362			7.892

Station 144

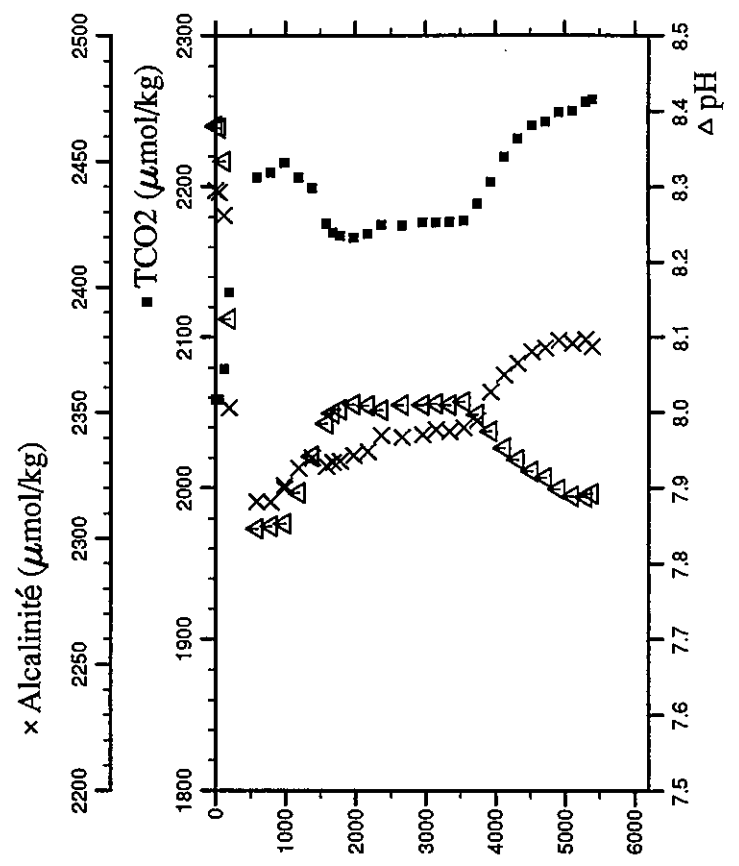
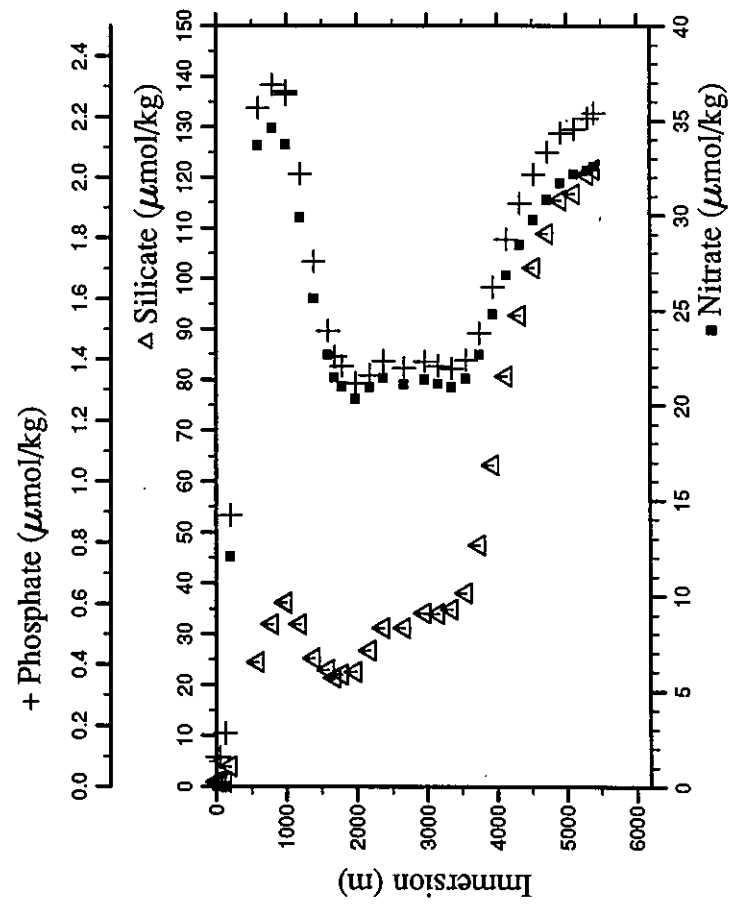
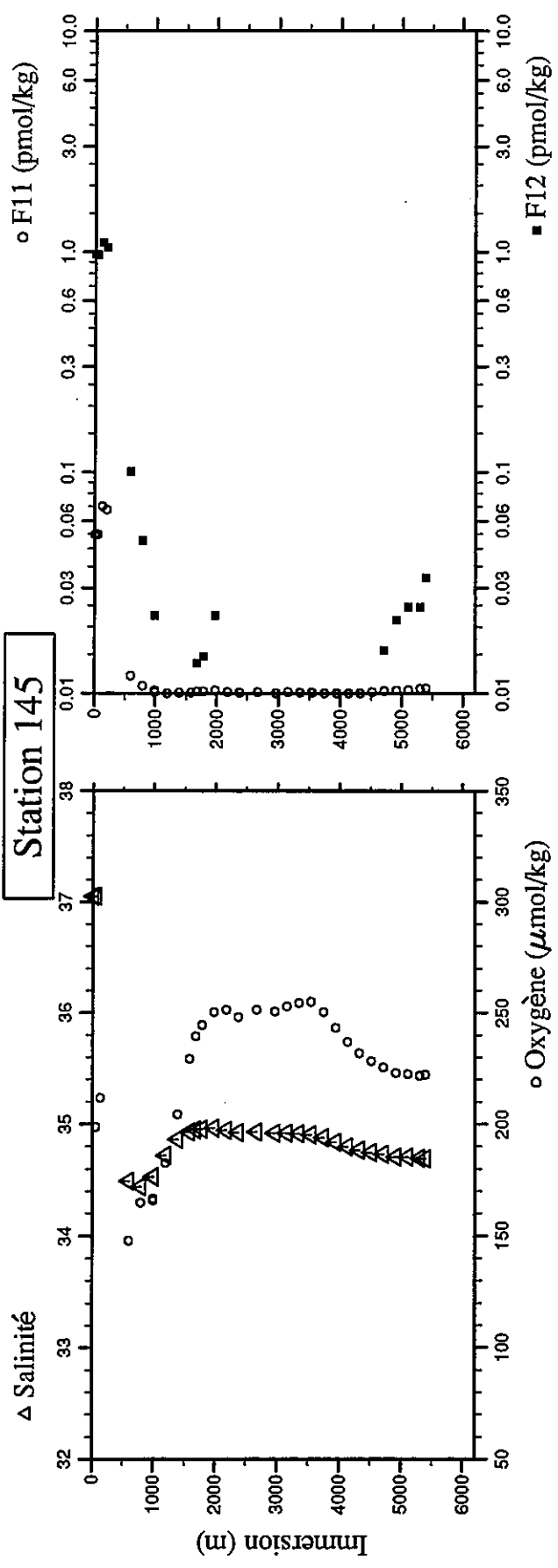


$\Delta$  pH

Station : 145 Campagne : CITHER 2  
 Date : 24-02-94 Heure : 1 h 4 mn  
 Position : S 11 56.98 W 30 30.68  
 Dernier niveau à : 5498  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg. cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
2.7	2.7	27.676	24.0563	37.053	198.0	0.04	0.099	1.0	1.6673	0.9773	2058.75	2438.3	8.380
52.0	51.7	27.677	24.2636	37.052	198.7	0.04	0.096	0.9	1.6758	0.9675	2058.83	2437.7	8.378
124.7	123.9	23.640	25.6709	36.816	211.8	0.04	0.174	1.0	1.9700	1.1054	2078.96	2428.4	8.334
201.1	199.9	15.939	27.1573	35.644	163.1	12.07	0.888	4.0	1.9366	1.0457	2129.88	2351.8	8.124
600.4	596.1	5.688	29.9403	34.494	147.8	33.68	2.230	24.4	0.1872	0.1007	2205.88	2314.6	7.846
799.0	792.9	4.431	30.9743	34.441	165.0	34.62	2.305	32.0	0.0809	0.0489	2209.69	2314.4	7.850
1001.0	992.9	3.937	32.0236	34.531	165.8	33.76	2.284	36.3	0.0144	0.0029	2215.67	2321.0	7.853
1002.2	994.1	3.931	32.0297	34.533	166.7	33.77	2.275	36.1	0.0296	0.0225	2215.76	2319.7	7.853
1201.1	1190.8	3.934	33.0807	34.722	182.7	29.89	2.012	31.9	0.0035	0.0010	2206.15	2327.7	7.894
1400.6	1387.9	3.995	34.0889	34.864	204.4	25.62	1.723	25.2	0.0096	0.0068	2199.46	2331.8	7.942
1599.4	1584.2	3.726	35.0741	34.931	229.3	22.63	1.495	22.9	0.0060	0.0098	2175.58	2328.5	7.985
1799.2	1781.2	3.633	35.5588	34.952	239.4	21.45	1.409	21.4	0.0201	0.0137	2169.50	2330.1	7.999
2000.3	1979.4	3.268	36.0264	34.956	244.5	20.98	1.378	22.1	0.0191	0.0147	2167.45	2330.6	8.004
2200.9	2176.9	2.981	36.9605	34.964	250.4	20.35	1.322	22.5	0.0306	0.0225	2166.23	2332.8	8.011
2397.9	2370.6	2.777	37.8846	34.946	251.3	20.94	1.348	26.7	0.0115	0.0068	2168.70	2334.5	8.009
2699.6	2667.0	2.638	40.1343	34.927	248.1	21.44	1.395	31.2	0.0076	0.0068	2174.66	2340.7	8.003
2999.8	2961.6	2.474	41.4722	34.922	250.7	21.36	1.372	34.1	0.0115	0.0078	2174.22	2340.0	8.010
3199.0	3156.8	2.393	42.3557	34.919	252.9	21.36	1.393	34.1	0.0046	0.0029	2176.39	2341.0	8.010
3397.1	3350.7	2.293	43.2309	34.915	254.5	21.12	1.379	34.0	0.0119	0.0098	2176.35	2343.2	8.012
3598.8	3548.0	2.145	44.1243	34.905	254.8	20.96	1.369	34.9	0.0057	0.0068	2176.70	2342.3	8.010
3799.8	3744.5	1.913	45.0166	34.879	250.3	21.40	1.397	38.0	0.0051	0.0088	2177.69	2343.8	8.014
3999.4	3939.4	1.549	45.9124	34.840	243.2	22.66	1.486	47.5	0.0037	0.0049	2188.91	2346.7	7.997
4199.2	4134.3	1.153	46.8127	34.801	236.9	24.78	1.639	63.2	0.0002	0.0000	2202.99	2358.2	7.975
4398.0	4328.1	0.864	47.6963	34.769	231.9	26.86	1.796	80.6	0.0025	0.0039	2219.61	2365.0	7.953
4596.9	4521.8	0.633	48.5708	34.747	228.3	29.77	1.913	92.7	0.0043	0.0020	2231.42	2369.4	7.938
4796.2	4715.8	0.456	49.4405	34.731	225.4	30.81	2.084	102.1	0.0118	0.0078	2240.29	2374.1	7.923
4997.7	4911.7	0.262	50.3182	34.709	223.0	32.18	2.148	108.9	0.0242	0.0156	2242.85	2375.7	7.914
5196.6	5104.9	0.190	51.1692	34.707	222.4	32.18	2.160	115.5	0.0303	0.0215	2249.33	2378.6	7.899
5398.6	5301.0	0.109	52.0308	34.695	221.7	32.38	2.195	116.8	0.0405	0.0245	2250.22	2377.5	7.890
5496.6	5396.0	0.089	52.4453	34.692	222.0	32.57	2.213	121.6	0.0492	0.0333	2256.05	2379.0	7.889
									0.0544		2257.58	2376.1	7.893

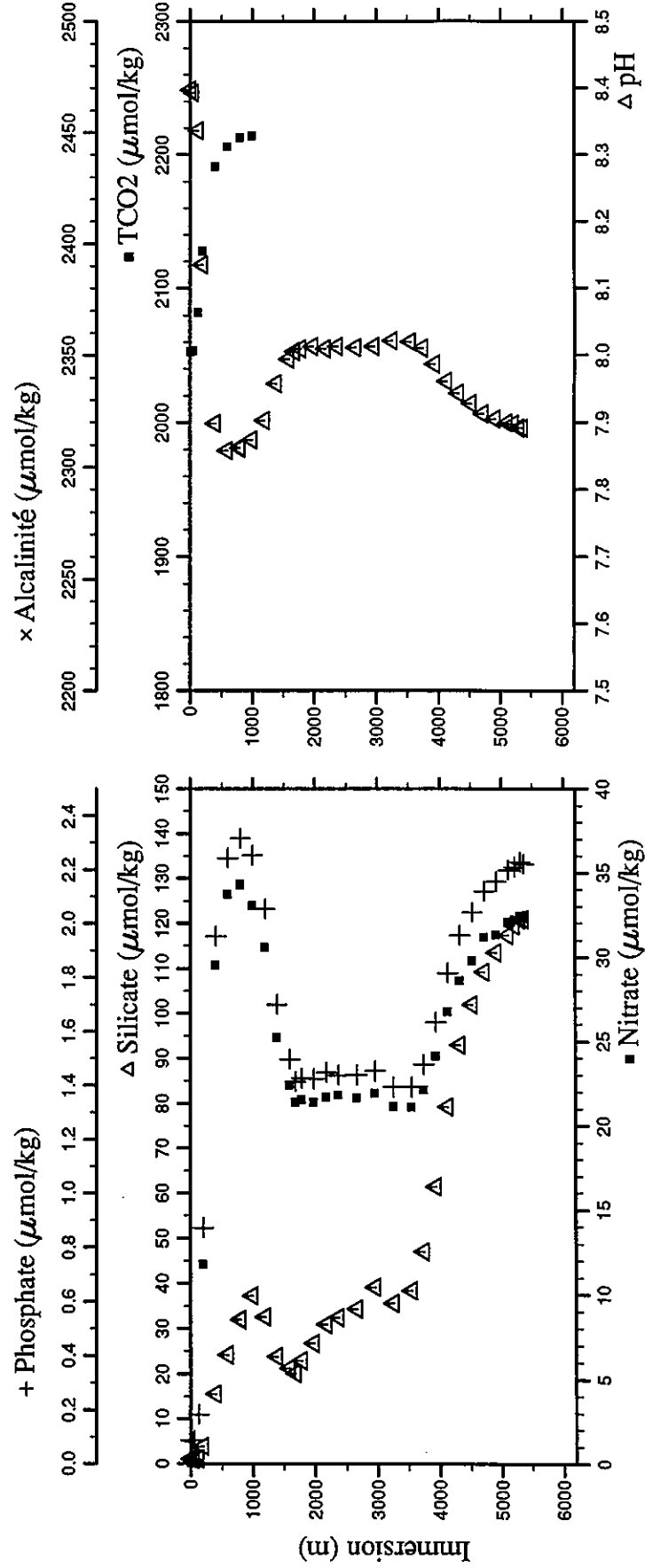
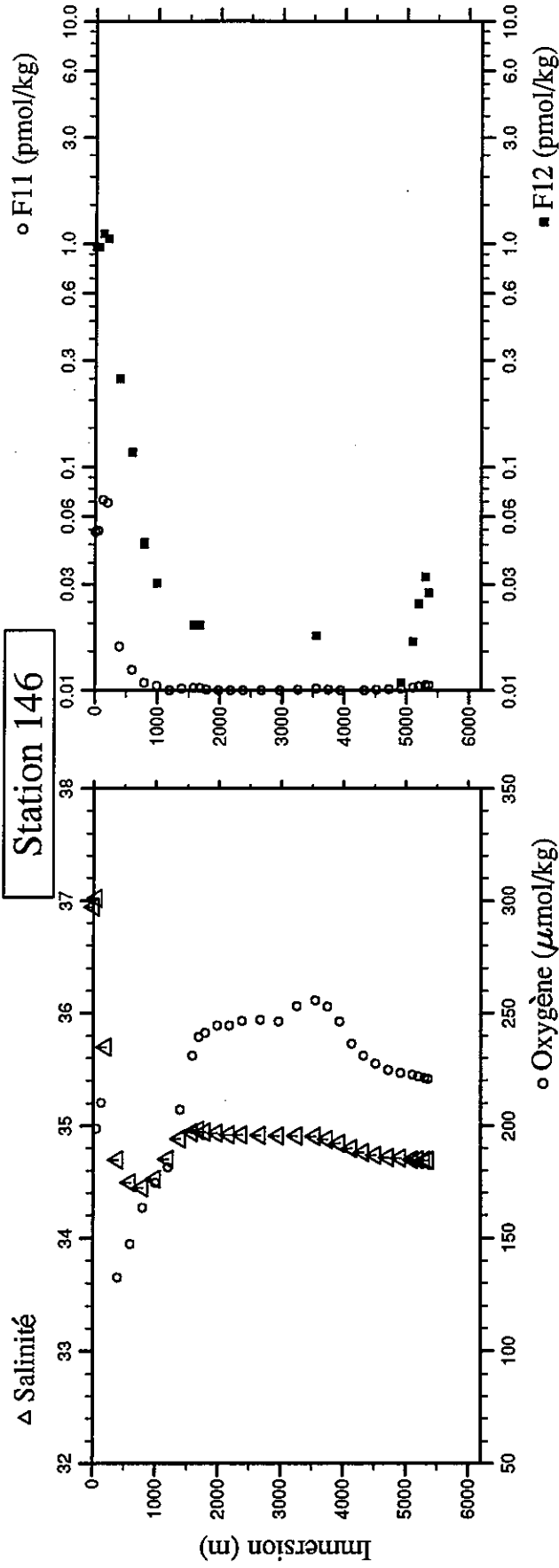
# Station 145



Station : 146 Campagne : CITHER 2  
 Date : 24-02-94 Heure : 7 h 37 mn  
 Position : S 11 26.96 W 30 29.14  
 Dernier niveau à : 5453  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.5	5.5	27.772	23.9523	36.943	220.0	r	0.04	1.1	1.6563	0.9676	2052.80		8.397
51.1	50.8	27.755	24.2105	37.020	198.6		0.04	1.0	1.6716	0.9636	2053.64		8.393
126.4	125.6	23.214	25.7637	36.779	210.2		0.04	1.1	1.9880	1.1122	2081.89		8.336
202.3	201.0	16.105	27.1459	35.699	161.1	r	11.80	3.8	1.9598	1.0516	2127.52		8.135
401.2	398.5	8.154	28.8336	34.697	132.5		29.54	15.6	0.4598	0.2494	2191.22		7.899
600.2	595.9	5.672	29.9429	34.495	147.4		33.74	24.2	0.2171	0.1164	2205.91		7.858
799.6	793.5	4.414	30.9800	34.449	163.3		34.33	32.1	0.0799	0.0460	2213.04		7.863
799.9	793.8	4.413	30.9831	34.447	163.5		34.28	31.9	0.0781	0.0450	2213.04		7.862
1000.0	991.9	3.804	32.0325	34.523	174.5		33.05	37.3	0.0510	0.0303	2213.95		7.874
1201.0	1190.7	3.878	33.0774	34.703	181.4		30.57	32.6	0.0016	0.0000			7.903
1401.3	1388.6	4.096	34.0938	34.883	207.0		25.23	23.8	0.0180	0.0078			7.958
1600.4	1585.2	3.823	35.0738	34.941	230.9		22.40	21.3	0.0280	0.0196			7.995
1698.3	1681.8	3.723	35.5392	34.960	239.3		21.39	20.1	0.0280	0.0196			8.006
1798.9	1781.0	3.445	36.0216	34.948	241.1		21.55	22.9	0.0079	0.0088			8.010
1999.7	1978.8	3.120	36.9598	34.936	244.5		21.39	26.7	0.0012	0.0029			8.013
2199.6	2175.6	2.864	37.8805	34.923	244.6		21.70	30.9	0.0022	0.0010			8.010
2398.4	2371.2	2.726	38.7827	34.922	246.4		21.82	32.5	0.0030	0.0049			8.013
2701.2	2668.7	2.573	40.1430	34.918	247.0		21.66	34.4	0.0020	0.0039			8.012
2999.0	2960.8	2.421	41.4681	34.911	246.3		21.93	39.2	0.0000	0.0010			8.013
3300.2	3255.9	2.317	42.8060	34.911	253.2		21.16	35.7	0.0081	0.0059			8.022
3599.9	3549.2	2.125	44.1327	34.904	255.8		21.12	38.5	0.0177	0.0176			8.020
3800.7	3745.4	1.885	45.0256	34.878	252.8		22.13	47.1	0.0098	0.0088			8.011
3999.1	3939.2	1.526	45.9154	34.845	246.2		24.14	61.4	0.0036	0.0020			7.987
4199.5	4134.7	1.160	46.8135	34.801	236.4		26.77	79.3	-0.0009	-0.0010			7.962
4397.4	4327.6	0.809	47.6997	34.764	231.1		28.60	93.0	0.0021	-0.0010			7.944
4598.5	4523.5	0.580	48.5838	34.739	227.5		29.78	102.0	0.0084	0.0078			7.929
4799.0	4718.6	0.401	49.4584	34.719	224.6		31.17	109.2	0.0145	0.0049			7.913
4999.6	4913.6	0.275	50.3240	34.710	223.5		31.32	113.6	0.0205	0.0108			7.906
5200.0	5108.3	0.175	51.1854	34.698	222.5		32.06	117.4	0.0336	0.0166			7.900
5298.5	5203.9	0.126	51.6076	34.696	221.8		32.21	119.6	0.0431	0.0245			7.898
5399.2	5301.7	0.088	52.0345	34.692	221.2		32.45	120.8	0.0543	0.0323			7.892
5453.7	5354.5	0.087	52.2647	34.692	220.9		32.31	120.9	0.0537	0.0274			7.892

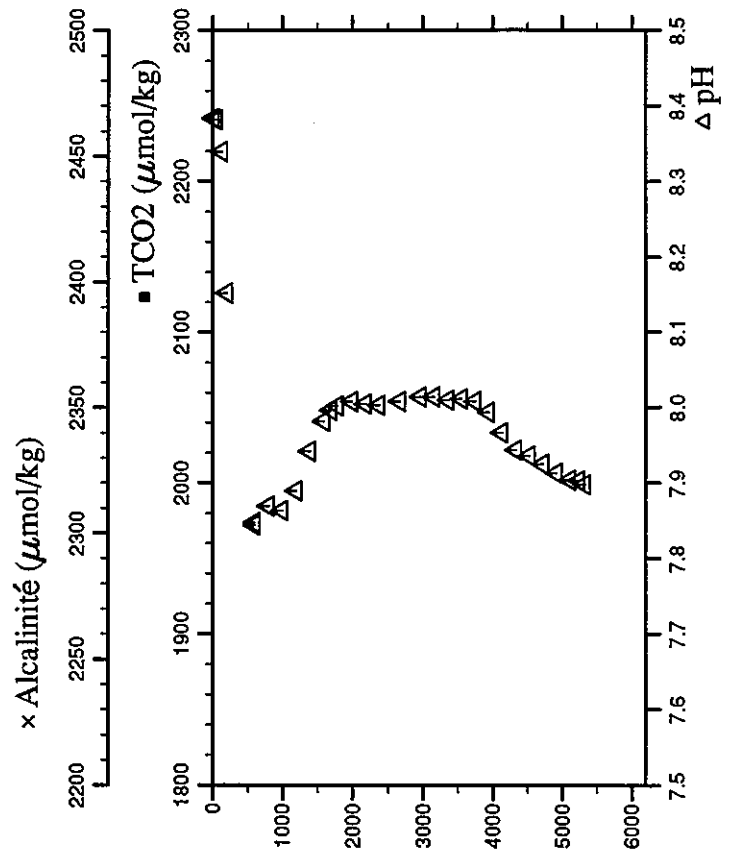
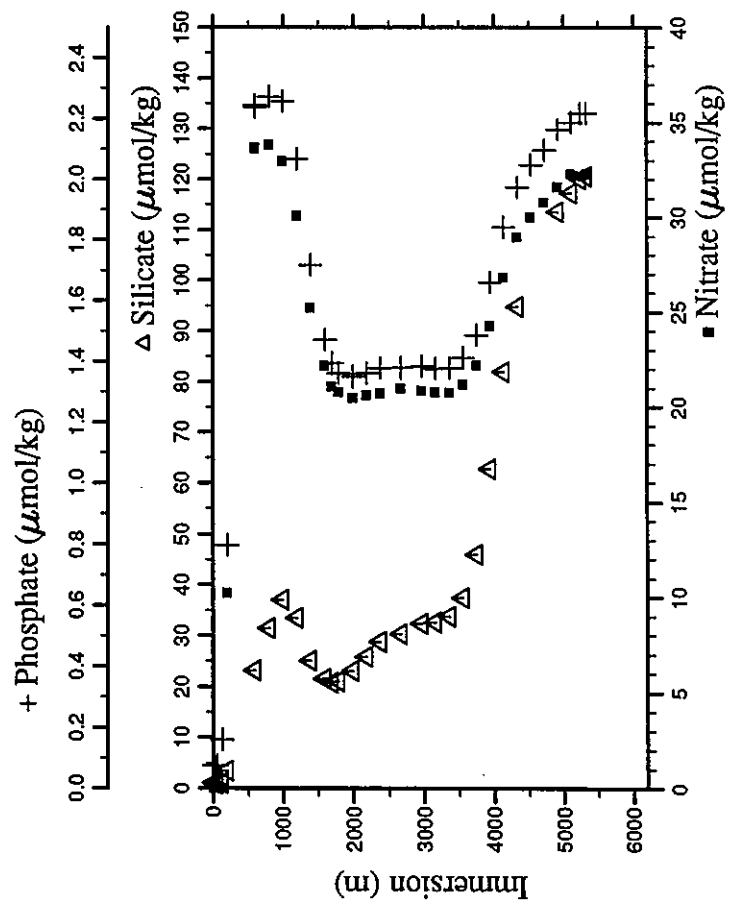
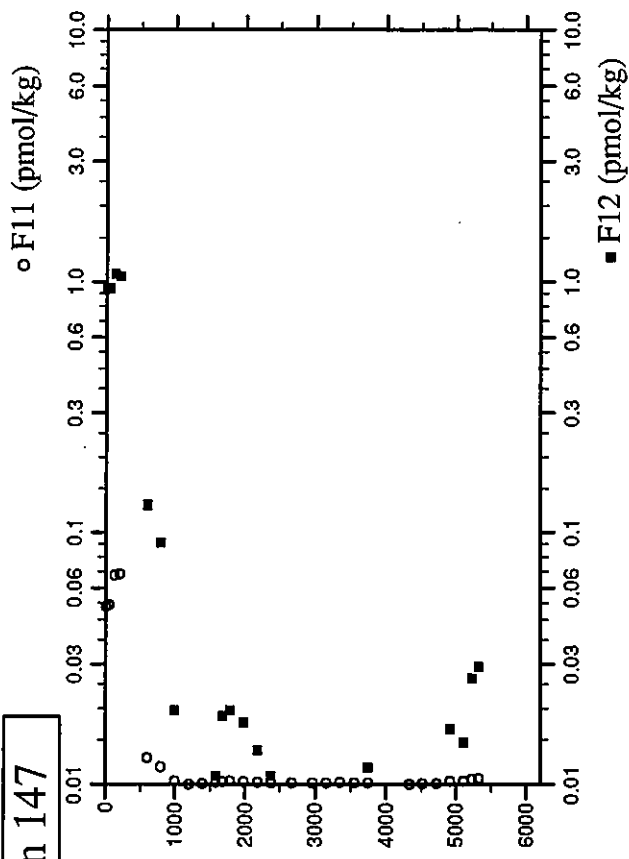
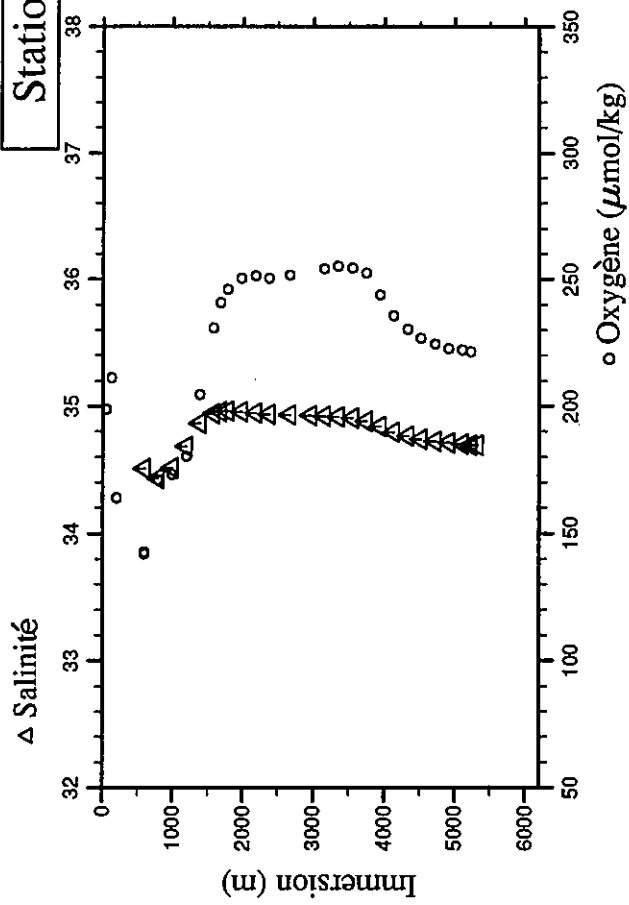
# Station 146



Station : 147 Campagne : CITHER 2  
 Date : 24-02-94 Heure : 14 h 6 mn  
 Position : S 10 57.13 W 30 27.43  
 Dernier niveau à : 5424  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
6.0	6.0	28.042	23.7960	36.862	r	0.04	0.075	1.1	1.6458	0.9384			8.384
51.7	51.4	27.712	24.1680	36.909	r	0.04	0.075	1.0	1.6652	0.9442			8.382
124.4	123.7	24.029	25.6212	36.922	r	0.04	0.159	1.1	1.9347	1.0799			8.340
200.9	199.7	16.774	27.0665	35.792	r	10.25	0.798	3.5	1.9501	1.0524			8.152
600.9	596.6	5.854	29.9312	34.498	r	33.64	2.239	23.2	0.2453	0.1281			7.847
601.0	596.7	5.865	29.9301	34.511	r	33.66	2.245	23.2	0.2428	0.1291			7.844
799.8	793.7	4.406	30.9746	34.434		33.84	2.273	31.5	0.1611	0.0910			7.869
1001.7	993.6	3.829	32.0307	34.512		32.95	2.258	37.0	0.0333	0.0196			7.863
1201.7	1191.4	3.883	33.0635	34.681		30.08	2.067	33.5	0.0034	0.0000			7.890
1400.2	1387.6	4.006	34.0878	34.865		25.23	1.717	25.1	0.0094	0.0039			7.942
1599.9	1584.7	3.800	35.0728	34.940		22.17	1.472	21.5	0.0212	0.0108			7.982
1702.4	1685.8	3.645	35.5707	34.958		21.08	1.394	20.8	0.0242	0.0186			7.996
1798.8	1780.9	3.476	36.0263	34.961		20.77	1.361	21.0	0.0287	0.0196			8.002
2000.5	1979.7	3.212	36.9666	34.958		20.46	1.350	23.0	0.0254	0.0176			8.008
2201.6	2177.6	2.962	37.8921	34.948		20.62	1.360	25.8	0.0191	0.0137			8.005
2399.9	2372.7	2.805	38.7891	34.938		20.70	1.378	28.8	0.0146	0.0108			8.003
2699.0	2666.5	2.633	40.1340	34.932		20.97	1.380	30.3	0.0160	0.0068			8.008
2998.7	2960.6	2.475	41.4687	34.924		20.85	1.385	32.3	0.0110	0.0068			8.014
3198.7	3156.6	2.392	42.3554	34.920		20.77	1.375	32.6	0.0121	0.0078			8.014
3399.8	3353.5	2.294	43.2425	34.915		20.74	1.377	33.7	0.0177	0.0098			8.010
3600.5	3549.8	2.154	44.1287	34.903		21.20	1.411	37.4	0.0118	0.0078			8.012
3799.6	3744.4	1.863	45.0226	34.878		22.21	1.485	46.0	0.0157	0.0117			8.008
3998.5	3938.7	1.506	45.9152	34.837		24.26	1.659	62.7	-0.0006	0.0010			7.994
4199.4	4134.7	1.070	46.8217	34.793		26.81	1.841	81.9	-0.0006	-0.0029			7.967
4401.0	4331.2	0.767	47.7200	34.761		28.94	1.973	94.8	0.0030	0.0049			7.944
4598.4	4523.5	0.555	48.5857	34.737		30.01	2.048	103.4	d	0.0079			7.936
4798.5	4718.2	0.390	49.4570	34.722		30.77	2.096	109.4	d	0.0080			7.925
4998.9	4913.0	0.274	50.3213	34.710		31.61	2.164	113.6		0.0290			7.913
5197.4	5105.9	0.175	51.1742	34.701		32.26	2.187	117.2		0.0319			7.904
5327.5	5232.2	0.102	51.7318	34.692		32.16	2.216	120.1		0.0520			7.903
5420.2	5322.1	0.087	52.1237	34.693	r	32.26	2.216	120.5		0.0539			7.898

# Station 147

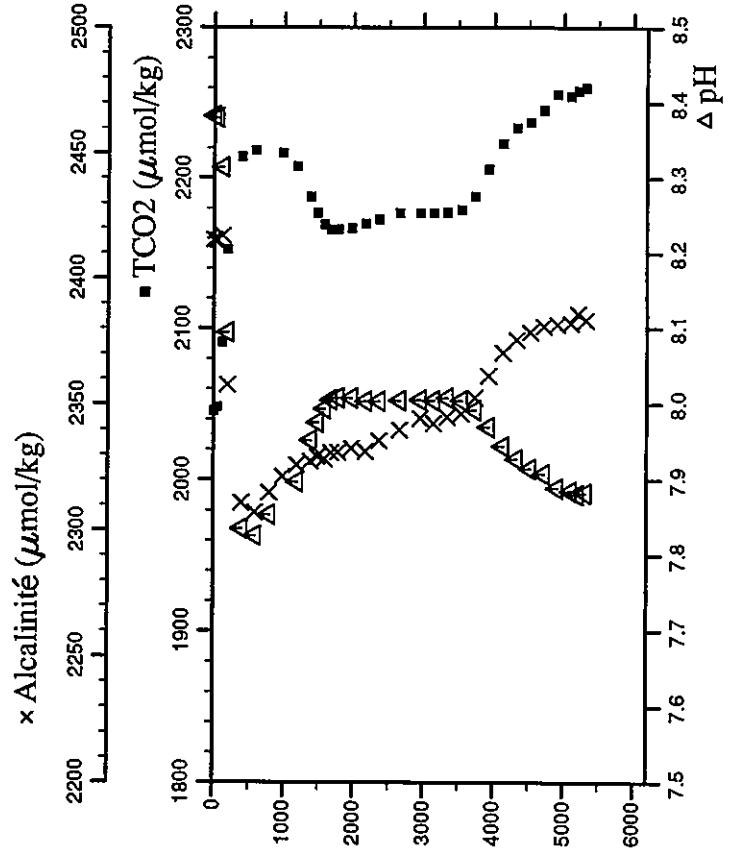
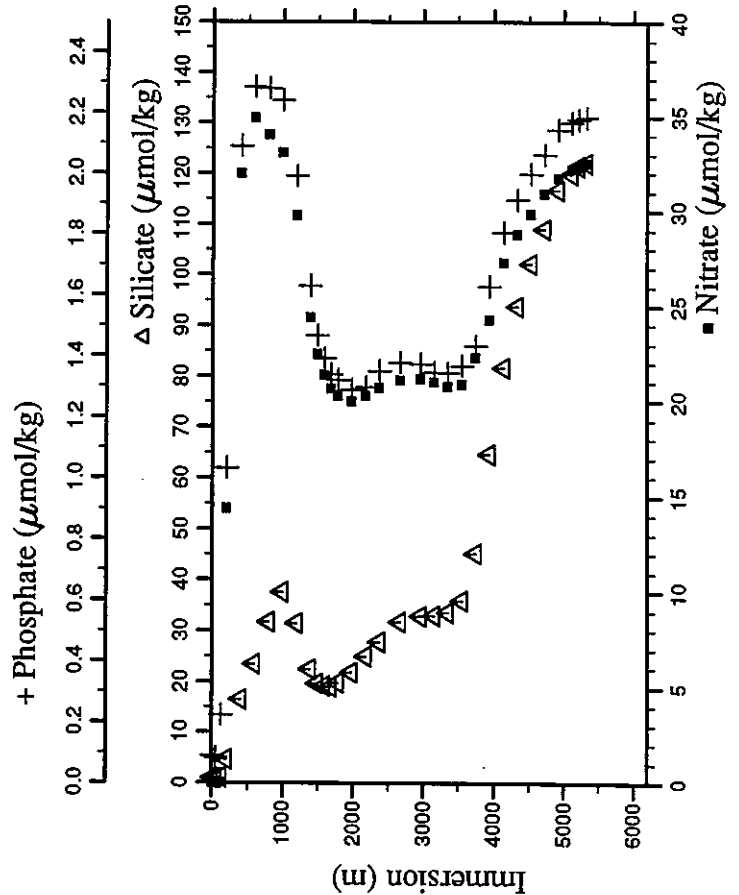
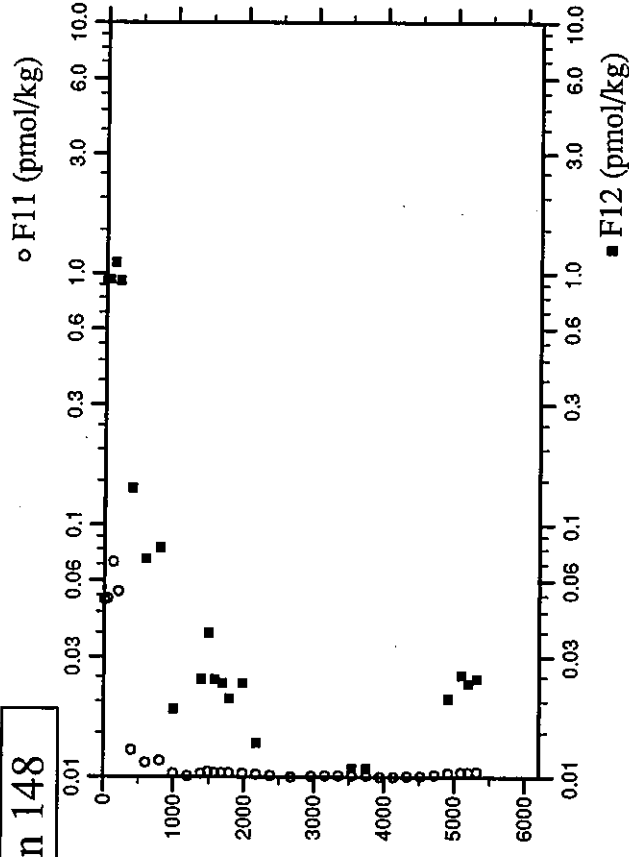
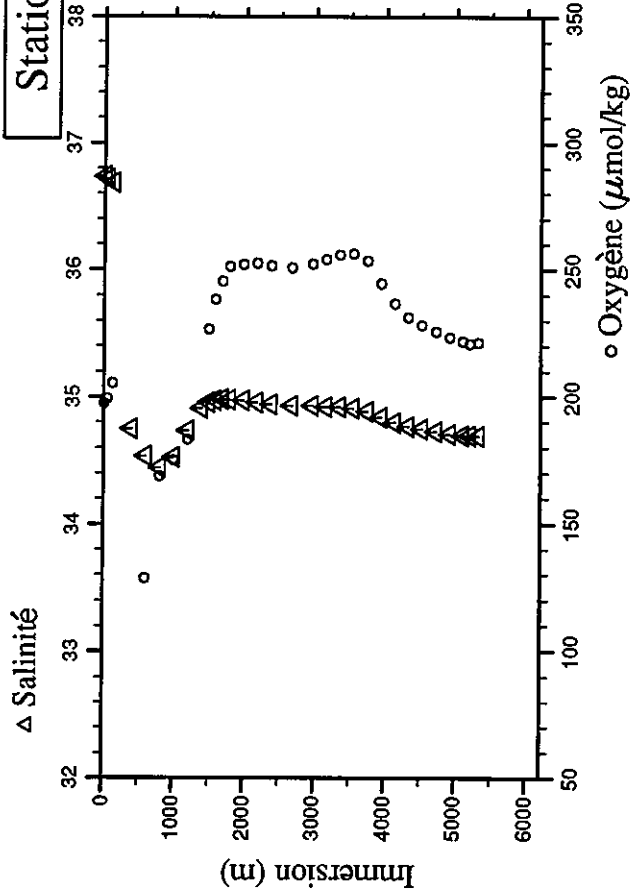




Station : 148 Campagne : CITHER 2  
 Date : 24-02-94 Heure : 20 h 40 mn  
 Position : S 10 27.40 W 30 25.96  
 Dernier niveau à : 5417  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	PH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.1	5.1	28.049	23.7018	36.736	197.4	0.00	0.090	1.0	1.6403	0.9482	2045.62	2415.3	8.383
51.4	51.1	27.964	23.9170	36.714	199.2	0.04	0.084	1.0	1.6541	0.9394	2048.17	2415.0	8.380
124.6	123.9	22.905	25.7689	36.684	205.4	0.04	0.223	1.1	1.9904	1.1045	2090.72	2416.8	8.314
200.1	198.9	16.114	27.1621	35.722	142.3	r	1.032	4.6	1.7151	0.9294	2152.10	2357.5	8.095
401.2	398.5	8.328	28.8478	34.750	106.0	r	2.089	16.4	0.2491	0.1398	2214.30	2310.8	7.835
599.8	595.5	6.040	29.9239	34.536	128.6		2.285	23.4	0.1324	0.0734	2218.28	2307.1	7.826
800.7	794.6	4.429	30.9806	34.443	168.8		2.281	31.7	0.1514	0.0812	2210.90	2314.8	7.854
1000.6	992.5	3.791	32.0335	34.524	175.2		2.240	37.6	0.0341	0.0186	2216.50	2321.3	7.897
1200.8	1190.6	3.968	33.0830	34.733	183.1		2.240	31.4	0.0071	0.0010	2207.63	2325.9	7.897
1398.9	1386.3	4.154	34.0930	34.910	210.6	r	1.630	22.4	0.0314	0.0244	2187.40	2327.3	7.952
1499.3	1485.5	4.074	34.5932	34.957	226.4		1.468	19.6	0.0496	0.0372	2176.85	2329.2	7.976
1599.4	1584.3	3.875	35.0829	34.972	238.1		1.393	19.1	0.0371	0.0244	2169.27	2328.0	7.994
1700.7	1684.2	3.682	35.5694	34.980	245.2		1.339	19.0	0.0350	0.0235	2165.80	2330.6	8.006
1799.1	1781.2	3.541	36.0310	34.979	251.1		1.320	19.7	0.0375	0.0205	2166.04	2331.0	8.008
1999.7	1978.9	3.276	36.9605	34.972	251.9		1.288	21.8	0.0328	0.0235	2166.66	2332.4	8.008
2199.6	2175.7	3.056	37.8760	34.957	252.4		1.298	25.0	0.0237	0.0137	2169.47	2331.2	8.004
2399.3	2372.1	2.857	38.7843	34.943	251.4		1.350	27.7	0.0148	0.0068	2172.47	2335.4	8.004
2699.9	2667.5	2.633	40.1377	34.929	250.6		1.377	31.7	0.0028	0.0049	2176.66	2339.7	8.005
2998.5	2960.4	2.484	41.4702	34.932	252.1		1.373	32.9	0.0053	0.0049	2176.77	2344.4	8.006
3198.2	3156.2	2.399	42.3549	34.923	254.0		1.346	33.0	0.0110	0.0059	2176.64	2342.2	8.005
3397.7	3351.5	2.307	43.2362	34.922	255.6		1.345	33.6	0.0154	0.0098	2177.21	2344.8	8.008
3596.3	3545.8	2.175	44.1134	34.910	256.3		1.367	35.9	0.0127	0.0108	2179.11	2346.1	8.008
3799.8	3744.7	1.901	45.0230	34.883	253.4		1.433	45.2	0.0112	0.0108	2187.87	2352.5	7.992
4000.2	3940.4	1.500	45.9253	34.840	244.4		1.627	64.6	0.0005	0.0029	2205.92	2361.2	7.970
4200.1	4135.4	1.122	46.8229	34.800	236.5		1.805	81.6	0.0016	0.0010	2223.11	2370.2	7.945
4400.7	4331.0	0.850	47.7128	34.770	231.3		1.913	93.7	0.0050	0.0059	2233.72	2375.4	7.928
4599.0	4524.1	0.651	48.5795	34.748	228.2		1.999	102.1	0.0099	0.0068	2237.39	2378.5	7.915
4798.8	4718.6	0.465	49.4526	34.726	225.6		2.063	109.0	0.0170	0.0068	2245.58	2380.7	7.908
4998.5	4912.7	0.276	50.3238	34.708	223.4		2.146	116.7	0.0361	0.0205	2255.90	2381.5	7.890
5198.7	5104.3	0.158	51.1718	34.699	221.9		2.169	119.9	0.0421	0.0254	2254.90	2382.1	7.885
5398.0	5203.6	0.132	51.6066	34.696	220.8		2.178	121.4	0.0423	0.0235	2258.22	2385.7	7.881
5416.8	5318.9	0.112	52.1101	34.693	221.4		2.186	122.1	0.0484	0.0245	2260.53	2383.3	7.883

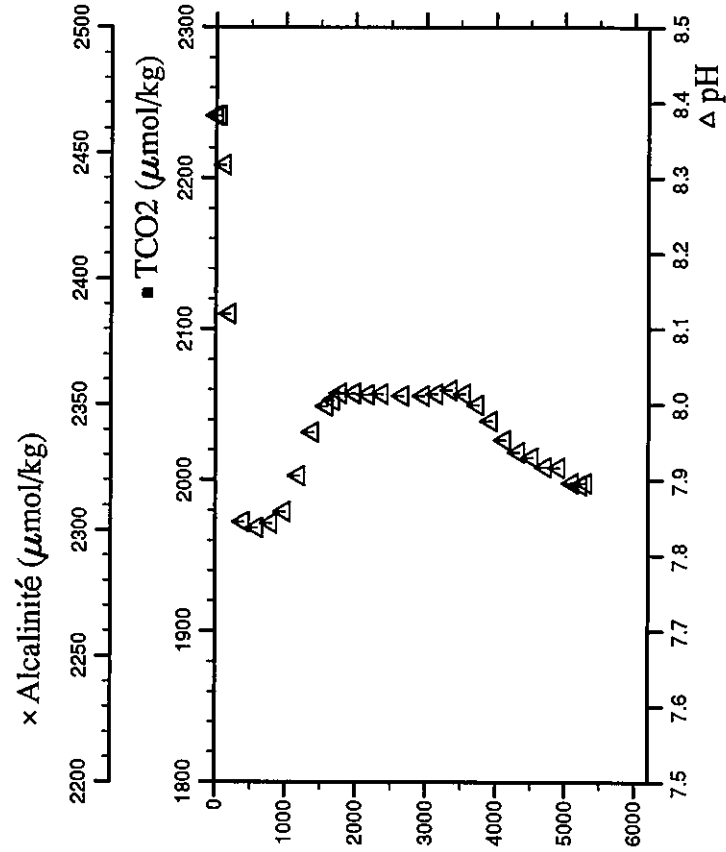
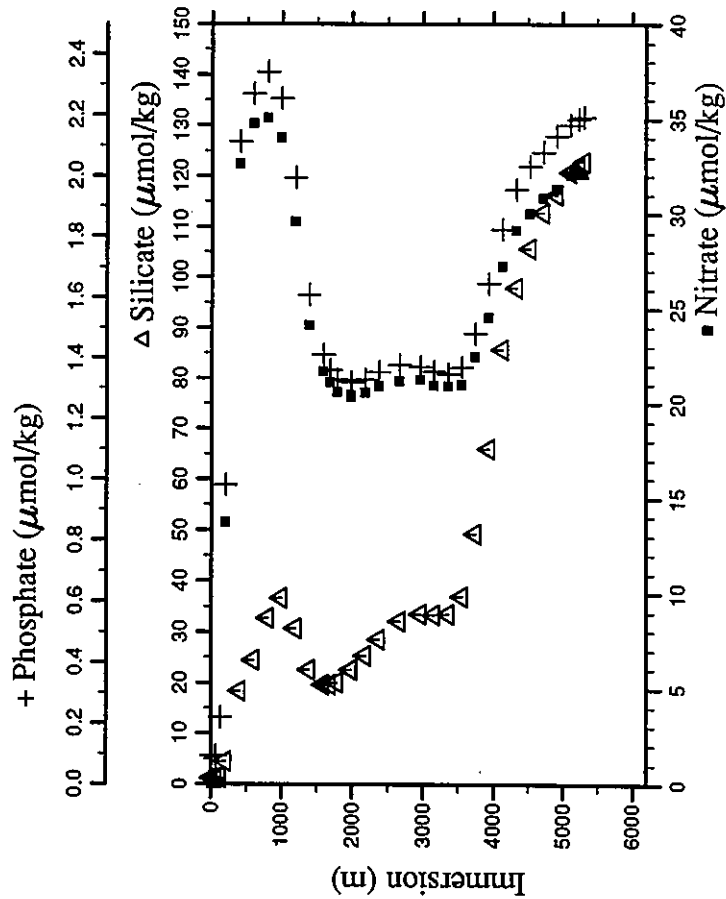
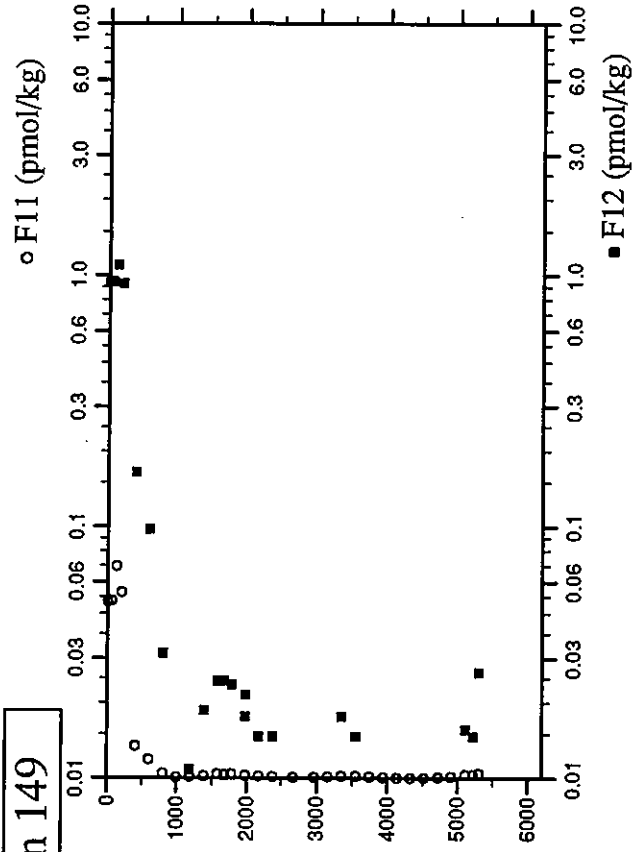
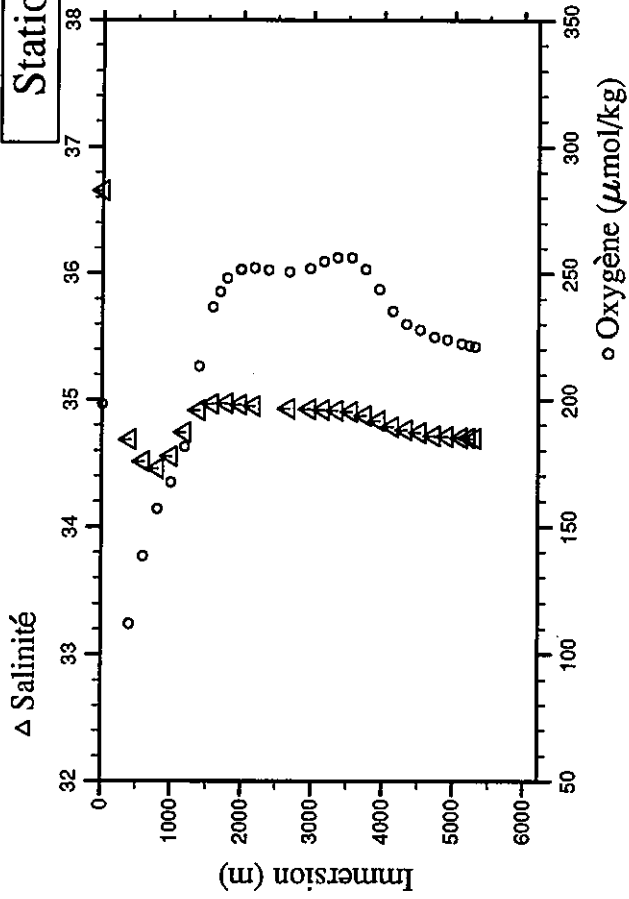
d



Station : 149 Campagne : CITHER 2  
 Date : 25-02-94 Heure : 3 h 35 mn  
 Position : S 9 57.56 W 30 24.35  
 Dernier niveau à : 5400  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.7	4.7	27.852	23.7087	36.656	198.2	0.04	0.093	1.2	1.6335	0.9463			8.383
61.7	61.3	27.844	23.9560	36.668	198.9	0.04	0.093	1.2	1.6475	0.9434			8.383
126.2	125.4	22.249	25.9107	36.731	204.4	0.08	0.219	1.3	1.9670	1.0938			8.318
202.1	200.9	15.907	27.1783	35.794	143.7	13.72	0.982	4.5	1.7244	0.9275			8.120
402.2	399.5	7.777	28.8836	34.686	112.0	32.66	2.114	18.4	0.2970	0.1643			7.845
600.4	596.1	5.824	29.9398	34.516	138.4	34.75	2.271	24.5	0.1739	0.0978			7.837
802.2	796.1	4.467	30.9952	34.459	157.0	35.05	2.342	32.7	0.0429	0.0313			7.843
998.0	990.0	3.932	32.0329	34.555	167.5	34.00	2.256	36.6	0.0066	0.0059			7.858
1200.7	1190.5	4.027	33.0863	34.743	181.5	29.61	1.994	30.7	0.0151	0.0108			7.906
1399.5	1386.9	4.143	34.1009	34.914	213.2	24.14	1.608	22.6	0.0216	0.0186			7.963
1599.2	1584.1	3.908	35.0734	34.966	236.5	21.69	1.411	19.6	0.0400	0.0244			7.998
1699.8	1683.3	3.745	35.5520	34.976	242.7	21.11	1.362	19.6	0.0336	0.0244			8.006
1801.7	1783.8	3.595	36.0330	34.972	248.1	20.61	1.329	20.0	0.0346	0.0235			8.015
1999.0	1978.2	3.295	36.9515	34.963	251.4	20.45	1.321	22.6	0.0260	0.0176			8.015
2000.5	1979.7	3.294	36.9577	34.963	251.6	20.33	1.321	22.6	0.0242	0.0215			8.015
2198.3	2174.5	3.072	37.8637	34.953	252.1	20.58	1.329	25.4	0.0172	0.0147			8.013
2401.7	2374.5	2.854	38.7926	34.935	251.4	20.91	1.355	28.5	0.0144	0.0147			8.014
2699.1	2666.7	2.656	40.1289	34.931	250.5	21.18	1.379	32.1	0.0098	0.0059			8.012
2999.4	2961.4	2.507	41.4682	34.924	251.8	21.26	1.372	33.5	0.0083	0.0068			8.012
3199.9	3157.9	2.423	42.3569	34.921	254.7	20.95	1.357	33.3	0.0133	0.0059			8.014
3398.2	3352.0	2.337	43.2329	34.918	256.2	20.91	1.348	33.5	0.0212	0.0176			8.019
3599.5	3549.0	2.168	44.1260	34.905	256.1	20.98	1.369	36.9	0.0189	0.0147			8.014
3797.5	3742.5	1.818	45.0191	34.875	251.6	22.49	1.481	49.2	0.0141	0.0098			8.000
3999.3	3939.6	1.481	45.9211	34.833	243.8	24.54	1.647	66.0	0.0101	0.0078			7.979
4197.4	4132.9	1.068	46.8142	34.786	235.2	27.25	1.826	85.7	0.0023	0.0039			7.953
4398.6	4329.0	0.769	47.7079	34.762	230.1	29.16	1.956	97.9	0.0034	0.0049			7.937
4597.9	4523.1	0.586	48.5806	34.743	227.8	30.05	2.032	105.7	0.0037	0.0010			7.930
4798.0	4717.9	0.417	49.4530	34.719	224.8	30.86	2.079	112.8	0.0104	0.0039			7.918
4996.0	4910.4	0.314	50.3060	34.714	224.0	31.33	2.132	116.4	0.0124	0.0068			7.917
5198.9	5107.5	0.200	51.1781	34.703	222.4	32.08	2.169	120.8	0.0288	0.0156			7.896
5319.3	5224.4	0.178	51.6886	34.702	221.7	32.12	2.187	121.8	0.0335	0.0147			7.894
5401.0	5303.7	0.143	52.0366	34.698	221.2	32.11	2.193	122.8	0.0422	0.0264			7.896

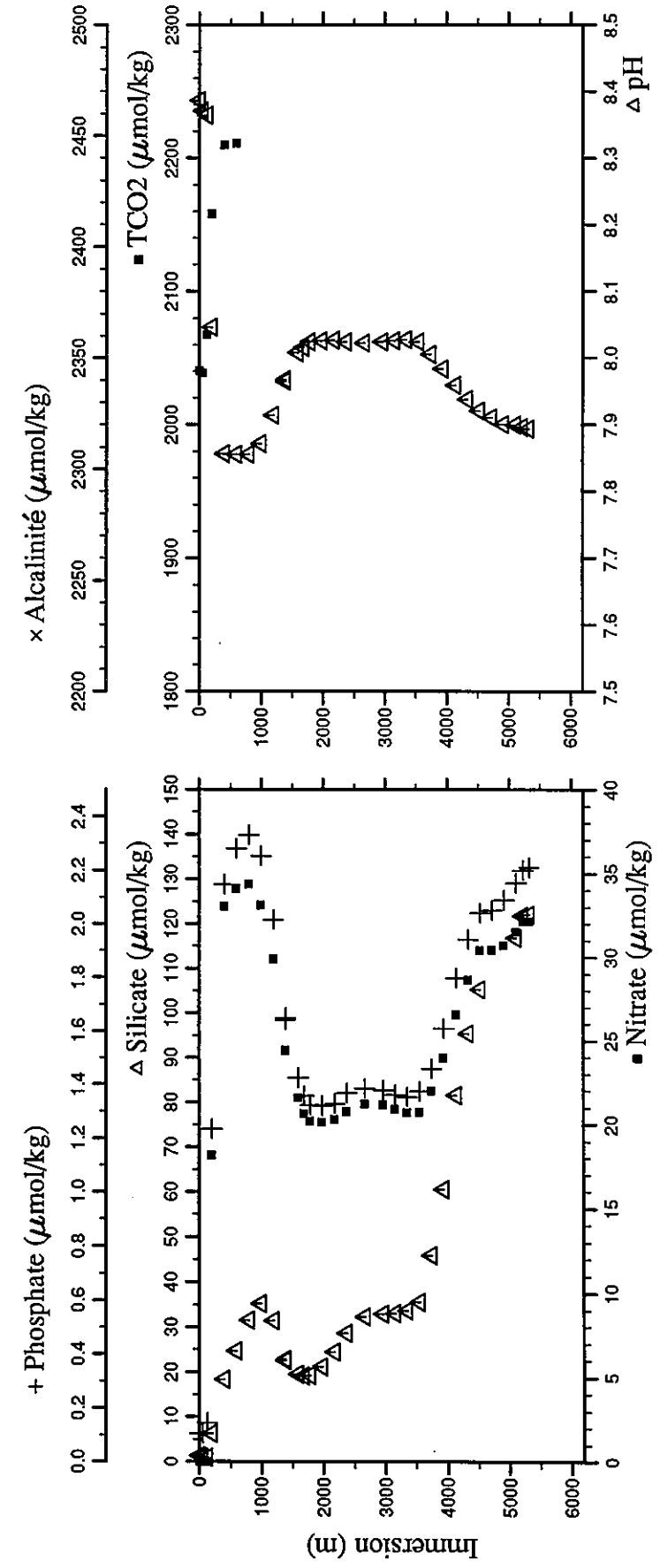
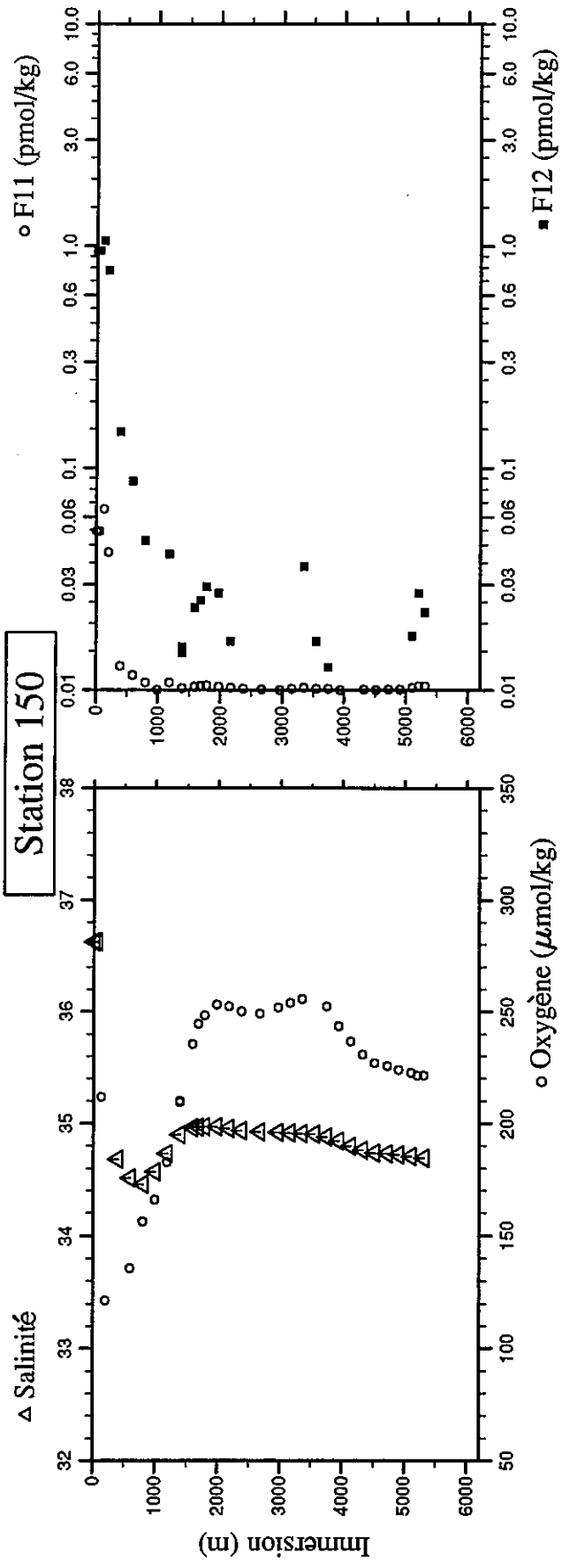
# Station 149



Station : 150 Campagne : CITHER 2  
 Date : 25-02-94 Heure : 10 h 4 mn  
 Position : S 9 27.75 W 30 22.65  
 Dernier niveau à : 5411  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.1	7.1	27.772	23.7219	36.625	198.8	r	0.105	1.3	1.6693	0.9483	2040.38		8.386
51.1	50.8	27.663	23.9403	36.622	199.1	r	0.105	1.1	1.6665	0.9502	2038.73		8.371
125.5	124.8	24.601	25.4445	36.902	211.7		0.144	1.0	1.8991	1.0506	2067.55		8.364
199.5	198.3	14.855	27.3158	35.552	121.5	r	1.234	6.3	1.4518	0.7760	2158.34		8.046
400.3	397.7	7.736	28.8787	34.681	107.9	r	2.148	18.4	1.4518	0.1457	2210.08		7.857
601.7	597.4	5.816	29.9465	34.515	135.7		2.281	24.7	0.1538	0.0871	2211.17		7.856
801.5	795.4	4.559	30.9796	34.456	156.3		2.332	31.6	0.0765	0.0470			7.856
999.6	991.6	3.948	32.0484	34.570	165.8		2.254	35.2	0.0023	0.0059			7.872
1200.2	1190.0	4.011	33.0747	34.730	182.8		2.016	31.4	0.0815	0.0411			7.914
1399.2	1386.7	4.167	34.0876	34.902	210.0		1.641	22.6	0.0218	0.0156			7.968
1399.3	1386.8	4.165	34.0890	34.902	209.4		1.649	22.8	0.0222	0.0147			7.965
1602.2	1587.1	3.912	35.0856	34.961	235.3		1.425	19.5	0.0396	0.0235			8.008
1699.7	1683.3	3.718	35.5574	34.968	244.4		1.356	19.1	0.0407	0.0254			8.016
1798.0	1780.2	3.595	36.0169	34.974	248.2		1.323	19.3	0.0473	0.0293			8.024
1999.8	1979.1	3.344	36.9506	34.971	253.1		1.321	21.2	0.0346	0.0274			8.026
2199.2	2175.4	3.073	37.8701	34.956	252.4		1.328	24.5	0.0245	0.0166			8.027
2399.6	2372.5	2.852	38.7813	34.935	250.2		1.367	28.6	0.0122	0.0088			8.024
2698.9	2666.6	2.635	40.1282	34.927	249.1		1.385	32.4	0.0067	0.0098			8.023
2999.1	2961.1	2.493	41.4677	34.922	251.9		1.378	33.0	0.0046	0.0049			8.024
3198.4	3156.4	2.402	42.3530	34.916	254.0		1.360	33.1	0.0156	0.0078			8.026
3396.7	3350.6	2.301	43.2291	34.913	255.6		1.353	33.7	0.0236	0.0362			8.028
3602.4	3551.9	2.180	44.1359	34.907	260.5	r	1.373	35.7	0.0162	0.0166			8.024
3798.5	3743.5	1.883	45.0154	34.881	252.4		1.458	45.9	0.0155	0.0127			8.006
3996.3	3936.7	1.550	45.9004	34.843	243.4		1.608	60.6	0.0047	0.0078			7.984
4199.7	4135.2	1.121	46.8187	34.797	236.7		1.798	81.5	-0.0024	0.0020			7.959
4398.9	4329.4	0.792	47.7079	34.764	230.8		1.942	95.4	0.0051	0.0049			7.938
4598.6	4523.9	0.555	48.5878	34.736	227.0		2.042	105.3	0.0021	0.0049			7.921
4798.0	4717.9	0.480	49.4457	34.730	225.8		2.052	107.6	0.0085	0.0078			7.911
4994.8	4909.3	0.368	50.2935	34.720	223.9		2.090	112.2	0.0102	0.0098			7.901
5199.0	5107.7	0.226	51.1750	34.706	222.6		2.153	116.9	0.0231	0.0176			7.900
5308.2	5213.7	0.117	51.6486	34.684	221.3	r	2.199	121.8	0.0441	0.0274			7.896
5411.8	5314.2	0.112	52.0848	34.693	221.3		2.211	122.1	0.0423	0.0225			7.894

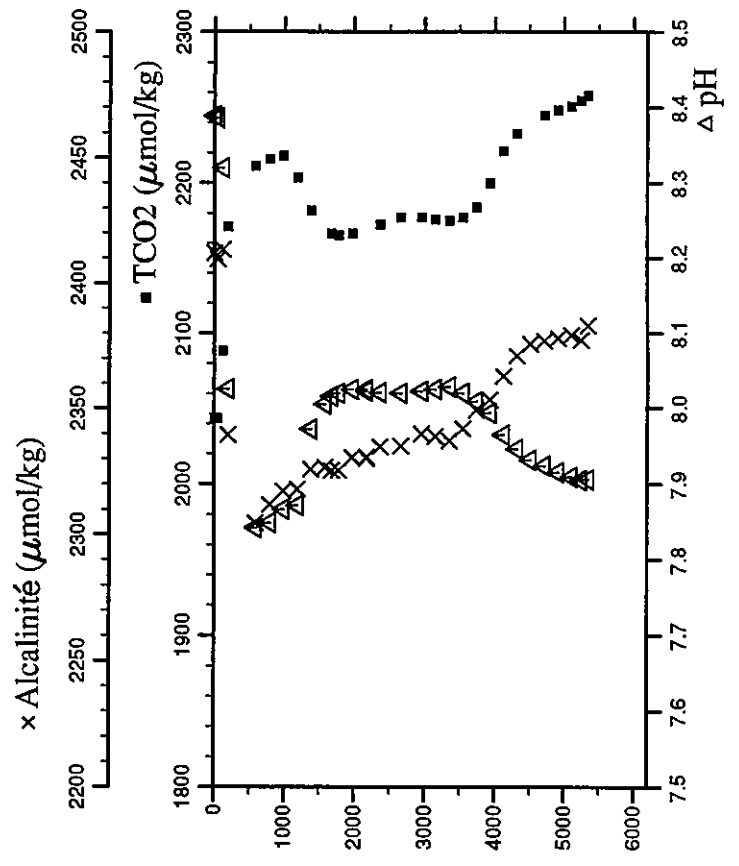
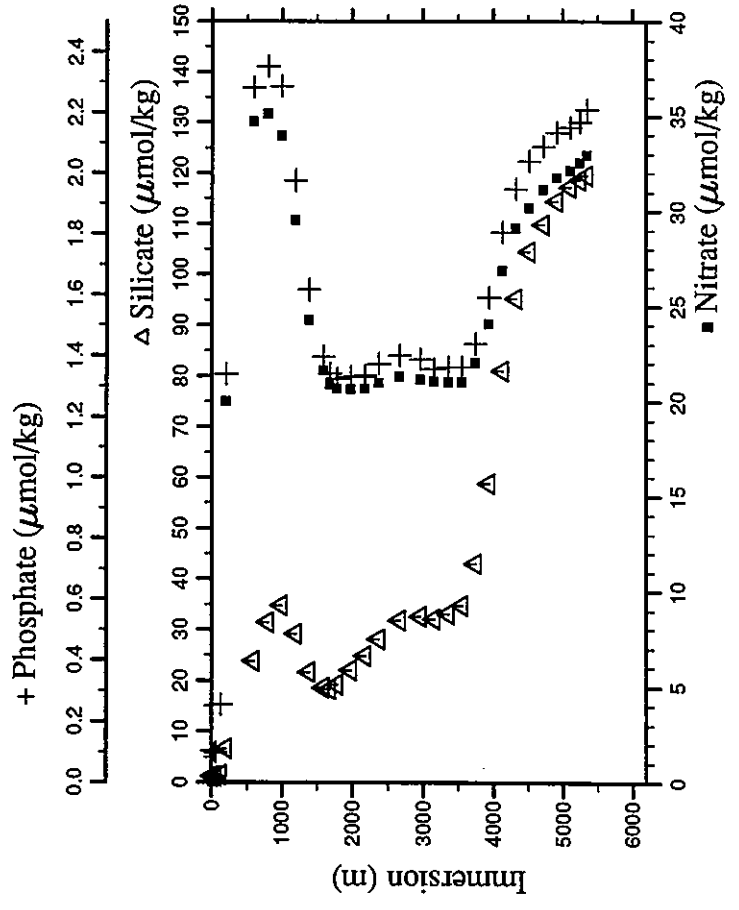
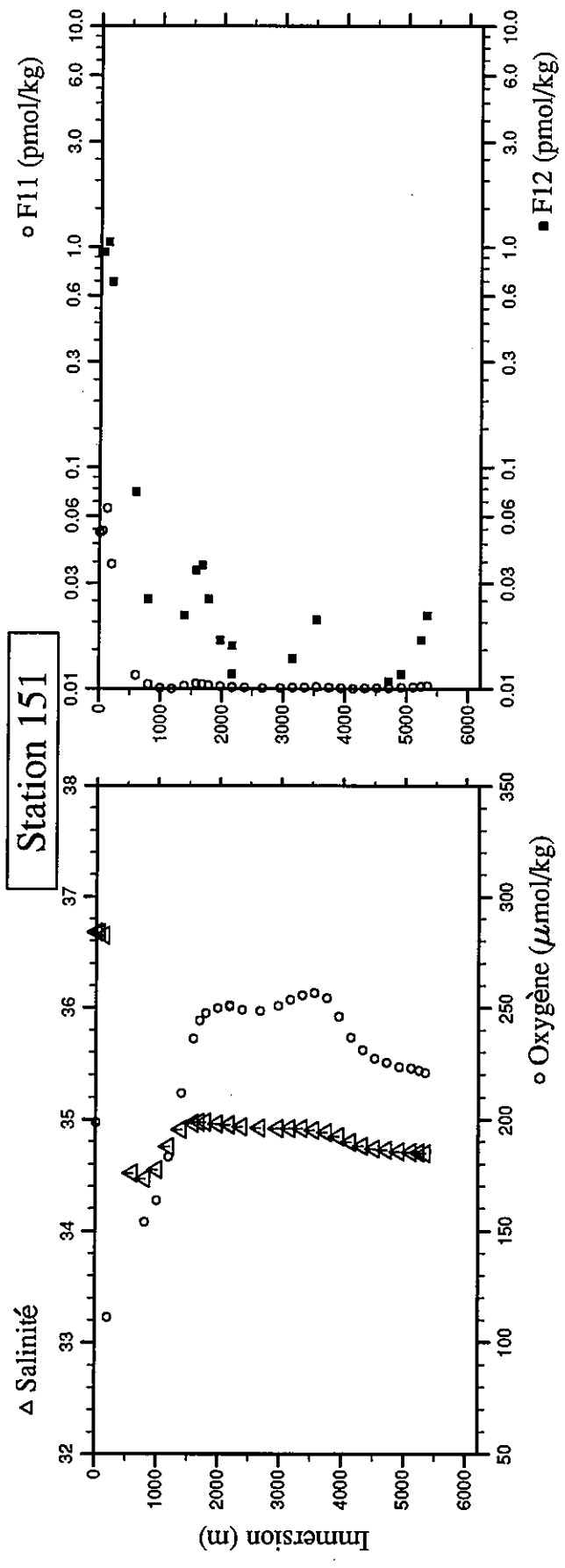
### Station 150



Station : 151 Campagne : CITHER 2  
 Date : 27-02-94 Heure : 22 h 33 mn  
 Position : S 8 57.96 W 30 21.10  
 Dernier niveau à : 5443  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.9	7.9	27.766	23.7687	36.681	198.8	0.04	0.104	1.2	1.6481	0.9453	2043.67	2411.9	8.389
52.6	52.3	27.757	23.9570	36.674		0.04	0.098	1.2	1.6607	0.9453	2043.41	2409.4	8.386
127.1	126.3	22.872	25.7605	36.648	199.6	r	0.256	1.4	1.9021	1.0538	2088.21	2413.2	8.320
199.7	198.5	14.503	27.3725	35.508	111.2	r	1.340	6.7	1.3102	0.6959	2170.78	2339.6	8.026
602.1	597.8	5.859	29.9432	34.517	134.5		2.282	23.8	0.1423	0.0773	2211.10	2304.4	7.842
801.1	795.1	4.522	30.9883	34.466	154.1		2.353	31.4	0.0499	0.0254	2215.77	2311.7	7.849
997.3	989.3	3.990	32.0177	34.551	163.6		2.286	34.8	0.0069	0.0068	2217.84	2317.2	7.867
1198.2	1188.0	4.047	33.0837	34.756	183.1		1.975	29.1	0.0011	0.0049	2203.59	2318.0	7.872
1399.6	1387.1	4.178	34.0952	34.911	211.7		1.617	29.1	0.0315	0.0215	2181.37	2325.8	7.973
1599.2	1584.1	3.932	35.0724	34.967	236.2		1.397	18.6	0.0530	0.0342	2326.5	2326.5	8.006
1699.0	1682.6	3.748	35.5524	34.975	244.2		1.342	18.4	0.0508	0.0362	2166.09	2325.2	8.016
1800.4	1782.6	3.589	36.0281	34.975	247.6		1.324	19.2	0.0366	0.0254	2164.81	2325.4	8.020
1999.0	1978.3	3.297	36.9497	34.963	249.8		1.331	22.0	0.0263	0.0166	2166.18	2330.4	8.025
2197.8	2174.0	3.051	37.8637	34.951	250.5		1.332	24.9	0.0182	0.0117	2330.1	2330.1	8.023
2197.8	2174.0	3.052	37.8637	34.954	251.2		1.335	24.9	0.0168	0.0156	2330.6	2330.6	8.025
2400.5	2373.4	2.841	38.7867	34.937	249.0		1.374	28.2	0.0137	0.0088	2172.40	2334.7	8.021
2700.2	2667.9	2.621	40.1362	34.926	248.5		1.401	31.8	0.0050	0.0059	2176.74	2335.0	8.020
2998.9	2961.0	2.481	41.4697	34.921	250.8		1.389	32.6	0.0085	0.0068	2176.80	2339.8	8.023
3199.3	3157.4	2.405	42.3576	34.922	253.6		1.357	32.1	0.0121	0.0137	2175.49	2338.7	8.025
3398.6	3352.5	2.284	43.2426	34.919	255.7		1.364	33.1	0.0115	0.0068	2174.89	2337.0	8.029
3596.9	3546.5	2.152	44.1158	34.906	256.7		1.364	34.8	0.0177	0.0205	2176.74	2341.9	8.020
3797.1	3742.2	1.931	45.0071	34.885	254.3		1.440	43.0	0.0139	0.0078	2183.63	2349.3	8.009
3996.8	3937.3	1.599	45.9006	34.848	246.0		1.593	58.8	0.0050	0.0049	2199.94	2353.2	7.994
4195.9	4131.5	1.127	46.8035	34.798	236.7		1.806	81.0	0.0031	0.0039	2221.05	2362.6	7.965
4395.9	4326.5	0.781	47.6978	34.763	230.9		1.948	95.3	0.0050	0.0068	2232.49	2370.9	7.946
4594.8	4520.2	0.562	48.5718	34.740	227.1		2.038	104.5	0.0059	0.0059	2370.9	2370.9	7.932
4796.7	4716.7	0.434	49.4464	34.727	225.3		2.087	109.9	0.0105	0.0108	2244.56	2376.8	7.924
4998.2	4912.7	0.316	50.3160	34.713	223.5		2.134	114.5	0.0150	0.0117	2248.25	2377.9	7.916
5197.6	5106.4	0.238	51.1692	34.707	222.9		2.151	117.3	0.0196	0.0088	2250.44	2379.2	7.910
5336.8	5241.5	0.185	51.7621	34.702	221.9		2.168	118.7	0.0245	0.0166	2254.45	2377.2	7.906
5441.6	5343.2	0.149	52.2064	34.697	220.9		2.210	119.6	0.0330	0.0215	2257.98	2382.9	7.907

**Station 151**

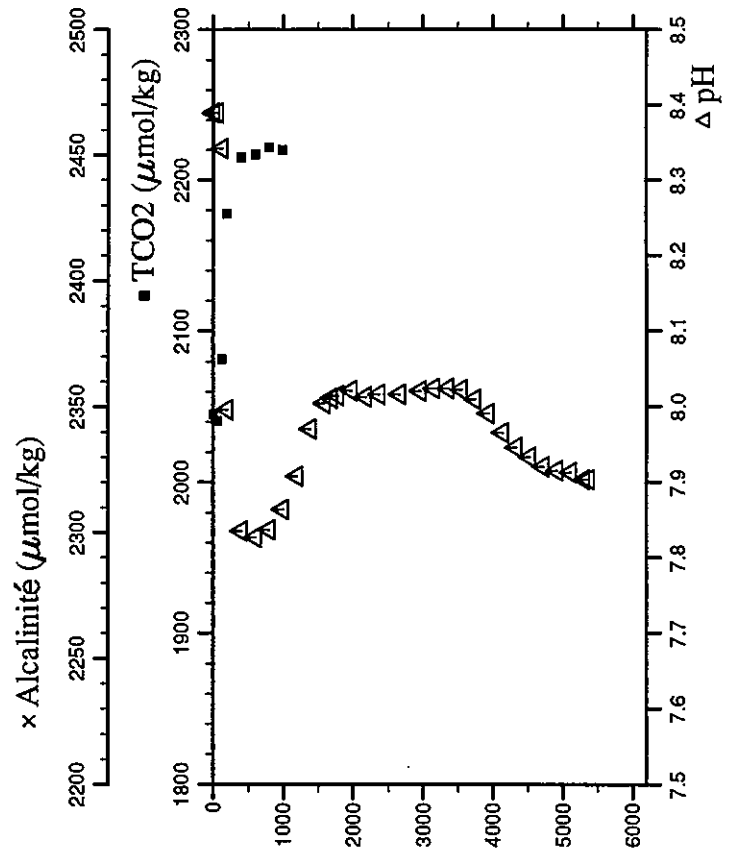
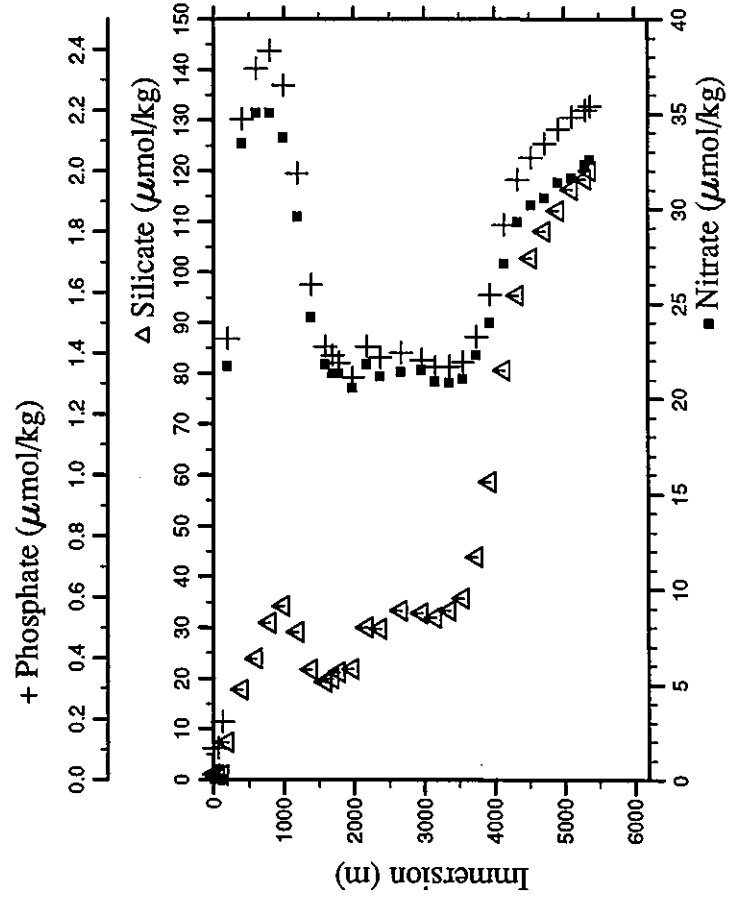
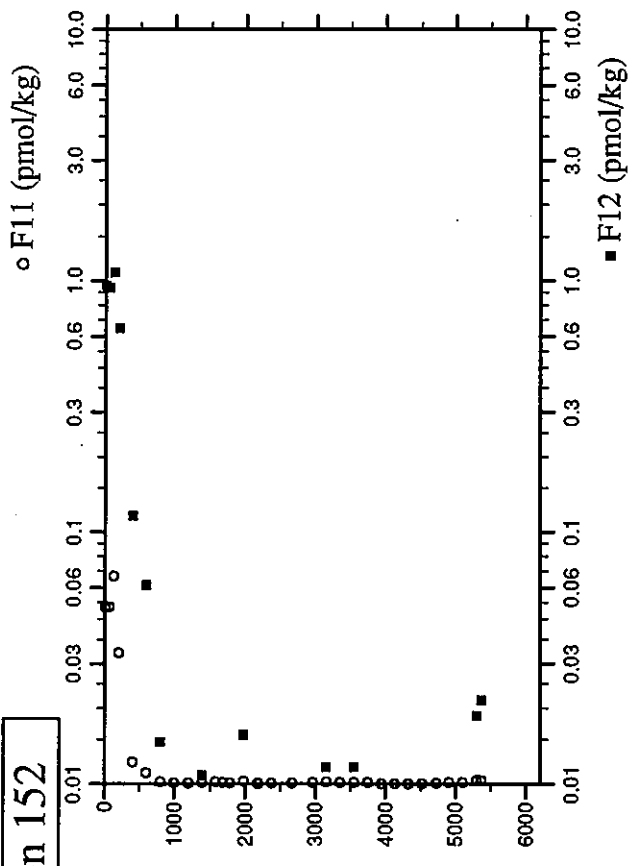
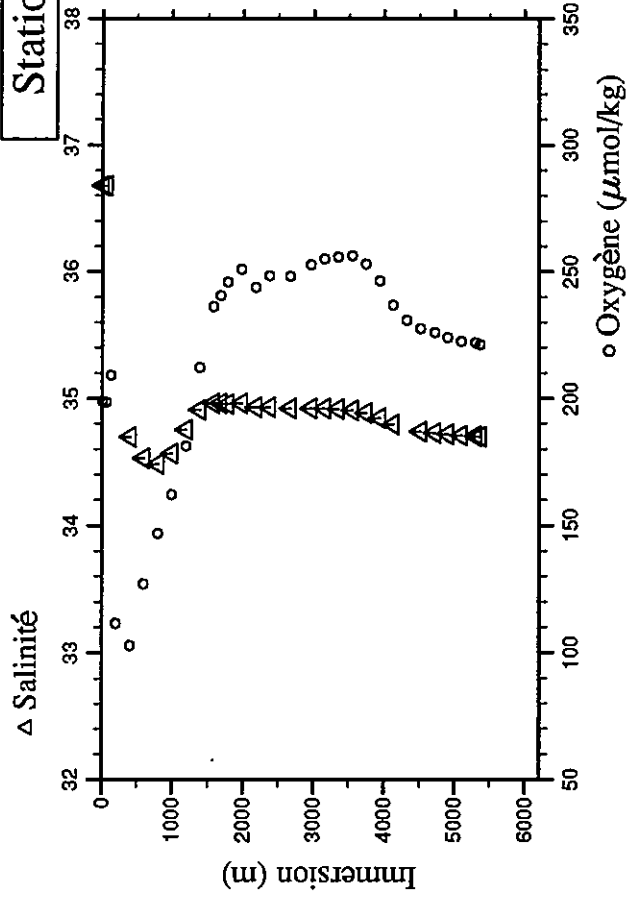




Station : 152 Campagne : CITHER 2  
 Date : 28-02-94 Heure : 4 h 46 mn  
 Position : S 8 28.06 W 30 19.42  
 Dernier niveau à : 5468  
 Nb prélèvements : 32

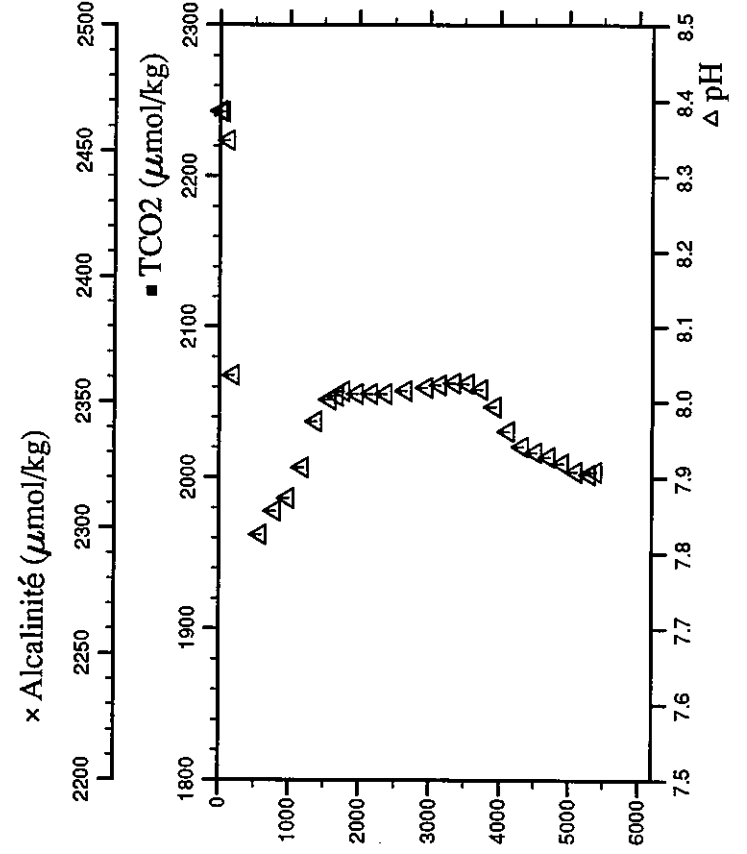
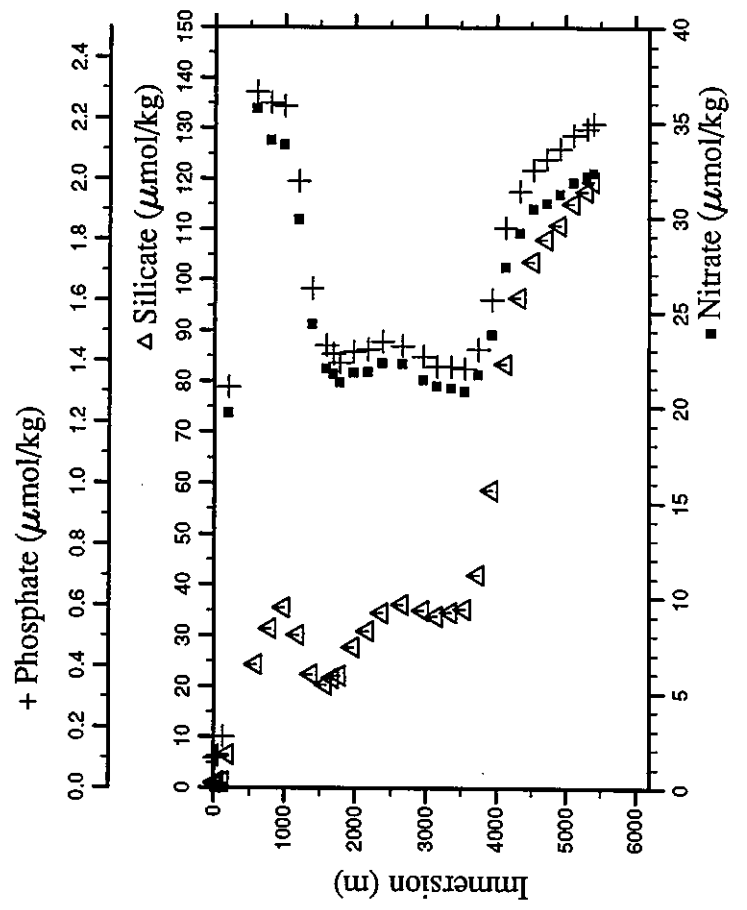
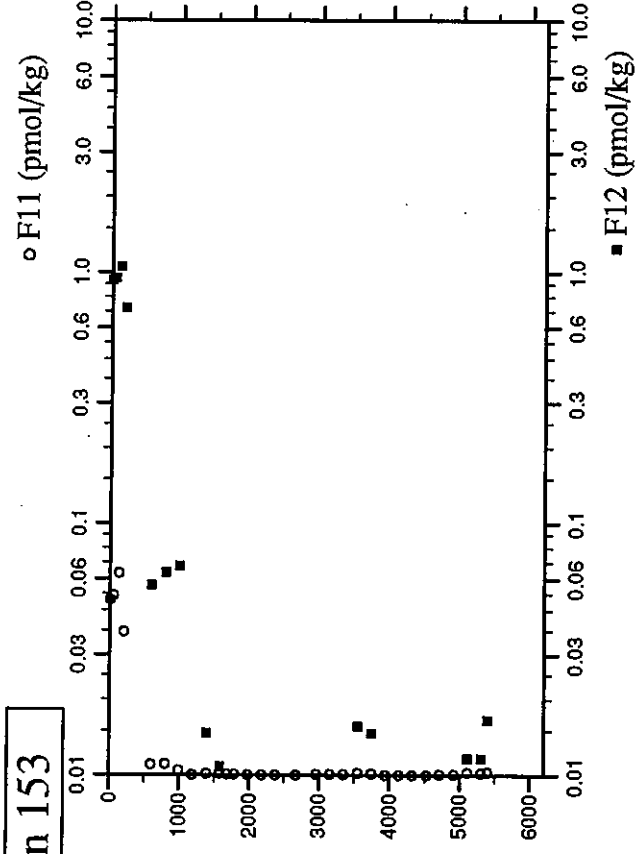
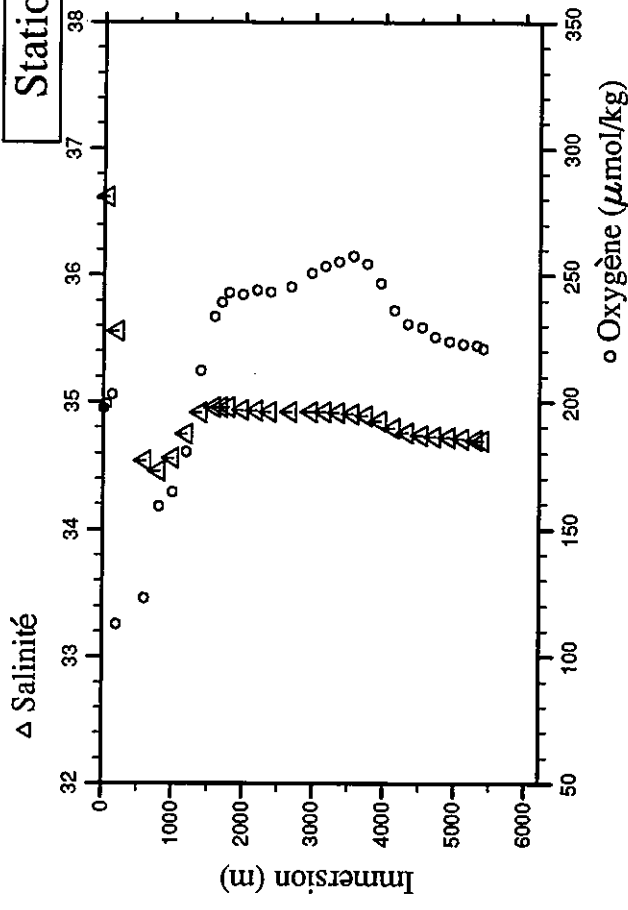
PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.9	4.9	27.690	23.7814	36.680	198.7	0.04	0.104	1.1	1.6314	0.9561	2044.88		8.390
61.3	60.9	27.692	24.0192	36.682	198.4	0.04	0.104	1.0	1.6399	0.9356	2040.66		8.390
126.0	125.3	23.551	25.6935	36.795	r	0.04	0.192	1.0	1.9212	1.0751	2081.66		8.342
200.6	199.4	14.110	27.3916	35.416	r	21.74	1.448	7.4	1.2111	0.6490	2177.67		7.996
402.3	399.7	7.755	28.8943	34.696	102.8	33.45	2.171	17.9	0.2040	0.1164	2214.78		7.835
603.3	599.0	5.881	29.9527	34.527	127.1	35.04	2.337	23.9	0.1031	0.0616	2217.21		7.827
800.9	794.9	4.614	30.9857	34.481	146.8	35.05	2.397	31.0	0.0216	0.0147	2221.84		7.837
1000.9	992.9	4.035	32.0417	34.567	162.1	33.75	2.283	34.3	0.0077	0.0078	2219.95		7.864
1201.5	1191.3	4.077	33.0918	34.752	181.2	29.58	1.993	29.2	0.0050	0.0010			7.908
1401.5	1389.0	4.110	34.1120	34.909	212.3	24.31	1.625	21.8	0.0130	0.0108			7.971
1600.2	1585.1	3.835	35.0841	34.961	236.0	21.82	1.423	19.4	0.0193	0.0098			8.005
1701.4	1685.0	3.667	35.5634	34.963	240.3	21.37	1.393	20.0	0.0128	0.0088			8.012
1799.2	1781.4	3.508	36.0234	34.958	245.8	21.35	1.369	21.3	0.0079	0.0059			8.015
1998.2	1977.5	3.273	36.9495	34.963	250.9	20.58	1.321	21.9	0.0247	0.0156			8.022
2200.4	2176.6	2.931	37.8797	34.931	243.6	21.82	1.422	30.0	0.0043	0.0010			8.013
2200.7	2176.9	2.931	37.8809						0.0059	0.0039			
2399.8	2372.8	2.812	38.7843	34.930	248.4	21.20	1.387	29.8	0.0092	0.0078			8.017
2701.4	2669.1	2.602	40.1421	34.923	248.1	21.43	1.402	33.3	0.0050	0.0010			8.017
2999.8	2961.9	2.484	41.4722	34.921	252.5	21.51	1.379	32.8	0.0112	0.0068			8.021
3198.5	3156.6	2.401	42.3547	34.919	254.9	20.93	1.354	32.0	0.0224	0.0117			8.024
3400.1	3354.0	2.294	43.2462	34.915	255.7	20.85	1.356	33.3	0.0143	0.0078			8.024
3599.5	3549.1	2.150	44.1273	34.903	256.3	21.05	1.372	35.8	0.0166	0.0117			8.023
3798.8	3743.9	1.923	45.0144	34.885	253.0	22.29	1.455	43.9	0.0116	0.0068			8.010
3997.8	3938.3	1.590	45.9051	34.844	246.2	24.00	1.591	58.6	0.0047	0.0068			7.991
4200.4	4136.0	1.103	46.8245	34.796	236.6	27.11	1.823	80.7	0.0035	0.0020			7.966
4399.8	4330.4	0.741	47.7180	34.745	230.7	29.31	1.972	95.4	0.0041	0.0039			7.946
4599.0	4524.4	0.578	48.5874	34.740	227.4	30.19	2.043	102.8	0.0038	0.0059			7.934
4799.1	4719.1	0.447	49.4540	34.726	225.9	30.59	2.089	108.1	0.0091	0.0098			7.921
4995.9	4910.5	0.341	50.3023	34.718	222.0	31.39	2.136	112.2	0.0119	0.0059			7.916
5193.1	5102.1	0.233	51.1495	34.708	224.0	31.64	2.177	116.4	0.0147	0.0098			7.913
5398.5	5301.5	0.172	52.0221	34.700	221.8	32.34	2.200	118.4	0.0301	0.0186			7.904
5462.8	5363.8	0.142	52.2964	34.696	221.2	32.59	2.212	120.0	0.0345	0.0215			7.904

# Station 152



Station : 153 Campagne : CITHER 2  
 Date : 28-02-94 Heure : 10 h 58 mn  
 Position : S 7 58.35 W 30 17.85  
 Dernier niveau à : 5496  
 Nb prélèvements : 31

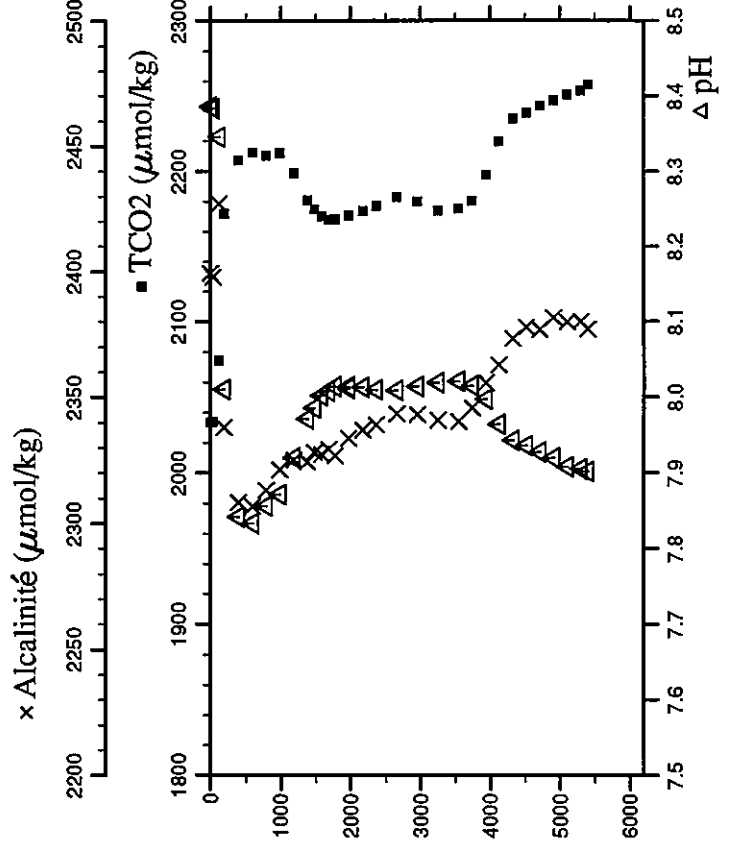
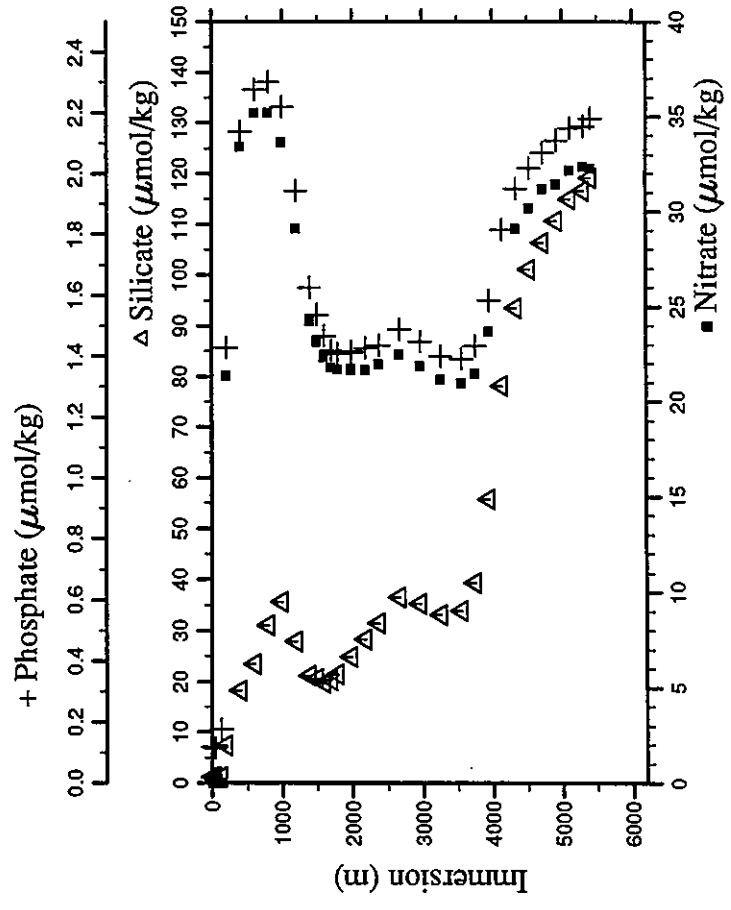
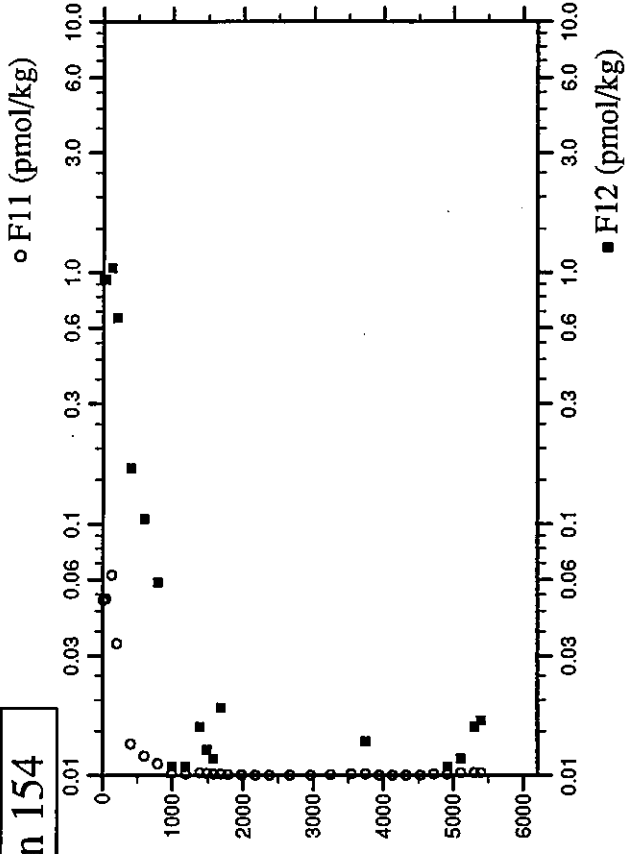
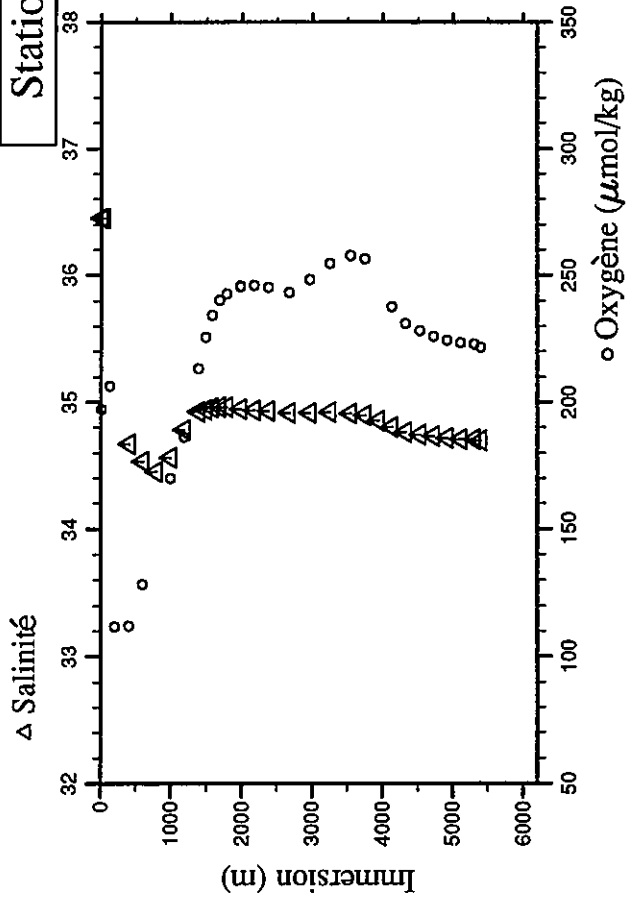
PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
9.0	8.9	27.949	23.6155	36.561	197.4	0.04	0.098	1.0	1.6242	0.9317			8.386
51.2	50.9	27.656	23.9394	36.619	199.1	0.04	0.104	1.2	1.6639	0.9493			8.385
125.3	124.6	24.163	25.5334	36.832	202.9	0.04	0.169	1.2	1.8734	1.0507			8.347
201.1	199.9	14.865	27.3175	35.556	112.8	19.66	1.315	6.5	1.3264	0.7184			8.035
599.5	595.3	6.029	29.9246	34.540	122.9	35.71	2.286	24.3	0.0992	0.0567			7.824
801.1	795.1	4.579	30.9749	34.456	159.1	34.02	2.251	31.4	0.1021	0.0636			7.856
1001.7	993.7	4.002	32.0443	34.559	164.7	33.80	2.241	35.5	0.0417	0.0675			7.873
1200.0	1189.9	4.060	33.0845	34.746	180.3	29.87	1.992	30.2	0.0018	0.0020			7.913
1400.5	1388.0	4.146	34.1061	34.917	212.2	24.33	1.638	22.4	0.0148	0.0147			7.974
1599.0	1584.0	3.846	35.0740	34.957	233.6	22.00	1.452	20.4	0.0138	0.0108			8.003
1703.1	1686.7	3.645	35.5706	34.956	239.1	21.72	1.425	21.7	0.0084	0.0068			8.008
1800.2	1782.4	3.499	36.0280	34.956	243.0	21.30	1.395	22.2	0.0097	0.0049			8.014
1999.5	1978.9	3.162	36.9552	34.938	242.3	21.80	1.430	27.7	0.0031	0.0068			8.011
2201.2	2177.4	2.917	37.8848	34.931	244.1	21.84	1.440	30.9	0.0015	0.0029			8.011
2402.9	2375.8	2.735	38.8006	34.923	243.1	22.31	1.464	34.5	0.0047	0.0000			8.011
2700.7	2668.4	2.572	40.1400	34.919	245.2	22.27	1.451	36.2	0.0003	0.0010			8.015
2999.4	2961.5	2.462	41.4721	34.919	250.7	21.42	1.417	35.0	0.0053	0.0049			8.019
3200.0	3158.1	2.390	42.3607	34.919	253.4	21.07	1.382	33.8	0.0078	0.0068			8.023
3400.4	3354.4	2.295	43.2466	34.914	255.2	20.99	1.382	34.6	0.0066	0.0059			8.025
3600.3	3550.0	2.173	44.1293	34.907	257.4	20.83	1.376	35.3	0.0222	0.0156			8.024
3798.1	3743.3	1.977	45.0047	34.890	254.5	21.69	1.439	42.0	0.0121	0.0147			8.017
3998.3	3938.8	1.598	45.9061	34.849	246.9	23.80	1.602	58.7	0.0027	0.0059			7.994
4198.8	4134.5	1.059	46.8231	34.792	236.1	27.34	1.839	83.4	0.0034	0.0029			7.962
4399.4	4330.0	0.743	47.7152	34.759	230.8	29.14	1.961	96.5	0.0034	0.0020			7.941
4600.6	4526.0	0.563	48.5963	34.740	229.4	30.43	2.030	103.7	0.0048	0.0078			7.934
4797.5	4717.6	0.467	49.4464	34.729	225.6	30.73	2.066	108.1	0.0053	0.0068			7.928
4999.0	4913.6	0.373	50.3117	34.723	224.0	31.23	2.101	110.9	0.0107	0.0098			7.919
5197.8	5106.7	0.262	51.1653	34.710	223.0	31.83	2.146	115.2	0.0253	0.0117			7.908
5396.4	5299.5	0.187	52.0119	34.703	222.3	32.18	2.167	117.6	0.0224	0.0117			7.905
5494.5	5394.7	0.159	52.4271	34.697	221.1	32.33	2.183	119.5	0.0314	0.0166			7.908



Station : 154 Campagne : CITHER 2  
 Date : 28-02-94 Heure : 17 h 58 mn  
 Position : S 7 28.45 W 30 16.18  
 Dernier niveau à : 5498  
 Nb prélèvements : 32

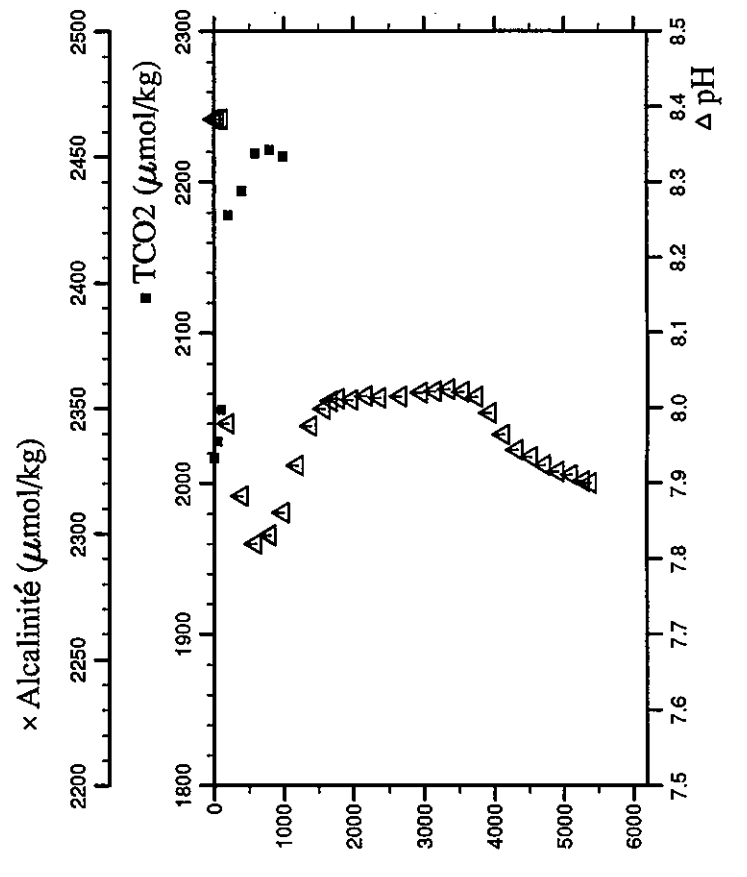
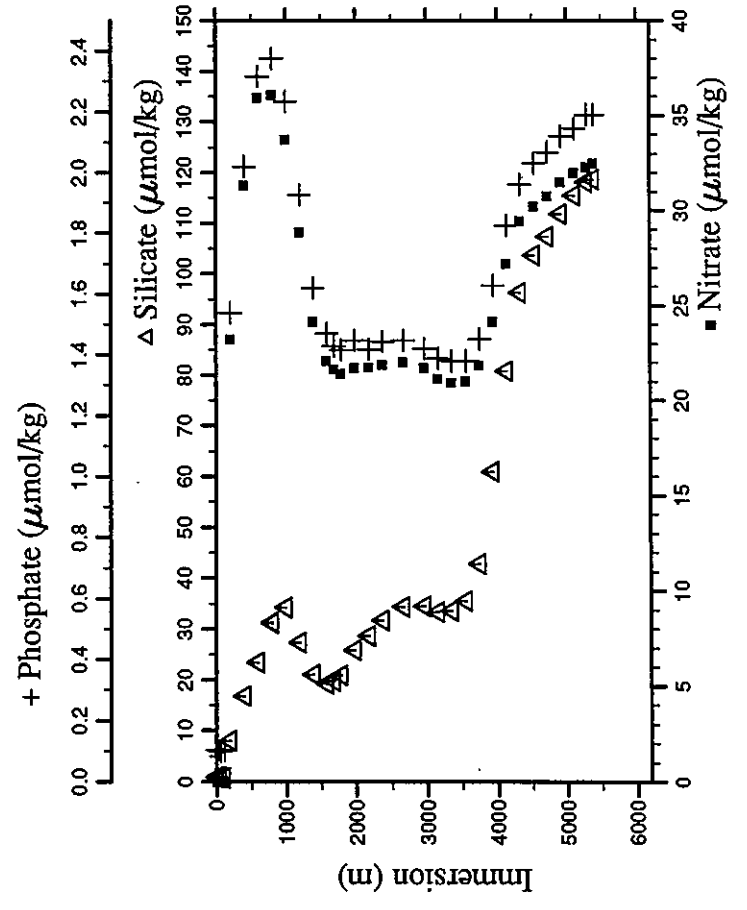
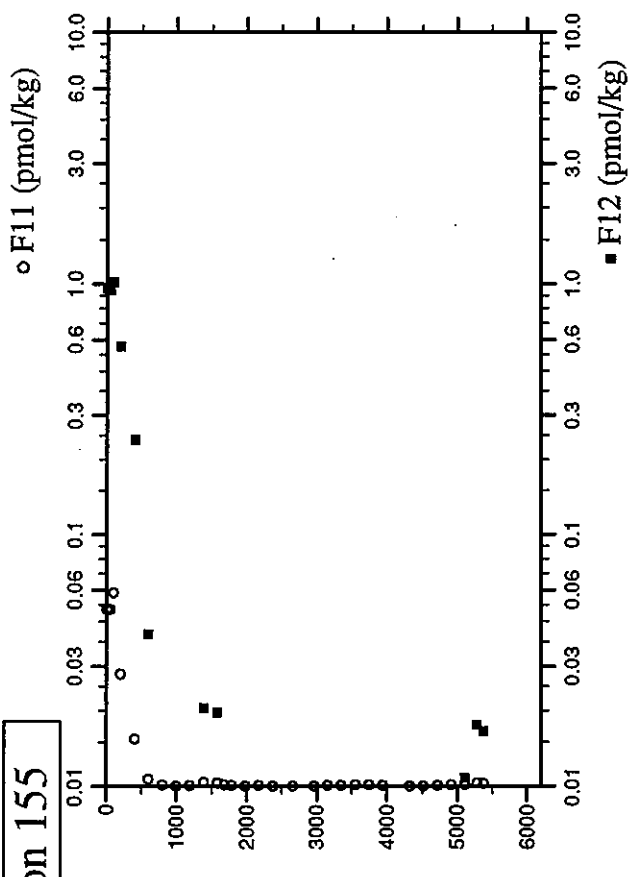
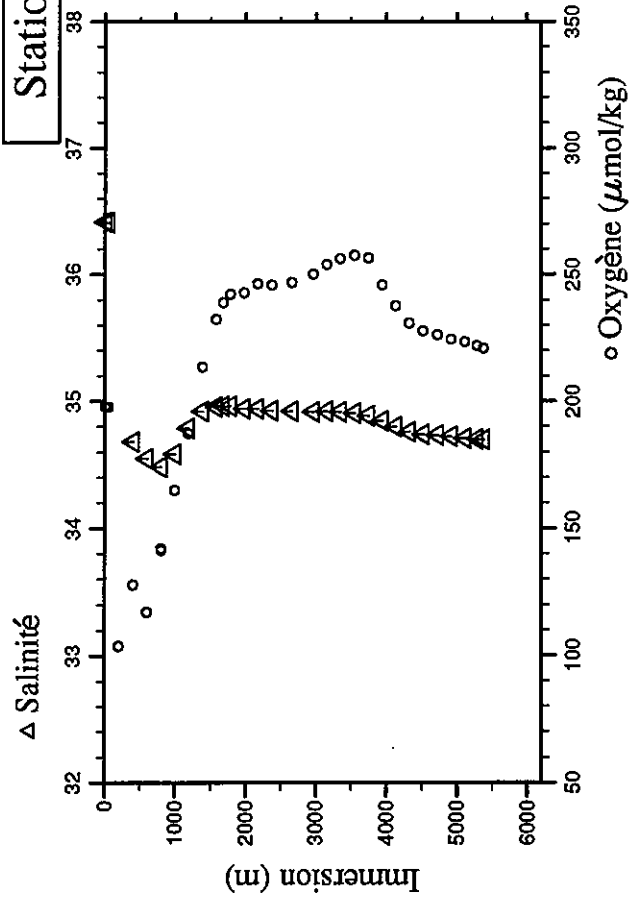
PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg. cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
8.1	8.1	28.175	23.4634	36.451	197.1	0.00	0.119	1.2	1.6266	0.9367	2033.68	2399.2	8.386
41.0	40.8	28.109	23.6224	36.452	197.4	0.00	0.116	1.2	1.6401	0.9367	2033.93	2397.8	8.384
123.0	122.3	24.214	25.5097	36.849	206.4	0.00	0.176	1.2	1.8567	1.0428	2074.34	2427.0	8.346
200.8	199.6	13.639	27.4783	35.395	111.7	21.36	1.428	7.4	1.2212	0.6598	2171.71	2337.9	8.011
402.4	399.8	7.683	28.8923	34.670	112.1	33.44	2.138	18.2	0.2948	0.1663	2207.32	2308.2	7.842
602.6	598.4	6.052	29.9345	34.536	128.3	35.19	2.277	23.5	0.1789	0.1047	2212.48	2306.6	7.834
800.5	794.5	4.524	30.9783	34.454	158.8	35.19	2.301	31.1	0.1085	0.0587	2210.27	2313.1	7.857
1001.2	993.2	3.918	32.0550	34.563	169.9	33.67	2.277	35.6	0.0193	0.0108	2212.17	2321.2	7.872
1200.5	1190.4	4.160	33.1008	34.783	186.2	29.13	1.943	27.9	0.0168	0.0108	2199.08	2324.9	7.920
1401.2	1388.7	4.232	34.1056	34.924	213.3	24.22	1.625	21.1	0.0286	0.0156	2180.80	2324.3	7.972
1503.4	1489.6	4.000	34.6122	34.943	225.6	23.15	1.536	20.5	0.0170	0.0127	2174.82	2328.0	7.986
1601.5	1586.5	3.877	35.0817	34.956	234.4	22.34	1.468	19.7	0.0121	0.0117	2169.89	2327.4	8.002
1702.9	1686.5	3.701	35.5669	34.961	240.2	21.78	1.418	20.2	0.0146	0.0186	2168.04	2329.3	8.008
1798.4	1780.7	3.533	36.0141	34.959	242.7	21.69	1.407	21.4	0.0079	0.0098	2167.90	2326.9	8.014
1999.5	1978.9	3.225	36.9521	34.948	245.5	21.73	1.411	24.9	0.0024	0.0068	2170.47	2333.7	8.012
1999.9	1979.3	3.220	36.9540	34.948	245.8	21.65	1.417	24.9	0.0060	0.0059	2173.38	2337.0	8.013
2199.6	2175.9	2.977	37.8743	34.935	246.0	21.65	1.426	28.3	0.0045	0.0049	2176.99	2339.0	8.010
2396.7	2369.8	2.810	38.7678	34.930	245.3	21.97	1.436	31.4	0.0022	0.0039	2182.98	2343.3	8.009
2702.1	2669.9	2.558	40.1460	34.914	243.3	22.49	1.489	36.5	0.0020	0.0010	2179.67	2343.0	8.014
2998.8	2961.0	2.449	41.4690	34.916	248.4	21.88	1.448	35.3	0.0027	0.0039	2173.98	2340.8	8.019
3296.9	3253.1	2.356	42.7880	34.919	254.7	21.15	1.399	33.1	0.0055	0.0088	2175.20	2340.4	8.021
3598.5	3548.2	2.196	44.1193	34.912	257.6	20.96	1.390	33.9	0.0150	0.0059	2180.41	2345.6	8.015
3797.3	3742.6	1.997	44.9997	34.894	256.4	21.45	1.434	39.3	0.0032	0.0049	2197.55	2355.6	7.997
4001.1	3941.6	1.657	45.9112	34.856	245.7	23.69	1.584	55.7	0.0025	0.0049	2219.60	2362.7	7.964
4196.4	4132.2	1.151	46.8020	34.803	237.5	26.59	1.815	78.1	0.0010	0.0039	2234.81	2373.2	7.943
4399.1	4329.8	0.754	47.7130	34.761	231.1	29.10	1.950	93.5	0.0022	0.0039	2238.77	2377.6	7.936
4600.2	4525.7	0.596	48.5901	34.743	228.2	30.17	2.018	101.1	0.0022	0.0000	2238.77	2377.6	7.936
4801.1	4721.2	0.472	49.4595	34.730	226.0	31.19	2.068	106.3	0.0111	0.0059	2243.50	2376.6	7.928
4999.0	4913.6	0.368	50.3120	34.719	224.4	31.43	2.108	110.7	0.0143	0.0108	2247.25	2381.4	7.920
5201.3	5110.2	0.259	51.1811	34.707	223.4	32.16	2.150	115.0	0.0258	0.0117	2250.91	2379.6	7.908
5397.9	5301.0	0.210	52.0144	34.705	222.8	32.36	2.155	116.6	0.0250	0.0156	2253.47	2379.9	7.906
5499.1	5399.2	0.159	52.4452	34.698	221.6	32.26	2.182	119.1	0.0270	0.0166	2257.74	2376.9	7.902

# Station 154



Station : 155 Campagne : CITHER 2  
 Date : 01-03-94 Heure : 0 h 25 mn  
 Position : S 6 58.76 W 30 14.63  
 Dernier niveau à : 5474  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.3	4.3	28.132	23.4334	36.415	197.8	0.00	0.105	0.9	1.6414	0.9572	2017.20		8.384
51.2	50.9	28.110	23.6348	36.410	197.7	0.00	0.099	0.9	1.6380	0.9436	2028.08		8.384
103.2	102.6	25.774	24.9208	36.821	210.6	0.00	0.102	0.8	1.7952	1.0185	2049.48		8.384
201.8	200.6	13.134	27.5053	35.304	103.8	23.23	1.538	8.1	1.0399	0.5650	2178.20		7.980
401.2	398.6	7.886	28.8642	34.684	127.8	31.31	2.019	16.8	0.4381	0.2386	2194.17		7.884
600.7	596.5	6.115	29.9251	34.550	117.2	35.93	2.316	23.5	0.0693	0.0401	2219.17		7.820
800.6	794.6	4.666	30.9839	34.485	141.2	36.08	2.376	31.2	0.0124	0.0088	2221.34		7.831
801.5	795.5	4.642	30.9912	34.485	142.0	36.08	2.376	31.3	0.0122	0.0078			7.832
1001.0	993.0	3.994	32.0638	34.584	165.0	33.74	2.234	34.3	0.0017	0.0029	2217.05		7.862
1199.0	1188.9	4.150	33.1037	34.791	187.4	28.86	1.926	27.4	0.0090	0.0049			7.924
1400.4	1387.9	4.212	34.1019	34.923	213.4	24.13	1.619	21.0	0.0352	0.0205			7.977
1598.0	1583.0	3.926	35.0590	34.957	232.4	22.07	1.471	19.2	0.0287	0.0196			8.000
1700.7	1684.4	3.737	35.5492	34.960	238.9	21.63	1.428	19.8	0.0133	0.0059			8.010
1798.5	1780.8	3.559	36.0110	34.960	242.3	21.38	1.416	20.9	0.0105	0.0029			8.013
1998.5	1977.9	3.220	36.9422	34.943	242.7	21.69	1.448	25.8	0.0037	0.0029			8.012
2199.2	2175.5	2.971	37.8724	34.939	246.3	21.74	1.418	28.6	0.0062	0.0039			8.017
2399.2	2372.3	2.773	38.7829	34.925	245.8	21.88	1.444	31.7	0.0041	0.0039			8.014
2696.0	2663.9	2.589	40.1182	34.922	246.8	21.99	1.448	34.4	0.0045	0.0039			8.016
2999.1	2961.3	2.455	41.4703	34.915	250.2	21.68	1.421	34.5	0.0040	0.0068			8.021
3198.4	3156.7	2.380	42.3557	34.921	254.0	21.11	1.389	33.3	0.0087	0.0059			8.023
3397.7	3351.8	2.290	43.2361	34.915	256.3	20.92	1.380	33.6	0.0085	0.0098			8.025
3598.7	3548.5	2.153	44.1251	34.903	257.4	20.98	1.380	35.5	0.0166	0.0098			8.015
3796.6	3741.9	1.927	45.0028	34.886	256.4	21.83	1.452	42.7	0.0150	0.0088			7.994
3996.3	3937.0	1.546	45.9029	34.845	245.8	24.12	1.629	60.9	0.0050	0.0020			7.965
4198.0	4133.8	1.121	46.8152	34.797	237.5	27.18	1.825	80.8	-0.0018	0.0000			7.945
4397.2	4328.0	0.764	47.7039	34.760	230.8	29.42	1.961	96.3	0.0017	0.0049			7.935
4597.2	4522.8	0.585	48.5783	34.740	227.6	30.19	2.030	103.6	0.0017	0.0029			7.924
4799.4	4719.6	0.481	49.4517	34.732	226.1	30.73	2.067	107.4	0.0076	0.0059			7.916
4997.5	4912.2	0.382	50.3028	34.720	224.3	31.50	2.120	111.8	0.0129	0.0098			7.912
5197.6	5106.6	0.267	51.1636	34.709	223.3	31.96	2.146	115.5	0.0155	0.0108			7.903
5377.5	5281.3	0.188	51.9304	34.702	221.8	32.28	2.189	118.1	0.0304	0.0176			7.901
5477.3	5378.1	0.166	52.3530	34.699	220.9	32.46	2.189	118.6	0.0251	0.0166			

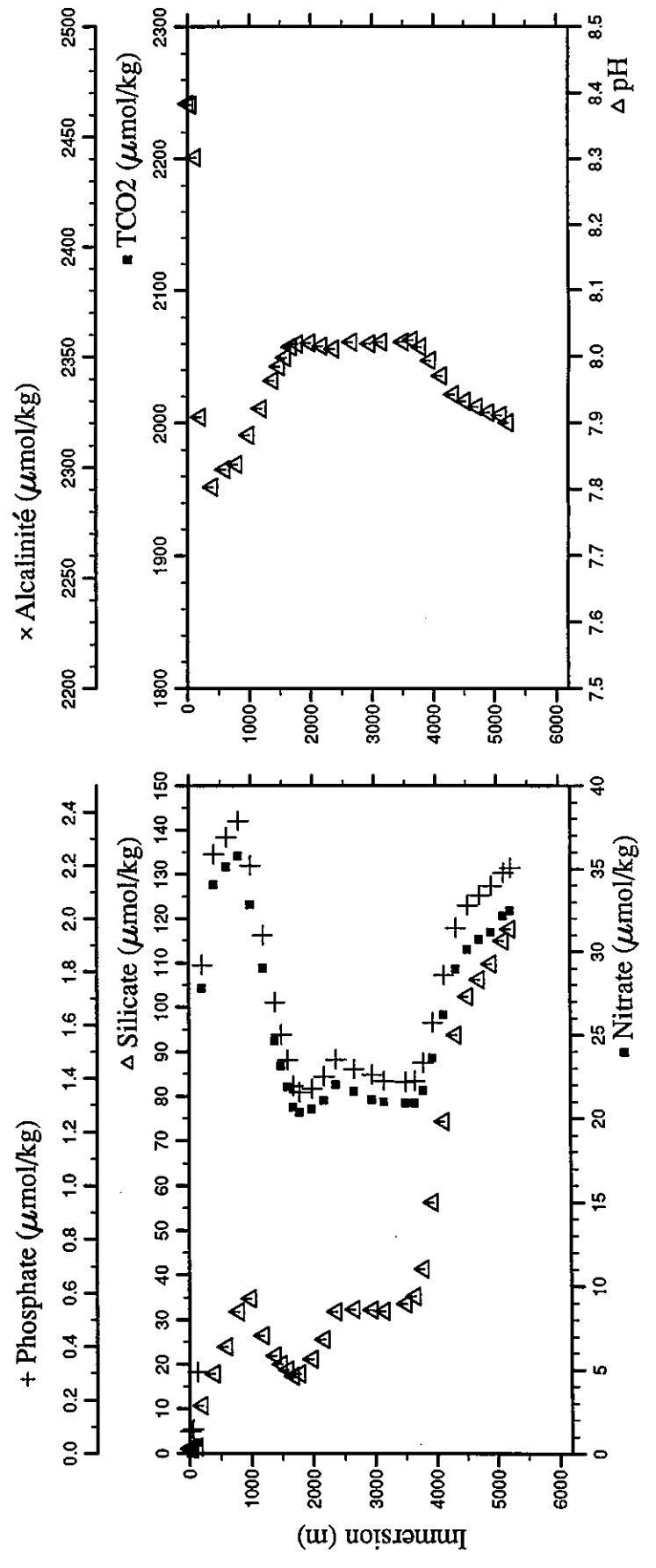
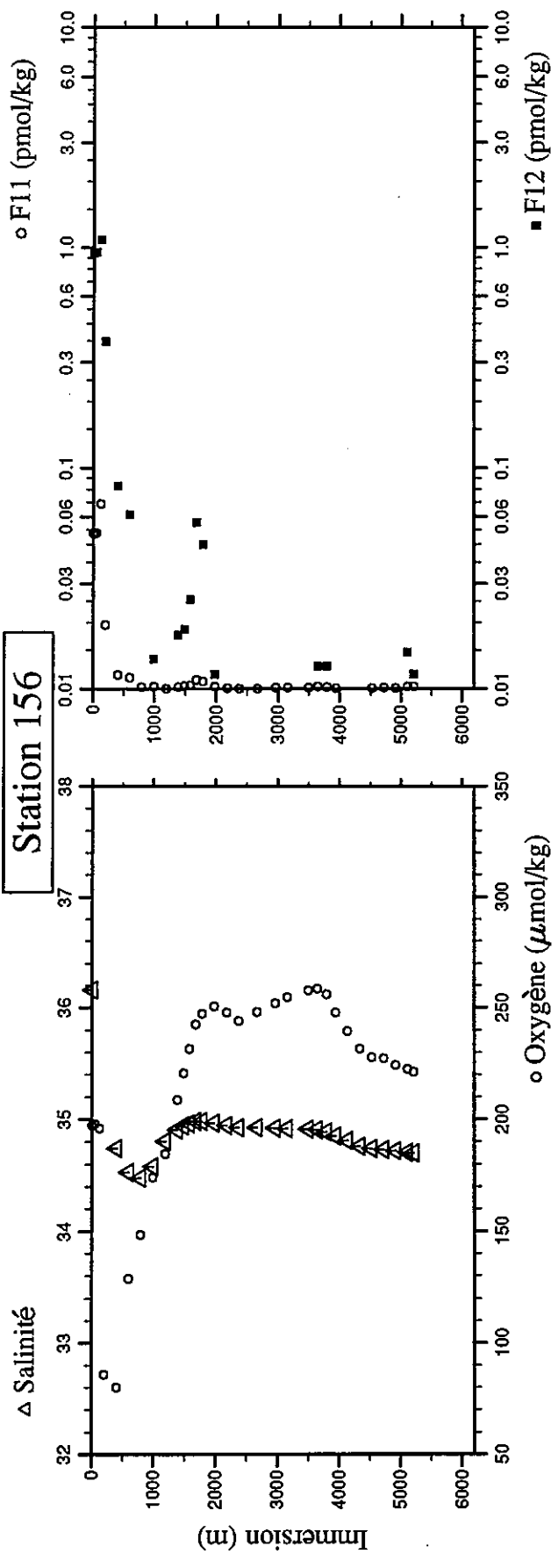




Station : 156 Campagne : CITHER 2  
 Date : 01-03-94 Heure : 6 h 44 mn  
 Position : S 6 28.87 W 30 13.06  
 Dernier niveau à : 5308  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT. NITE	ALCALI- um/kg	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.9	5.9	28.148	23.2432	36.160	197.3	0.00	0.084	1.1	1.6398	0.9428			8.384
52.4	52.1	28.128	23.4935	36.244	197.9	0.00	0.090	1.1	1.6423	0.9525			8.382
126.1	125.4	22.498	25.8419	36.600	196.0	0.65	0.303	1.5	1.9554	1.0841			8.302
203.7	202.5	11.281	27.7209	35.121	85.9	27.81	1.825	10.7	0.6766	0.3735			7.909
402.5	399.9	8.253	28.8574	34.743	80.0	34.02	2.242	17.8	0.1487	0.0831			7.804
603.6	599.4	5.943	29.9473	34.529	128.7	35.13	2.305	23.9	0.1210	0.0616			7.830
799.9	793.9	4.519	30.9930	34.477	148.5	35.77	2.367	31.8	0.0189	0.0088			7.838
1000.7	992.7	3.925	32.0644	34.582	174.0	32.85	2.199	34.7	0.0284	0.0137			7.882
1201.5	1191.4	4.220	33.1151	34.804	184.6	29.01	1.937	26.5	0.0036	0.0068			7.922
1400.0	1387.6	4.196	34.0930	34.906	208.6	24.63	1.686	21.9	0.0187	0.0176			7.964
1502.8	1489.1	4.146	34.5886	34.941	220.7	23.15	1.564	20.0	0.0294	0.0186			7.985
1600.8	1585.8	4.047	35.0600	34.963	231.5	21.89	1.469	18.7	0.0375	0.0254			7.999
1701.0	1684.7	3.928	35.5402	34.981	242.4	20.68	1.371	17.4	0.0955	0.0567			8.015
1803.3	1785.6	3.744	36.0229	34.980	247.3	20.38	1.349	17.8	0.0780	0.0450			8.019
2000.8	1980.2	3.372	36.9476	34.964	250.5	20.53	1.362	21.2	0.0234	0.0117			8.021
2199.7	2176.0	3.100	37.8604	34.946	247.8	21.07	1.407	25.6	0.0102	0.0010			8.016
2400.6	2373.7	2.824	38.7790	34.925	243.9	22.03	1.471	31.8	0.0011	0.0000			8.012
2698.5	2666.4	2.651	40.1236	34.926	248.0	21.62	1.436	32.3	0.0035	0.0049			8.022
2998.1	2960.4	2.504	41.4619	34.923	251.8	21.12	1.414	32.2	0.0113	0.0098			8.019
3199.1	3157.4	2.417	42.3537	34.916	254.6	20.97	1.390	32.0	0.0140	0.0098			8.022
3549.3	3500.2	2.227	43.9011	34.908	257.6	20.90	1.385	33.6	0.0132	0.0098			8.022
3700.2	3647.8	2.102	44.5678	34.906	258.4	20.90	1.390	35.3	0.0232	0.0127			8.024
3849.1	3793.3	1.921	45.2319	34.885	256.0	21.67	1.458	41.4	0.0204	0.0127			8.014
4000.8	3941.4	1.598	45.9161	34.847	247.9	23.62	1.609	56.2	0.0078	0.0049			7.994
4196.3	4132.2	1.209	46.7961	34.808	239.3	26.22	1.787	74.3	-0.0015	0.0000			7.971
4400.7	4331.4	0.766	47.7189	34.759	231.4	28.96	1.964	93.8	-0.0041	-0.0029			7.943
4599.7	4525.3	0.559	48.5907	34.739	227.7	30.14	2.049	102.4	0.0056	-0.0010			7.933
4798.8	4719.1	0.462	49.4505	34.728	227.1	30.74	2.088	106.2	0.0115	0.0078			7.924
4997.0	4911.8	0.371	50.3026	34.719	224.2	31.18	2.123	109.8	0.0080	0.0049			7.916
5197.4	5106.5	0.229	51.1663	34.703	222.4	32.17	2.173	115.0	0.0240	0.0147			7.912
5309.3	5215.1	0.168	51.6447	34.698	221.0	32.47	2.191	117.6	0.0236	0.0117			7.901

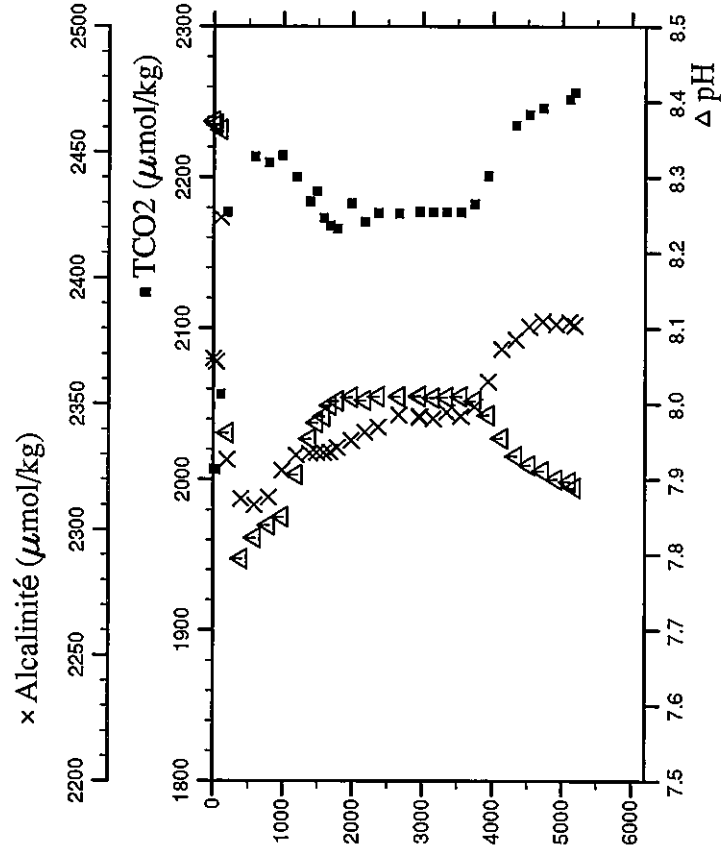
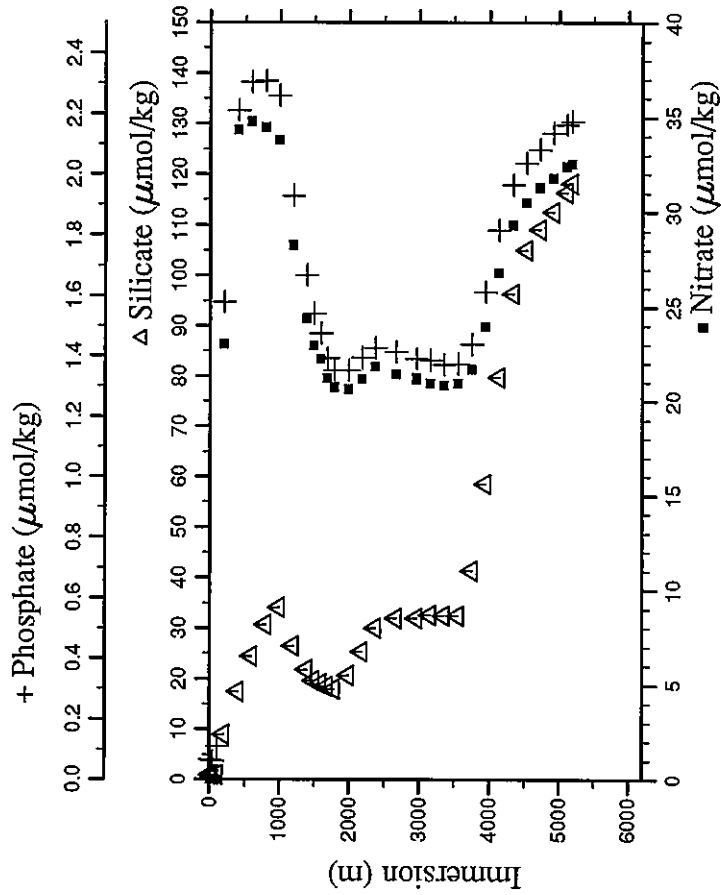
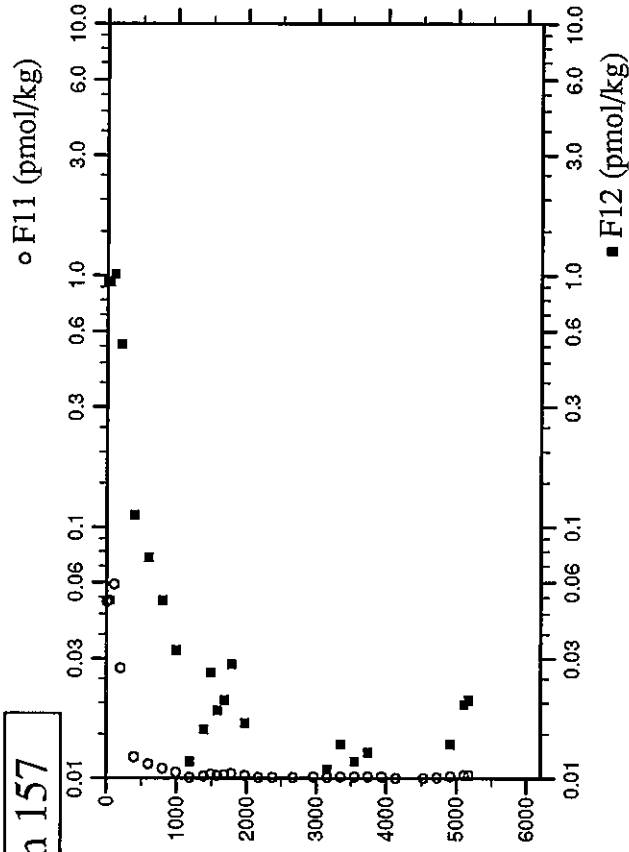
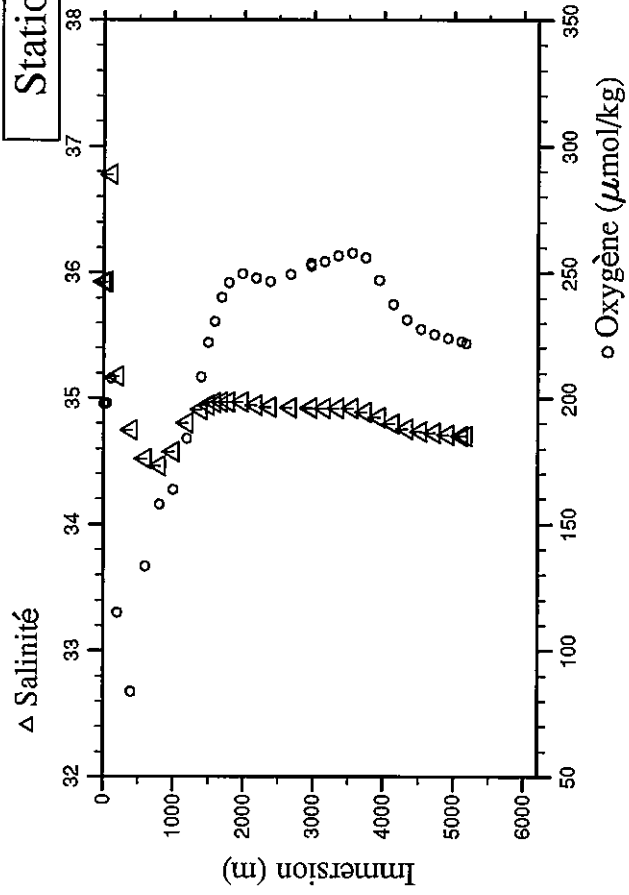
Station 156



Station : 157 Campagne : CITHER 2  
 Date : 01-03-94 Heure : 12 h 56 mn  
 Position : S 5 59.19 W 30 11.44  
 Dernier niveau à : 5273  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.0	7.0	28.305	23.0197	35.928	197.6	0.00	0.066	1.0	1.6388	0.9410	2007.13	2367.9	8.374
42.6	42.4	28.072	23.2425	35.925	198.0	0.00	0.063	1.0	1.6520	0.9439	2006.55	2366.8	8.370
106.5	105.9	25.733	24.9125	36.778	207.8	0.00	0.111	1.0	1.8010	1.0087	2056.59	2424.0	8.363
200.5	199.3	12.232	27.5796	35.176	115.2	23.03	1.579	9.0	1.0230	0.5348	2176.85	2327.9	7.962
400.5	397.9	8.316	28.8414	34.748	83.8	34.33	2.210	17.5	0.2007	0.1115	2234.81 d	2312.3	7.795
601.4	597.2	5.776	29.9534	34.519	133.3	34.78	2.304	24.4	0.1336	0.0753	2213.78	2309.8	7.823
801.1	795.1	4.549	30.9837	34.465	157.8	34.49	2.308	30.7	0.0908	0.0509	2209.94	2312.7	7.840
1000.8	992.9	4.104	32.0347	34.573	163.6	33.78	2.259	34.1	0.0581	0.0323	2214.66	2323.4	7.851
1200.5	1190.4	4.278	33.1005	34.805	183.9	28.28	1.929	26.5	0.0084	0.0117	2200.09	2329.7	7.907
1400.0	1387.6	4.235	34.0894	34.911	208.5	24.39	1.668	21.8	0.0227	0.0156	2184.25	2330.3	7.954
1501.7	1488.0	4.162	34.5852	34.948	222.2	22.94	1.541	19.6	0.0359	0.0264	2190.98	2330.6	7.975
1600.1	1585.1	4.032	35.0572	34.964	230.5	22.25	1.475	19.0	0.0268	0.0186	2172.85	2330.5	7.984
1699.8	1683.5	3.852	35.5385	34.973	240.2	21.21	1.393	18.5	0.0290	0.0205	2167.79	2331.0	7.998
1798.8	1781.1	3.739	36.0021	34.973	246.0	20.76	1.352	18.0	0.0452	0.0284	2165.78	2332.7	8.004
2000.7	1980.1	3.420	36.9424	34.969	249.7	20.65	1.353	20.7	0.0231	0.0166	2182.70	2335.4	8.009
2198.9	2175.3	3.119	37.8557	34.948	247.8	21.19	1.395	25.4	0.0058	0.0039	2170.50	2338.7	8.005
2400.1	2373.2	2.863	38.7783	34.933	246.5	21.84	1.426	30.1	0.0066	0.0059	2176.38	2340.7	8.010
2699.0	2666.9	2.635	40.1306	34.927	249.2	21.43	1.414	32.0	0.0071	0.0078	2175.92	2345.6	8.010
2998.3	2960.6	2.485	41.4669	34.925	253.7	21.24	1.390	32.0	0.0141	0.0078	2177.12	2345.1	8.011
2998.6	2960.9	2.485	41.4681	34.923	252.7	21.16	1.390	32.0	0.0114	0.0098	2177.12	2344.5	8.010
3199.5	3157.8	2.399	42.3587	34.919	254.5	20.94	1.386	32.6	0.0076	0.0108	2176.65	2344.0	8.008
3397.6	3351.8	2.307	43.2343	34.919	256.7	20.86	1.371	32.5	0.0149	0.0137	2176.79	2346.7	8.009
3599.2	3549.0	2.180	44.1232	34.919	257.6	20.94	1.374	32.5	0.0141	0.0117	2176.96	2345.1	8.010
3796.8	3742.2	1.926	45.0070	34.890	255.9	21.58	1.340	41.3	0.0164	0.0127	2182.20	2348.9	8.004
3998.8	3939.5	1.553	45.9150	34.848	247.1	23.95	1.613	58.5	0.0132	0.0068	2200.90	2358.8	7.985
4198.5	4134.4	1.104	46.8170	34.798	237.4	26.80	1.816	79.8	0.0004	0.0029	2235.46 d	2371.7	7.955
4398.1	4329.0	0.735	47.7118	34.757	231.2	29.31	1.964	96.4	-0.0013	0.0029	2234.49	2375.6	7.931
4599.4	4525.0	0.542	48.5939	34.738	227.4	30.50	2.037	109.0	0.0024	0.0039	2241.76	2380.8	7.919
4797.9	4718.2	0.444	49.4506	34.729	225.4	31.29	2.082	109.1	0.0050	0.0020	2245.82	2382.7	7.912
4998.2	4913.0	0.332	50.3122	34.714	223.9	31.81	2.136	112.6	0.0217	0.0137	2263.61 d	2381.6	7.901
5199.6	5108.7	0.236	51.1762	34.703	222.5	32.39	2.164	116.4	0.0316	0.0196	2252.06	2382.4	7.897
5269.8	5176.9	0.193	51.4790	34.701	221.8	32.54	2.175	118.2	0.0332	0.0205	2256.32	2381.1	7.890

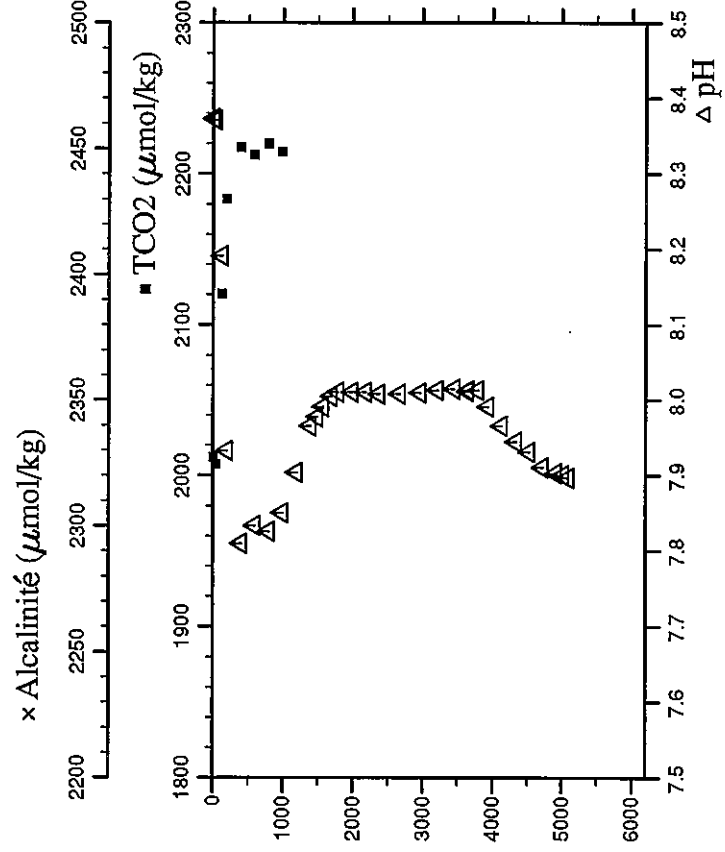
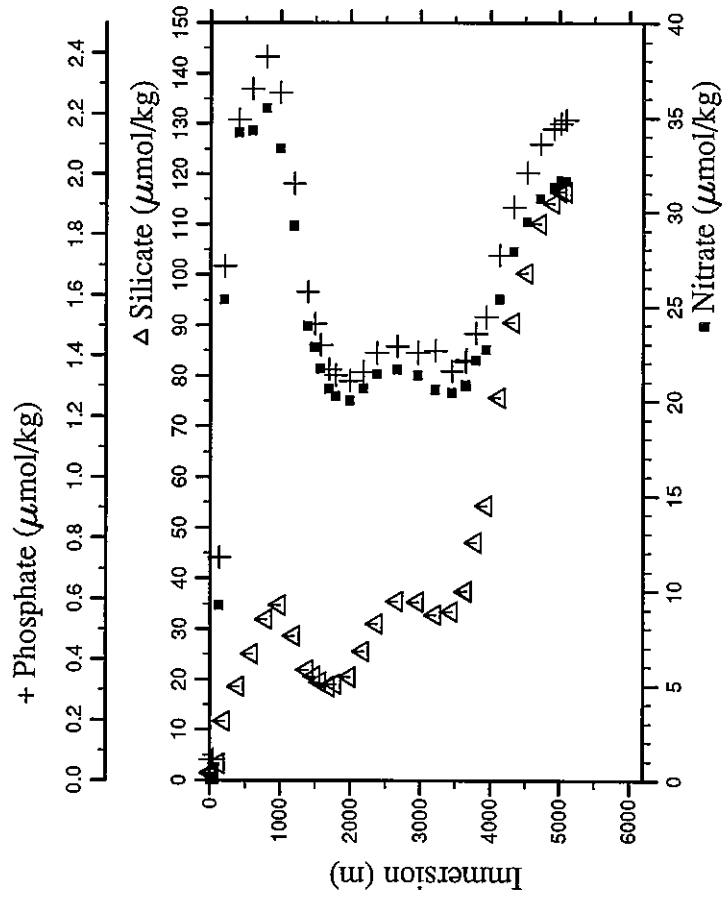
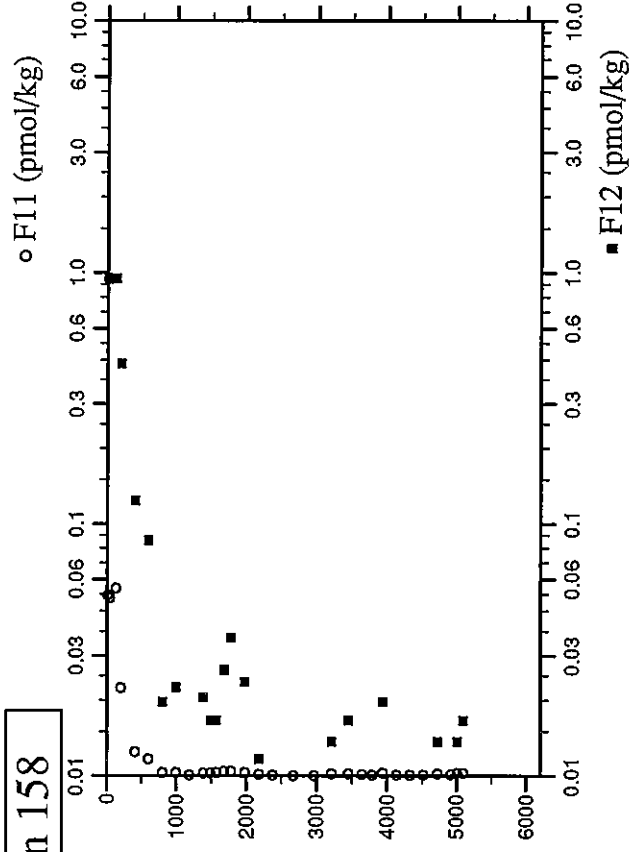
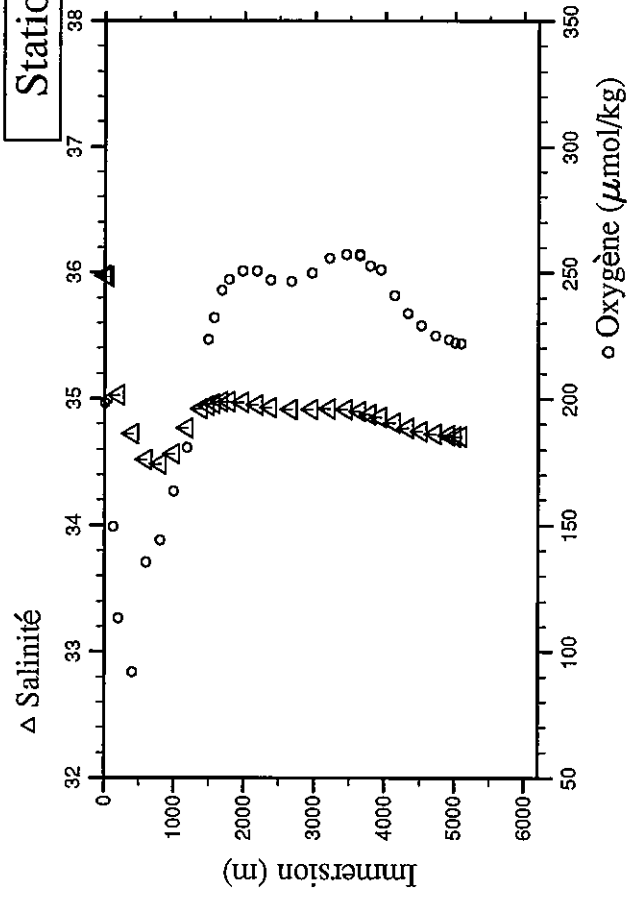
# Station 157



Station : 158 Campagne : CIGHER 2  
 Date : 01-03-94 Heure : 19 h 18 mn  
 Position : S 5 29.29 W 30 9.85  
 Dernier niveau à : 5180  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg. cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
6.6	6.6	28.129	23.1144	35.977	198.3	0.04	0.068	1.5	1.6671	0.9517	2012.06		8.373
40.6	40.4	28.008	23.2918	35.970	199.6	0.04	0.068	1.4	1.6450	0.9390	2007.39		8.371
126.2	125.5	20.917	25.9240	36.125	149.5	9.25	0.736	3.3	1.7328	0.9477	2120.64		8.191
202.6	201.4	11.000	27.7084	35.029	113.3	25.34	1.695	11.7	0.8169	0.4341	2183.17		7.933
401.8	399.2	8.073	28.8644	34.720	92.0	34.21	2.181	18.6	0.2218	0.1232	2217.71		7.810
601.1	596.9	5.804	29.9519	34.519	135.4	34.32	2.282	25.1	0.1561	0.0861	2212.24		7.834
802.9	796.9	4.690	30.9887	34.484	144.1	35.49	2.389	31.9	0.0289	0.0196	2220.02		7.826
999.6	991.7	4.090	32.0237	34.565	163.5	33.37	2.269	34.8	0.0331	0.0225	2214.73		7.851
1200.3	1190.2	4.211	33.0798	34.770	180.8	29.26	1.969	28.6	0.0098	0.0049			7.904
1401.2	1388.8	4.232	34.1011	34.919	211.8	23.97	1.610	21.9	0.0269	0.0205			7.966
1502.7	1489.0	4.113	34.5948	34.945	223.3	22.84	1.505	20.6	0.0265	0.0166			7.978
1587.1	1572.3	4.013	35.0012	34.959	232.1	21.71	1.435	19.5	0.0305	0.0166			7.991
1703.1	1686.8	3.847	35.5561	34.976	242.9	20.65	1.354	18.6	0.0407	0.0264			8.005
1802.0	1784.3	3.690	36.0216	34.977	247.3	20.27	1.336	19.1	0.0413	0.0352			8.011
2001.2	1980.6	3.453	36.9411	34.972	250.6	20.05	1.317	20.5	0.0319	0.0235			8.011
2201.5	2177.9	3.086	37.8735	34.951	250.6	20.67	1.346	25.6	0.0158	0.0117			8.011
2401.7	2374.8	2.833	38.7872	34.929	247.0	21.43	1.409	31.1	0.0078	0.0088			8.008
2698.7	2666.6	2.578	40.1294	34.915	246.4	21.67	1.430	35.5	0.0036	0.0049			8.008
2998.4	2960.7	2.455	41.4671	34.917	249.9	21.37	1.409	35.4	0.0023	0.0049			8.010
3250.7	3208.0	2.379	42.5839	34.919	255.7	20.62	1.417	32.9	0.0175	0.0137			8.013
3496.4	3448.5	2.265	43.6673	34.914	257.3	20.43	1.349	33.5	0.0220	0.0166			8.015
3698.9	3646.6	2.117	44.5602	34.899	256.8	20.86	1.381	37.4	0.0128	0.0098			8.012
3699.8	3647.4	2.111	44.5651	34.902	257.1	20.79	1.387	37.5	0.0127	0.0088			8.013
3849.4	3793.6	1.870	45.2358	34.876	252.6	22.13	1.474	47.1	0.0063	0.0068			8.013
4000.1	3940.8	1.645	45.9099	34.855	251.2	22.71	1.528	54.3	0.0247	0.0196			7.991
4198.8	4134.7	1.226	46.8065	34.811	240.9	25.40	1.732	75.7	0.0083	0.0059			7.966
4399.2	4330.1	0.874	47.7001	34.770	233.9	27.90	1.890	90.6	0.0072	0.0049			7.945
4598.2	4523.9	0.629	48.5767	34.744	229.1	29.47	2.006	100.4	0.0070	0.0039			7.931
4799.1	4719.4	0.413	49.4558	34.721	224.9	30.71	2.100	110.1	0.0198	0.0137			7.911
4997.5	4912.4	0.291	50.3125	34.710	223.5	31.31	2.152	114.2	0.0153	0.0068			7.903
5099.3	5011.3	0.226	50.7515	34.703	222.1	31.66	2.169	116.5	0.0279	0.0137			7.901
5176.6	5086.4	0.211	51.0811	34.700	221.8	31.62	2.181	116.5	0.0245	0.0166			7.897

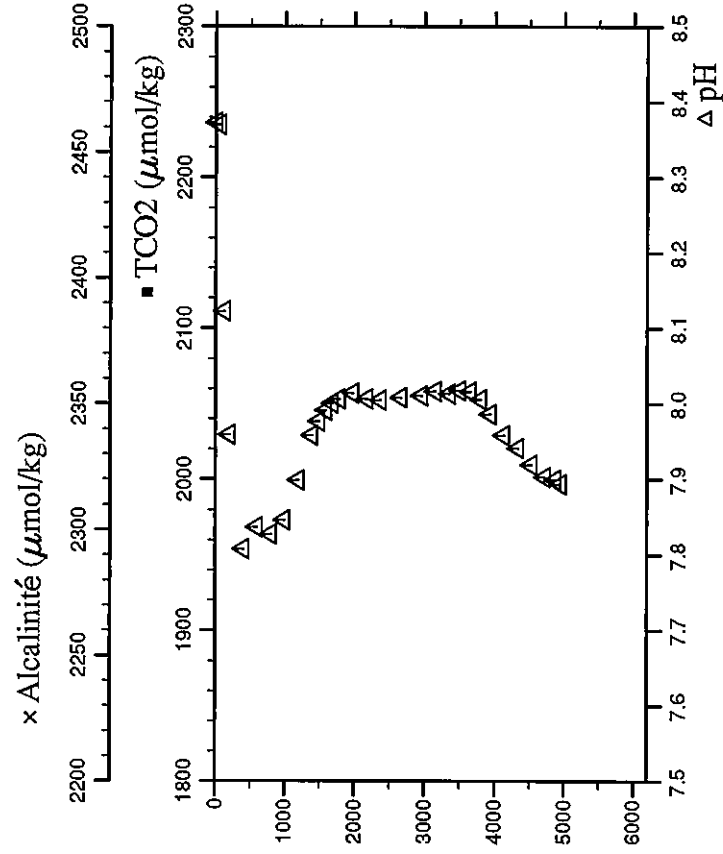
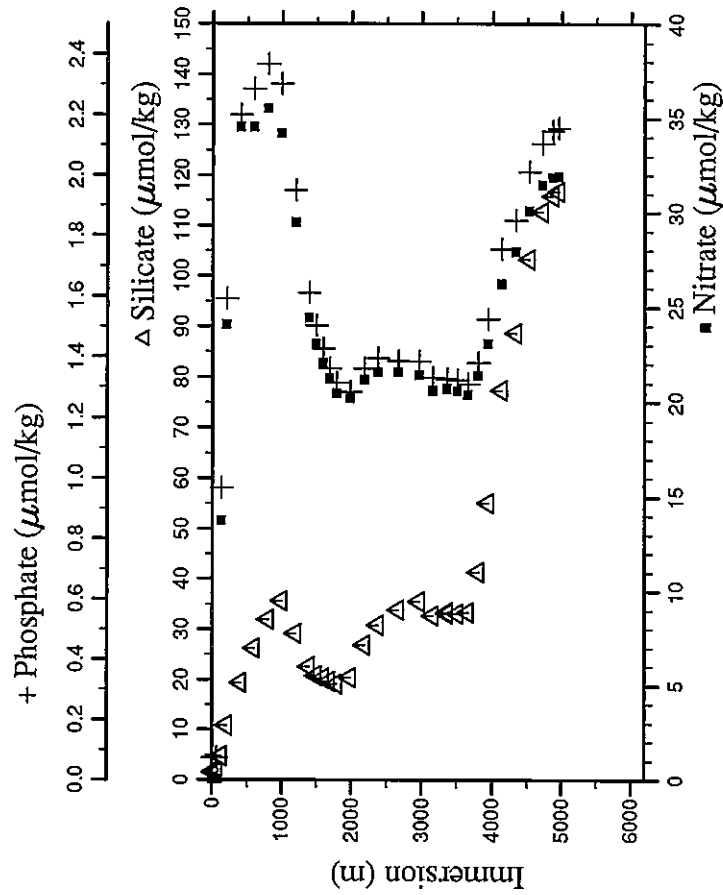
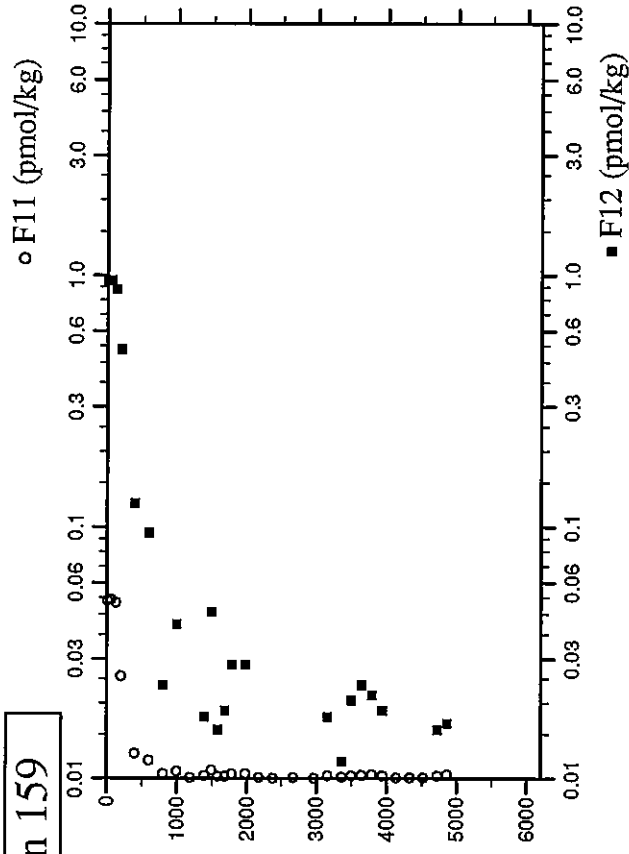
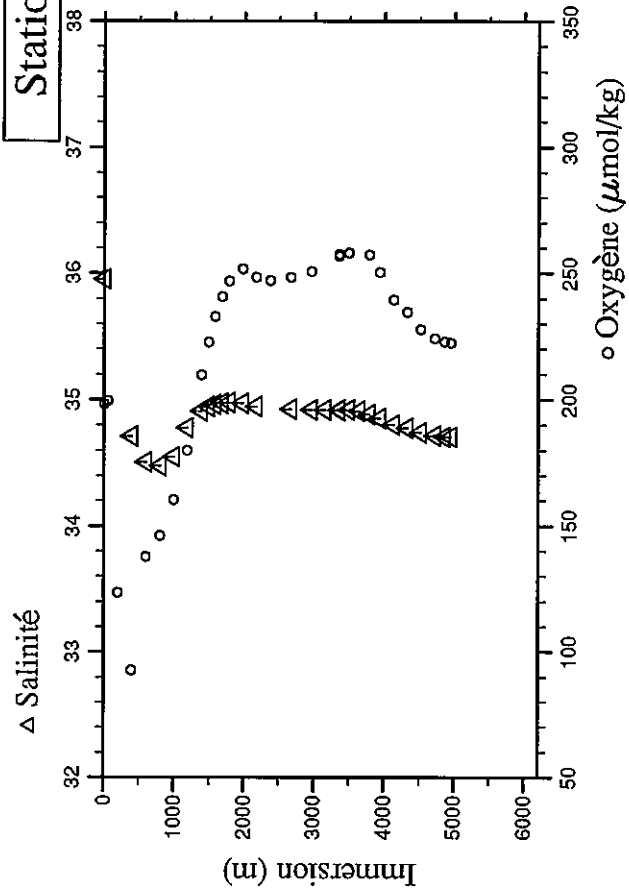
# Station 158



Station : 159 Campagne : CITHIER 2  
 Date : 02-03-94 Heure : 1 h 34 mn  
 Position : S 4 59.67 W 30 8.29  
 Dernier niveau à : 5038  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION metres	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOP. NITE	ALCALI- NITE	pH
dbar		deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.9	4.9	28.019	23.1244	35.951	198.2	0.04	0.074	1.6	1.6507	0.9488			8.373
60.9	60.6	27.964	23.4124	36.028	199.5	0.04	0.074	1.5	1.6631	0.9536			8.370
126.1	125.4	18.570	26.4198	35.922	129.6	13.75	0.969	4.7	1.6330	0.8755			8.123
202.3	201.1	11.135	27.6834	35.044	123.5	24.09	1.591	10.9	0.9489	0.5075			7.959
400.1	397.5	7.972	28.8663	34.711	92.8	34.53	2.199	19.4	0.2352	0.1242			7.808
601.3	597.1	5.663	29.9618	34.511	137.8	34.54	2.285	26.2	0.1672	0.0949			7.837
801.0	795.0	4.725	30.9733	34.479	146.2	35.53	2.367	32.0	0.0428	0.0235			7.828
1000.2	992.3	4.141	32.0111	34.551	160.3	34.22	2.302	35.6	0.0698	0.0411			7.846
1198.6	1188.5	4.228	33.0803	34.777	180.0	29.48	1.951	29.1	0.0057	0.0039			7.899
1401.1	1388.7	4.238	34.0959	34.912	209.7	24.43	1.610	22.5	0.0279	0.0176			7.958
1501.4	1487.7	4.134	34.5875	34.945	222.5	23.07	1.502	20.8	0.0774	0.0460			7.977
1600.0	1585.1	3.968	35.0648	34.959	232.8	22.08	1.426	20.2	0.0183	0.0156			7.991
1701.0	1684.7	3.833	35.5456	34.969	240.6	21.24	1.361	19.6	0.0226	0.0186			8.001
1798.7	1781.1	3.729	36.0034	34.979	246.7	20.48	1.315	19.1	0.0426	0.0284			8.007
1998.9	1978.4	3.451	36.9347	34.973	251.7	20.20	1.285	20.4	0.0419	0.0284			8.014
2198.1	2174.5	3.086	37.8560	34.948	248.2	21.18	1.362	26.9	0.0101	0.0059			8.007
2398.3	2371.5	2.872	38.7689	34.928	247.0	21.58	1.394	30.8	0.0036	0.0039			8.005
2698.9	2666.8	2.640	40.1282	34.926	248.4	21.58	1.386	33.8	0.0058	0.0059			8.008
2997.5	2959.9	2.455	41.4654	34.921	250.6	21.44	1.385	35.5	0.0041	0.0049			8.011
3198.4	3156.8	2.380	42.3573	34.920	263.7	20.60	1.331	32.7	0.0264	0.0176			8.017
3401.0	3355.2	2.314	43.2477	34.920	257.5	20.76	1.328	33.4	0.0148	0.0117			8.013
3401.1	3355.3	2.313	43.2491	34.918	256.7	20.69	1.325	33.1	0.0162	0.0098			8.013
3499.6	3499.6	2.269	43.8943	34.919	257.9	20.62	1.322	33.1	0.0251	0.0205			8.018
3699.6	3647.3	2.175	44.5602	34.912	257.4	20.39	1.311	33.3	0.0345	0.0235			8.016
3850.1	3794.3	1.902	45.2404	34.885	257.3	21.40	1.381	41.3	0.0365	0.0215			8.006
3999.6	3940.3	1.605	45.9133	34.854	250.3	23.10	1.524	55.1	0.0235	0.0186			7.986
4197.5	4133.4	1.162	46.8079	34.804	239.5	26.23	1.756	77.3	0.0054	0.0068			7.958
4399.3	4330.2	0.914	47.6994	34.779	234.7	27.92	1.850	88.6	0.0067	0.0049			7.941
4598.7	4524.4	0.595	48.5825	34.742	227.8	30.10	2.012	103.3	0.0105	0.0049			7.919
4799.2	4719.6	0.358	49.4641	34.717	224.1	31.50	2.104	112.7	0.0249	0.0156			7.903
4947.4	4863.7	0.265	50.1026	34.708	222.9	31.86	2.147	115.9	0.0377	0.0166			7.900
5038.9	4952.7	0.245	50.4950	34.706	222.3	31.92	2.156	116.8					7.894

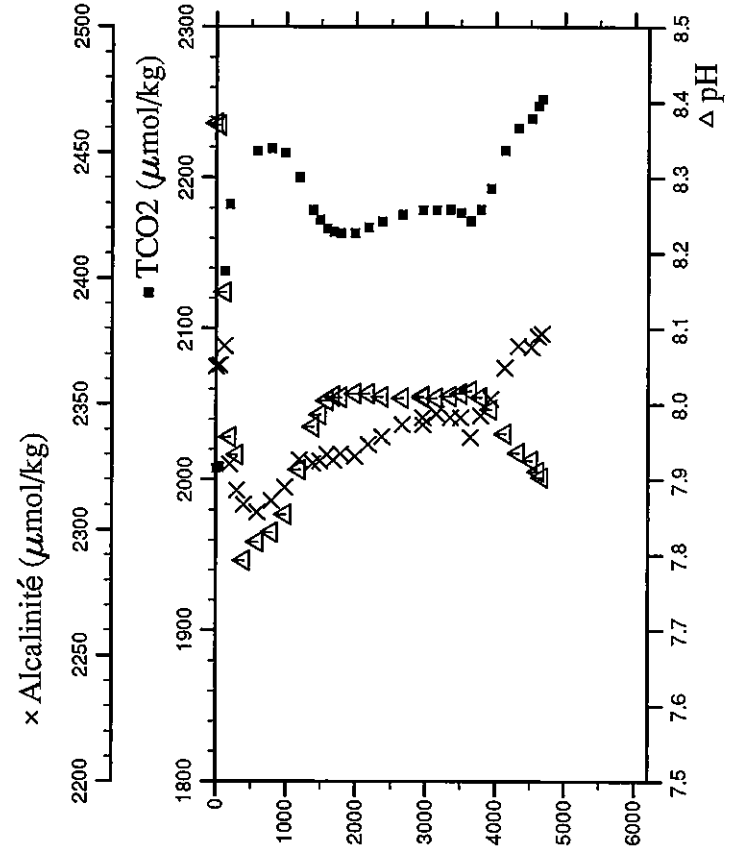
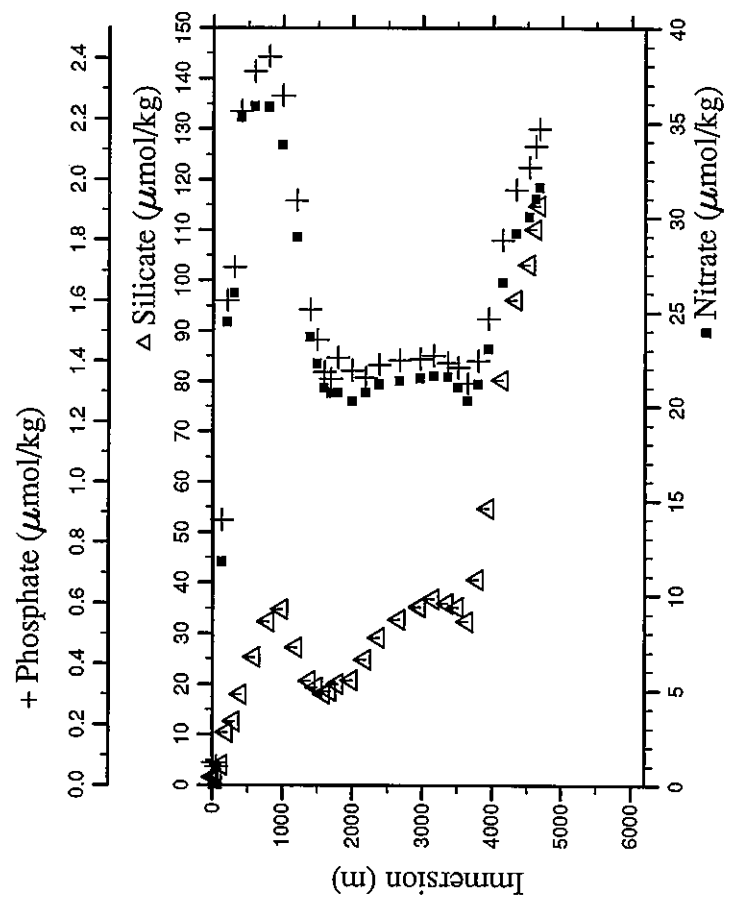
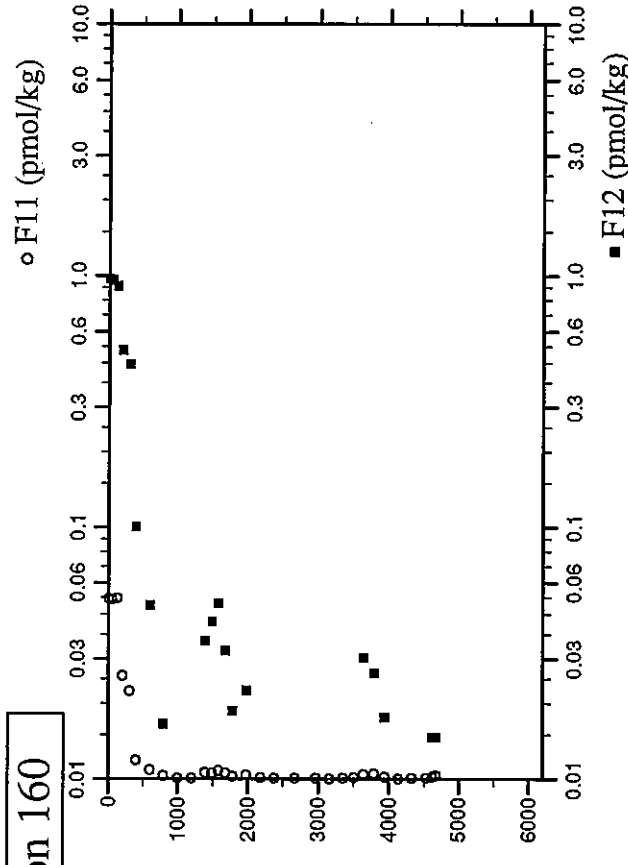
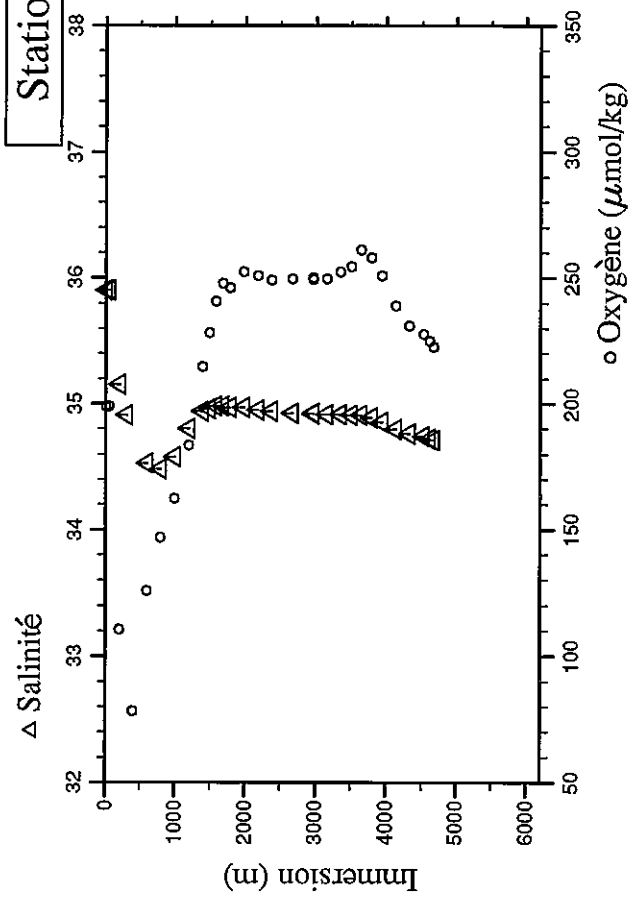
# Station 159





Station : 160 Campagne : CITHRER 2  
 Date : 02-03-94 Heure : 8 h 0 mn  
 Position : S 4 29.66 W 30 6.68  
 Dernier niveau à : 4751  
 Nb prélèvements : 32

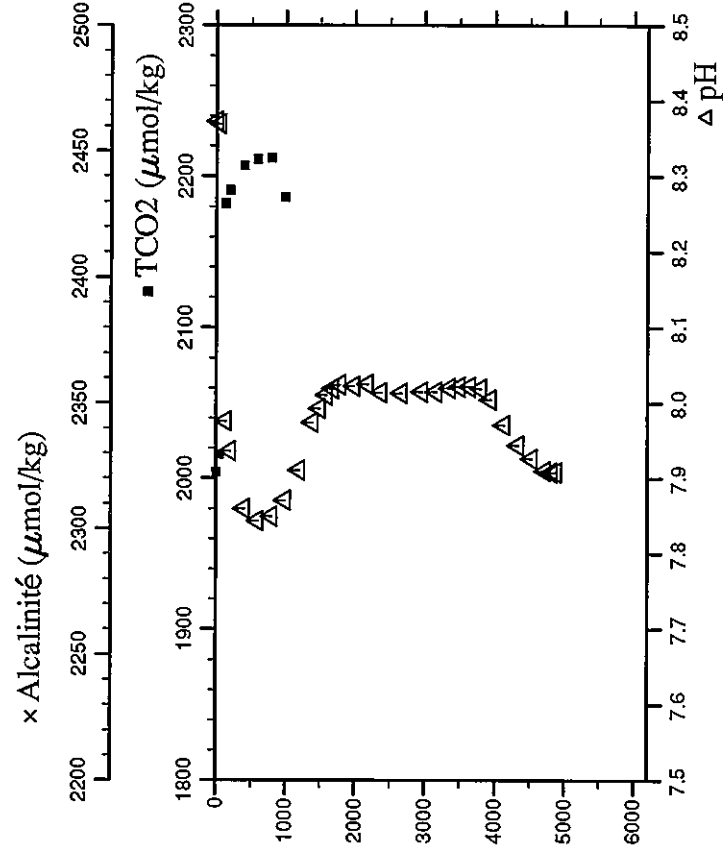
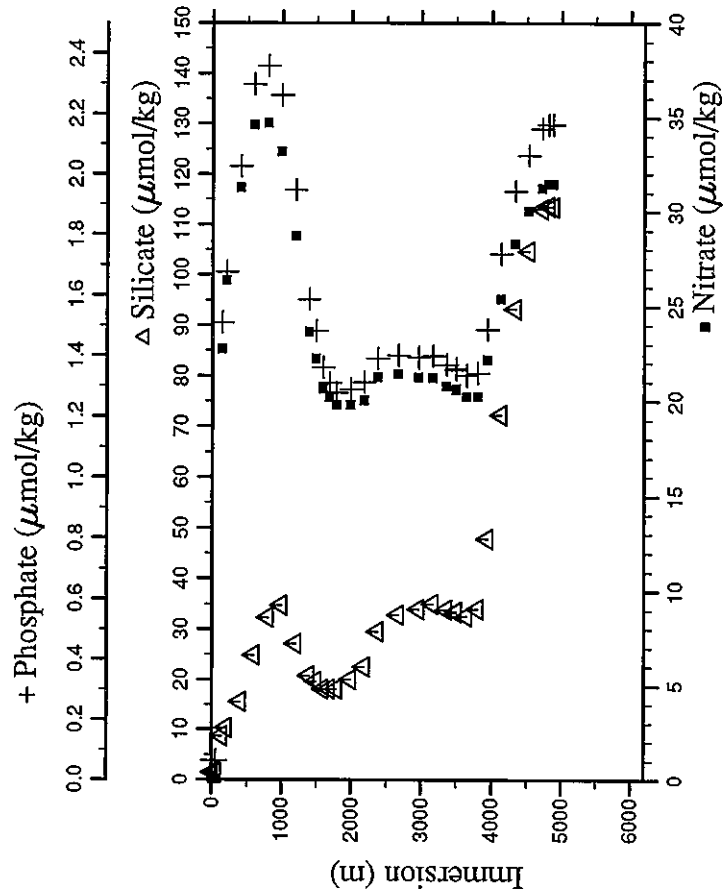
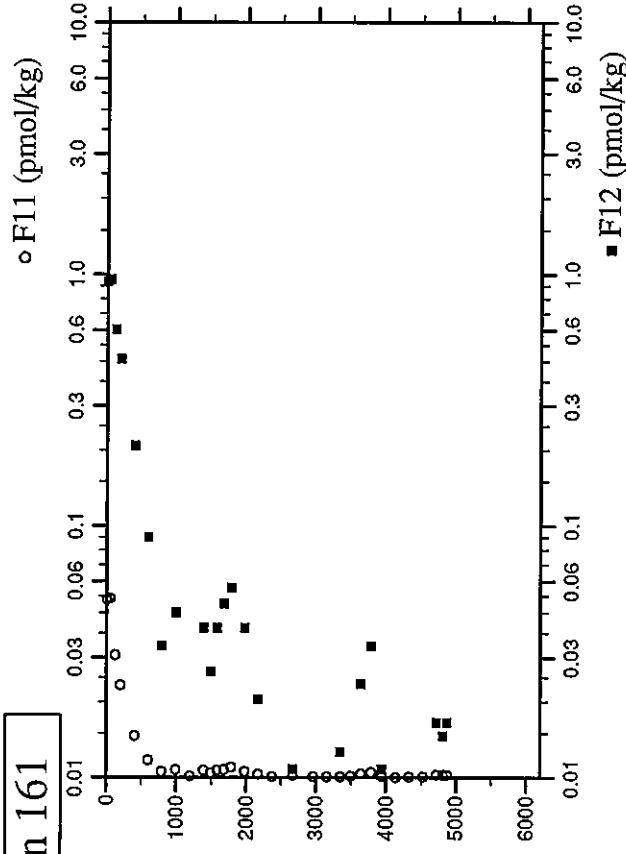
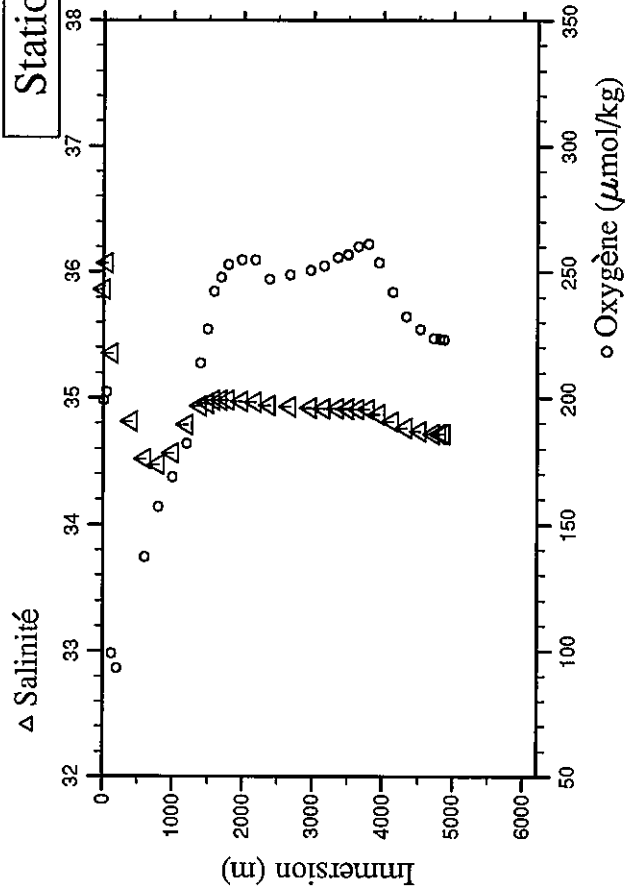
PRESSION CHIMIE	IMMERSSION	TEMP. POT. SONDE	STGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
6.5	6.5	27.981	23.1063	35.903	198.8	0.04	0.074	1.6	1.6677	0.9713	2007.31	2364.9	8.372
50.0	49.7	27.943	23.3009	35.900	199.0	0.04	0.063	1.3	1.6654	0.9605	2008.70	2365.5	8.369
126.0	125.3	19.516	26.2279	36.018	136.6	r	0.874	4.0	1.6765	0.9096	2137.72	2373.1	8.148
199.7	198.5	12.005	27.5992	35.154	110.4	r	1.601	10.5	0.9587	0.5074	2182.46	2326.1	7.957
300.4	298.5	10.040	28.2205	34.911	132.1	r	1.711	12.6	0.8175	0.4449	2180.78 d	2315.7	7.933
400.8	398.2	8.460	28.8356	34.764	78.3	r	2.226	18.0	0.1712	0.1007	2226.67 d	2310.0	7.793
598.7	594.5	5.848	29.9394	34.528	125.8	r	2.357	25.4	0.0851	0.0489	2217.34	2307.1	7.818
800.0	794.0	4.603	30.9885	34.485	146.9	r	2.405	32.4	0.0306	0.0166	2219.41	2311.5	7.830
999.3	991.4	4.088	32.0400	34.579	162.3	r	2.276	34.8	0.0073	0.0029	2216.36	2316.9	7.854
1201.0	1190.9	4.287	33.1005	34.802	183.5	r	1.931	27.3	0.0095	0.0039	2200.34	2327.9	7.913
1399.1	1386.7	4.352	34.0908	34.939	214.8	r	1.570	20.7	0.0635	0.0352	2178.50	2326.2	7.970
1501.6	1487.9	4.114	34.6029	34.963	228.3	r	1.471	19.4	0.0557	0.0420	2172.32	2327.4	7.986
1600.4	1585.5	3.969	35.0836	34.984	240.8	r	1.366	18.1	0.0811	0.0499	2166.24	2329.8	8.005
1699.4	1683.2	3.763	35.5551	34.982	247.8	r	1.342	18.6	0.0530	0.0323	2164.29	2327.6	8.011
1798.6	1781.0	3.622	36.0163	34.972	246.1	r	1.412	20.0	0.0271	0.0186	2163.25	2330.2	8.009
2001.0	1980.5	3.389	36.9526	34.973	252.3	r	1.370	20.8	0.0351	0.0225	2163.13	2329.2	8.014
2200.5	2176.9	3.126	37.8684	34.953	250.8	r	1.346	24.9	0.0118	0.0078	2166.91	2333.9	8.014
2399.1	2372.3	2.900	38.7734	34.941	249.0	r	1.388	29.2	0.0074	0.0078	2170.74	2337.0	8.010
2699.2	2667.2	2.637	40.1322	34.928	249.7	r	1.403	32.7	0.0062	0.0059	2175.56	2341.8	8.008
2999.7	2962.0	2.457	41.4741	34.925	250.2	r	1.407	35.1	0.0054	0.0059	2178.42	2341.7	8.011
2999.8	2962.1	2.456	41.4755	34.920	249.3	r	1.407	35.3	0.0062	0.0049	2178.42	2344.7	8.009
3199.6	3158.0	2.358	42.3605	34.915	249.7	r	1.418	36.8	0.0036	0.0049	2178.48	2346.1	8.008
3400.3	3354.5	2.303	43.2435	34.916	252.4	r	1.395	35.9	0.0087	0.0059	2178.81	2344.7	8.011
3551.5	3502.5	2.260	43.9063	34.913	254.5	r	1.381	35.1	0.0121	0.0068	2176.72	2344.6	8.014
3698.2	3645.9	2.198	44.5519	34.913	260.9	r	1.321	32.4	0.0454	0.0303	2171.39	2336.7	8.018
3849.6	3793.9	1.910	45.2387	34.890	258.0	r	1.401	40.6	0.0500	0.0264	2178.96	2345.4	8.009
3998.0	3938.8	1.609	45.9075	34.856	250.8	r	1.541	54.7	0.0222	0.0176	2193.14	2352.0	7.993
4200.3	4136.2	1.096	46.8273	34.797	238.8	r	1.799	80.3	0.0045	0.0078	2217.97	2364.5	7.961
4398.9	4329.8	0.773	47.7109	34.761	231.0	r	1.966	96.2	0.0084	0.0068	2232.80	2373.0	7.935
4600.6	4526.3	0.608	48.5893	34.742	227.6	r	2.042	103.2	0.0097	0.0068	2238.94	2372.5	7.925
4697.0	4620.2	0.441	49.0180	34.724	224.8	r	2.111	110.2	0.0177	0.0147	2247.50	2377.0	7.911
4750.9	4672.6	0.319	49.2630	34.712	222.6	r	2.169	114.8	0.0303	0.0147	2252.36	2378.0	7.903



Station : 161 Campagne : CITHER 2  
 Date : 02-03-94 Heure : 13 h 58 mn  
 Position : S 3 59.90 W 30 5.07  
 Dernier niveau à : 4958  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
8.0	8.0	28.177	23.0237	35.863	198.9	0.04	0.065	1.4	1.6426	0.9371	2003.79		8.373
52.3	52.0	27.648	23.5293	36.069	202.3	0.04	0.065	1.4	1.6577	0.9516	2015.90		8.369
131.2	130.4	13.556	27.1298	35.354	99.1	22.76	1.509	8.7	1.1355	0.6031	2181.75		7.976
201.0	199.8	12.292	27.5875	35.190	93.3	26.36	1.676	10.4	0.8543	0.4605	2190.65		7.936
401.3	398.7	9.045	28.7795	34.813	96.3	31.28	2.027	15.6	0.3899	0.2073	2206.78		7.860
800.2	596.0	5.787	29.9465	34.519	137.2	34.62	2.298	24.9	0.1640	0.0900	2211.27		7.844
1000.4	794.2	4.482	30.9987	34.474	157.0	34.71	2.358	32.4	0.0547	0.0333	2212.21		7.850
1202.1	992.5	4.036	32.0391	34.566	168.6	33.18	2.262	34.8	0.0702	0.0450	2186.05		7.871
1202.1	1192.0	4.343	33.0870	34.791	181.9	28.70	1.948	27.1	0.0141	0.0098			7.911
1398.8	1386.4	4.345	34.0863	34.936	213.6	23.66	1.586	20.8	0.0654	0.0391			7.974
1501.6	1488.0	4.114	34.6019	34.958	227.2	22.23	1.481	19.6	0.0463	0.0264			7.993
1599.8	1584.9	3.905	35.0906	34.980	242.3	20.65	1.361	18.1	0.0653	0.0391			8.011
1699.8	1683.6	3.751	35.5608	34.983	247.8	20.19	1.311	18.1	0.0756	0.0489			8.019
1799.7	1782.1	3.631	36.0276	34.984	252.8	19.80	1.278	18.1	0.0947	0.0567			8.024
2000.5	1980.0	3.393	36.9529	34.974	254.6	19.80	1.289	20.0	0.0579	0.0391			8.023
2198.0	2174.5	3.187	37.8531	34.968	254.6	20.03	1.313	22.5	0.0344	0.0205			8.025
2399.2	2372.4	2.905	38.7732	34.940	247.0	21.26	1.391	29.6	0.0059	0.0020			8.014
2697.4	2665.4	2.678	40.1159	34.929	248.8	21.41	1.401	32.8	0.0187	0.0108			8.013
2996.7	2959.1	2.471	41.4608	34.922	250.7	21.25	1.394	34.0	0.0071	0.0049			8.015
3201.9	3160.2	2.371	42.3714	34.917	252.3	21.21	1.399	35.0	0.0056	0.0059			8.015
3399.1	3353.4	2.309	43.2398	34.915	255.7	20.79	1.370	33.9	0.0068	0.0127			8.020
3546.0	3497.1	2.264	43.8836	34.917	256.9	20.59	1.353	33.5	0.0165	0.0039			8.022
3546.5	3497.7	2.264	43.8869	34.913	256.8	20.63	1.356	33.4	0.0154	0.0098			8.022
3698.5	3646.2	2.196	44.5529	34.912	259.9	20.63	1.336	32.6	0.0360	0.0235			8.022
3850.3	3794.6	2.085	45.2239	34.910	261.0	20.24	1.341	34.0	0.0520	0.0332			8.019
3998.6	3939.4	1.784	45.8917	34.872	253.6	22.16	1.485	47.8	0.0160	0.0108			8.005
4198.2	4134.2	1.275	46.7987	34.816	241.9	25.38	1.735	72.2	0.0042	0.0029			7.971
4399.0	4330.0	0.802	47.7089	34.764	232.4	28.32	1.943	93.2	0.0062	0.0088			7.944
4599.8	4525.6	0.555	48.5927	34.738	227.3	30.04	2.062	104.7	0.0067	0.0059			7.926
4799.9	4720.3	0.347	49.4672	34.718	223.7	31.26	2.152	113.1	0.0272	0.0166			7.910
4895.9	4813.7	0.331	49.8760	34.715	223.5	31.45	2.163	113.6	0.0278	0.0147			7.908
4955.6	4871.8	0.326	50.1315	34.716	223.2	31.45	2.164	113.5	0.0268	0.0166			7.908

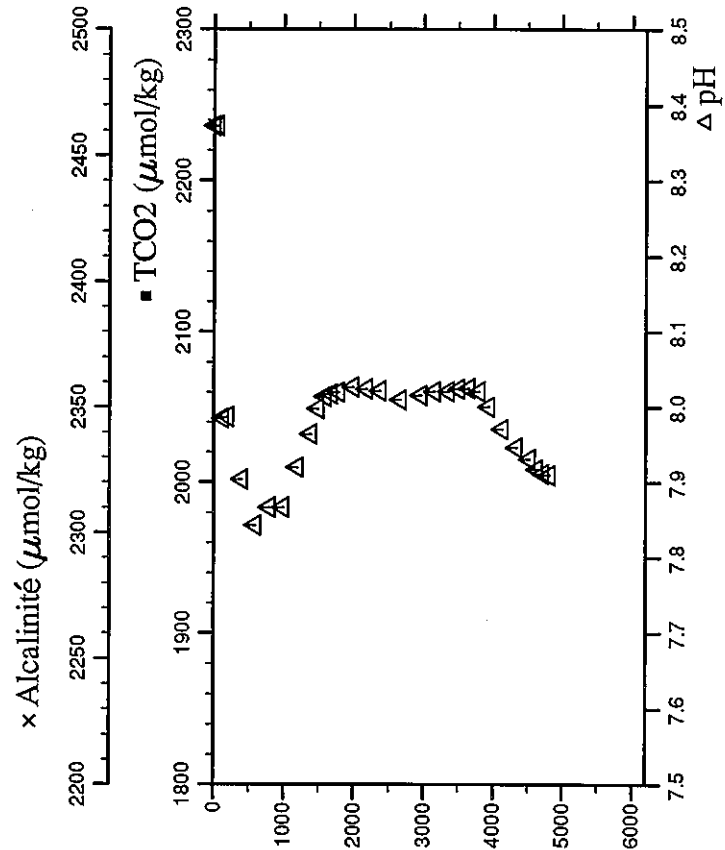
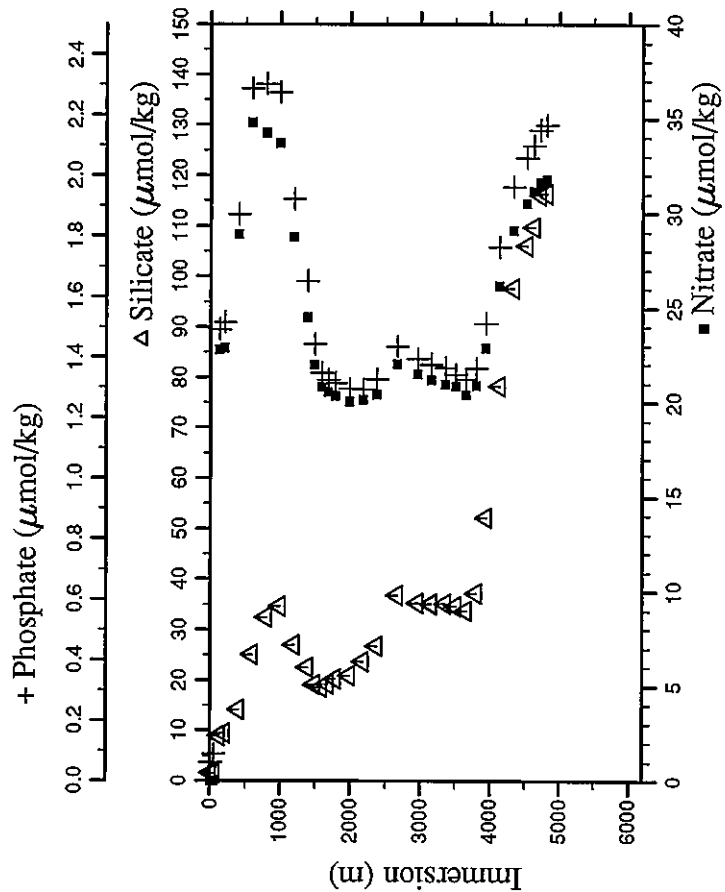
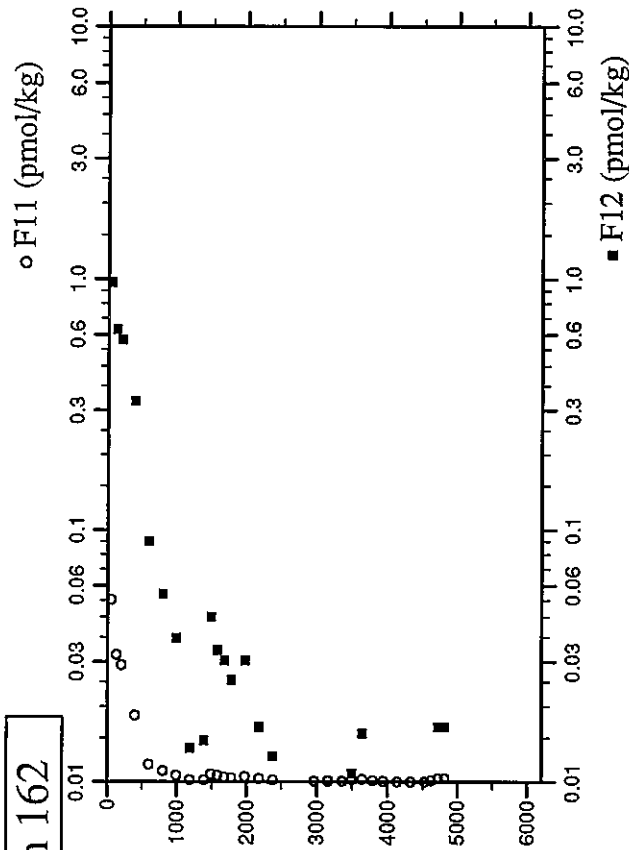
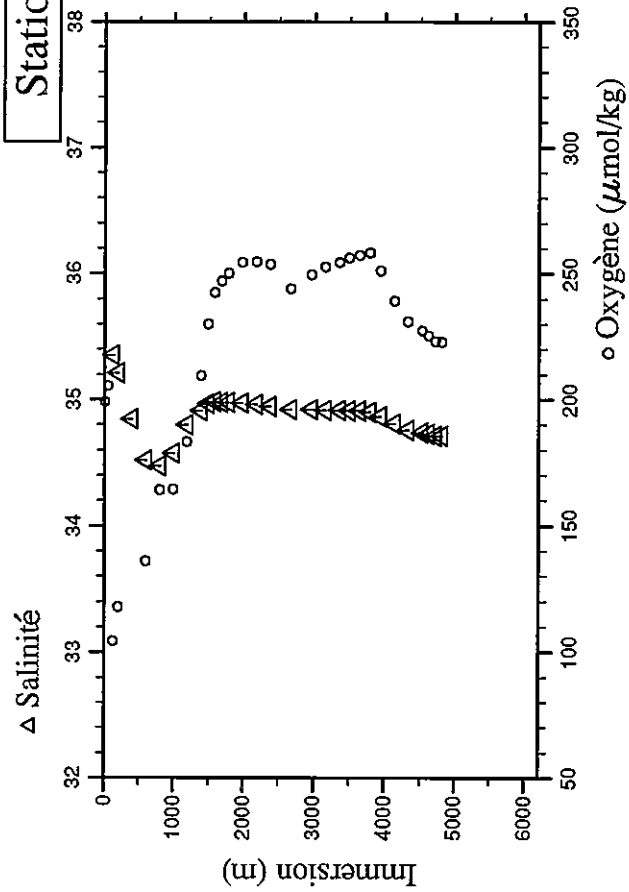
# Station 161



Station : 162 Campagne : CIPHER 2  
 Date : 02-03-94 Heure : 20 h 8 mn  
 Position : S 3 30.10 W 30 3.58  
 Dernier niveau à : 4896  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT. NITE	ALCALI- NITE	PH
dbar	metres	deg. cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.4	5.4	28.097	23.0554	35.891	r 199.0	0.00	0.062	1.6					8.373
51.1	50.8	27.504	23.6297	36.162	r 205.4	0.00	0.089	1.6	1.6886	0.9691			8.373
125.9	125.2	13.552	27.1097	35.351	r 104.5	22.78	1.493	8.9	1.1773	0.6276			7.985
201.6	200.4	12.446	27.5617	35.213	118.0	22.89	1.516	9.5	1.0827	0.5709			7.987
399.9	397.3	9.418	28.7295	34.844	118.0	28.87	1.871	14.2	0.6214	0.3266			7.904
602.1	597.9	5.784	29.9534	34.519	136.0	34.78	2.287	25.1	0.1618	0.0900			7.843
801.7	795.7	4.464	31.0042	34.471	164.1	34.25	2.302	32.5	0.1036	0.0558			7.867
997.7	989.8	4.108	32.0235	34.574	164.3	33.70	2.274	34.6	0.0607	0.0372			7.867
1200.4	1190.3	4.363	33.0865	34.800	183.2	28.76	1.923	27.0	0.0215	0.0137			7.920
1400.2	1387.8	4.205	34.0945	34.910	209.4	24.50	1.651	22.5	0.0181	0.0147			7.964
1501.0	1487.4	4.125	34.6026	34.966	230.0	21.99	1.443	19.1	0.0730	0.0450			7.998
1599.5	1584.6	3.897	35.0880	34.980	242.5	20.82	1.348	18.6	0.0591	0.0332			8.014
1700.8	1684.6	3.704	35.5700	34.978	247.0	20.55	1.324	19.3	0.0455	0.0303			8.018
1799.7	1782.1	3.550	36.0325	34.975	250.0	20.35	1.314	20.2	0.0380	0.0254			8.020
2202.1	1981.2	3.311	36.9655	34.971	254.4	20.04	1.296	20.9	0.0467	0.0303			8.027
2401.5	2374.7	2.916	37.8856	34.961	254.7	20.12	1.294	23.7	0.0334	0.0166			8.024
2699.6	2667.6	2.597	40.1320	34.920	243.9	20.39	1.328	26.8	0.0192	0.0127			8.022
3001.5	2963.8	2.464	41.4809	34.919	249.6	22.05	1.435	36.8	-0.0007	0.0020			8.010
3198.7	3157.1	2.374	42.3568	34.916	252.6	21.50	1.377	35.3	0.0050	0.0039			8.016
3198.8	3157.2	2.373	42.3563	34.918	252.6	21.19	1.374	35.1	0.0100	0.0078			8.021
3401.1	3355.3	2.303	43.2476	34.915	254.4	20.96	1.365	35.1	0.0119	0.0078			8.021
3550.3	3501.3	2.267	43.9010	34.913	256.2	20.84	1.341	34.6	0.0074	0.0078			8.021
3699.4	3647.1	2.208	44.5542	34.911	257.1	20.41	1.327	33.7	0.0199	0.0108			8.024
3849.9	3794.2	2.064	45.2204	34.902	258.2	20.87	1.363	37.2	0.0282	0.0156			8.025
3999.7	3940.5	1.707	45.9034	34.863	251.1	22.87	1.511	52.2	0.0095	0.0078			8.021
4197.5	4133.5	1.183	46.8046	34.807	239.2	26.17	1.763	78.2	0.0049	0.0020			7.971
4398.5	4329.5	0.748	47.7114	34.760	231.1	29.08	1.962	97.7	0.0021	-0.0020			7.946
4599.5	4525.3	0.560	48.5912	34.739	227.4	30.50	2.058	106.1	0.0035	0.0068			7.931
4699.7	4622.9	0.473	49.0260	34.726	225.4	31.14	2.098	109.8	0.0146	0.0068			7.918
4800.0	4720.5	0.319	49.4700	34.712	223.2	31.63	2.150	116.1	0.0297	0.0166			7.912
4896.6	4814.4	0.310	49.8818	34.710	223.0	31.77	2.167	116.4	0.0289	0.0166			7.910

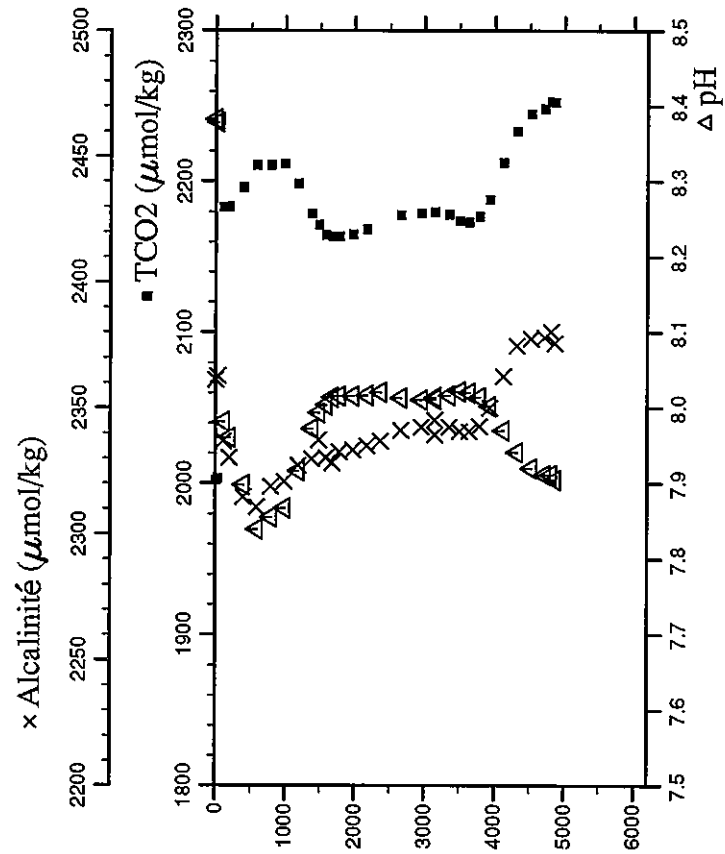
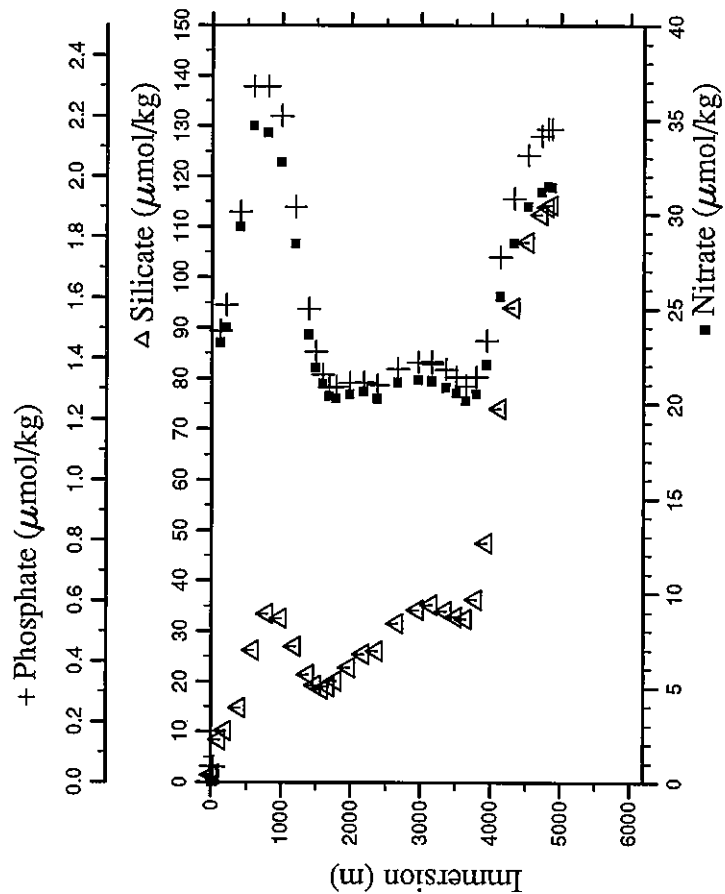
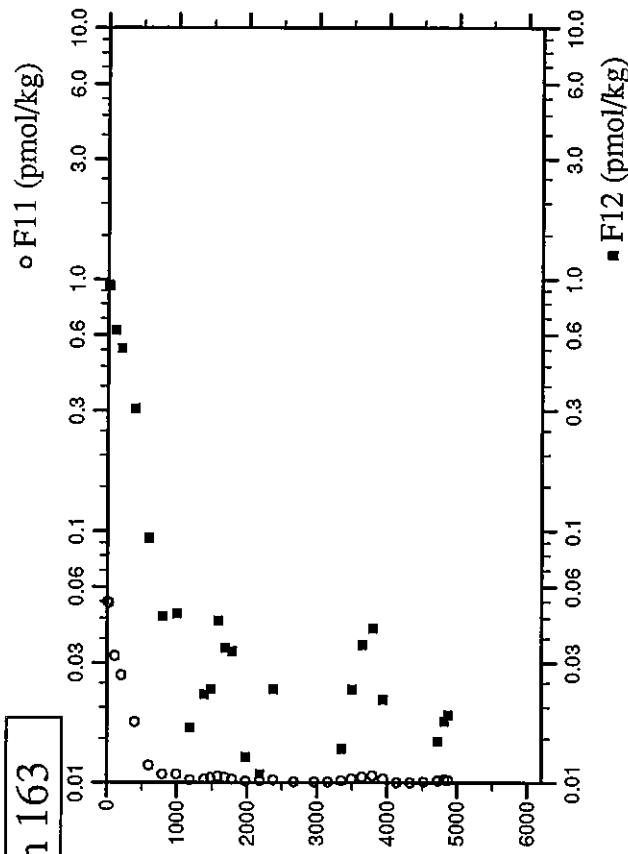
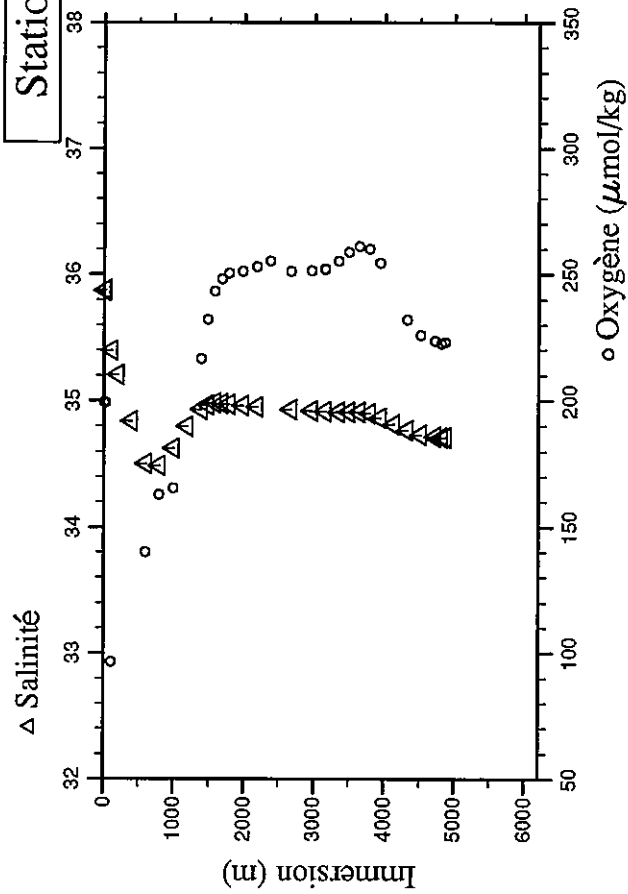
# Station 162



Station : 163 Campagne : CITHER 2  
 Date : 03-03-94 Heure : 2 h 6 mn  
 Position : S 3 0.28 W 30 1.81  
 Dernier niveau à : 4957  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.6	4.6	28.007	23.0693	35.873	199.2	0.04	0.054	1.4	1.6794	0.9537	2002.12	2361.2	8.383
29.9	29.7	27.983	23.1844	35.877	199.2	0.04	0.051	1.6	1.6684	0.9430	2003.27	2362.6	8.379
111.8	111.2	13.829	27.0240	35.400	96.6	23.23	1.490	8.5	1.1746	0.6246	2182.83	2336.6	7.982
201.7	200.5	12.371	27.5717	35.204	109.7	24.00	1.575	10.2	0.9958	0.5318	2183.02	2330.0	7.961
399.5	396.9	9.331	28.7367	34.837	114.9	29.33	1.882	14.8	0.5650	0.3051	2195.87	2314.5	7.898
600.6	596.4	5.613	29.9611	34.506	140.1	34.69	2.297	26.2	0.1631	0.0939	2210.70	2310.6	7.840
800.3	794.4	4.413	31.0189	34.488	162.8	34.29	2.297	33.5	0.0770	0.0460	2210.78	2318.6	7.856
998.8	990.9	4.325	32.0414	34.624	165.5	32.76	2.200	32.6	0.0797	0.0469	2211.81	2320.7	7.868
1200.1	1190.1	4.401	33.0815	34.801	216.6	28.43	1.899	27.0	0.0262	0.0166	2198.60	2327.1	7.917
1396.8	1384.5	4.201	34.0961	34.933	232.1	23.67	1.563	21.4	0.0292	0.0225	2178.73	2329.6	7.973
1498.2	1484.6	4.043	34.6014	34.967	232.1	21.90	1.422	19.3	0.0496	0.0235	2171.49	2337.3	7.994
1598.5	1584.6	3.888	35.0883	34.980	243.3	21.05	1.346	18.5	0.0622	0.0440	2164.40	2330.0	8.004
1699.4	1683.2	3.685	35.5650	34.975	248.0	20.40	1.304	19.0	0.0502	0.0342	2163.84	2328.1	8.014
1800.1	1782.5	3.519	36.0372	34.974	250.4	20.28	1.306	20.1	0.0330	0.0332	2163.51	2332.4	8.016
1999.7	1979.2	3.259	36.9577	34.962	251.1	20.51	1.319	22.8	0.0141	0.0127	2165.19	2333.2	8.016
2199.7	2176.2	3.033	37.8794	34.952	253.0	20.66	1.320	25.5	0.0184	0.0108	2168.22	2334.9	8.017
2399.5	2372.7	2.868	38.7847	34.939	255.1	20.27	1.313	26.1	0.0257	0.0108	2166.72	2336.7	8.021
2700.2	2668.2	2.632	40.1371	34.931	251.2	21.12	1.365	31.6	0.0075	0.0049	2177.71	2341.1	8.013
2998.7	2961.1	2.469	41.4682	34.920	251.4	21.27	1.387	34.3	0.0075	0.0039	2178.86	2342.3	8.011
3198.6	3157.0	2.368	42.3565	34.914	251.9	21.19	1.383	35.2	0.0104	0.0078	2179.63	2339.2	8.012
3198.8	3157.2	2.370	42.3563	34.914	252.1	21.23	1.389	35.2	0.0091	0.0049	2179.63	2345.1	8.014
3398.3	3352.6	2.303	43.2351	34.912	255.1	20.84	1.363	34.0	0.0197	0.0137	2178.00	2342.4	8.017
3550.0	3501.1	2.228	43.9057	34.913	258.7	20.57	1.337	32.8	0.0388	0.0235	2173.87	2340.5	8.022
3697.3	3645.1	2.161	44.5515	34.911	260.9	20.17	1.309	32.5	0.0529	0.0352	2173.10	2340.6	8.020
3847.6	3792.0	1.990	45.2214	34.898	260.1	20.52	1.337	36.3	0.0671	0.0411	2176.87	2342.5	8.014
3996.5	3937.4	1.741	45.8854	34.867	254.4	22.06	1.459	47.5	0.0350	0.0215	2188.05	2350.0	8.002
4197.0	4133.1	1.254	46.7954	34.812	240.6	25.65	1.734	74.0	0.0017	-0.0020	2212.59	2362.3	7.970
4396.6	4327.7	0.793	47.7002	34.766	232.0	28.49	1.927	94.0	0.0023	0.0029	2233.02	2374.7	7.941
4596.9	4522.8	0.517	48.5826	34.733	226.0	30.41	2.071	106.9	0.0107	0.0039	2244.87	2377.4	7.920
4797.5	4718.0	0.362	49.4546	34.719	223.6	31.19	2.135	112.4	0.0226	0.0147	2248.60	2377.8	7.912
4898.3	4816.1	0.326	49.8872	34.714	222.6	31.48	2.158	114.0	0.0288	0.0176	2252.99	2380.1	7.912
4954.1	4870.3	0.326	50.1242	34.713	223.2	31.43	2.158	114.3	0.0277	0.0186	2252.49	2375.5	7.905

# Station 163

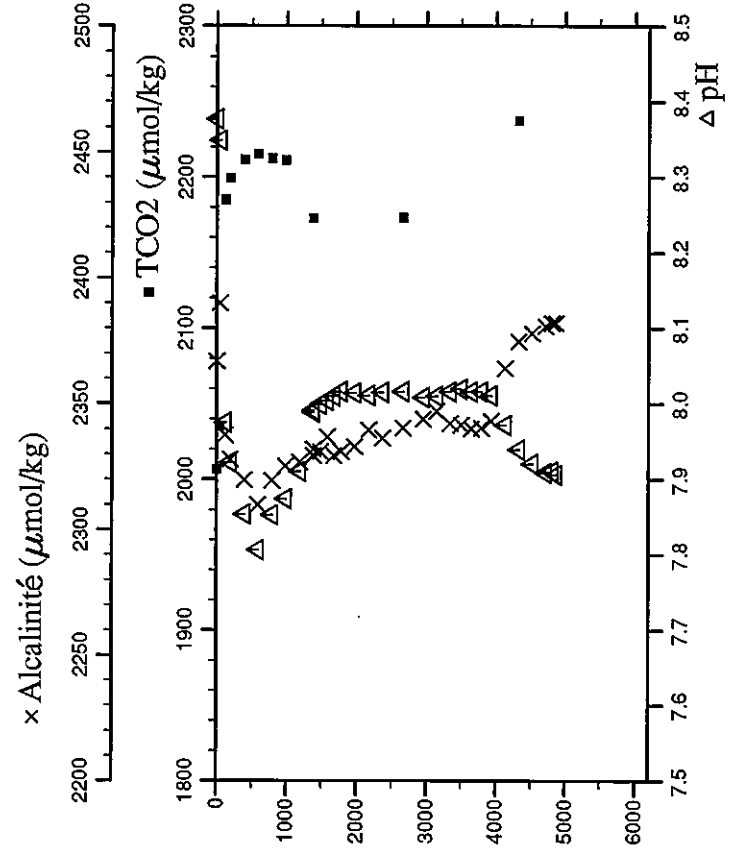
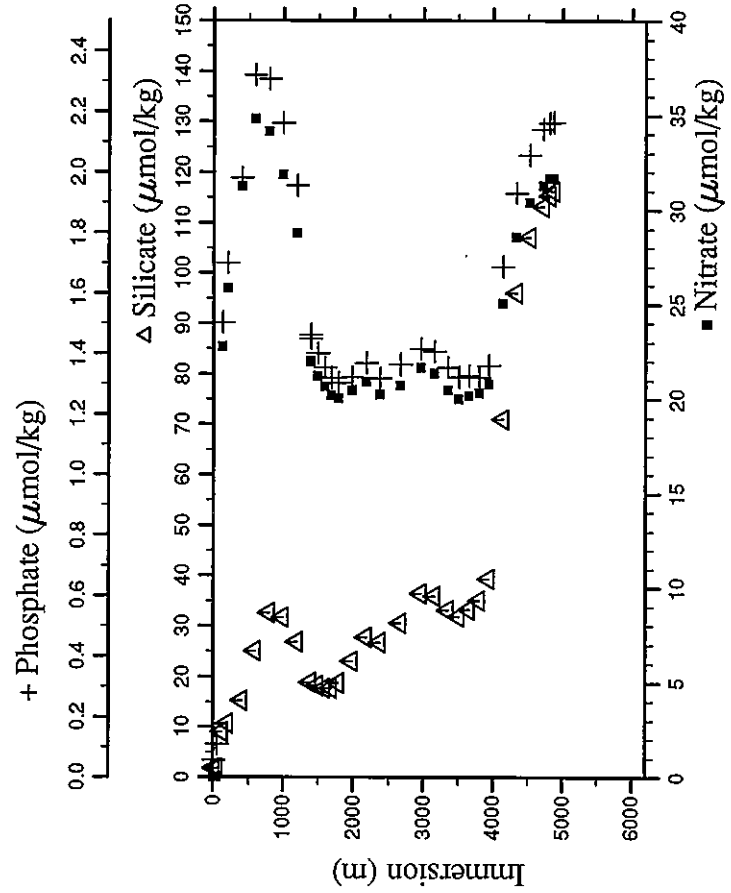
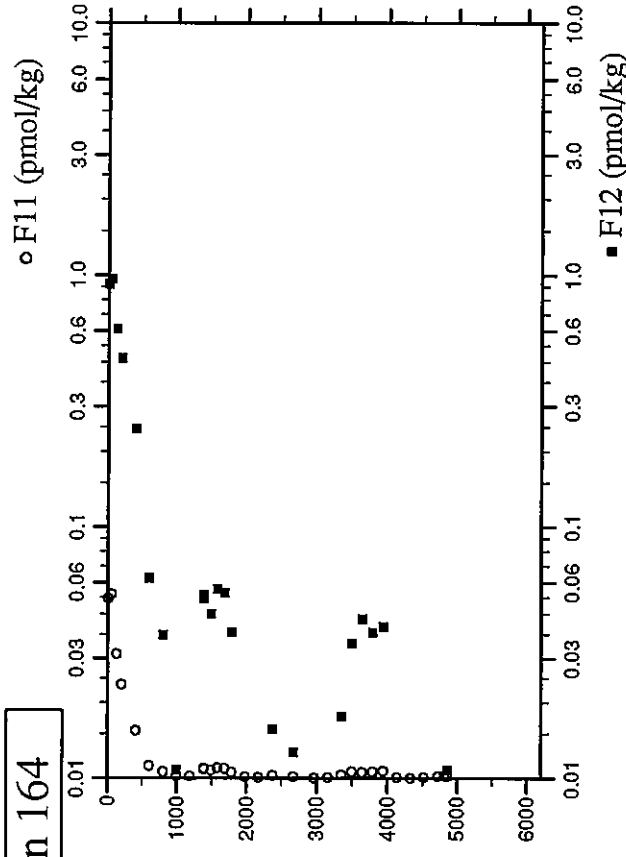
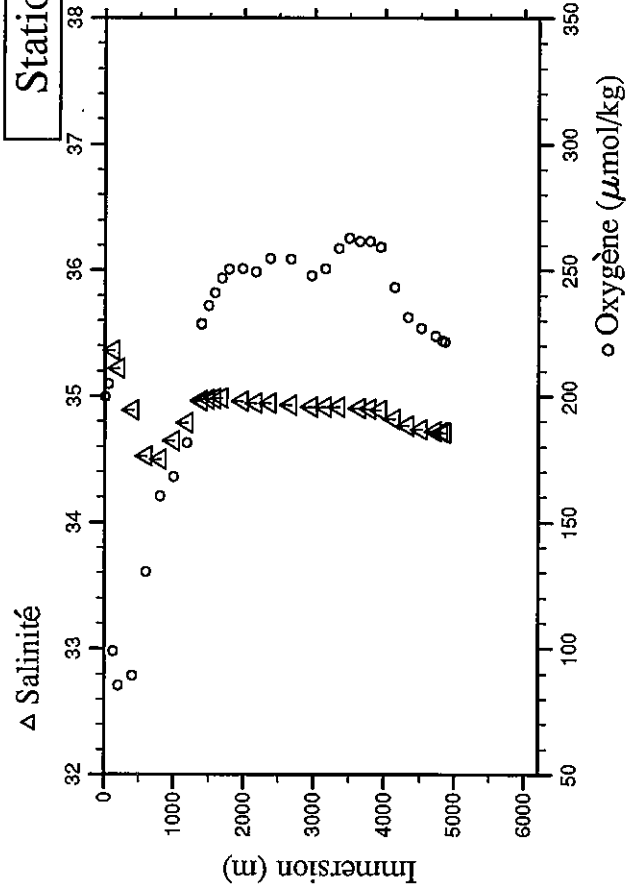




Station : 164 Campagne : CITHR 2  
 Date : 03-03-94 Heure : 8 h 17 mn  
 Position : S 2 29.97 W 30 0.78  
 Dernier niveau à : 4948  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
6.6	6.6	27.888	23.1481	35.927	199.7	0.04	0.059	1.8	1.6679	0.9214	2006.67	2366.8	8.377
49.9	49.6	26.953	23.9188	36.277	204.8	0.04	0.112	1.8	1.7121	0.9622	2035.32	2389.8	8.349
126.0	125.3	13.642	27.1006	35.365	99.0	22.77	1.502	9.1	1.1500	0.6090	2184.74	2337.5	7.975
200.7	199.5	12.535	27.5479	35.222	85.5	25.87	1.699	10.7	0.8673	0.4673	2199.46	2327.9	7.923
401.2	398.6	9.670	28.7254	34.890	89.4	31.27	1.982	15.3	0.4429	0.2454	2211.41	2319.8	7.854
600.6	596.4	5.818	29.9505	34.524	130.4	34.81	2.321	25.1	0.1119	0.0626	2215.26	2309.8	7.807
800.9	795.0	4.407	31.0276	34.497	160.3	34.12	2.309	32.6	0.0590	0.0372	2212.61	2319.5	7.853
998.8	990.9	4.234	32.0697	34.644	167.9	31.86	2.162	31.7	0.0199	0.0108	2211.25	2325.3	7.874
1198.6	1188.6	4.354	33.0686	34.790	181.5	28.77	1.956	26.9	0.0218	0.0088	2326.9	2326.9	7.911
1399.9	1387.5	4.200	34.1348	34.962	228.4	22.04	1.462	18.8	0.0896	0.0518	2329.4	2329.4	7.989
1400.6	1388.2	4.196	34.1397	34.964	228.7	21.96	1.451	18.8	0.0879	0.0538	2332.0	2332.0	7.991
1500.4	1486.8	4.079	34.6162	34.977	235.8	21.23	1.401	18.2	0.0753	0.0450	2172.73	2330.8	7.999
1600.6	1585.7	3.993	35.0825	34.984	241.0	20.69	1.354	17.7	0.0952	0.0567	2336.6	2336.6	8.004
1700.2	1684.0	3.839	35.5502	34.985	246.7	20.20	1.321	17.7	0.0899	0.0548	2329.3	2329.3	8.010
1799.2	1781.6	3.620	36.0228	34.970	250.4	20.04	1.303	18.7	0.0581	0.0381	2330.9	2330.9	8.016
1999.1	1978.6	3.271	36.9534	34.962	250.7	20.46	1.323	23.1	0.0142	0.0088	2333.0	2333.0	8.014
2198.8	2175.3	2.985	37.8748	34.946	249.2	20.93	1.370	27.7	0.0068	0.0068	2339.4	2339.4	8.011
2400.0	2373.2	2.827	38.7921	34.944	254.7	20.23	1.318	26.7	0.0249	0.0156	2336.1	2336.1	8.015
2698.2	2666.2	2.600	40.1360	34.916	247.9	20.70	1.365	30.5	0.0155	0.0127	2340.4	2340.4	8.016
2998.3	2960.7	2.444	41.4677	34.916	247.9	21.66	1.417	36.4	0.0075	0.0059	2173.10	2343.8	8.008
3197.8	3156.3	2.357	42.3528	34.917	250.5	21.35	1.408	35.9	0.0014	0.0078	2346.8	2346.8	8.010
3396.3	3350.7	2.279	43.2321	34.914	258.7	20.47	1.354	33.1	0.0297	0.0176	2342.1	2342.1	8.016
3548.8	3499.9	2.164	43.9094	34.922	262.7	20.00	1.323	31.8	0.0624	0.0342	2341.5	2341.5	8.019
3699.1	3646.9	2.091	44.5704	34.907	261.4	20.16	1.328	33.2	0.0547	0.0430	2339.9	2339.9	8.016
3850.8	3795.1	2.010	45.2337	34.901	261.4	20.31	1.320	35.0	0.0617	0.0381	2340.4	2340.4	8.016
3996.9	3937.8	1.888	45.8753	34.889	259.3	20.77	1.361	39.3	0.0659	0.0401	2343.2	2343.2	8.011
4200.0	4136.0	1.299	46.8058	34.817	243.3	25.04	1.688	71.0	0.0105	0.0049	2363.8	2363.8	7.972
4399.0	4330.0	0.775	47.7120	34.766	231.3	28.58	1.932	96.0	0.0004	0.0039	2374.6	2374.6	7.940
4598.0	4523.9	0.530	48.5878	34.736	226.9	30.39	2.057	107.1	0.0078	0.0029	2377.8	2377.8	7.921
4798.2	4718.7	0.361	49.4589	34.720	223.8	31.28	2.141	113.2	0.0175	0.0088	2380.8	2380.8	7.909
4898.1	4815.9	0.334	49.8865	34.715	222.1	31.67	2.161	115.4	0.0236	0.0098	2382.1	2382.1	7.911
4947.6	4864.1	0.320	50.0993	34.714	221.5	31.67	2.164	116.2	0.0198	0.0108	2382.1	2382.1	7.907

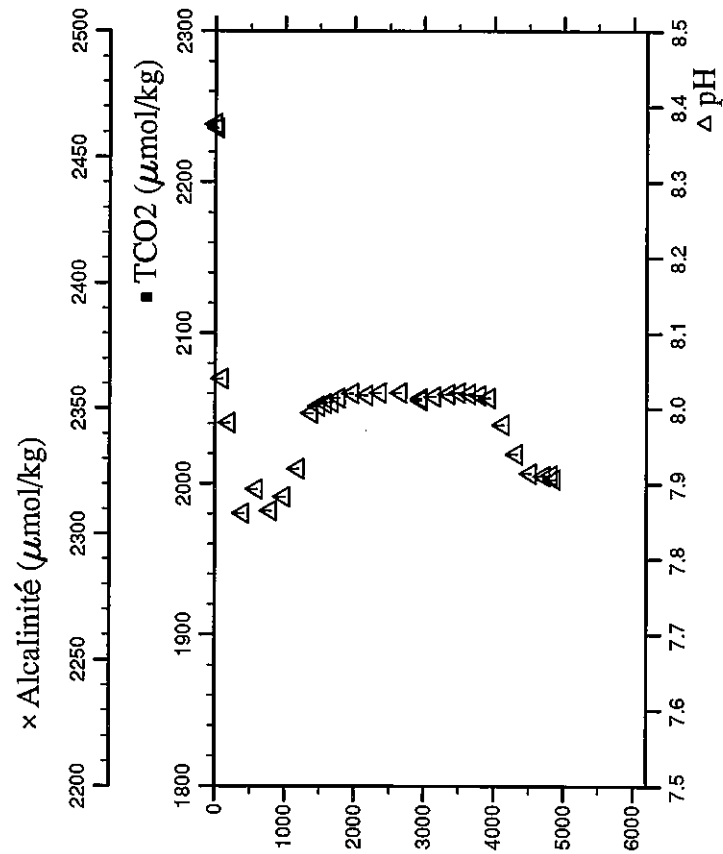
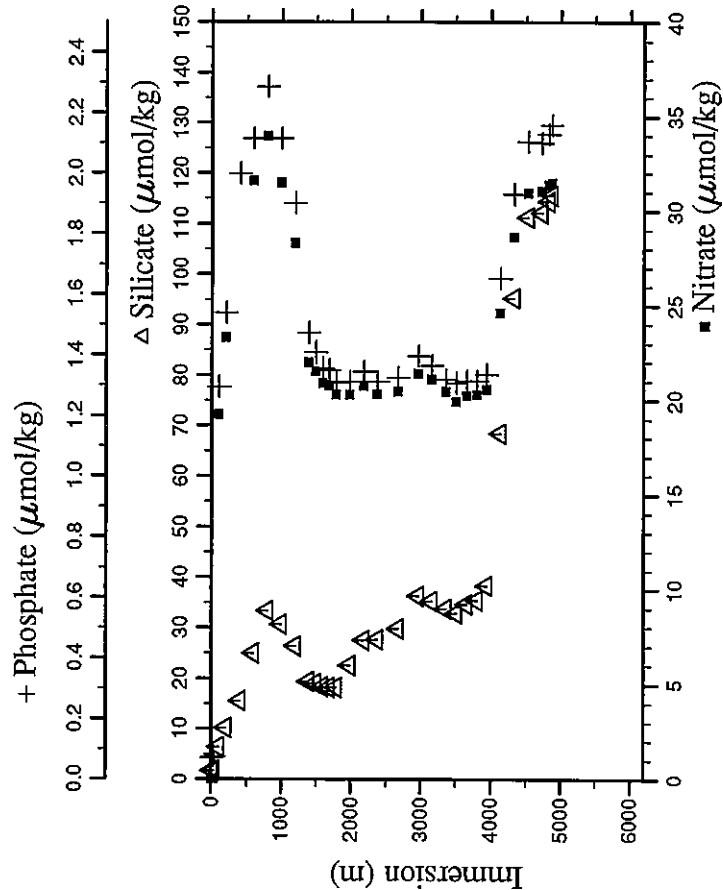
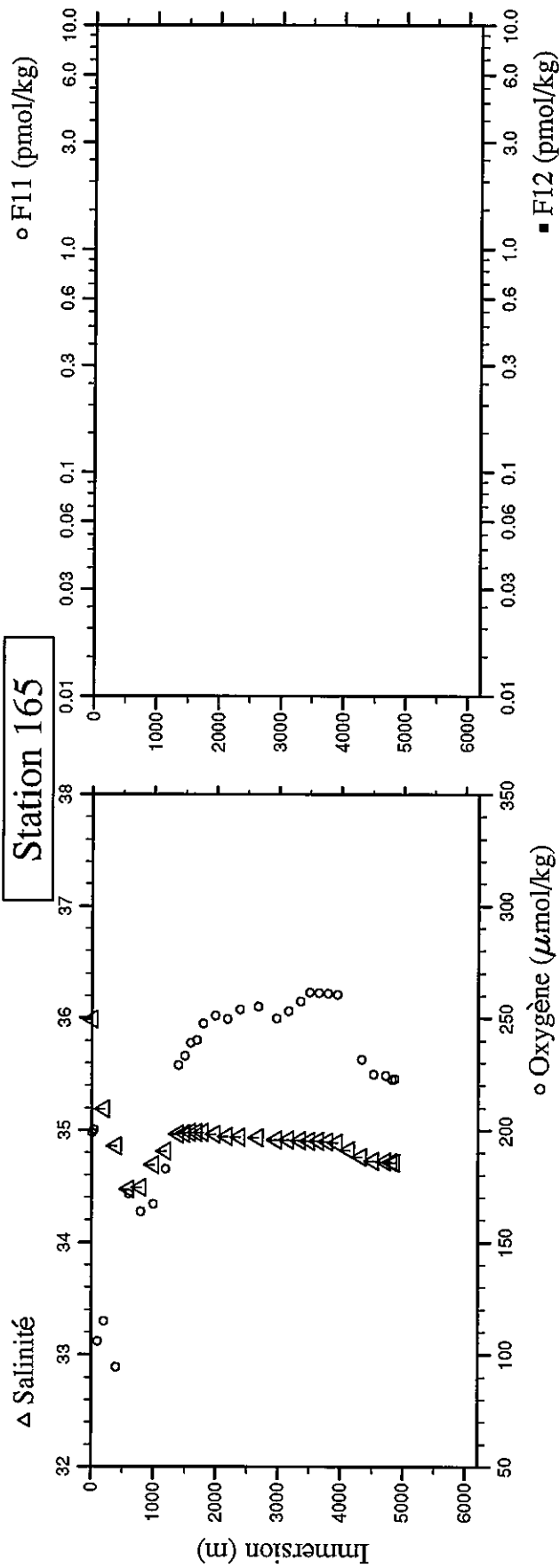
# Station 164



Station : 165 Campagne : CITHER 2  
 Date : 03-03-94 Heure : 13 h 19 mn  
 Position : S 2 12.01 W 29 59.98  
 Dernier niveau à : 4949  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT. NITE	ALCALI- um/kg	pH
dbar	metres	deg. cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
8.4	8.4	27.898	23.2032	35.987	199.1	0.04	0.071	1.7					8.377
35.5	35.3	27.578	23.4286	36.006	200.3	0.04	0.074	1.7					8.372
100.3	99.7	16.400	26.5992	35.609	105.8	19.24	1.295	6.4					8.040
200.6	199.4	12.282	27.5721	35.191	114.7	23.31	1.540	10.2					7.981
400.6	398.0	9.434	28.7431	34.862	94.6	31.38	1.998	15.6					7.861
599.9	595.7	5.535	29.9412	34.471	171.5	31.58	2.115	25.0					7.893
800.3	794.4	4.416	31.0188	34.486	163.7	33.98	2.286	33.3					7.864
1000.0	992.1	4.381	32.0920	34.693	167.0	31.48	2.116	30.7					7.883
1198.7	1188.7	4.495	33.0704	34.815	182.8	28.29	1.901	26.3					7.920
1399.0	1386.6	4.191	34.1339	34.964	228.9	22.01	1.473	19.4					7.994
1500.5	1486.9	4.079	34.6108	34.973	233.1	21.54	1.410	19.0					8.003
1600.0	1585.1	4.046	35.0687	34.981	238.8	20.93	1.357	18.3					8.007
1699.2	1683.0	3.978	35.5239	34.983	240.1	20.78	1.351	18.2					8.008
1800.6	1783.0	3.811	36.0011	34.983	247.6	20.32	1.310	18.2					8.014
2000.0	1979.5	3.290	36.9557	34.965	251.1	20.32	1.312	22.6					8.020
2199.3	2175.8	2.985	37.8771	34.947	249.7	20.78	1.347	27.5					8.018
2399.2	2372.4	2.819	38.7885	34.942	254.0	20.35	1.312	27.6					8.021
2697.6	2665.7	2.620	40.1310	34.934	255.1	20.47	1.325	29.8					8.021
2998.7	2961.1	2.420	41.4736	34.917	249.8	21.39	1.397	36.3					8.013
2999.6	2962.0	2.423	41.4771	34.916	249.9	21.43	1.397	36.3					8.011
3198.7	3157.2	2.333	42.3617	34.917	253.2	21.12	1.365	35.2					8.016
3398.2	3352.5	2.247	43.2438	34.911	257.4	20.47	1.319	33.7					8.019
3548.3	3499.4	2.134	43.9113	34.904	261.4	19.93	1.308	32.9					8.021
3699.0	3646.8	2.057	44.5724	34.903	261.2	20.24	1.315	34.6					8.019
3849.8	3794.2	2.006	45.2292	34.899	261.1	20.32	1.315	35.4					8.018
3999.2	3940.1	1.897	45.8850	34.891	260.5	20.59	1.336	38.3					8.014
4197.3	4133.4	1.350	46.7864	34.826	243.7	24.62	1.653	68.5					7.979
4396.2	4327.3	0.781	47.6985	34.763	231.6	28.63	1.930	95.3					7.940
4596.6	4522.5	0.438	48.5895	34.725	224.9	30.94	2.104	111.3					7.914
4795.2	4715.8	0.378	49.4429	34.722	224.3	31.04	2.101	112.2					7.911
4899.0	4816.8	0.342	49.8894	34.715	222.6	31.39	2.130	114.5					7.912
4947.6	4864.1	0.333	50.0964	34.713	222.9	31.48	2.159	115.6					7.907

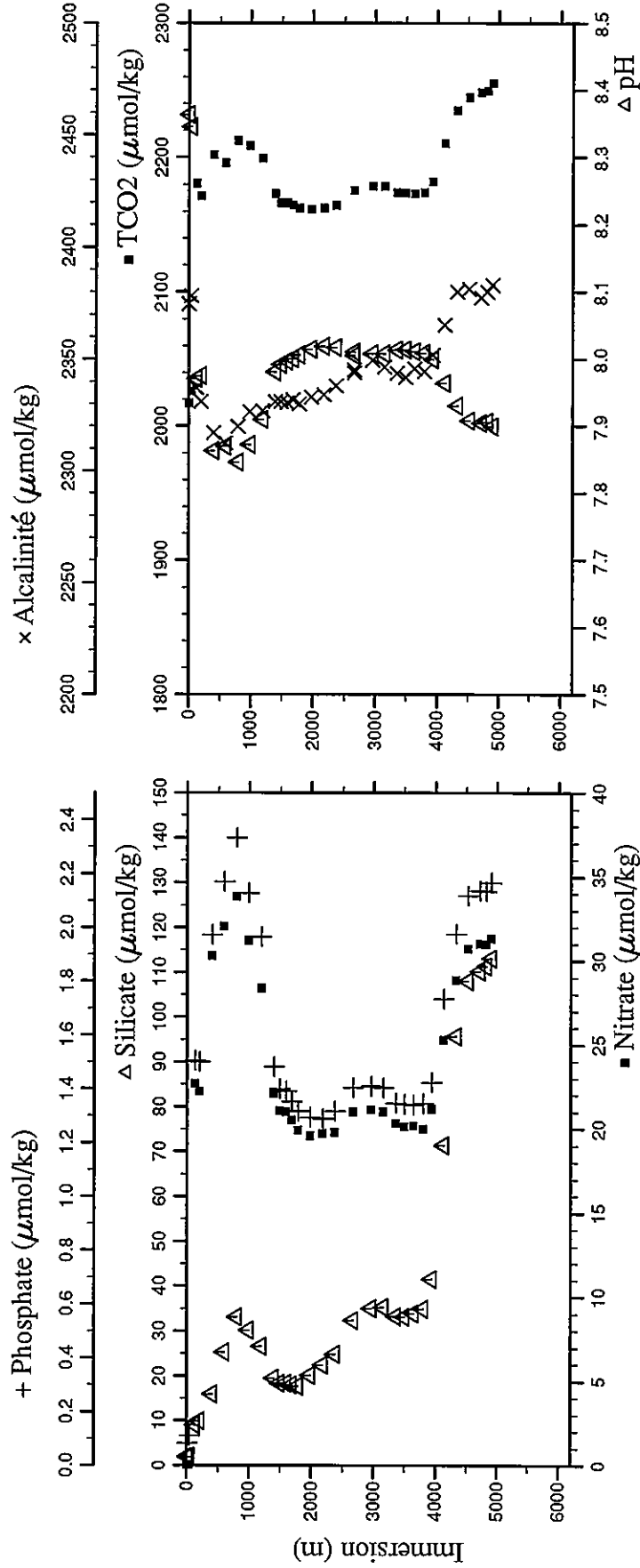
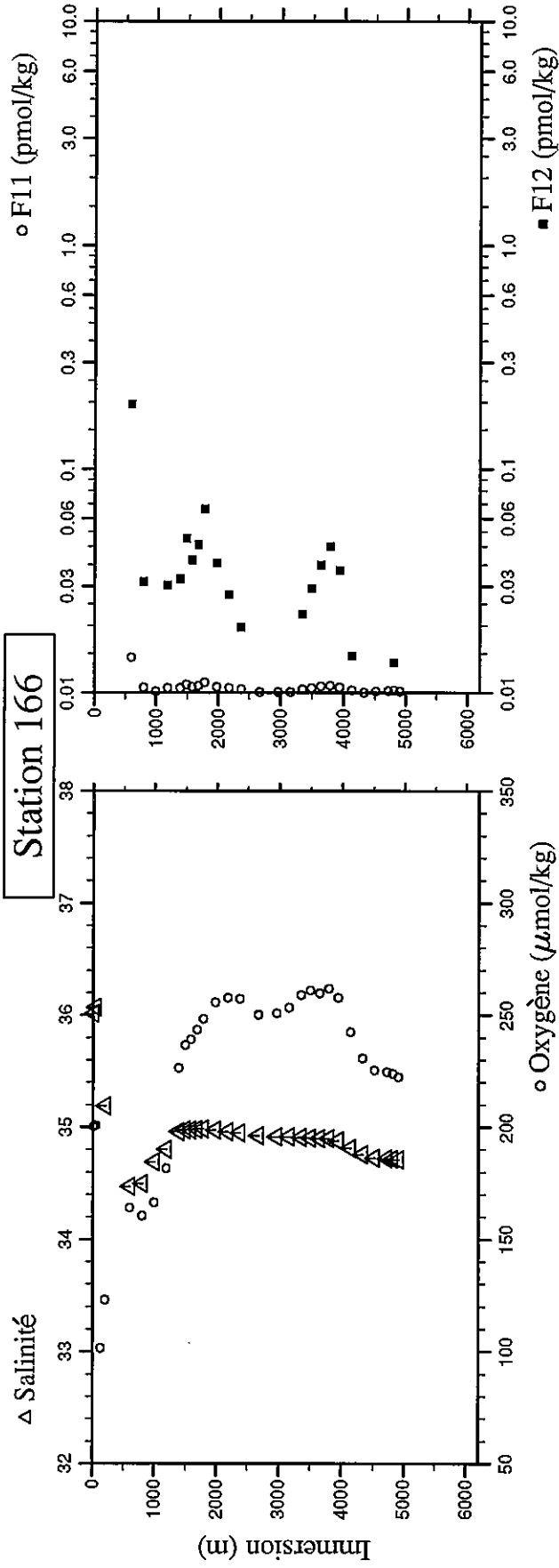
# Station 165



Station : 166 Campagne : CIRHER 2  
 Date : 03-03-94 Heure : 18 h 21 mn  
 Position : S 1 54.00 W 30 0.09  
 Dernier niveau à : 4992  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
6.5	6.5	27.572	23.3246	36.016	200.2	0.04	0.083	1.9			2016.97	2374.7	8.363
40.4	40.2	26.798	23.7611	36.071	200.8	0.04	0.112	2.0			2025.83	2378.2	8.346
125.9	125.2	13.365	27.1423	35.334	101.7	22.72	1.506	9.1			2180.73	2336.9	7.971
199.6	198.4	12.303	27.5658	35.188	123.0	22.24	1.501	10.0			2171.52	2330.9	7.975
398.5	395.9	9.020	28.7667	34.809	108.6	30.31	1.973	16.0			2201.79	2317.0	7.863
600.3	596.1	5.508	29.9476	34.474	164.2	32.08	2.170	25.4	0.3703	0.1947	2196.07	2312.2	7.870
800.6	794.7	4.400	31.0278	34.498	160.5	33.84	2.333	33.1	0.0540	0.0313	2212.60	2319.6	7.846
1001.8	993.9	4.388	32.0983	34.692	166.5	31.21	2.128	30.2	0.0115	0.0039	2208.53	2326.3	7.873
1198.7	1188.7	4.457	33.0704	34.804	181.8	28.38	1.965	26.6	0.0505	0.0303	2199.28	2326.8	7.910
1402.7	1390.3	4.159	34.1516	34.960	226.5	22.11	1.481	19.5	0.0466	0.0323	2173.08	2330.9	7.981
1499.3	1485.7	4.090	34.6090	34.977	236.5	21.08	1.399	18.3	0.0844	0.0489	2166.36	2330.9	7.992
1601.1	1586.2	3.983	35.0819	34.979	239.1	21.00	1.390	18.4	0.0611	0.0391	2166.38	2330.3	7.997
1699.9	1683.7	3.909	35.5395	34.984	243.5	20.55	1.352	18.0	0.0724	0.0460	2164.52	2331.7	8.001
1798.7	1781.1	3.818	35.9966	34.987	248.4	19.94	1.317	17.7	0.1110	0.0665	2162.24	2329.9	8.007
1999.9	1979.4	3.352	36.9542	34.975	255.7	19.60	1.294	20.1	0.0608	0.0381	2161.41	2332.9	8.015
2200.1	2176.6	3.082	37.8770	34.963	257.6	19.73	1.290	22.4	0.0475	0.0274	2162.25	2334.0	8.019
2401.0	2374.2	2.861	38.7949	34.949	257.1	19.80	1.317	24.8	0.0347	0.0196	2164.49	2338.1	8.018
2698.8	2666.8	2.598	40.1341	34.928	250.2	21.02	1.403	32.4	0.0057	0.0029	2175.64	2343.8	8.011
2699.4	2667.4	2.598	40.1366	34.924	250.3	21.03	1.403	32.4	0.0063	0.0029	2175.64	2345.2	8.006
2999.9	2962.3	2.411	41.4808	34.917	250.9	21.15	1.410	35.0	0.0080	0.0039	2178.55	2349.4	8.008
3198.6	3157.1	2.329	42.3607	34.916	253.5	21.03	1.404	35.2	0.0080	0.0059	2178.38	2346.3	8.008
3399.8	3354.1	2.211	43.2552	34.911	259.0	20.34	1.347	33.2	0.0350	0.0225	2173.86	2343.6	8.014
3547.6	3498.7	2.111	43.9100	34.906	260.9	20.12	1.341	33.1	0.0515	0.0293	2173.35	2341.8	8.014
3698.5	3646.3	2.040	44.5725	34.901	259.8	20.16	1.340	33.9	0.0649	0.0372	2173.17	2345.7	8.012
3851.2	3795.5	1.993	45.2385	34.899	261.7	20.01	1.345	34.9	0.0712	0.0450	2173.99	2344.3	8.009
3997.5	3938.4	1.854	45.8793	34.882	257.8	21.20	1.423	41.5	0.0544	0.0352	2182.00	2351.6	8.000
4198.0	4134.1	1.257	46.8003	34.815	242.4	25.30	1.733	71.4	0.0239	0.0147	2210.39	2365.3	7.964
4399.8	4330.8	0.735	47.7171	34.757	230.8	28.86	1.976	95.7	0.0028	0.0000	2234.98	2380.0	7.930
4598.5	4524.4	0.454	48.5962	34.726	225.5	30.70	2.117	108.0	0.0123	0.0039	2244.81	2381.3	7.908
4798.2	4718.8	0.398	49.4538	34.721	224.6	31.01	2.137	110.1	0.0169	0.0088	2248.65	2377.5	7.905
4898.5	4816.3	0.386	49.8812	34.719	223.9	30.97	2.134	111.3	0.0250	0.0137	2249.86	2380.0	7.907
4991.7	4906.9	0.336	50.2829	34.714	222.3	31.31	2.166	113.1	0.0158	0.0068	2255.39	2383.1	7.900

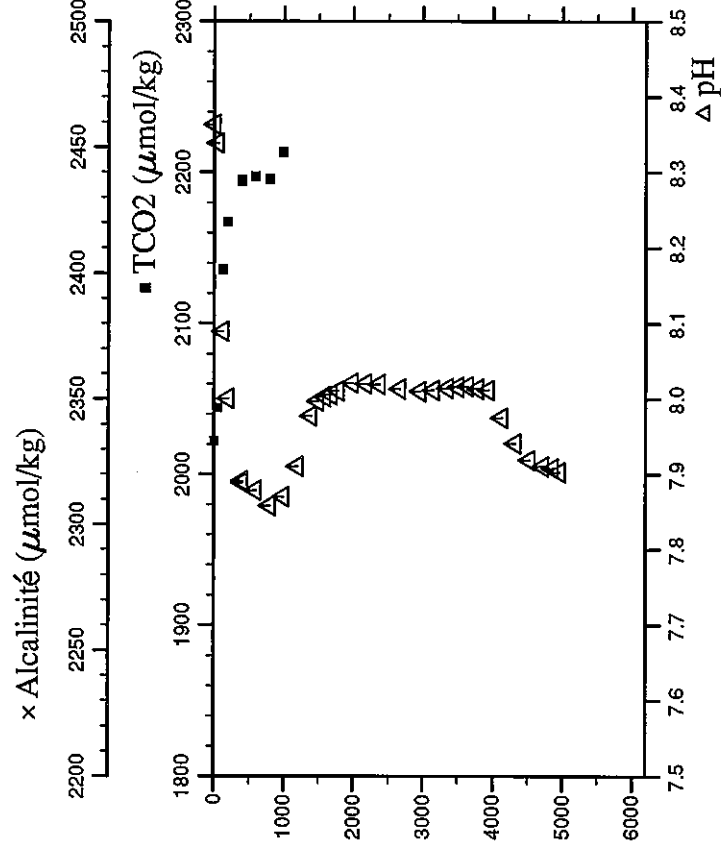
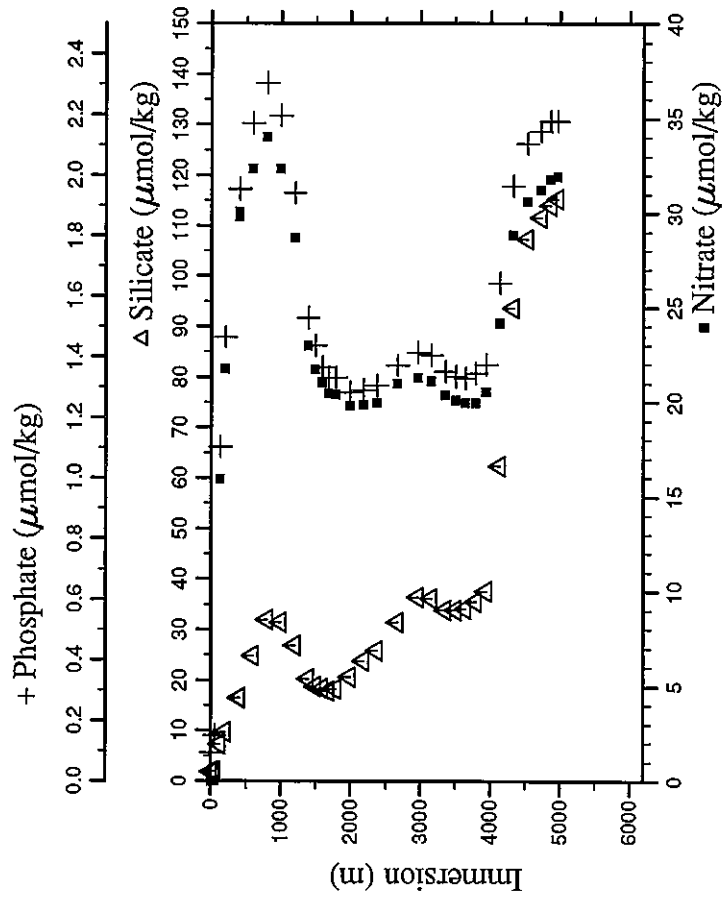
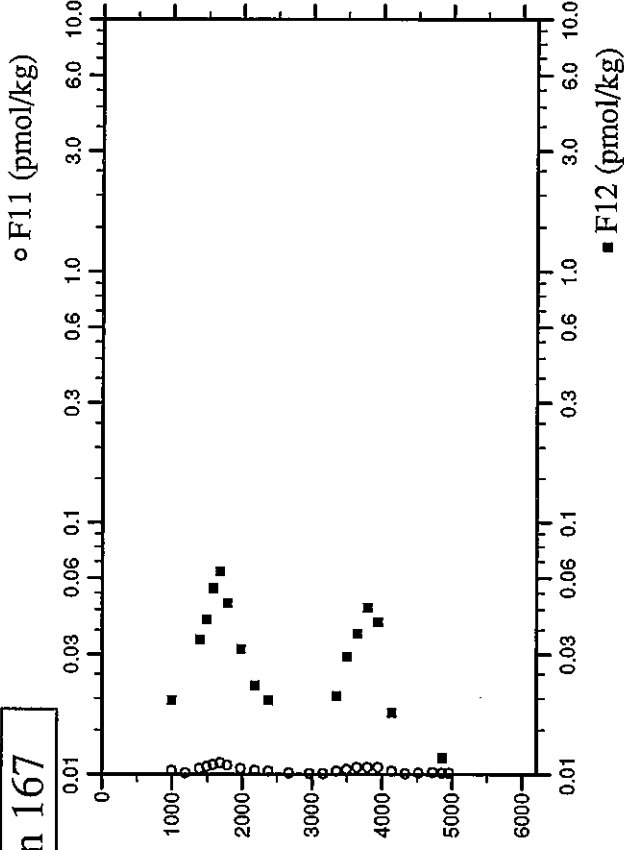
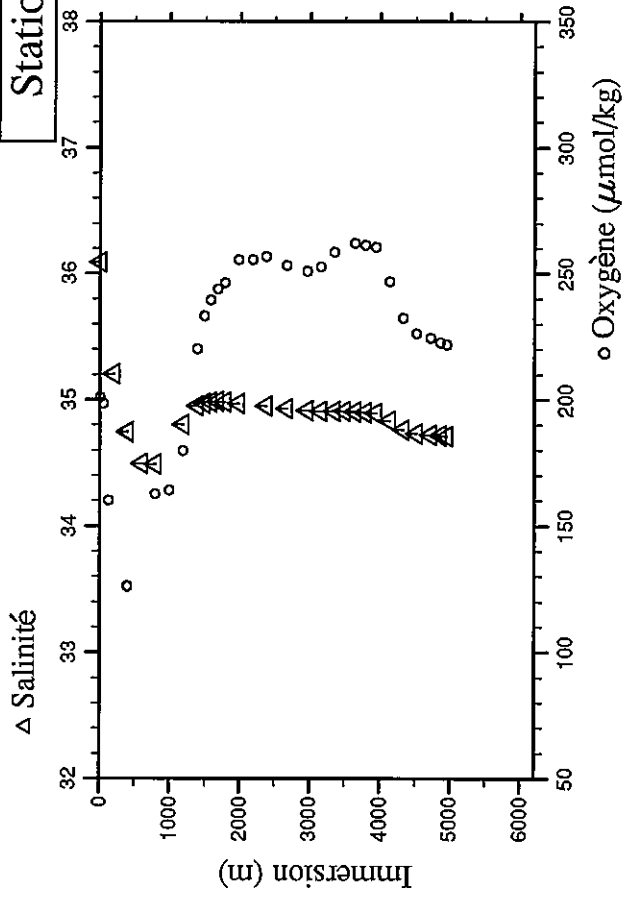
Station 166



Station : 167 Campagne : CATHIER 2  
 Date : 03-03-94 Heure : 23 h 26 mn  
 Position : S 1 35.93 W 30 0.02  
 Dernier niveau à : 5044  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg. cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.1	5.1	27.248	23.4809	36.090	201.1	0.00	0.095	1.8			2022.35		8.363
51.3	51.0	25.962	24.2089	36.244	198.4	0.04	0.151	1.9			2044.12		8.339
125.8	125.1	13.449	27.1146	35.340	160.0	15.92	1.103	7.3			2135.54		8.090
200.9	199.7	12.428	27.5588	35.205	136.7	21.77	1.465	9.7			2167.27		8.001
400.1	397.5	8.501	28.8100	34.750	126.1	29.78	1.957	16.5			2193.95		7.891
400.4	397.8	8.366	28.8278	34.745	126.2	30.07	1.954	16.6			2194.94		7.889
599.4	595.2	5.690	29.9343	34.494	161.3	32.34	2.170	24.8			2197.15		7.879
798.9	793.0	4.529	30.9923	34.486	162.5	33.99	2.304	32.0			2195.31		7.878
1000.4	992.5	4.368	32.0630	34.647	164.2	32.35	2.195	31.5	0.0396	0.0196	2213.26		7.870
1199.2	1189.2	4.444	33.0713	34.804	179.7	28.67	1.941	26.9	0.0125	0.0078			7.911
1399.9	1387.5	4.270	34.1145	34.951	220.0	22.97	1.528	20.2	0.0553	0.0342			7.978
1499.1	1485.5	4.136	34.5976	34.972	233.0	21.72	1.438	18.7	0.0746	0.0411			7.997
1600.3	1585.4	4.039	35.0739	34.982	239.3	21.03	1.365	18.4	0.0921	0.0548			8.003
1699.2	1683.0	3.976	35.5304	34.986	243.6	20.48	1.332	17.8	0.1091	0.0636			8.006
1799.6	1782.0	3.821	35.9983	34.984	246.2	20.41	1.332	18.2	0.0844	0.0479			8.011
2001.1	1980.6	3.314	36.9646	34.973	255.4	19.79	1.283	20.6	0.0566	0.0313			8.021
2200.5	2177.0	3.052	37.8818	34.949	255.5	19.87	1.292	23.8	0.0366	0.0225			8.020
2400.2	2373.4	2.862	38.7906	34.950	256.8	19.95	1.306	25.8	0.0317	0.0196			8.019
2698.6	2666.6	2.621	40.1341	34.931	253.1	20.99	1.371	31.5	0.0131	0.0098			8.013
2998.6	2961.0	2.393	41.4774	34.914	250.8	21.29	1.413	36.4	0.0078	0.0029			8.010
3197.7	3156.2	2.324	42.3573	34.913	252.7	21.13	1.405	36.2	0.0100	0.0039			8.012
3400.3	3354.6	2.223	43.2564	34.913	258.5	20.36	1.353	33.9	0.0338	0.0205			8.014
3548.9	3500.0	2.136	43.9136	34.908	267.7	20.09	1.335	33.9	0.0521	0.0293			8.016
3697.5	3645.3	2.053	44.5676	34.903	262.0	19.97	1.329	34.1	0.0676	0.0362			8.017
3848.2	3792.6	2.011	45.2225	34.898	261.2	19.98	1.346	35.5	0.0700	0.0460			8.017
3996.9	3937.8	1.958	45.8679	34.893	260.4	20.53	1.374	37.5	0.0644	0.0401			8.012
4196.4	4132.5	1.448	46.7740	34.836	246.8	24.17	1.643	62.4	0.0290	0.0176			7.975
4396.7	4327.8	0.807	47.6982	34.764	232.2	28.84	1.965	93.6	0.0083	0.0049			7.941
4597.4	4523.3	0.524	48.5845	34.732	226.2	30.60	2.105	107.4	0.0117	0.0049			7.919
4798.3	4718.9	0.394	49.4553	34.721	224.3	31.21	2.146	111.6	0.0182	0.0068			7.911
4941.7	4858.3	0.347	50.0704	34.715	222.5	31.81	2.178	114.1	0.0162	0.0117			7.908
5041.5	4955.4	0.335	50.4949	34.714	221.9	31.92	2.178	115.4	0.0156	0.0088			7.903

# Station 167

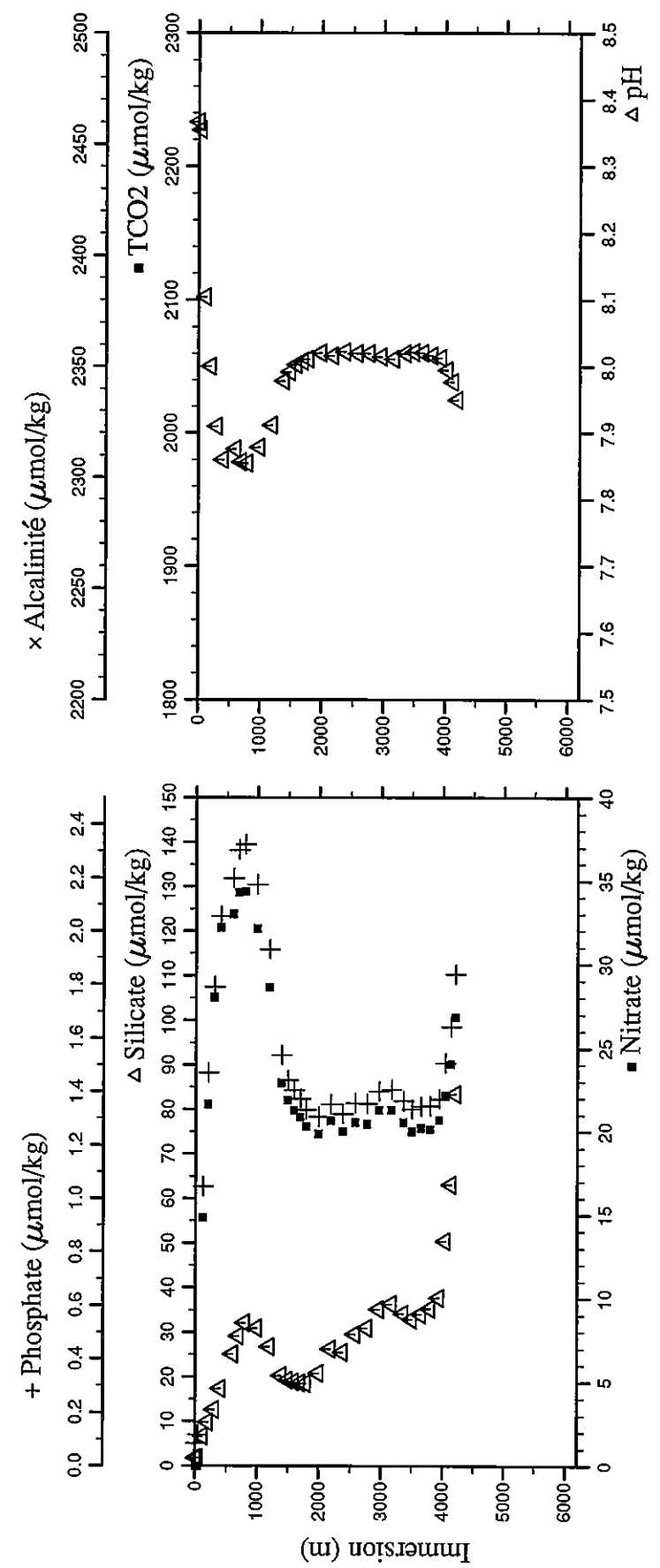
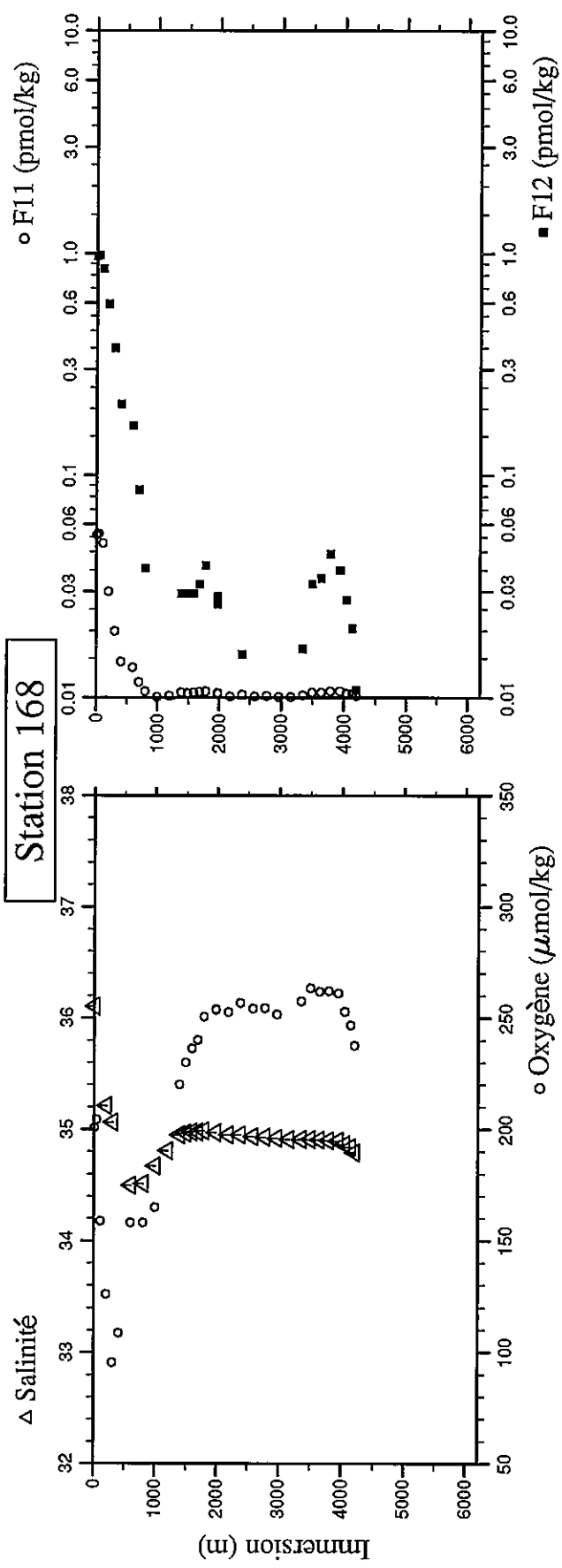




Station : 168 Campagne : CITHHER 2  
 Date : 04-03-94 Heure : 4 h 25 mn  
 Position : S 1 18.04 W 29 59.99  
 Dernier niveau à : 4268  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg. cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.3	7.3	27.217	23.5127	36.106	200.8	0.00	0.086	1.8	1.7017	0.9672			8.367
40.6	40.4	26.590	23.9046	36.186	204.2	0.00	0.118	1.8	1.7191	0.9799			8.355
111.7	111.1	14.113	27.0013	35.492	158.7	14.86	1.045	6.6	1.6167	0.8514			8.105
201.6	200.4	12.448	27.5611	35.208	125.9	21.64	1.471	9.8	1.1116	0.5944			8.001
301.1	299.2	11.068	28.1553	35.061	95.4	28.02	1.791	12.6	0.6970	0.3755			7.910
401.8	399.2	8.518	28.8325	34.767	108.7	32.19	2.055	17.3	0.3761	0.2093			7.860
602.7	598.5	5.677	29.9558	34.499	158.0	33.00	2.197	25.1	0.3173	0.1673			7.876
701.6	696.6	5.048	30.4818	34.479	157.4	34.31	2.304	29.1	0.1622	0.0861			7.857
801.0	795.1	4.577	31.0179	34.512	158.0	34.37	2.326	32.1	0.0687	0.0381			7.855
1000.7	992.8	4.385	32.0774	34.674	164.8	32.12	2.175	31.0	0.0089	0.0020			7.879
1200.7	1190.7	4.432	33.0835	34.809	189.8	28.61	1.930	26.8	0.0180	0.0059			7.912
1400.6	1388.2	4.259	34.1207	34.949	220.2	22.93	1.537	20.3	0.0556	0.0293			7.992
1503.1	1489.5	4.125	34.6147	34.966	229.9	21.87	1.443	19.3	0.0498	0.0293			7.992
1602.4	1587.5	4.013	35.0821	34.976	236.3	21.25	1.405	18.9	0.0572	0.0293			8.003
1701.6	1685.4	3.940	35.5403	34.979	240.2	20.86	1.373	18.6	0.0608	0.0323			8.008
1799.9	1782.3	3.799	36.0034	34.985	250.6	20.31	1.331	18.5	0.0649	0.0391			8.012
2002.2	1981.7	3.370	36.9618	34.973	253.8	19.85	1.306	20.8	0.0452	0.0264			8.021
2201.9	1981.8	3.371	36.9631	34.972	253.6	19.88	1.306	20.8	0.0507	0.0284			8.021
2401.9	2178.3	3.017	37.8891	34.952	252.7	20.64	1.352	26.2	0.0162	0.0078			8.017
2603.2	2375.1	2.880	38.7976	34.950	256.6	20.01	1.317	25.5	0.0312	0.0156			8.023
2800.4	2766.6	2.697	39.7062	34.937	254.2	20.53	1.356	29.5	0.0148	0.0068			8.020
3000.1	2952.5	2.567	40.5909	34.931	254.3	20.44	1.355	30.9	0.0180	0.0098			8.015
3202.4	2962.5	2.413	41.4834	34.919	251.6	21.28	1.402	35.1	0.0075	0.0029			8.015
3399.5	3160.8	2.338	42.3773	34.913	257.4	21.29	1.407	36.3	0.0073	0.0059			8.012
3547.6	3353.8	2.245	43.2519	34.913	263.2	20.54	1.365	34.1	0.0241	0.0166			8.020
3696.6	3498.8	2.160	43.9050	34.911	261.7	20.01	1.333	32.9	0.0560	0.0323			8.022
3849.3	3644.5	2.090	44.5589	34.905	261.7	20.20	1.344	34.0	0.0561	0.0342			8.021
3999.5	3793.7	2.012	45.2277	34.899	262.1	20.12	1.346	35.3	0.0673	0.0440			8.017
4098.9	3940.4	1.949	45.8817	34.894	260.9	20.68	1.371	37.7	0.0674	0.0372			8.013
4196.2	4037.4	1.699	46.3329	34.867	253.0	22.18	1.507	50.4	0.0448	0.0274			7.995
4266.6	4132.3	1.433	46.7751	34.837	246.8	24.03	1.643	63.1	0.0357	0.0205			7.977
	4201.0	1.038	47.1182	34.794	237.5	26.84	1.837	83.5	0.0180	0.0108			7.950

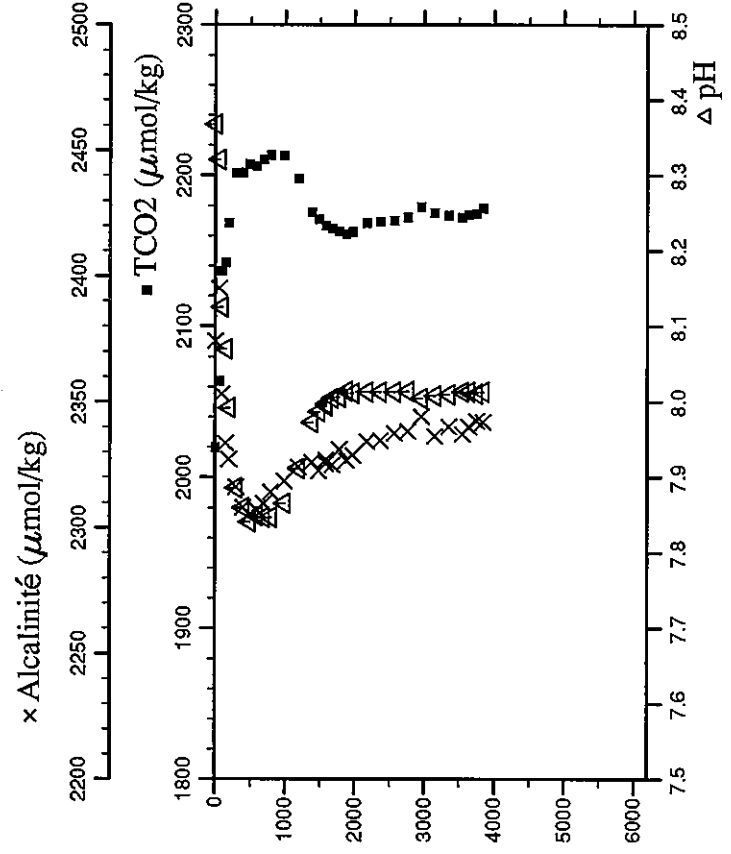
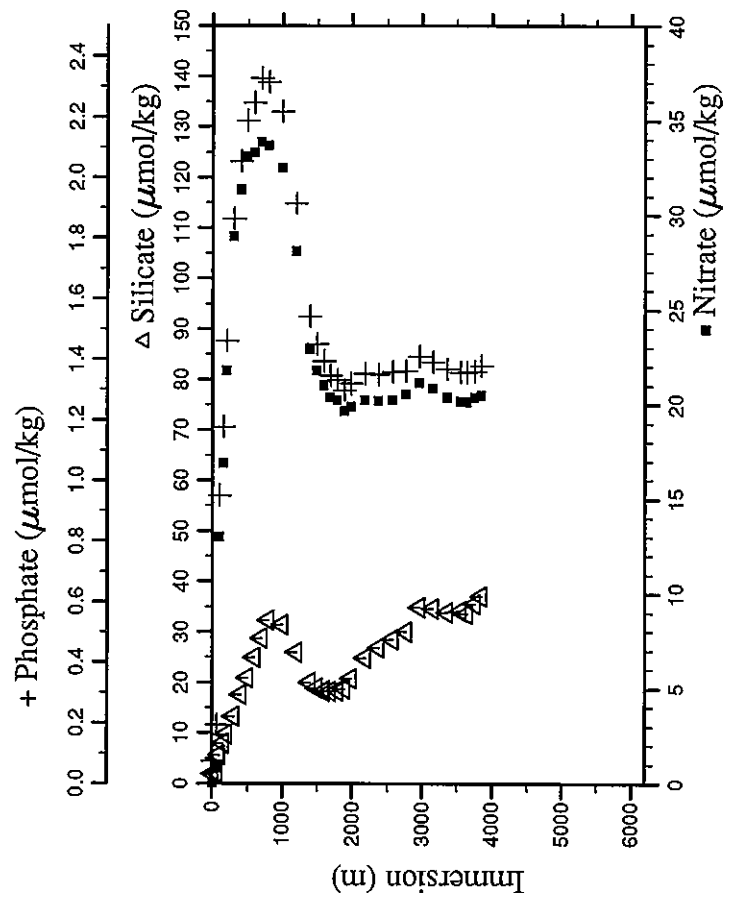
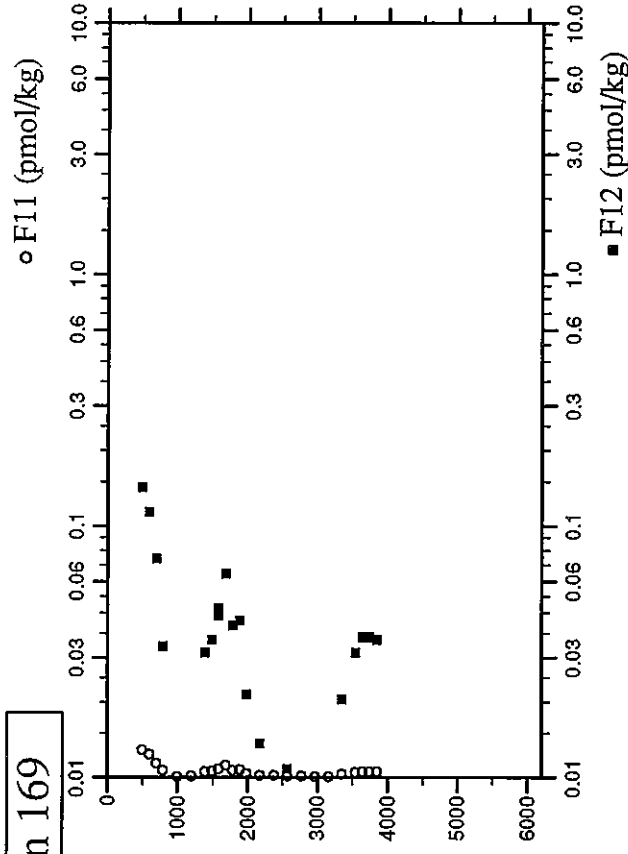
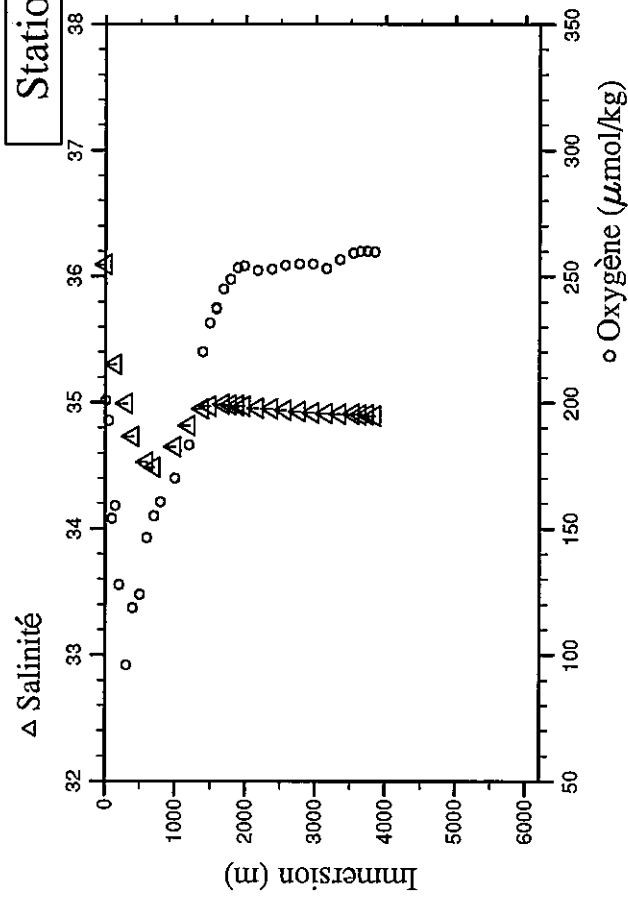
Station 168



$\blacksquare$  Nitrate ( $\mu\text{mol/kg}$ )

Station : 169 Campagne : CITHER 2  
 Date : 04-03-94 Heure : 9 h 13 mn  
 Position : S 0 59.95 W 30 0.07  
 Dernier niveau à : 3904  
 Nb prélèvements : 32

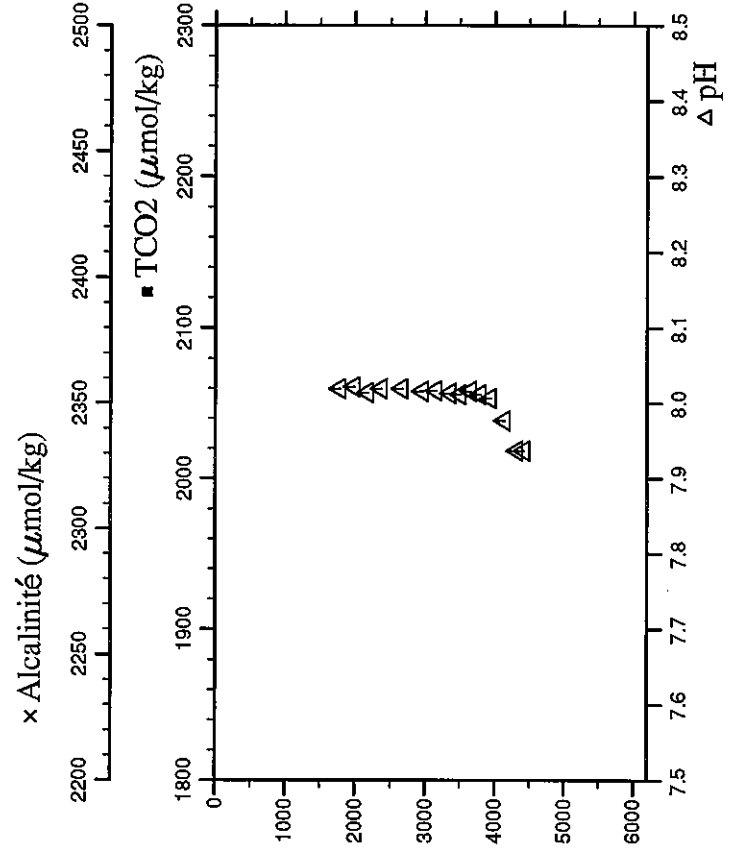
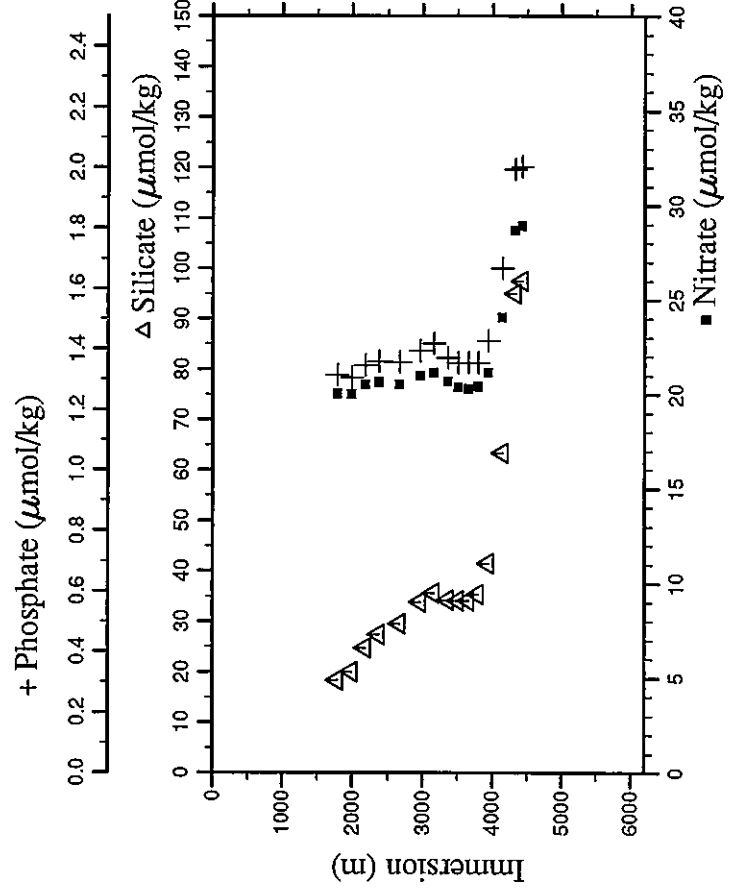
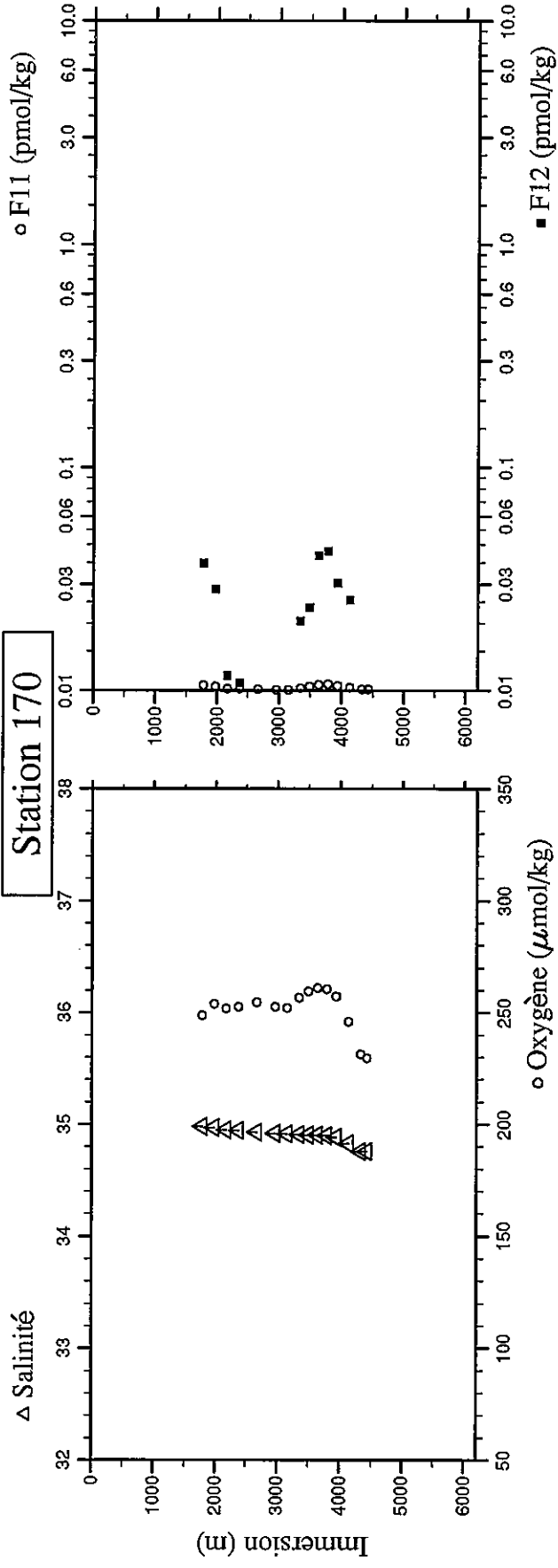
PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg. cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
3.9	3.9	27.337	23.4512	36.095	200.8	0.04	0.074	1.9			2019.54	2374.0	8.368
55.5	55.2	25.034	24.6326	36.398	192.9	0.83	0.193	2.2			2063.52	2395.0	8.321
100.2	99.6	16.389	26.6566	35.684	154.0	13.02	0.950	5.6			2136.66	2352.9	8.125
150.1	149.2	13.233	27.2448	35.304	159.0	16.92	1.177	7.9			2142.26	2333.3	8.070
199.3	198.1	12.437	27.5543	35.206	127.7	21.81	1.461	9.7			2168.57	2327.1	7.992
300.9	299.0	10.552	28.2003	34.994	95.9	28.88	1.863	13.3			2201.59	2316.0	7.886
400.5	397.9	8.185	28.8516	34.731	118.7	31.35	2.053	17.6			2201.96	2308.1	7.860
498.5	495.2	7.096	29.3854	34.622	123.9	33.11	2.187	20.9	0.2571	0.1418	2207.18	2305.3	7.841
600.8	596.6	5.796	29.9569	34.528	146.4	33.31	2.247	25.0	0.2138	0.1135	2206.14	2307.1	7.849
699.8	694.8	5.064	30.4754	34.489	155.1	33.87	2.327	28.8	0.1348	0.0743	2210.26	2309.4	7.847
800.3	794.4	4.460	31.0405	34.519	160.5	33.71	2.315	32.4	0.0651	0.0333	2213.19	2314.2	7.847
1000.3	992.4	4.362	32.0619	34.653	170.0	32.50	2.217	31.4	0.0086	0.0029	2212.76	2318.4	7.866
1200.6	1190.6	4.430	33.0932	34.820	183.2	28.11	1.915	26.0	0.0142	0.0068	2197.75	2323.9	7.912
1398.9	1386.6	4.261	34.1145	34.950	220.2	22.90	1.541	20.0	0.0530	0.0313	2175.54	2325.8	7.973
1500.8	1487.2	4.125	34.6061	34.973	231.4	21.80	1.450	18.9	0.0640	0.0352	2170.87	2322.4	7.987
1599.3	1584.4	4.039	35.0689	34.974	237.7	21.01	1.393	18.3	0.0803	0.0469	2166.82	2326.8	7.997
1599.7	1584.8	4.044	35.0712	34.976	237.0	21.01	1.394	18.2	0.0771	0.0440	2166.82	2325.3	7.995
1700.1	1683.9	3.909	35.5431	34.986	244.9	20.38	1.346	18.2	0.1167	0.0645	2164.61	2324.7	8.005
1799.8	1782.2	3.728	36.0139	34.983	248.9	20.22	1.331	18.3	0.0667	0.0401	2162.87	2330.8	8.007
1901.2	1882.2	3.542	36.4916	34.979	253.3	19.67	1.298	18.7	0.0724	0.0420	2160.98	2326.5	8.014
1998.6	1978.2	3.364	36.9474	34.972	254.1	19.90	1.320	20.8	0.0385	0.0215	2162.37	2328.6	8.012
2197.9	2174.4	3.053	37.8693	34.957	252.4	20.22	1.352	24.9	0.0226	0.0137	2168.18	2334.2	8.013
2399.4	2372.6	2.882	38.7846	34.950	253.0	20.21	1.350	26.9	0.0182	0.0098	2169.09	2334.5	8.013
2601.5	2571.3	2.712	39.6986	34.941	254.5	20.25	1.358	28.5	0.0166	0.0108	2169.94	2337.4	8.013
2799.8	2766.0	2.571	40.5892	34.931	254.9	20.53	1.360	30.1	0.0130	0.0088	2172.07	2338.2	8.014
3000.4	2962.8	2.425	41.4839	34.920	254.9	21.16	1.409	34.9	0.0084	0.0039	2178.88	2344.1	8.005
3199.4	3157.9	2.329	42.3675	34.917	253.1	20.84	1.390	34.6	0.0108	0.0049	2175.31	2336.2	8.008
3399.5	3353.8	2.223	43.2532	34.912	256.8	20.37	1.368	33.8	0.0290	0.0205	2173.40	2340.0	8.010
3597.9	3548.0	2.110	44.1304	34.909	259.3	20.17	1.356	34.1	0.0470	0.0313	2172.14	2336.9	8.013
3697.4	3645.3	2.076	44.5658	34.907	259.9	20.13	1.356	33.6	0.0579	0.0362	2173.94	2340.1	8.013
3803.5	3749.0	2.026	45.0289	34.905	259.9	20.36	1.358	35.5	0.0546	0.0362	2174.72	2342.3	8.011
3903.9	3847.0	1.978	45.4667	34.896	259.7	20.48	1.377	37.0	0.0578	0.0352	2178.05	2341.8	8.013



Station : 170 Campagne : CIPHER 2  
 Date : 04-03-94 Heure : 14 h 30 mn  
 Position : S 0 44.91 W 30 25.88  
 Dernier niveau à : 4548  
 Nb prélèvements : 15

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI-	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
1801.7	1784.1	3.698	36.0251	34.980	248.8	20.03	1.315	18.3	0.0566	0.0372			8.019
2001.5	1981.0	3.403	36.9537	34.973	253.9	19.99	1.305	20.0	0.0458	0.0284			8.022
2198.5	2175.0	3.088	37.8655	34.953	251.8	20.51	1.346	24.7	0.0176	0.0117			8.014
2399.4	2372.6	2.843	38.7864	34.944	252.7	20.63	1.359	27.4	0.0186	0.0108			8.019
2699.3	2667.3	2.633	40.1372	34.933	254.7	20.51	1.357	29.6	0.0145	0.0078			8.019
3000.3	2962.7	2.419	41.4830	34.919	252.6	20.98	1.395	33.9	0.0098	0.0078			8.016
3197.4	3155.9	2.321	42.3562	34.915	252.2	21.14	1.418	35.6	0.0096	0.0059			8.017
3399.4	3353.7	2.218	43.2522	34.909	256.8	20.67	1.372	34.3	0.0276	0.0205			8.013
3549.7	3500.8	2.110	43.9194	34.907	259.5	20.36	1.354	34.1	0.0449	0.0235			8.012
3699.0	3646.8	2.053	44.5736	34.903	260.9	20.32	1.354	34.1	0.0593	0.0401			8.016
3848.3	3792.7	1.990	45.2262	34.898	260.5	20.39	1.354	35.4	0.0661	0.0420			8.012
3997.5	3938.4	1.867	45.8793	34.884	257.3	21.15	1.426	41.5	0.0523	0.0303			8.007
4199.0	4135.1	1.402	46.7900	34.831	246.0	24.06	1.668	63.4	0.0330	0.0254			7.977
4396.8	4327.9	0.758	47.7030	34.760	231.3	28.68	1.995	95.0	0.0159	0.0078			7.937
4497.4	4426.0	0.702	48.1387	34.757	229.5	28.93	2.004	97.5	0.0153	0.0068			7.937

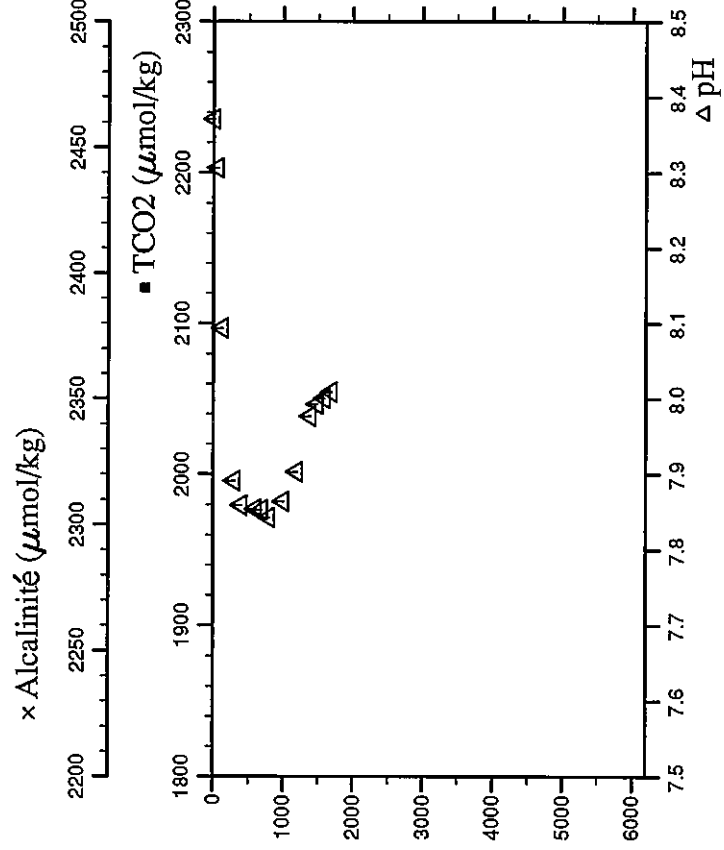
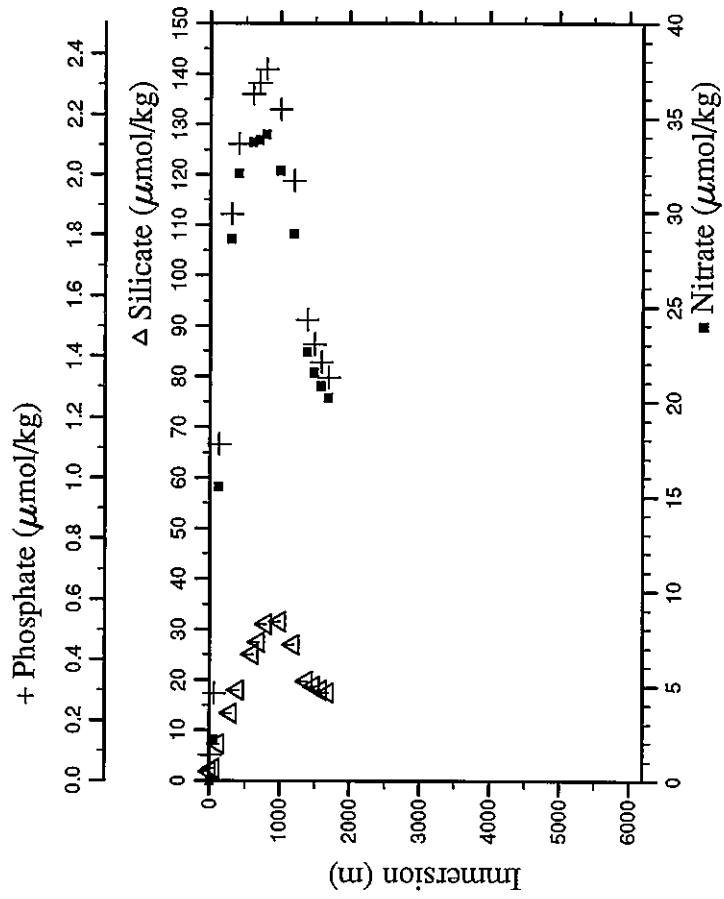
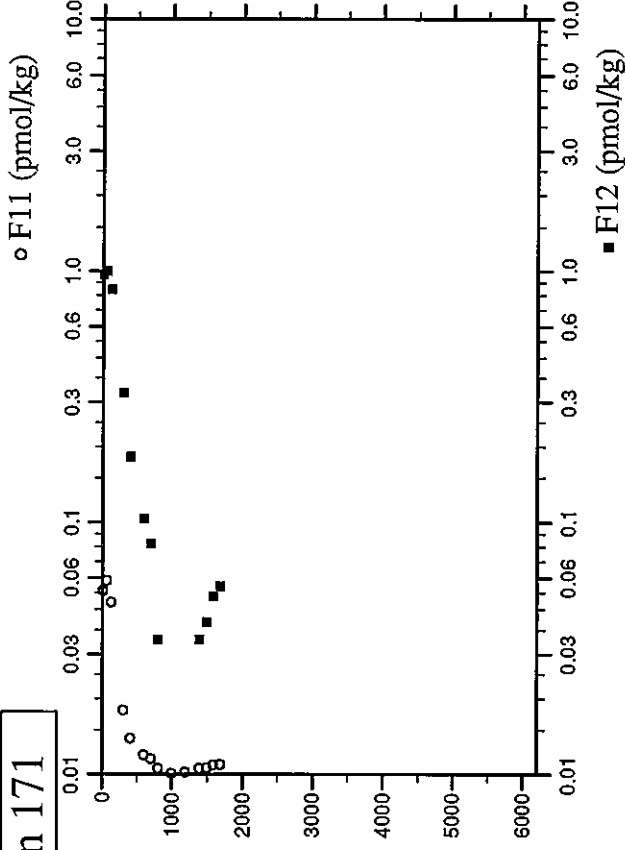
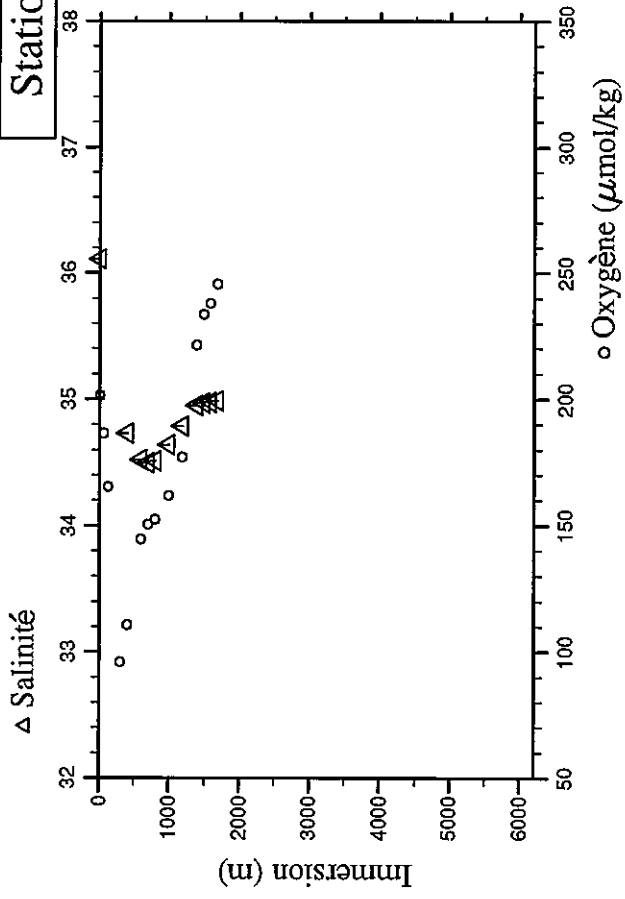
### Station 170



Station : 171 Campagne : CIRHER 2  
 Date : 04-03-94 Heure : 18 h 37 mn  
 Position : S 0 45.06 W 30 25.86  
 Dernier niveau à : 1702  
 Nb prélèvements : 16

PRESSION CHIMIE	IMMERISION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.9	4.9	27.299	23.4806	36.113	201.3	0.00	0.086	1.8	1.7028	0.9622			8.371
5.4	5.4	27.300	23.4828	36.112	201.6	0.00	0.086	1.8	1.6992	0.9632			8.371
60.1	59.8	23.833	25.0747	36.480	186.6	2.16	0.289	2.4	1.7910	0.9961			8.307
126.2	125.5	13.560	27.1011	35.333	165.3	15.54	1.111	7.3	1.5935	0.8425			8.094
300.9	299.0	10.552	28.1995	34.987	95.9	28.57	1.869	13.4	0.5934	0.3256			7.891
402.5	399.9	8.143	28.8649	34.732	110.7	32.06	2.103	18.0	0.3354	0.1819			7.859
602.6	598.4	5.802	29.9605	34.525	144.6	2.267	2.267	25.1	0.1790	0.1037			7.854
698.9	693.9	5.321	30.4420	34.499	150.3	33.82	2.304	27.5	0.1436	0.0822			7.853
800.9	795.0	4.737	31.0012	34.515	152.4	34.13	2.349	31.1	0.0531	0.0342			7.843
1002.4	994.5	4.372	32.0611	34.640	161.9	32.22	2.218	31.6	0.0105	0.0078			7.864
1199.8	1189.8	4.457	33.0586	34.787	177.1	28.85	1.979	27.0	0.0170	0.0078			7.903
1400.3	1387.9	4.261	34.1193	34.952	221.4	22.62	1.519	19.7	0.0539	0.0342			7.977
1500.3	1486.7	4.126	34.6012	34.970	233.6	21.54	1.440	18.7	0.0623	0.0401			7.993
1600.4	1585.5	4.050	35.0692	34.979	238.0	20.81	1.381	18.0	0.0823	0.0508			8.001
1701.7	1685.5	3.890	35.5525	34.987	245.5	20.19	1.330	17.5	0.0921	0.0557			8.009

# Station 171

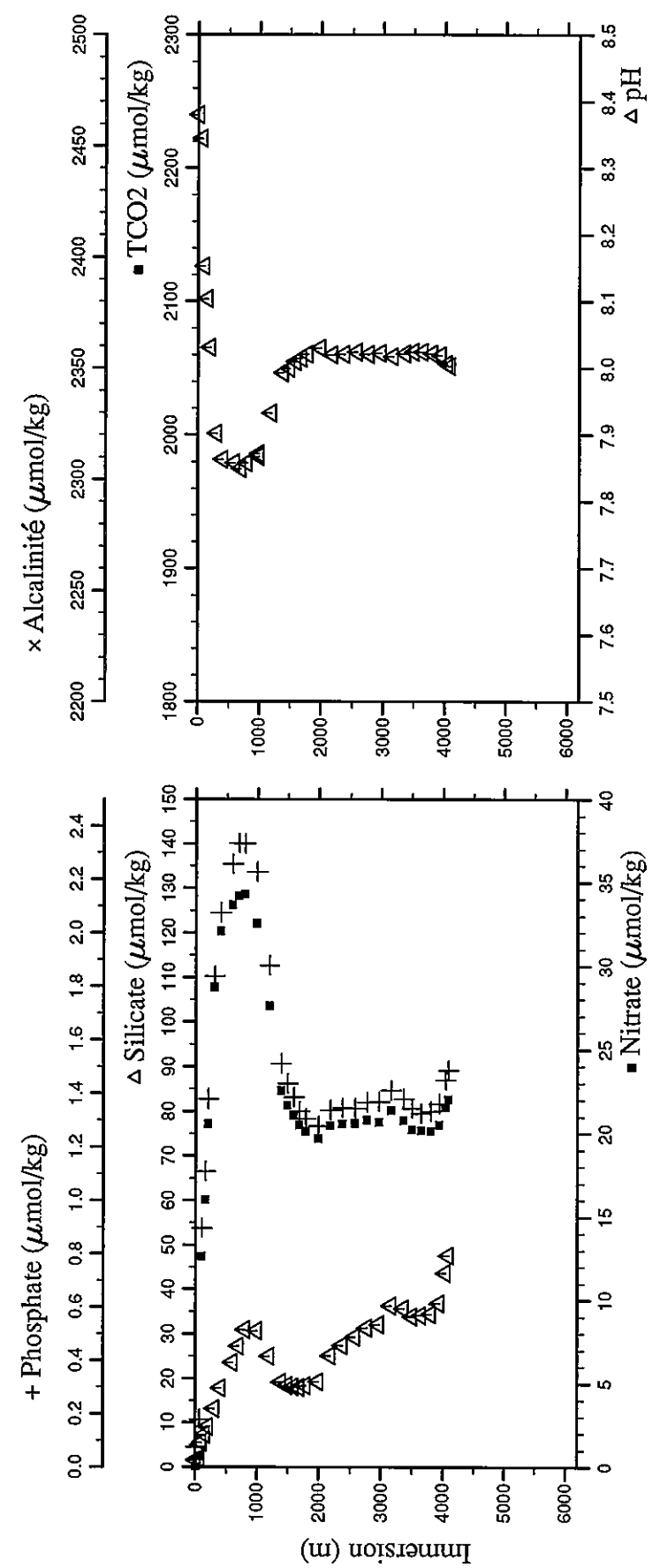
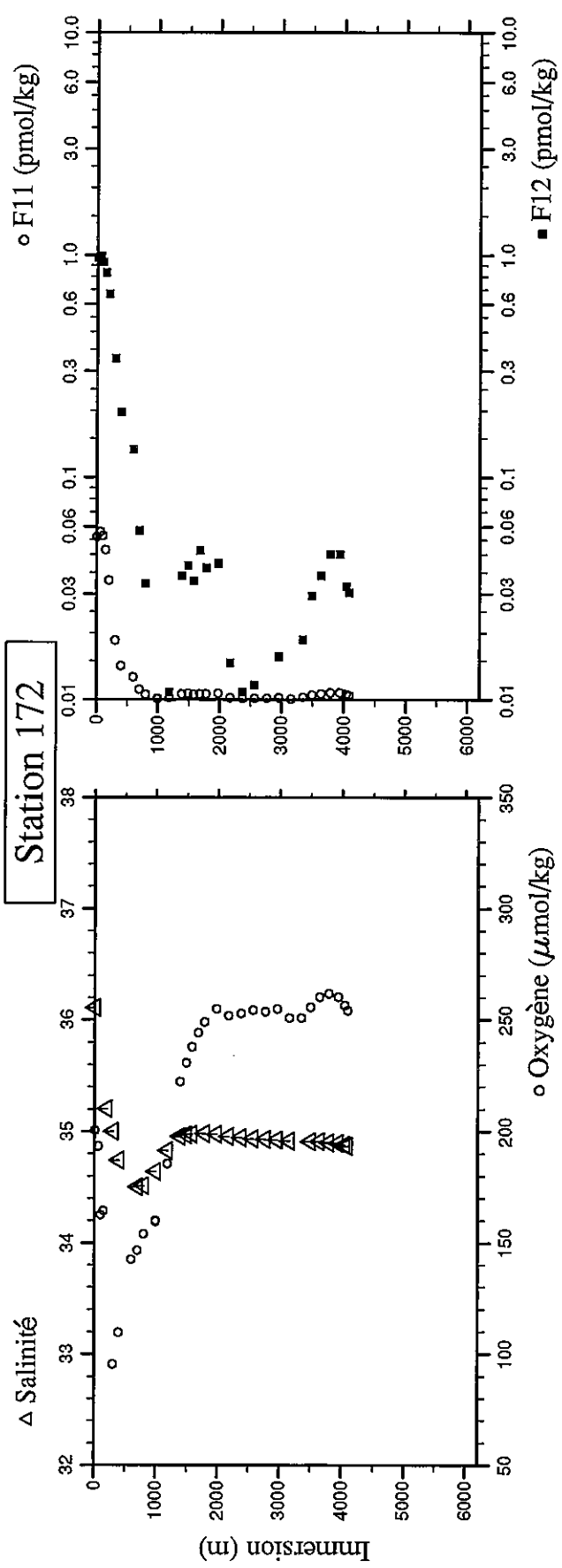




Station : 172 Campagne : CIRHER 2  
 Date : 04-03-94 Heure : 22 h 35 mn  
 Position : S 0 30.03 W 30 51.60  
 Dernier niveau à : 4150  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NIITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
6.0	6.0	27.233	23.5046	36.112	200.5	0.04	0.074	1.6	1.7102	0.9778			8.380
60.0	59.7	25.102	24.6062	36.395	193.5	0.65	0.178	2.0	1.7617	0.9874			8.345
100.4	99.8	16.116	26.7089	35.689	162.6	12.65	0.898	5.5	1.7226	0.9224			8.153
149.4	148.5	13.566	27.2117	35.343	164.3	16.03	1.108	7.3	1.5758	0.8308			8.104
201.7	200.5	12.491	27.5501	35.205	139.1	20.59	1.380	9.1	1.2535	0.6657			8.031
301.7	299.8	10.623	28.1963	35.003	95.6	28.75	1.838	13.1	0.6221	0.3412			7.902
400.9	398.3	8.276	28.8474	34.745	109.7	32.09	2.074	17.8	0.3585	0.1956			7.863
601.4	597.2	5.937	29.9437	34.547	142.6	33.67	2.258	23.6	0.2366	0.1330			7.858
701.4	696.4	5.232	30.4689	34.502	146.6	34.21	2.335	27.3	0.1083	0.0577			7.850
801.0	795.1	4.666	31.0086	34.515	154.1	34.32	2.333	30.9	0.0559	0.0333			7.858
1001.4	993.5	4.404	32.0522	34.640	160.1	32.53	2.228	30.7	0.0106	0.0059			7.868
1001.7	993.8	4.404	32.0524	34.640	159.6	32.57	2.228	30.7	0.0111	0.0049			7.872
1198.5	1188.5	4.415	33.0924	34.830	185.4	27.62	1.878	25.0	0.0180	0.0108			7.933
1399.7	1387.3	4.249	34.1220	34.956	222.3	22.56	1.511	19.1	0.0595	0.0362			7.993
1499.8	1486.2	4.135	34.5987	34.971	230.7	21.69	1.437	18.4	0.0647	0.0401			8.000
1600.3	1585.4	3.981	35.0778	34.977	237.8	21.09	1.387	18.1	0.0552	0.0342			8.010
1699.9	1683.7	3.861	35.5447	34.970	244.3	20.52	1.333	18.0	0.0616	0.0469			8.015
1801.0	1783.4	3.713	36.0197	34.982	249.0	20.14	1.306	18.3	0.0628	0.0391			8.021
2000.5	1980.0	3.454	36.9453	34.978	254.9	19.69	1.279	19.2	0.0686	0.0411			8.030
2198.7	2175.2	3.077	37.8668	34.955	251.9	20.49	1.337	25.1	0.0174	0.0147			8.020
2401.2	2374.4	2.850	38.7943	34.947	253.0	20.59	1.346	27.4	0.0146	0.0108			8.021
2601.3	2571.1	2.702	39.6973	34.938	254.4	20.61	1.345	29.3	0.0150	0.0117			8.024
2799.8	2766.0	2.565	40.5868	34.932	253.6	20.80	1.367	31.3	0.0155	0.0098			8.021
2998.0	2960.5	2.483	41.4674	34.928	255.0	20.69	1.369	32.1	0.0178	0.0156			8.023
3199.5	3158.0	2.362	42.3596	34.915	250.9	21.38	1.411	36.3	0.0097	0.0068			8.018
3398.0	3352.4	2.212	43.2451	34.915	250.9	20.78	1.381	35.6	0.0270	0.0186			8.022
3548.0	3499.2	2.138	43.9099	34.910	255.6	20.25	1.344	33.8	0.0498	0.0293			8.024
3697.6	3645.5	2.071	44.5660	34.910	260.3	20.17	1.326	34.1	0.0589	0.0362			8.024
3850.9	3795.3	2.017	45.2338	34.901	261.9	20.14	1.334	34.4	0.0751	0.0450			8.022
3999.9	3940.8	1.945	45.8826	34.896	260.2	20.52	1.362	36.8	0.0702	0.0450			8.019
4098.6	4037.1	1.816	46.3183	34.880	256.5	21.56	1.449	43.7	0.0542	0.0323			8.007
4148.6	4085.9	1.740	46.5402	34.871	254.2	22.02	1.487	47.6	0.0434	0.0303			8.003

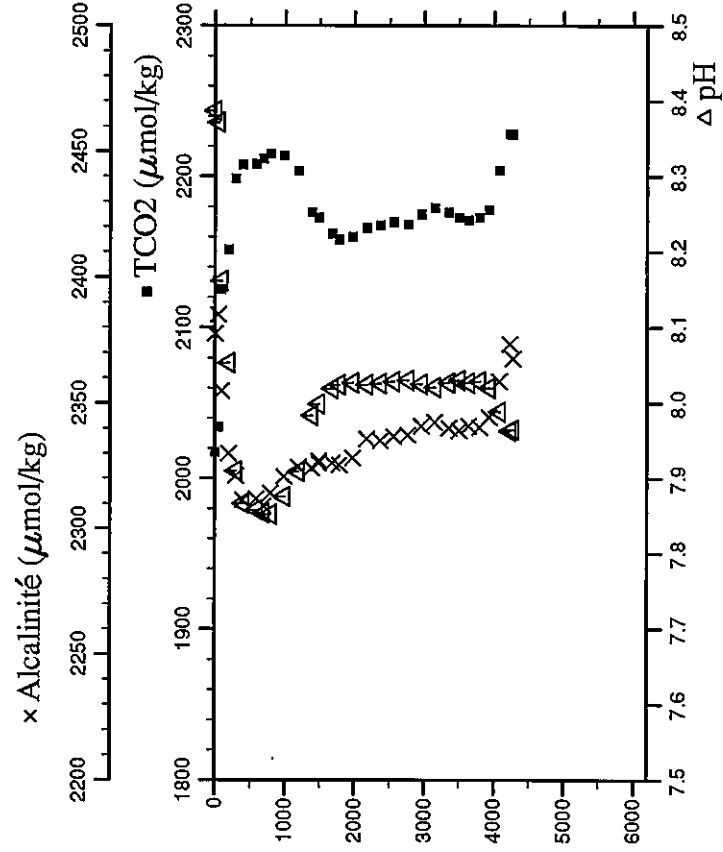
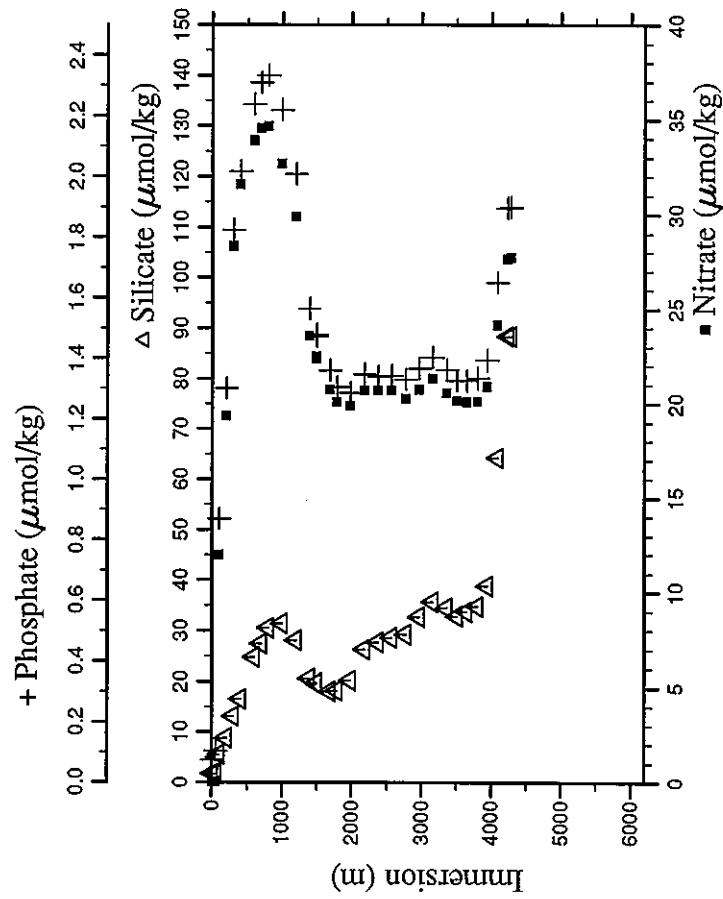
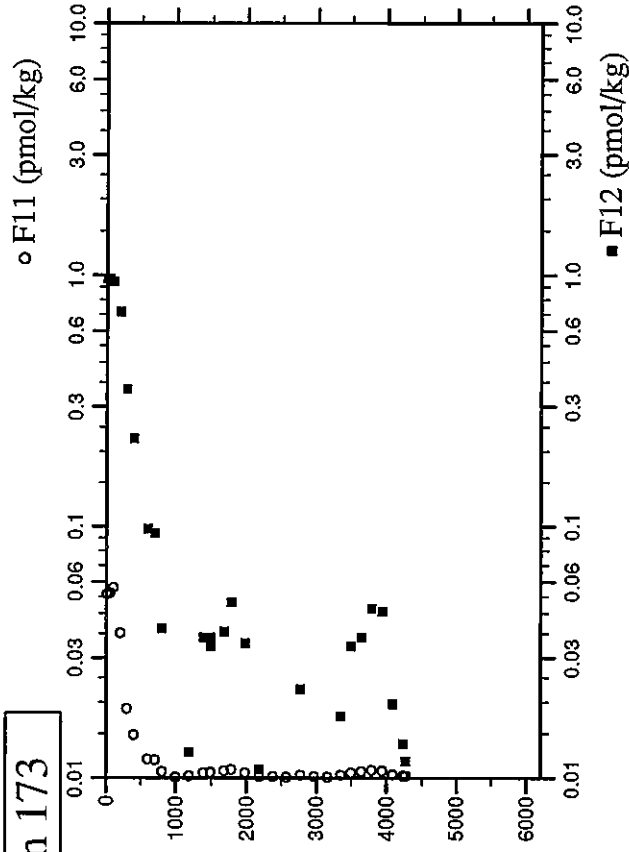
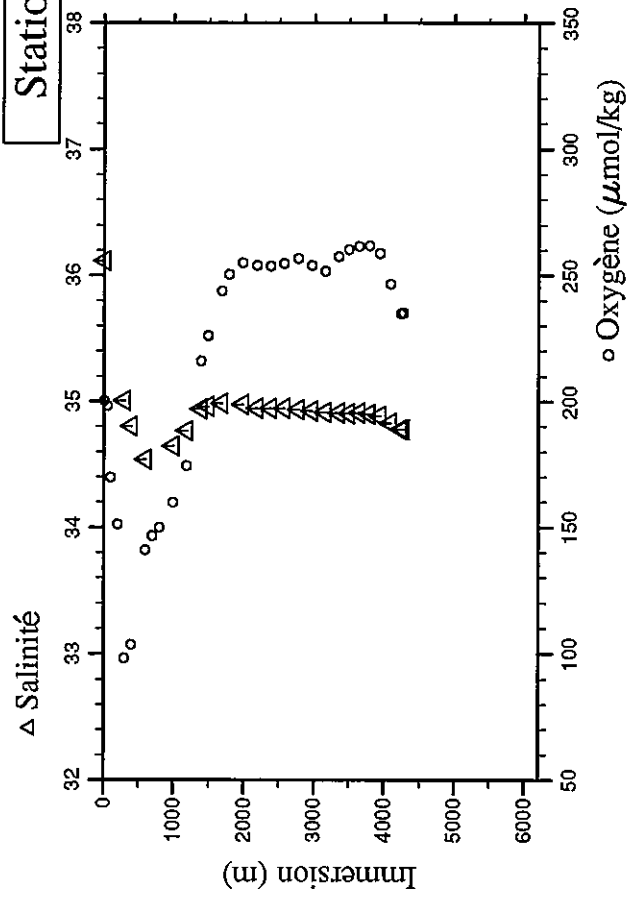
Station 172



Station : 173 Campagne : CITHER 2  
 Date : 05-03-94 Heure : 4 h 7 mn  
 Position : S 0 15.00 W 31 17.49  
 Dernier niveau à : 4343  
 Nb prélèvements : 32

PRESSON CHIMIE	IMMERSSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
6.0	6.0	27.220	23.5132	36.118	200.2	0.04	0.074	1.7	1.7025	0.9690	2017.70	2377.4	8.387
52.5	52.2	26.325	24.0999	36.247	198.3	0.04	0.104	1.7	1.7142	0.9650	2034.01	2385.0	8.372
99.6	99.0	15.828	26.7360	35.657	169.8	11.99	0.869	5.5	1.7656	0.9390	2125.18	2354.7	8.162
201.7	200.5	12.404	27.5723	35.195	151.2	19.37	1.302	8.8	1.3452	0.7136	2151.60	2329.9	8.053
299.0	297.1	10.639	28.1829	35.006	98.4	28.35	1.826	13.2	0.6442	0.3529	2198.57	2321.0	7.910
400.7	398.1	8.825	28.8015	34.806	103.6	31.60	2.018	16.6	0.3981	0.2249	2207.86	2311.3	7.867
601.8	597.6	5.928	29.9521	34.541	141.0	33.89	2.238	24.8	0.1717	0.0978	2208.19	2311.7	7.858
700.9	695.9	5.317	30.4577	34.513	146.6	34.53	2.310	27.5	0.1668	0.0939	2211.61	2309.1	7.854
800.6	794.7	4.867	30.9761	34.503	149.8	34.63	2.334	30.6	0.0630	0.0391	2215.06	2314.0	7.852
1000.7	992.8	4.416	32.0516	34.645	159.7	32.68	2.220	31.5	0.0072	0.0068	2213.66	2320.7	7.876
1200.2	1190.2	4.436	33.0485	34.769	174.3	29.90	2.009	28.1	0.0188	0.0127	2203.67	2324.6	7.909
1400.8	1388.4	4.320	34.1038	34.941	216.1	23.60	1.565	20.7	0.0505	0.0362	2176.21	2324.1	7.984
1499.5	1485.9	4.179	34.5834	34.963	226.0	22.50	1.473	19.6	0.0536	0.0362	2172.69	2326.0	7.999
1499.7	1486.1	4.179	34.5842	34.963	226.3	22.38	1.479	19.7	0.0520	0.0332	2172.69	2327.0	7.999
1698.7	1682.5	3.888	35.5338	34.985	243.6	20.74	1.362	18.1	0.0649	0.0381	2161.87	2326.1	8.019
1800.1	1782.5	3.709	36.0171	34.971	250.3	20.10	1.305	18.2	0.0803	0.0499	2158.24	2325.4	8.027
1999.7	1979.3	3.393	36.9487	34.975	254.9	19.91	1.286	20.2	0.0523	0.0342	2159.70	2328.0	8.027
2200.6	2177.1	3.008	37.8842	34.947	253.9	20.72	1.349	26.4	0.0163	0.0108	2165.98	2335.6	8.024
2399.8	2373.0	2.844	38.7880	34.946	253.6	20.72	1.339	27.7	0.0145	0.0098	2167.38	2334.9	8.026
2599.0	2568.8	2.728	39.6829	34.944	254.6	20.72	1.344	28.7	0.0103	0.0088	2169.56	2336.6	8.029
2801.1	2767.3	2.569	40.5946	34.934	256.7	20.27	1.332	29.3	0.0265	0.0225	2168.14	2337.3	8.030
3000.0	2962.4	2.462	41.4776	34.926	254.0	20.73	1.367	32.7	0.0156	0.0098	2174.75	2340.7	8.025
3198.1	3156.6	2.361	42.3550	34.915	251.7	21.35	1.404	35.7	0.0103	0.0068	2179.04	2342.2	8.021
3399.0	3353.4	2.218	43.2505	34.910	257.5	20.58	1.363	34.5	0.0270	0.0176	2175.92	2339.9	8.027
3548.2	3499.4	2.135	43.9109	34.906	260.3	20.16	1.328	32.9	0.0510	0.0332	2172.78	2338.9	8.030
3698.6	3646.4	2.065	44.5703	34.908	261.5	20.09	1.328	33.7	0.0604	0.0362	2171.00	2340.8	8.027
3849.8	3794.2	2.013	45.2297	34.900	261.9	20.13	1.336	34.7	0.0713	0.0469	2172.48	2340.3	8.029
3998.1	3939.0	1.882	45.8807	34.886	258.7	20.90	1.395	38.8	0.0698	0.0460	2177.74	2344.3	8.020
4148.7	4086.0	1.402	46.5755	34.829	246.4	24.17	1.651	64.2	0.0311	0.0196	2204.12	2358.7	7.989
4299.3	4232.9	0.920	47.2681	34.779	234.9	27.67	1.896	88.4	0.0318	0.0137	2228.18	2373.3	7.963
4342.3	4274.8	0.916	47.4540	34.778	235.1	27.72	1.899	88.4	0.0179	0.0117	2227.57	2367.5	7.965

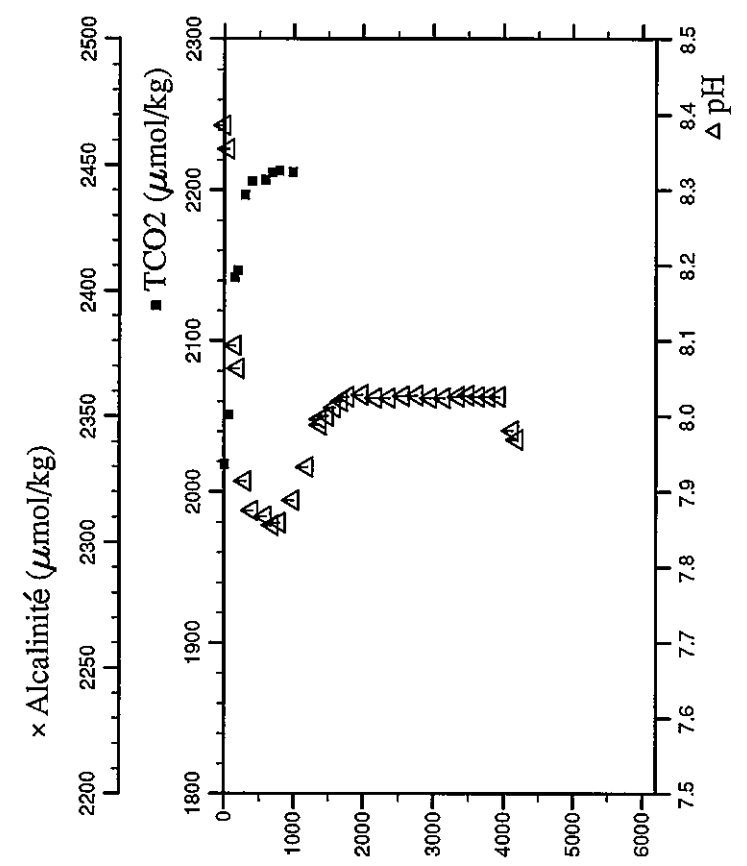
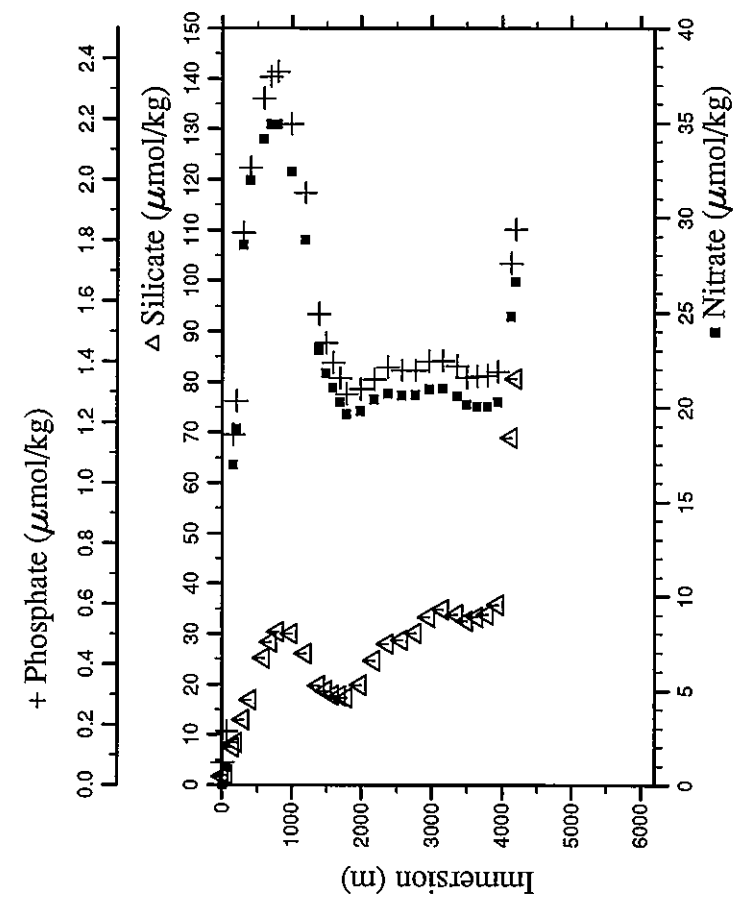
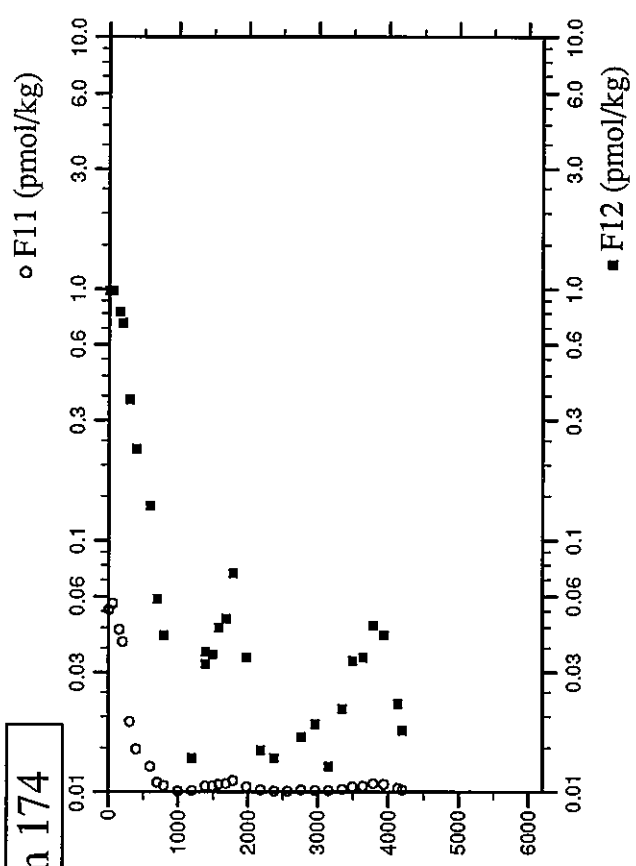
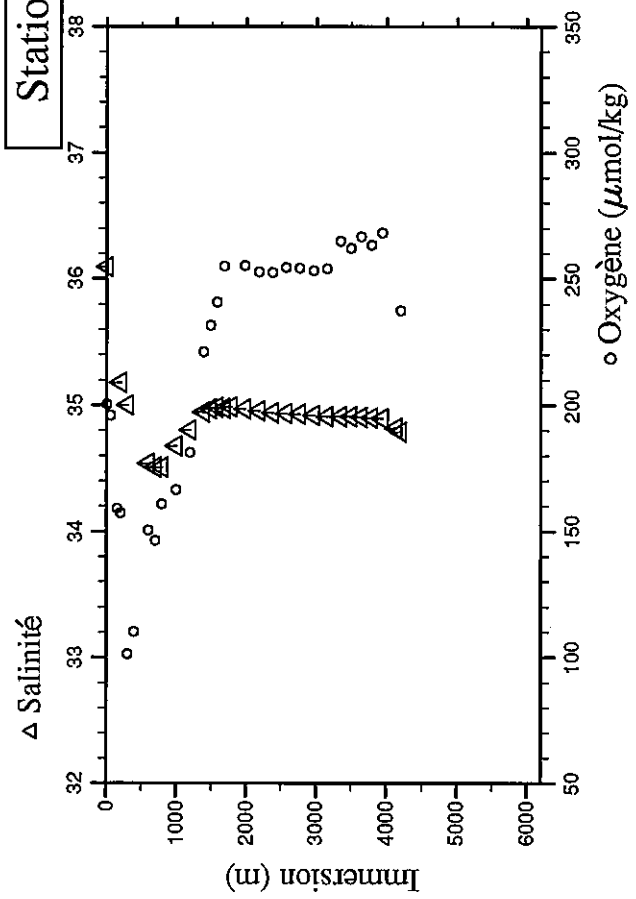
# Station 173



Station : 174 Campagne : CITHER 2  
 Date : 05-03-94 Heure : 9 h 39 mn  
 Position : N 0 0.06 W 31 43.23  
 Dernier niveau à : 4262  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
6.2	6.2	27.303	23.4715	36.095	200.2	0.04	0.074	1.7	1.6923	0.9886	2018.34		8.386
60.4	60.1	25.325	24.4684	36.291	195.9	0.96	0.178	2.0	1.7536	0.9787	2051.20		8.355
151.2	150.3	13.411	27.2363	35.338	159.0	16.95	1.160	7.6	1.5075	0.8083	2141.95		8.094
199.7	198.5	12.392	27.5430	35.182	157.2	18.84	1.269	8.5	1.3952	0.7321	2146.75		8.063
299.4	297.5	10.615	28.1873	35.002	101.4	28.53	1.825	13.0	0.6532	0.3627	2196.67		7.914
400.5	397.9	8.487	28.8337	34.765	110.3	31.98	2.039	17.0	0.3986	0.2308	2205.90		7.875
600.2	596.0	5.810	29.9581	34.537	150.5	34.15	2.268	25.2	0.2412	0.1369	2206.81		7.868
700.0	695.0	5.163	30.4759	34.508	146.4	34.90	2.340	28.4	0.0899	0.0587	2211.50		7.856
799.3	793.4	4.842	30.9717	34.508	160.9	34.91	2.356	30.4	0.0598	0.0421	2212.93		7.859
999.6	991.7	4.436	32.0700	34.679	166.4	32.41	2.184	30.1	0.0089	0.0068	2211.82		7.889
1201.5	1191.5	4.441	33.0837	34.805	181.2	28.82	1.957	26.1	0.0166	0.0137			7.933
1400.7	1388.1	4.288	34.1133	34.947	221.2	23.07	1.559	19.8	0.0569	0.0362			7.996
1499.5	1485.9	4.117	34.5984	34.969	231.5	21.81	1.462	18.7	0.0552	0.0352			7.989
1599.8	1584.9	3.993	35.0761	34.980	240.7	21.00	1.397	17.9	0.0705	0.0450			8.001
1701.3	1685.1	3.824	35.5578	34.977	254.9	20.27	1.346	17.7	0.0764	0.0489			8.012
1800.6	1783.0	3.670	36.0275	34.987		19.62	1.293	17.4	0.1096	0.0743			8.020
2000.3	1979.8	3.374	36.9520	34.974	255.1	19.78	1.311	19.9	0.0504	0.0342			8.026
2199.5	2176.0	3.080	37.8709	34.954	252.5	20.40	1.343	24.7	0.0196	0.0147			8.029
2399.7	2372.9	2.835	38.7870	34.942	252.3	20.72	1.382	28.0	0.0090	0.0137			8.024
2599.3	2569.1	2.713	39.6859	34.937	254.3	20.61	1.372	28.8	0.0104	0.0088			8.027
2798.0	2764.2	2.575	40.5771	34.932	254.1	20.65	1.371	30.2	0.0212	0.0166			8.027
2999.8	2962.2	2.432	41.4793	34.920	253.2	20.96	1.401	33.3	0.0109	0.0186			8.024
3198.3	3156.8	2.290	42.3653	34.912	254.0	20.97	1.403	34.9	0.0151	0.0127			8.024
3398.3	3352.7	2.219	43.2449	34.911	264.9	20.58	1.386	33.8	0.0269	0.0215			8.028
3546.7	3497.9	2.154	43.9009	34.908	262.0	20.13	1.348	32.6	0.0510	0.0332			8.026
3697.3	3645.2	2.068	44.5649	34.903	266.6	20.05	1.353	33.4	0.0551	0.0342			8.026
3846.3	3790.8	1.987	45.2174	34.899	263.4	20.02	1.355	33.9	0.0812	0.0460			8.026
3997.1	3938.1	1.947	45.8713	34.895	268.1	20.26	1.368	35.8	0.0755	0.0420			8.026
4196.3	4132.4	1.262	46.7914	34.817	268.1	24.77	1.723	68.9	0.0364	0.0225			7.981
4262.2	4196.7	1.031	47.0982	34.790	237.4	26.61	1.835	80.6	0.0224	0.0176			7.969

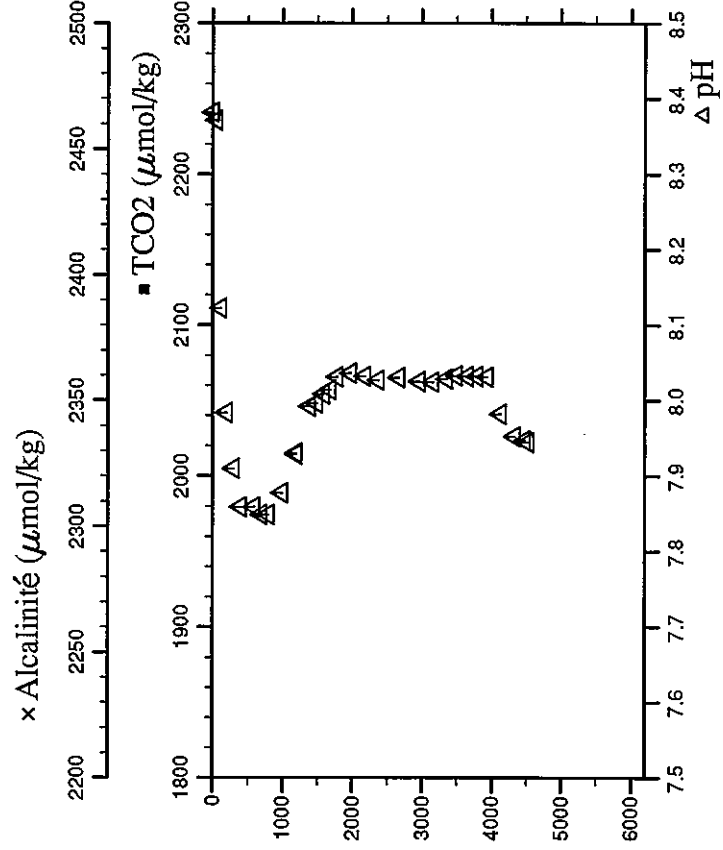
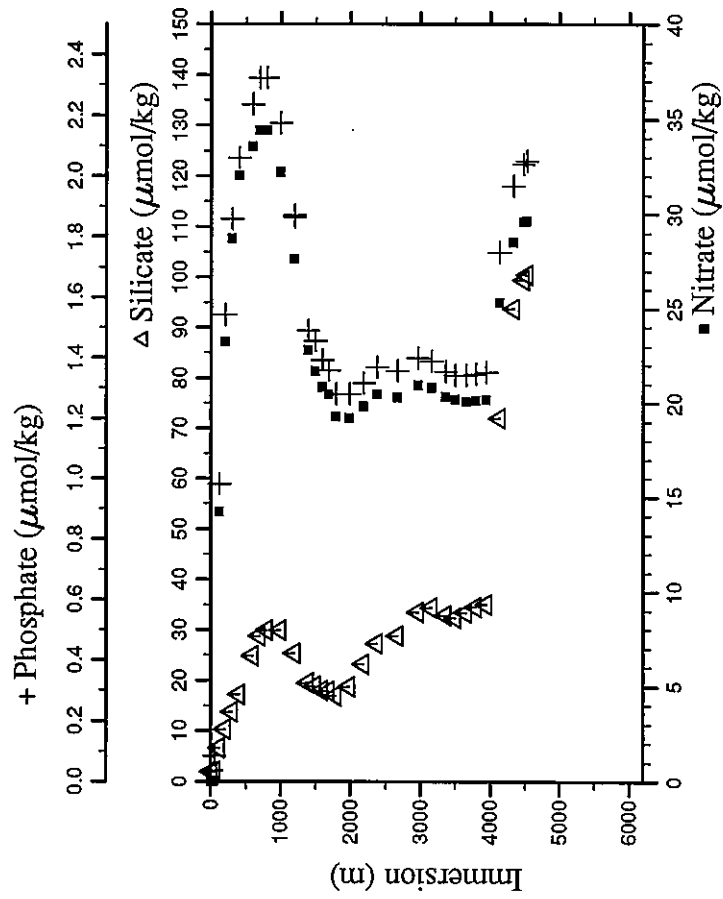
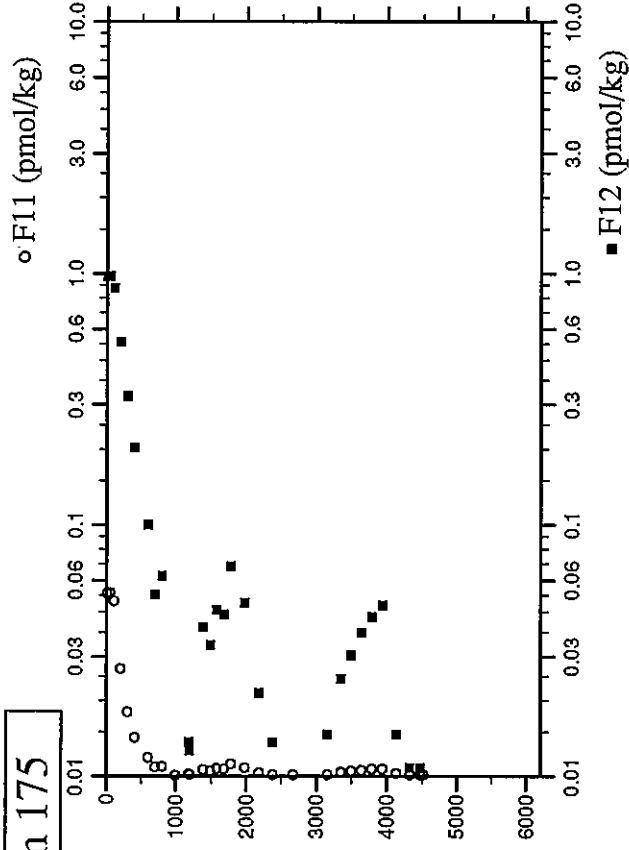
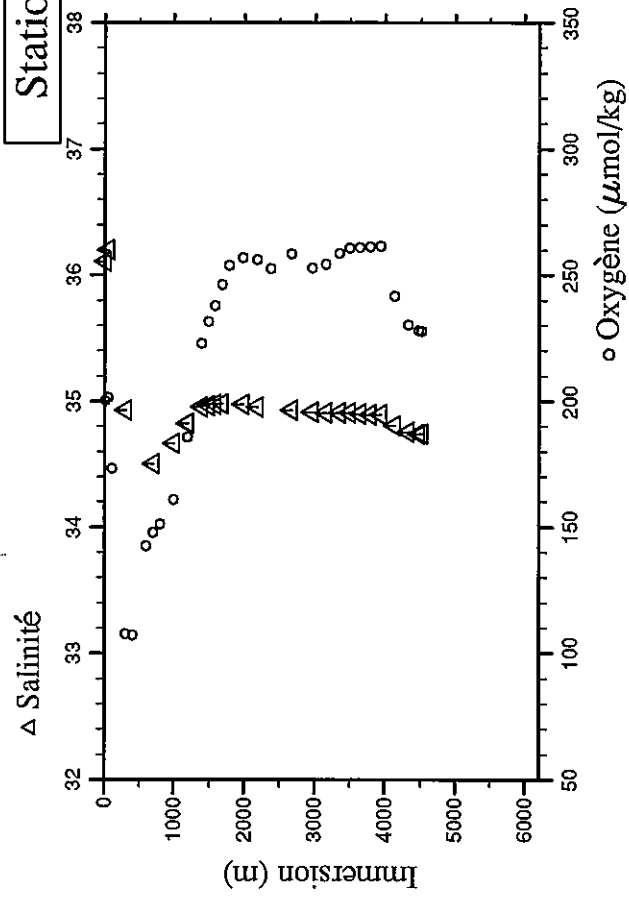
# Station 174



Station : 175 Campagne : CITHRER 2  
 Date : 05-03-94 Heure : 15 h 33 mn  
 Position : N 0 14.96 W 32 9.02  
 Dernier niveau à : 4608  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI-NITE	pH
dbar	metres	deg. cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
6.2	6.2	27.462	23.4352	36.112	200.3	0.00	0.037	1.9	1.6970	0.9778			8.382
51.7	51.4	26.697	23.9366	36.201	201.5	0.04	0.085	1.9	1.7065	0.9758			8.372
110.9	110.3	14.564	26.9360	35.485	r	14.25	0.982	6.6	1.6299	0.8727			8.123
200.8	199.6	11.891	27.6183	35.139	r	23.24	1.544	10.4	1.0003	0.5337			7.984
302.4	300.5	10.071	28.2482	34.933	107.7	28.71	1.858	13.8	0.3246	0.3246			7.910
401.1	399.6	8.383	28.8427	34.765	107.1	32.04	2.060	17.2	0.3593	0.2034			7.859
502.2	596.9	5.831	29.9731	34.537	142.6	33.57	2.237	24.8	0.1724	0.0998			7.859
702.6	697.6	5.074	30.5020	34.506	147.9	34.41	2.323	28.8	0.0853	0.0528			7.849
801.4	795.5	4.888	30.9751	34.502	151.2	34.40	2.323	29.9	0.0626	0.0626			7.849
999.5	991.6	4.466	32.0557	34.665	160.8	32.20	2.175	29.9	0.0102	0.0020			7.878
1200.5	1190.5	4.430	33.0982	34.826	185.7	27.61	1.872	25.3	0.0183	0.0137			7.929
1400.7	1190.7	4.432	33.0980	34.830	185.7	27.62	1.866	25.3	0.0158	0.0127			7.930
1500.9	1388.3	4.264	34.1245	34.954	223.0	22.80	1.490	19.5	0.0604	0.0391			7.992
1599.5	1487.3	4.130	34.6017	34.965	231.5	21.68	1.457	18.8	0.0519	0.0332			7.996
1699.5	1584.6	4.025	35.0686	34.977	237.9	20.85	1.393	18.0	0.0715	0.0459			8.008
1699.5	1683.3	3.906	35.5362	34.981	246.3	20.46	1.358	17.8	0.0678	0.0440			8.014
1800.8	1783.2	3.696	36.0252	34.979	253.9	19.29	1.281	17.0	0.1160	0.0684			8.031
1998.8	1978.4	3.407	36.9452	34.978	257.0	19.21	1.280	18.7	0.0810	0.0489			8.036
2200.7	2177.2	3.041	37.8859	34.956	256.3	20.48	1.316	23.2	0.0328	0.0215			8.032
2400.0	2373.2	2.867	38.7859	34.939	252.5	20.48	1.369	27.3	0.0130	0.0137			8.027
2699.0	2667.1	2.636	40.1358	34.933	258.6	20.32	1.356	28.8	0.0131	0.0098			8.030
2999.3	2961.7	2.415	41.4791	34.918	252.8	20.94	1.400	33.5					8.025
3198.1	3156.6	2.281	42.3650	34.909	254.3	20.82	1.388	34.4	0.0117	0.0147			8.024
3399.7	3354.0	2.182	43.2592	34.908	258.7	20.35	1.354	32.8	0.0354	0.0244			8.029
3547.4	3498.6	2.154	43.9047	34.908	260.8	20.19	1.343	32.3	0.0483	0.0303			8.033
3699.3	3647.1	2.055	44.5747	34.902	261.0	20.07	1.342	33.3	0.0544	0.0372			8.032
3848.1	3792.5	1.985	45.2257	34.896	261.3	20.14	1.347	34.5	0.0665	0.0430			8.032
3999.1	3940.0	1.959	45.8794	34.895	261.6	20.18	1.353	35.0	0.0698	0.0479			8.031
4198.4	4134.5	1.196	46.8073	34.808	241.8	25.31	1.748	72.0	0.0277	0.0147			7.982
4398.4	4329.5	0.746	47.7101	34.757	230.3	28.52	1.968	93.8	0.0150	0.0108			7.952
4549.8	4477.0	0.607	48.3730	34.742	228.0	29.60	2.038	99.4	0.0147	0.0108			7.947
4597.9	4523.8	0.585	48.5805	34.742	227.7	29.64	2.050	100.5	0.0146	0.0088			7.945

# Station 175

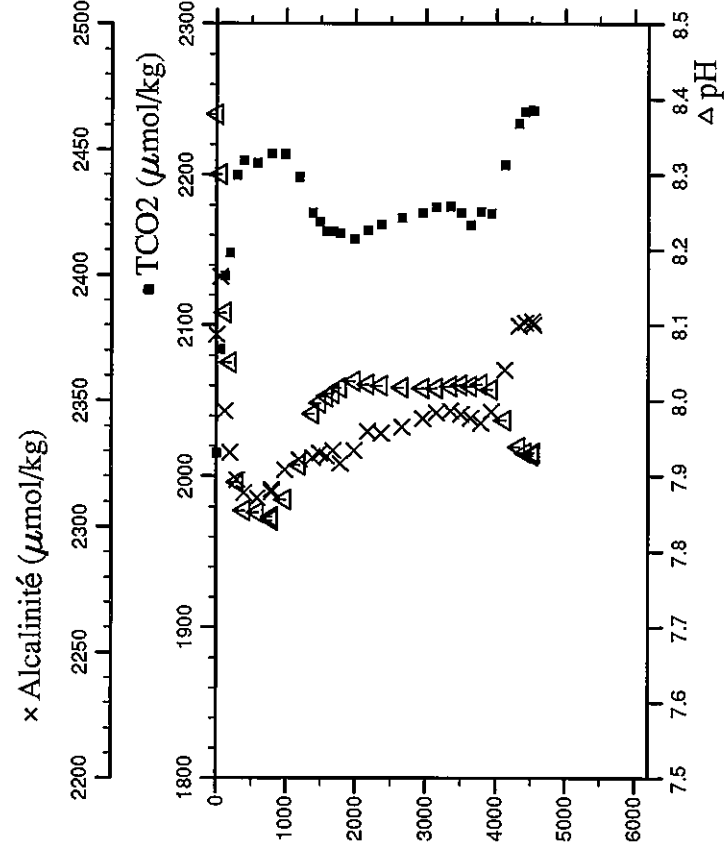
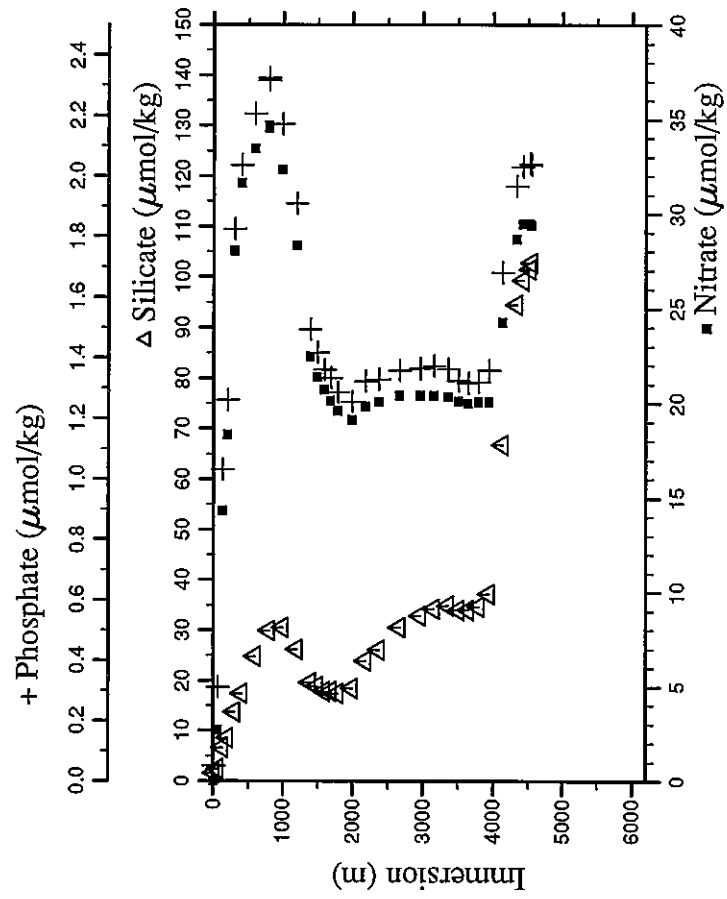
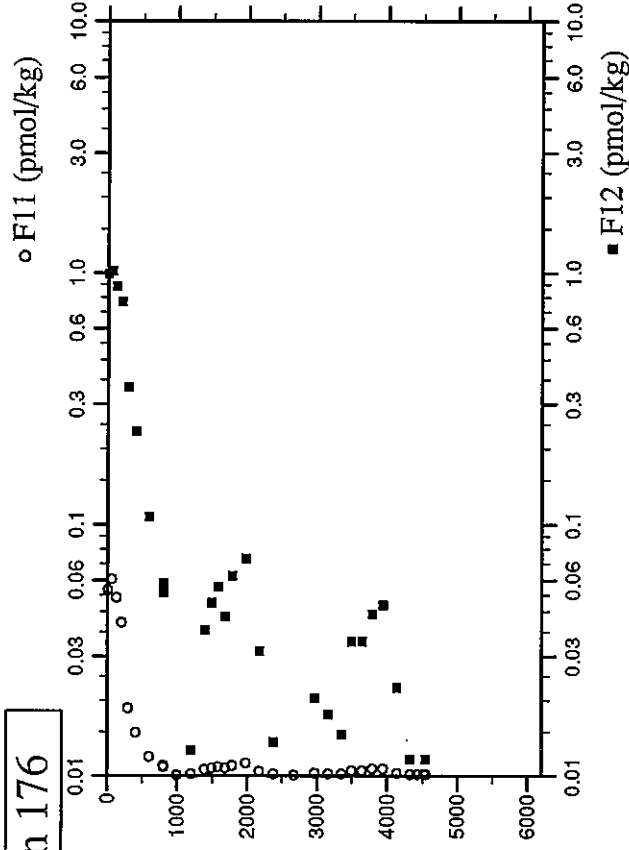
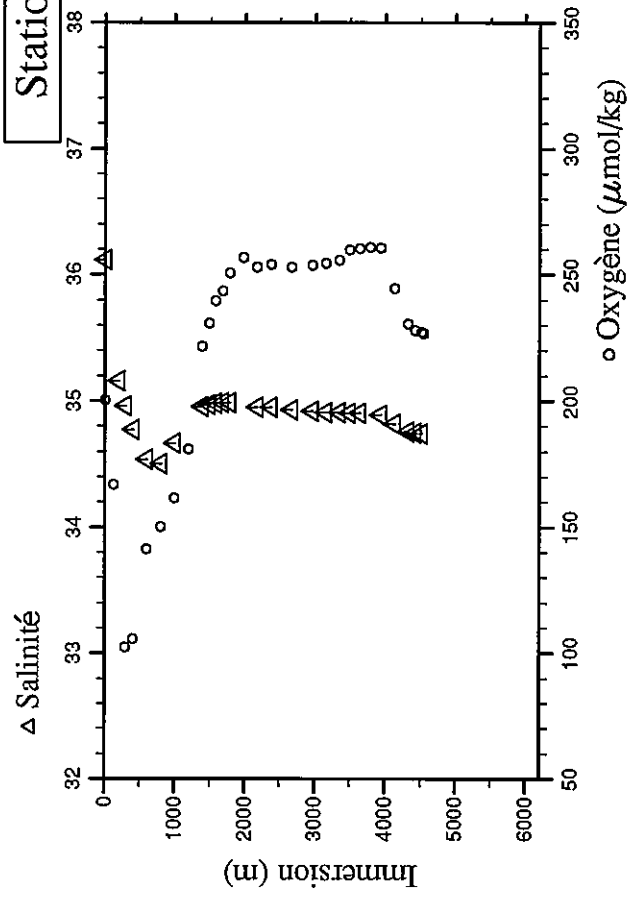




Station : 176 Campagne : CITHRER 2  
 Date : 05-03-94 Heure : 21 h 18 mn  
 Position : N 0 29.98 W 32 34.89  
 Dernier niveau à : 4621  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
6.8	6.8	27.204	23.5208	36.115	200.3	0.00	0.051	1.6	1.7254	0.9895	2015.38	2376.2	8.380
59.5	59.2	22.734	25.4005	36.424	187.2	2.70	0.313	2.5	1.8294	1.0137	2084.26	2399.2	8.301
126.2	125.5	14.475	27.0167	35.479	166.9	14.35	1.032	6.6	1.6568	0.8844	2132.81	2346.0	8.117
201.0	199.8	12.241	27.5636	35.161	160.8	18.34	1.261	8.6	1.4265	0.7654	2147.95	2329.3	8.051
298.4	296.5	10.279	28.2125	34.962	102.4	28.03	1.826	13.8	0.6290	0.3500	2199.57	2318.5	7.892
401.7	399.1	8.440	28.8412	34.771	105.6	31.64	2.037	17.5	0.4043	0.2337	2209.28	2313.4	7.855
600.8	596.6	5.930	29.9469	34.541	141.3	33.45	2.207	24.8	0.1792	0.1076	2207.60	2311.4	7.852
800.6	794.7	4.928	30.9620	34.502	150.2	34.54	2.317	29.9	0.0950	0.0587	2214.02	2313.6	7.846
801.2	795.3	4.928	30.9645	34.504	150.1	34.69	2.324	29.9	0.0874	0.0538	2314.7	2314.7	7.842
1000.9	993.0	4.450	32.0649	34.666	161.6	32.34	2.172	30.6	0.0073	0.0088	2213.80	2322.4	7.869
1201.1	1191.1	4.453	33.0905	34.811	181.0	28.29	1.909	26.2	0.0188	0.0127	2198.56	2326.6	7.915
1401.3	1388.9	4.269	34.1249	34.958	221.6	22.49	1.494	19.6	0.0639	0.0381	2174.67	2327.4	7.983
1499.7	1486.1	4.144	34.5988	34.971	230.8	21.40	1.418	18.8	0.0710	0.0489	2168.99	2329.1	7.997
1600.6	1585.7	4.012	35.0766	34.981	239.7	20.70	1.362	17.9	0.0868	0.0567	2162.32	2327.9	8.006
1700.0	1683.8	3.897	35.5414	34.985	243.5	20.15	1.333	17.9	0.0723	0.0430	2162.44	2330.2	8.010
1798.6	1781.0	3.742	36.0074	34.986	250.5	19.60	1.286	17.5	0.0978	0.0626	2161.01	2325.0	8.018
2001.6	1981.1	3.447	36.9529	34.965	256.6	19.13	1.255	18.5	0.1205	0.0733	2157.34	2330.2	8.026
2198.3	2174.8	3.108	37.8619	34.953	253.0	19.84	1.322	24.0	0.0415	0.0313	2163.27	2337.8	8.022
2400.4	2373.6	2.912	38.7835	34.949	253.9	20.08	1.329	26.1	0.0190	0.0137	2167.25	2336.9	8.020
2700.0	2668.0	2.628	40.1394	34.930	252.8	20.39	1.358	30.6	0.0075	0.0039	2171.17	2339.6	8.018
3000.0	2962.4	2.451	41.4782	34.922	253.7	20.39	1.365	32.8	0.0241	0.0205	2174.73	2342.9	8.017
3198.5	3157.0	2.310	42.3641	34.913	254.3	20.39	1.373	34.3	0.0210	0.0176	2178.57	2345.2	8.017
3399.2	3353.5	2.227	43.2471	34.911	255.6	20.35	1.363	34.9	0.0201	0.0147	2178.91	2345.8	8.019
3549.4	3500.5	2.142	43.9134	34.905	259.7	20.09	1.325	34.0	0.0498	0.0342	2174.64	2344.5	8.021
3698.8	3646.6	2.085	44.5671	34.904	260.3	19.99	1.316	34.0	0.0466	0.0342	2166.47	2343.1	8.019
3848.5	3792.9	2.010	45.2237	34.876	260.7	20.06	1.321	34.6	0.0678	0.0440	2175.52	2341.1	8.022
3999.1	3940.0	1.936	45.8800	34.891	260.5	20.08	1.358	37.2	0.0655	0.0479	2174.18	2345.6	8.015
4197.7	4133.8	1.299	46.7948	34.820	244.5	24.28	1.680	66.8	0.0225	0.0225	2206.34	2362.1	7.974
4397.2	4328.3	0.750	47.7051	34.757	230.4	28.63	1.968	94.5	0.0136	0.0117	2233.91	2379.6	7.939
4495.2	4423.8	0.635	48.1353	34.746	227.9	29.45	2.031	99.3	0.0114	0.0068	2241.65	2381.0	7.931
4597.6	4523.5	0.592	48.5770	34.742	227.2	29.45	2.042	101.5	0.0137	0.0078	2243.00	2381.5	7.928
4621.9	4547.2	0.582	48.6817	34.744	226.6	29.40	2.036	102.8	0.0128	0.0117	2242.61	2380.2	7.931

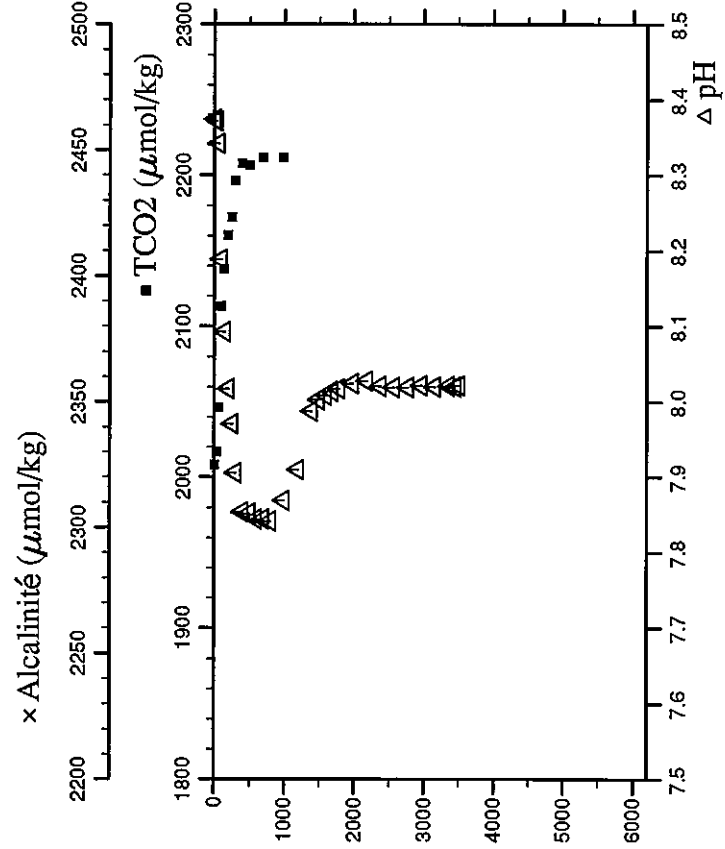
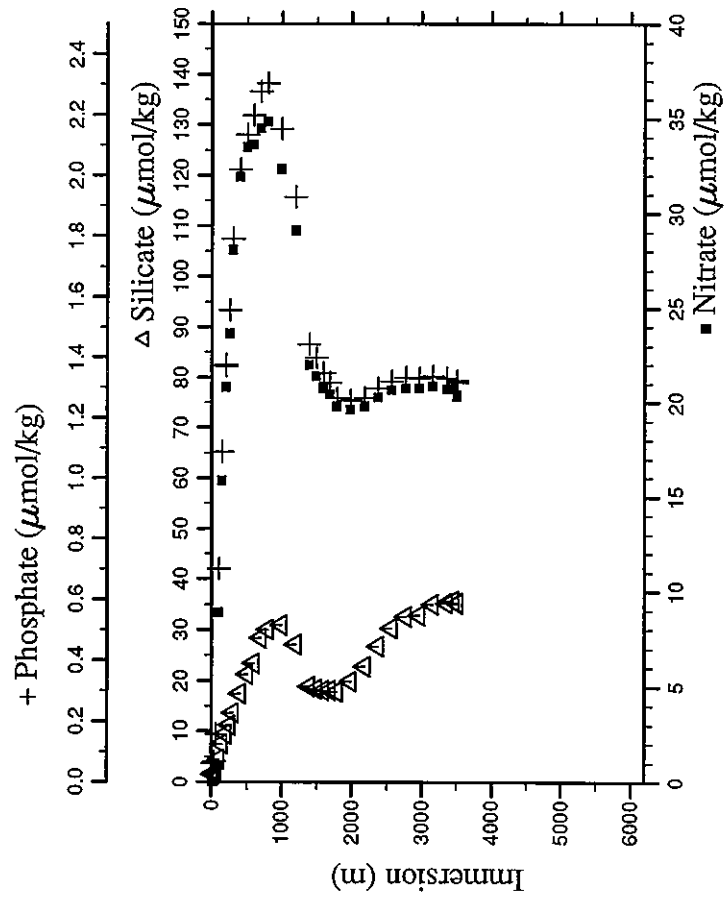
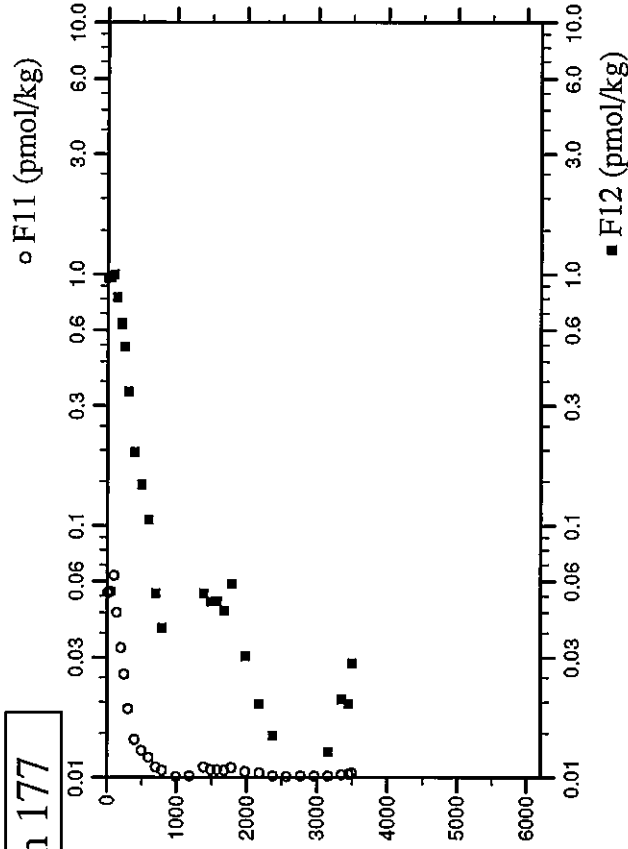
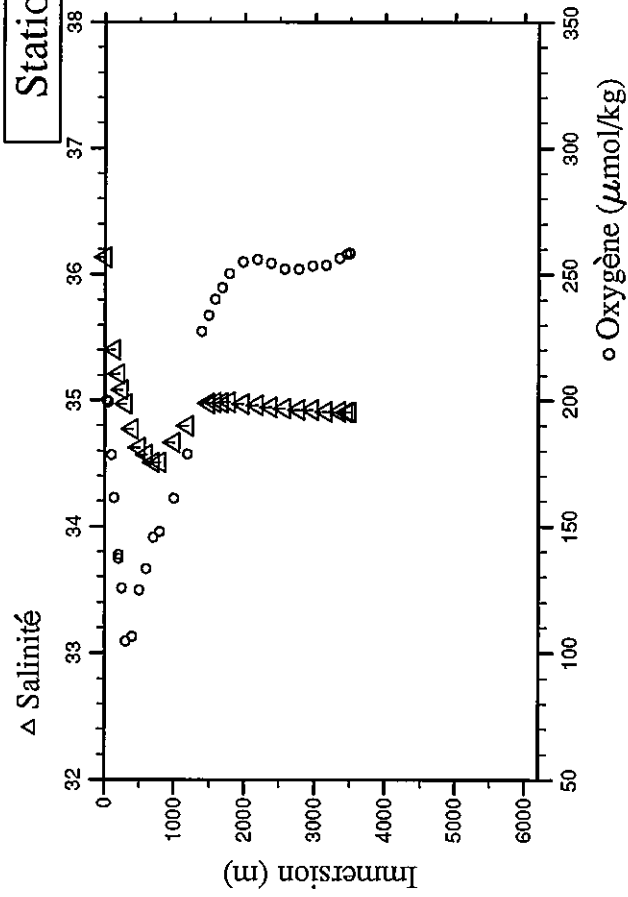
# Station 176



Station : 177 Campagne : CITHER 2  
 Date : 06-03-94 Heure : 3 h 3 mn  
 Position : N 0 44.98 W 33 0.53  
 Dernier niveau à : 3549  
 Nb prélèvements : 32

PRESSON CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.9	4.9	27.008	23.5905	36.134	200.6	0.04	0.062	1.6	1.7087	0.9631	2008.33		8.374
30.3	30.1	26.906	23.7448	36.144	200.1	0.04	0.068	1.6	1.7078	0.9680	2016.69		8.372
57.4	57.1	25.683	24.3679	36.339	199.3	0.67	0.157	1.9	1.7226	0.9698	2046.42		8.342
100.6	100.0	17.282	26.6331	35.856	178.4	8.90	0.700	4.5	1.8691	0.9974	2113.19		8.189
140.5	139.7	13.857	27.1505	35.402	161.3	15.87	1.087	7.5	1.5291	0.8083	2137.79		8.093
199.7	198.5	12.432	27.5569	35.207	137.2	20.81	1.376	9.4	1.2023	0.6393	2160.52		8.018
200.6	199.4	12.425	27.5611	35.210	138.8	20.81	1.371	9.4	1.1990	0.6324	2160.22		8.018
251.0	249.5	11.289	27.9031	35.081	125.6	23.65	1.557	11.2	0.9600	0.5162	2172.18		7.971
299.2	297.3	10.373	28.2079	34.973	104.7	28.07	1.792	13.6	0.6353	0.3412	2196.22		7.906
400.9	398.3	8.463	28.8388	34.771	106.4	31.93	2.020	17.5	0.3507	0.1965	2207.97		7.854
500.5	497.1	7.026	29.3983	34.628	124.8	33.48	2.134	21.3	0.2485	0.1457	2206.61		7.852
600.9	596.7	6.338	29.9095	34.569	133.1	33.64	2.197	23.4	0.1851	0.1056	2197.24 d		7.845
699.8	694.8	5.298	30.4594	34.510	145.6	34.49	2.276	28.4	0.0969	0.0538	2211.49		7.845
799.8	793.9	5.000	30.9513	34.507	147.9	34.80	2.304	30.0	0.0684	0.0391			7.842
999.8	991.9	4.457	32.0591	34.667	161.0	32.34	2.153	30.9	0.0079	0.0059	2211.73		7.869
1200.2	1190.2	4.461	33.0701	34.799	178.7	29.08	1.929	27.1	0.0159	0.0068			7.910
1400.5	1388.1	4.264	34.1346	34.963	227.4	22.00	1.443	18.9	0.0950	0.0538			7.988
1498.9	1485.3	4.131	34.5998	34.976	233.9	21.38	1.399	18.4	0.0743	0.0499			8.003
1599.1	1584.2	3.988	35.0743	34.980	240.1	20.75	1.349	18.1	0.0756	0.0499			8.009
1699.4	1683.2	3.879	35.5399	34.982	244.7	20.44	1.316	18.1	0.0683	0.0459			8.014
1800.6	1783.0	3.763	36.0136	34.986	250.3	19.81	1.266	17.8	0.0895	0.0587			8.018
1999.6	1979.2	3.403	36.9468	34.974	254.9	19.64	1.258	19.9	0.0524	0.0303			8.024
2200.4	2176.9	3.112	37.8740	34.962	255.9	19.81	1.265	22.8	0.0412	0.0196			8.028
2398.9	2372.2	2.864	38.7834	34.946	254.5	20.28	1.298	26.8	0.0126	0.0147			8.021
2598.5	2568.3	2.699	39.6823	34.935	252.0	20.68	1.321	30.3	0.0057	0.0068			8.019
2799.5	2765.7	2.564	40.5837	34.927	252.0	20.76	1.334	32.6	0.0109	0.0078			8.019
2999.3	2961.7	2.485	41.4716	34.924	253.5	20.76	1.331	32.9	0.0110	0.0088			8.022
3199.8	3158.3	2.316	42.3690	34.911	253.7	20.88	1.338	35.0	0.0142	0.0127			8.020
3400.2	3354.5	2.198	43.2575	34.908	256.5	20.72	1.332	35.2	0.0285	0.0205			8.021
3499.9	3452.1	2.171	43.6934	34.906	257.9	20.72	1.332	35.6	0.0302	0.0196			8.020
3548.4	3499.5	2.126	43.9104	34.905	258.3	20.41	1.323	35.2	0.0426	0.0284			8.022
3548.5	3499.6	2.126	43.9108	34.906	258.6	20.29	1.317	35.1	0.0412	0.0284			8.022

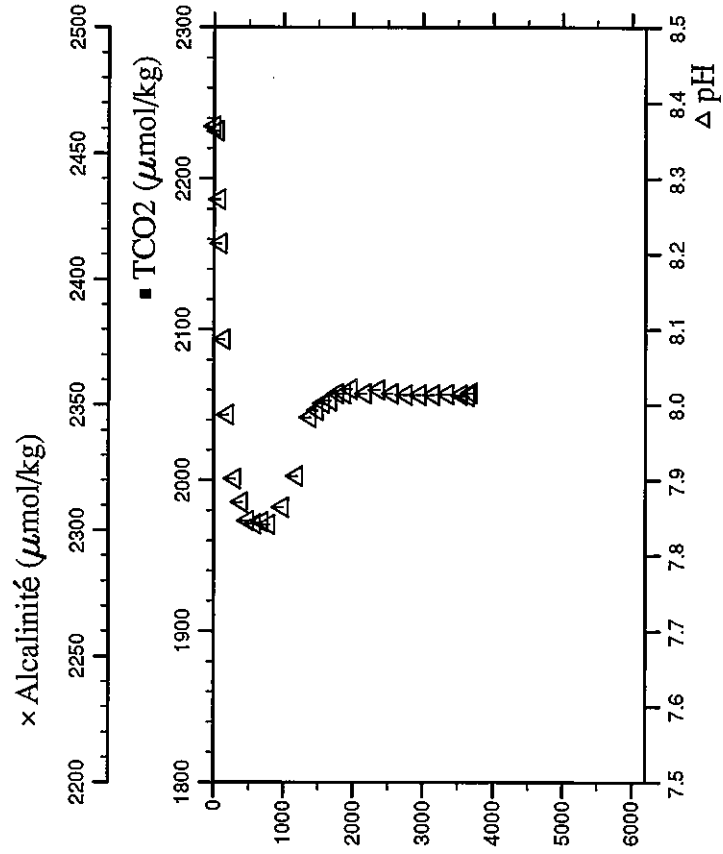
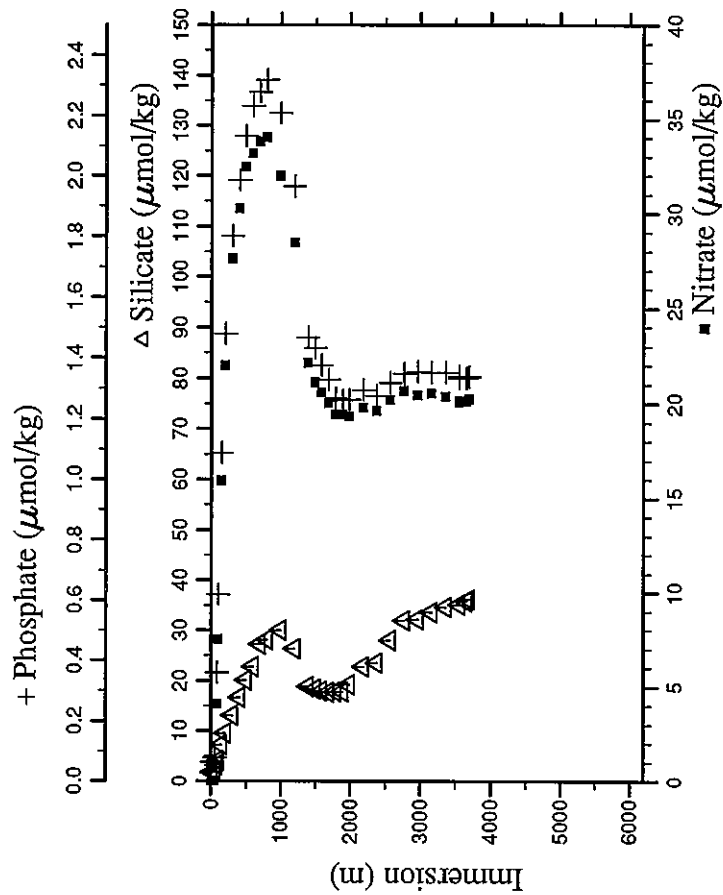
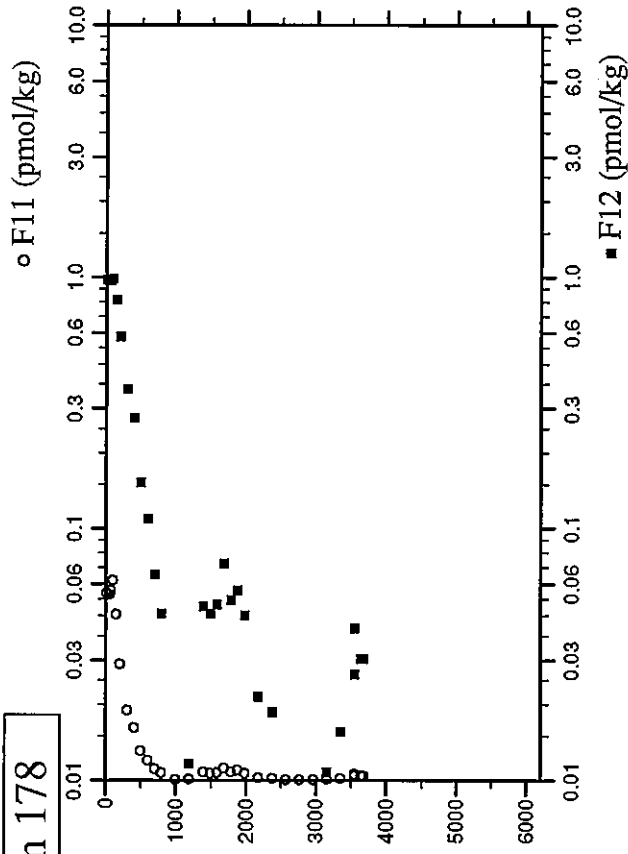
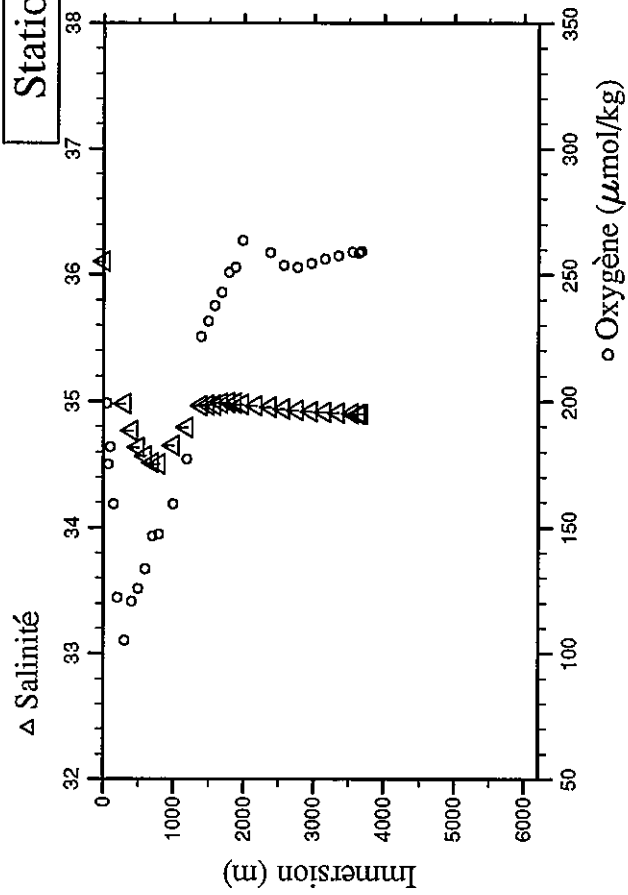
Station 177



Station : 178 Campagne : CITHER 2  
 Date : 06-03-94 Heure : 8 h 26 mn  
 Position : N 0 59.97 W 33 26.42  
 Dernier niveau à : 3744  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg. cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.6	5.6	26.967	23.5824	36.103		0.04	0.065	1.8	1.7371	0.9778			8.369
51.3	51.0	26.783	23.8943	36.189	r	0.04	0.080	1.8	1.7231	0.9719			8.363
76.2	75.8	23.804	25.0564	36.340	r	4.09	0.361	3.2	1.7599	0.9698			8.273
99.4	98.8	18.797	26.3217	36.048	r	7.54	0.620	4.1	1.8501	0.9876			8.214
143.9	143.1	14.045	27.1533	35.454	r	15.92	1.088	7.3	1.5396	0.8112			8.087
199.2	198.0	12.498	27.5565	35.219	r	21.99	1.479	9.6	1.0777	0.5796			7.987
301.4	299.5	10.471	28.2094	34.981		27.61	1.802	13.1	0.6472	0.3578			7.902
401.3	398.7	8.464	28.8345	34.768		30.28	1.985	16.7	0.4890	0.2757			7.871
499.4	496.1	7.163	29.3821	34.638		32.49	2.132	20.1	0.2725	0.1526			7.846
601.0	596.8	6.306	29.9129	34.569		33.20	2.231	22.8	0.1869	0.1095			7.842
701.0	696.0	5.344	30.4587	34.514		33.82	2.279	27.3	0.1091	0.0655			7.845
798.6	792.7	5.079	30.9350	34.506		34.02	2.318	28.2	0.0759	0.0460			7.841
999.5	991.6	4.467	32.0447	34.650		32.01	2.208	30.1	0.0073	0.0068			7.864
1200.3	1190.3	4.470	33.0646	34.794		28.49	1.964	26.3	0.0142	0.0117			7.906
1399.0	1386.7	4.267	34.1228	34.966		22.13	1.468	18.9	0.0798	0.0489			7.984
1499.6	1486.0	4.156	34.5959	34.974		21.13	1.434	18.4	0.0676	0.0459			7.993
1598.3	1583.4	4.026	35.0627	34.974		20.62	1.375	18.0	0.0721	0.0499			8.002
1700.9	1684.7	3.931	35.5397	34.985		20.03	1.329	17.7	0.1132	0.0723			8.006
1798.9	1781.3	3.787	36.0036	34.990		19.41	1.267	17.9	0.0780	0.0518			8.015
1899.6	1880.6	3.679	36.4681	34.986		19.41	1.261	17.8	0.0968	0.0567			8.015
1999.9	1979.4	3.434	36.9456	34.977		19.33	1.263	19.3	0.0658	0.0450			8.021
2198.2	2174.7	3.179	37.8553	34.966		19.81	1.296	22.8	0.0286	0.0215			8.015
2398.9	2372.2	2.966	38.7729	34.957	r	19.61	1.277	23.6	0.0220	0.0186			8.020
2598.2	2568.0	2.714	39.6823	34.940		20.21	1.318	28.0	0.0098	0.0098			8.015
2797.8	2764.0	2.541	40.5799	34.930		20.68	1.348	31.9	0.0092	0.0068			8.013
2998.1	2960.6	2.459	41.4701	34.923		20.45	1.354	32.2	0.0096	0.0078			8.013
3199.6	3158.1	2.313	42.3684	34.914		20.53	1.353	33.6	0.0157	0.0108			8.013
3399.1	3353.4	2.229	43.2475	34.911		20.37	1.352	34.6	0.0213	0.0156			8.014
3601.6	3551.6	2.100	44.1440	34.905		20.06	1.334	35.1	0.0428	0.0264			8.013
3601.9	3551.9	2.102	44.1451	34.904		20.14	1.340	35.1	0.0619	0.0401			8.013
3700.1	3647.9	2.053	44.5762	34.901		20.14	1.334	35.8	0.0445	0.0303			8.012
3737.4	3684.4	2.035	44.7406	34.900		20.24	1.338	36.1	0.0444	0.0303			8.016

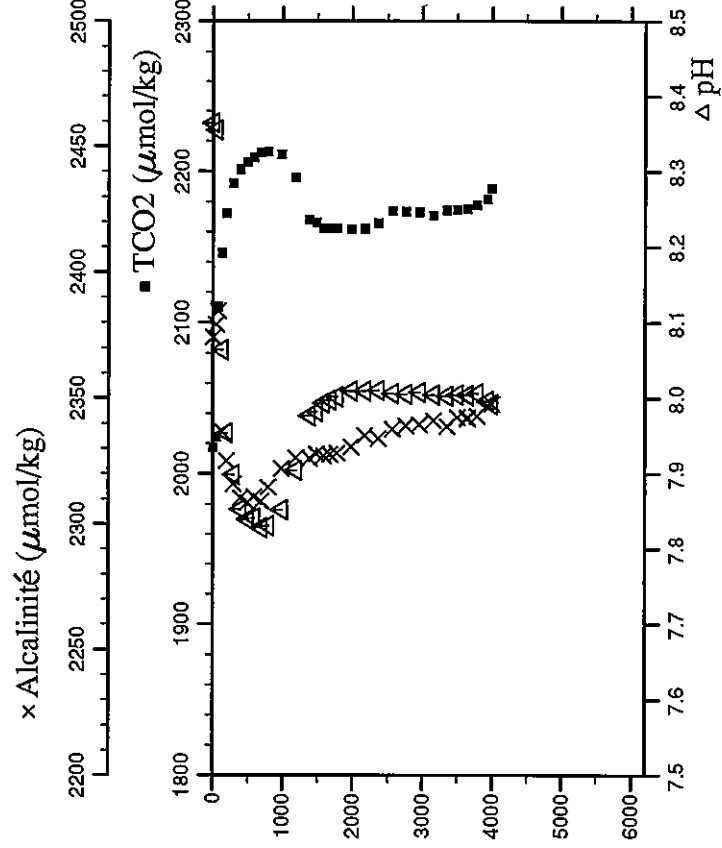
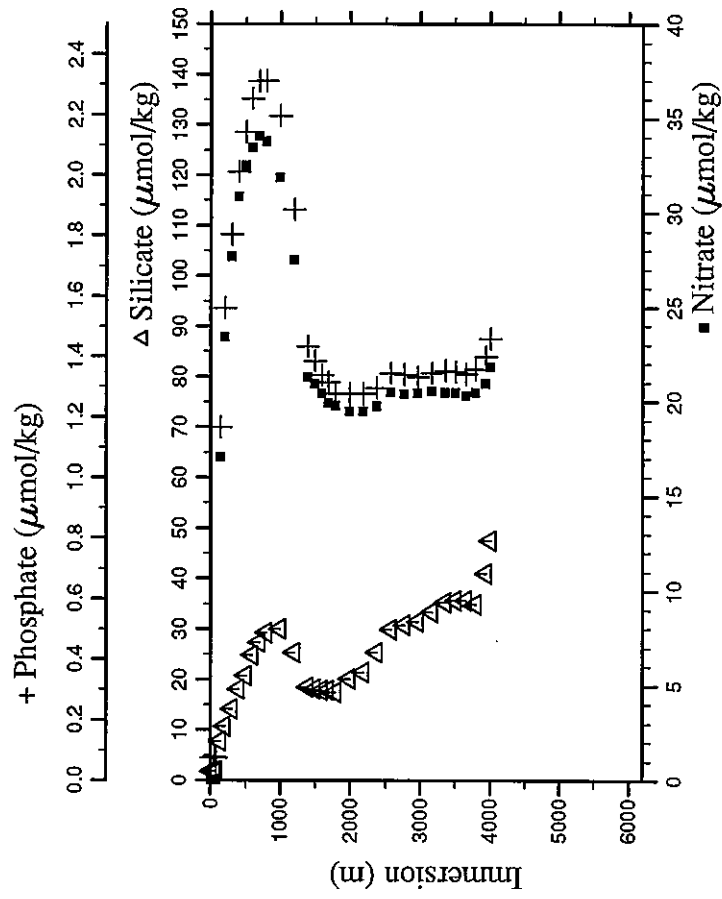
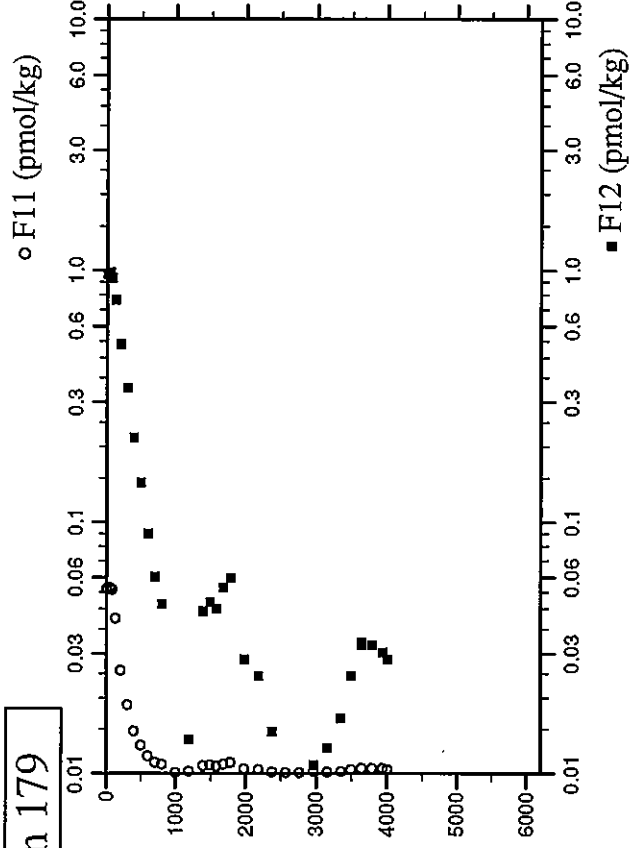
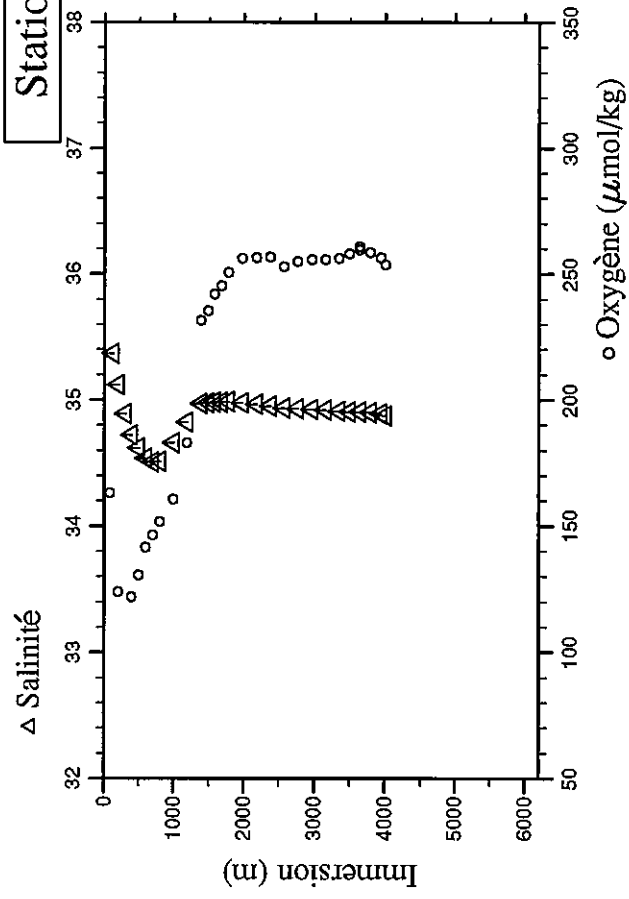
# Station 178



Station : 179 Campagne : CITHER 2  
 Date : 06-03-94 Heure : 14 h 20 mn  
 Position : N 1 17.56 W 33 56.51  
 Dernier niveau à : 4065  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NIURATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI-NITE	pH
dbar	metres	deg. cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.7	7.7	27.151	23.5413	36.119	r 199.1	r 0.04	0.074	1.8	1.7128	0.9612	2017.07	2374.1	8.364
49.7	49.4	26.845	23.8487	36.172	r 197.5	r 0.04	0.080	1.8	1.7196	0.9797	2024.40	2379.1	8.355
80.6	80.1	21.033	25.7994	36.171	r 163.1	0.04	0.074	1.8	1.7035	0.9289	2110.13	2384.5	
129.9	129.1	13.641	27.1215	35.367	r 151.6	r 17.09	1.167	7.8	1.4369	0.7623	2146.05	2336.6	8.064
200.2	199.0	11.688	27.6366	35.120	124.0	23.41	1.560	10.7	0.9561	0.5093	2172.36	2325.1	7.954
301.5	299.6	9.741	28.2706	34.892	118.3	r 27.70	1.803	14.2	0.6392	0.3422	2192.14	2315.8	7.899
399.9	397.3	8.024	28.8625	34.724	121.9	30.86	2.011	18.1	0.3924	0.2171	2201.33	2310.2	7.853
500.3	496.9	6.938	29.4033	34.620	130.6	32.51	2.143	20.8	0.2640	0.1438	2205.94	2308.4	7.840
601.6	597.4	5.788	29.9642	34.539	141.4	33.47	2.253	24.8	0.1621	0.0900	2209.09	2310.9	7.841
700.9	695.9	5.290	30.4625	34.507	146.3	34.08	2.310	27.4	0.1014	0.0606	2212.48	2309.1	7.829
801.3	795.4	4.928	30.9713	34.512	151.7	33.79	2.312	29.3	0.0822	0.0469	2212.83	2314.7	7.831
999.6	991.7	4.453	32.0539	34.661	160.5	31.87	2.196	30.1	0.0068	0.0049	2211.20	2321.9	7.852
1200.3	1190.3	4.492	33.0836	34.825	182.9	27.53	1.887	25.3	0.0206	0.0137	2196.07	2326.3	7.905
1398.7	1386.4	4.176	34.1380	34.971	231.6	21.30	1.434	18.5	0.0720	0.0440	2167.94	2326.0	7.977
1500.5	1486.9	4.091	34.6139	34.979	235.4	20.94	1.385	18.1	0.0766	0.0479	2166.41	2327.7	7.983
1599.3	1584.4	3.942	35.0830	34.983	242.0	20.43	1.338	17.9	0.0680	0.0450	2162.63	2327.0	7.994
1700.0	1683.8	3.862	35.5469	34.980	245.2	19.92	1.314	17.8	0.0838	0.0547	2162.63	2327.5	7.998
1800.3	1782.7	3.787	36.0093	34.989	250.6	19.80	1.277	17.5	0.1043	0.0596	2162.32	2328.2	8.002
2000.6	1980.1	3.348	36.9573	34.975	256.1	19.49	1.277	20.1	0.0432	0.0284	2161.40	2330.7	8.010
2200.4	2176.9	3.174	37.8701	34.965	256.4	19.49	1.276	21.4	0.0388	0.0244	2162.21	2335.1	8.010
2399.1	2372.3	2.865	38.7860	34.953	256.7	19.77	1.295	25.3	0.0167	0.0147	2162.21	2335.1	8.011
2600.5	2570.3	2.686	39.6930	34.936	253.0	20.52	1.345	29.9	0.0068	0.0098	2166.03	2333.8	8.007
2799.2	2765.4	2.556	40.5848	34.933	254.8	20.41	1.340	30.8	0.0091	0.0049	2173.43	2339.1	8.006
2998.2	2960.7	2.444	41.4731	34.924	255.6	20.45	1.331	31.5	0.0179	0.0108	2173.21	2339.5	8.008
3200.1	3158.6	2.339	42.3680	34.920	255.7	20.53	1.345	33.4	0.0153	0.0127	2170.92	2341.0	8.005
3398.0	3352.4	2.215	43.2449	34.911	256.2	20.49	1.353	35.2	0.0211	0.0166	2174.40	2338.7	8.003
3549.9	3501.0	2.117	43.9169	34.906	257.9	20.46	1.349	35.7	0.0348	0.0244	2174.78	2342.4	8.005
3699.2	3647.0	2.054	44.5725	34.892	259.6	20.31	1.343	35.6	0.0465	0.0332	2175.19	2342.2	8.005
3849.1	3793.5	1.999	45.2251	34.904	260.7	20.30	1.340	35.7	0.0497	0.0323	2177.78	2341.7	8.004
3998.9	3939.8	1.902	45.8797	34.899	258.5	20.47	1.356	34.9	0.0472	0.0323	2181.46	2342.7	8.007
4064.4	4003.7	1.757	46.1767	34.889	256.4	20.95	1.399	41.0	0.0471	0.0303	2181.46	2347.2	7.996
				34.874	253.7	21.82	1.459	47.5	0.0402	0.0284	2188.86	2347.7	7.992

# Station 179

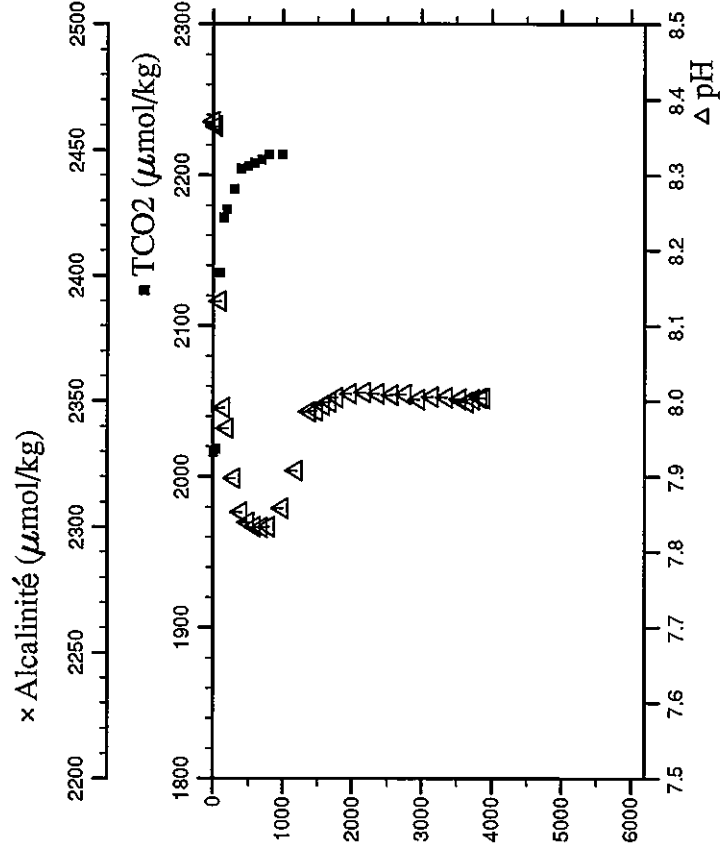
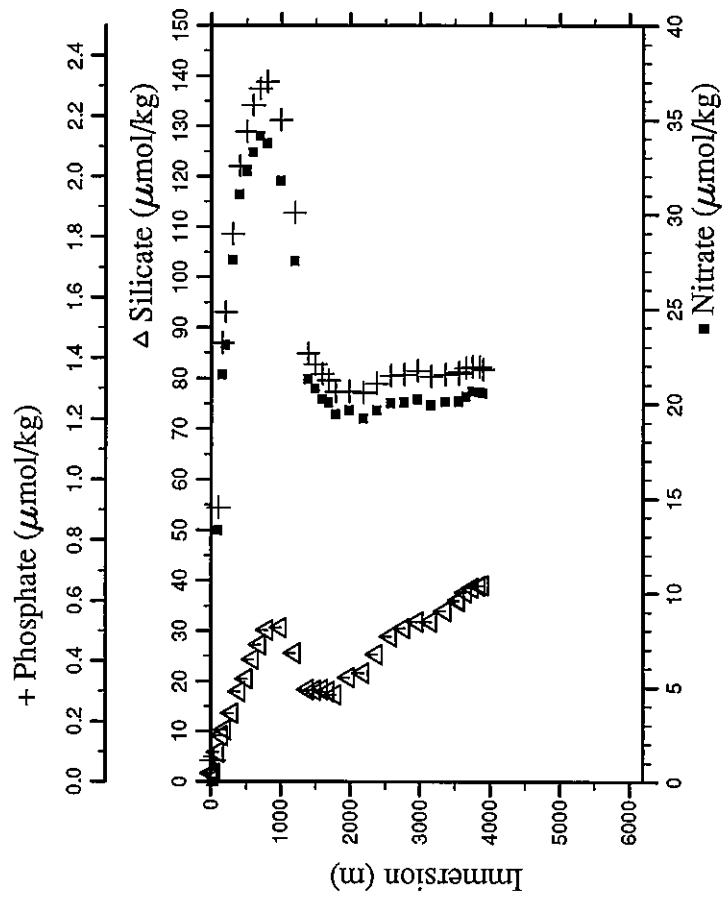
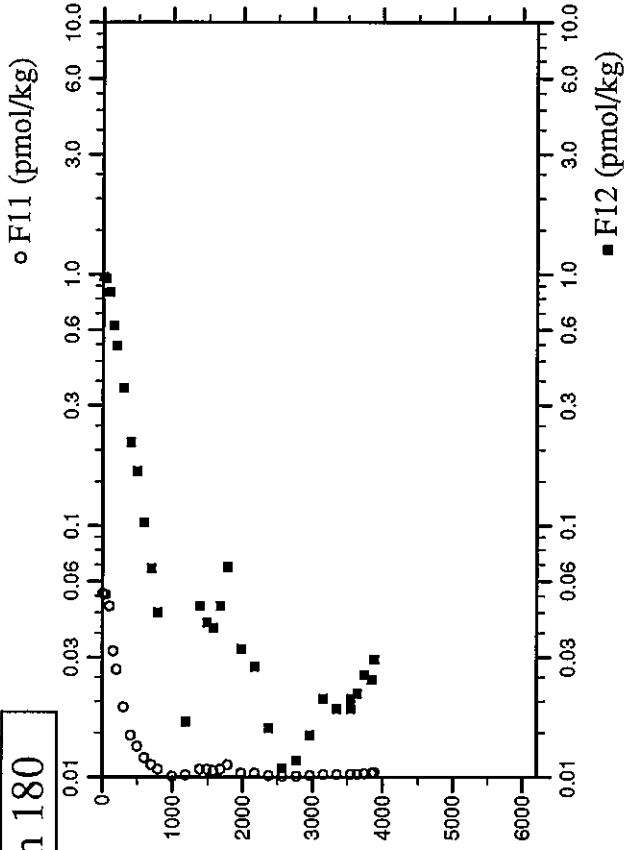
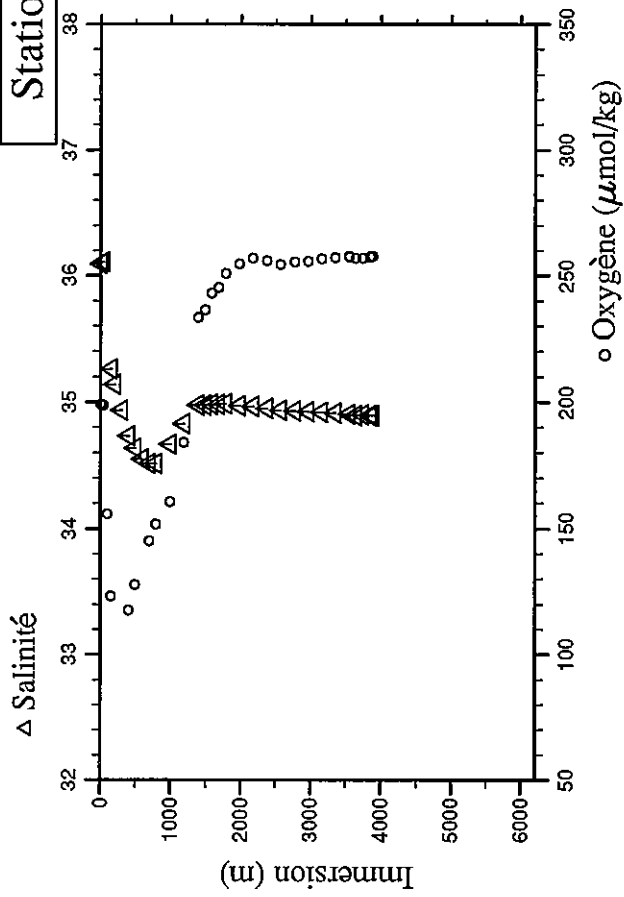




Station : 180 Campagne : CITHER 2  
 Date : 06-03-94 Heure : 20 h 23 mn  
 Position : N 1 35.08 W 34 26.67  
 Dernier niveau à : 3947  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.5	7.5	27.016	23.5669	36.093	198.9	0.00	0.071	1.7	1.7033	0.9749	2016.40		8.371
41.3	41.1	27.002	23.7255	36.110	198.6	0.00	0.071	1.7	1.6918	0.9661	2018.45		8.365
101.2	100.6	16.920	26.6021	35.766	r	13.33	0.907	5.9	1.5848	0.8491	2135.38		8.133
151.2	150.3	12.792	27.3069	35.261	123.1	21.51	1.449	9.2	1.1717	0.6236	2171.86		7.991
199.9	198.7	11.822	27.6239	35.138	122.7	r	1.552	10.4	0.9971	0.5191	2177.47		7.964
300.4	298.5	10.048	28.2414	34.935	112.5	r	1.811	13.6	0.6460	0.3529	2191.04		7.898
401.9	399.3	8.177	28.8590	34.735	117.7	r	2.034	18.0	0.3883	0.2141	2204.35		7.853
501.9	498.5	7.100	29.3983	34.634	127.9	r	2.150	20.5	0.2841	0.1643	2205.92		7.840
601.7	597.5	6.078	29.9360	34.551	138.2	r	2.237	24.3	0.1816	0.1027	2208.14		7.834
700.4	695.4	5.433	30.4458	34.514	145.1	r	2.291	27.2	0.1166	0.0675	2210.25		7.833
800.4	794.5	4.887	30.9764	34.514	151.6	r	2.315	30.2	0.0754	0.0450	2213.65		7.834
999.9	992.0	4.460	32.0585	34.655	160.7	r	2.187	30.7	0.0050	0.0029	2213.66		7.858
1199.3	1189.3	4.508	33.0805	34.828	184.0	r	1.881	25.6	0.0206	0.0166			7.908
1399.9	1387.5	4.125	34.1545	34.975	233.3	r	1.417	18.3	0.0723	0.0479			7.986
1499.0	1485.4	4.066	34.6117	34.979	236.4	r	1.381	18.2	0.0756	0.0411			7.987
1600.3	1585.4	3.882	35.0937	34.981	243.0	r	1.348	18.3	0.0597	0.0391			7.995
1699.2	1683.0	3.850	35.5433	34.983	245.3	r	1.328	18.0	0.0738	0.0479			7.999
1799.7	1782.1	3.776	36.0084	34.988	250.8	r	1.289	17.4	0.1120	0.0684			8.005
2000.0	1979.5	3.342	36.9551	34.971	254.6	r	1.292	20.8	0.0394	0.0323			8.010
2197.6	2174.1	3.154	37.8578	34.965	256.9	r	1.286	21.7	0.0362	0.0274			8.012
2399.5	2372.7	2.880	38.7851	34.950	255.9	r	1.316	25.4	0.0140	0.0156			8.010
2600.5	2570.3	2.691	39.6937	34.936	254.5	r	1.342	28.9	0.0060	0.0108			8.008
2800.3	2766.5	2.561	40.5899	34.930	255.3	r	1.347	30.5	0.0082	0.0117			8.009
3000.2	2962.6	2.453	41.4807	34.924	255.7	r	1.358	31.8	0.0123	0.0147			8.002
3199.0	3157.5	2.380	42.3593	34.923	256.8	r	1.340	31.8	0.0241	0.0205			8.006
3399.9	3354.2	2.252	43.2503	34.914	257.3	r	1.347	34.0	0.0231	0.0186			8.005
3598.3	3548.3	2.150	44.1230	34.905	257.4	r	1.348	36.1	0.0257	0.0205			8.002
3598.4	3548.4	2.152	44.1224	34.904	257.6	r	1.354	35.9	0.0285	0.0186			8.003
3699.0	3646.8	2.071	44.5669	34.896	256.9	r	1.368	37.7	0.0285	0.0215			7.999
3797.6	3743.2	2.023	44.9990	34.900	256.9	r	1.372	38.6	0.0307	0.0254			8.002
3900.0	3843.2	1.997	45.4434	34.895	257.4	r	1.372	39.0	0.0365	0.0244			8.004
3945.7	3887.8	1.973	45.6441	34.893	257.8	r	1.363	39.1	0.0418	0.0293			8.004

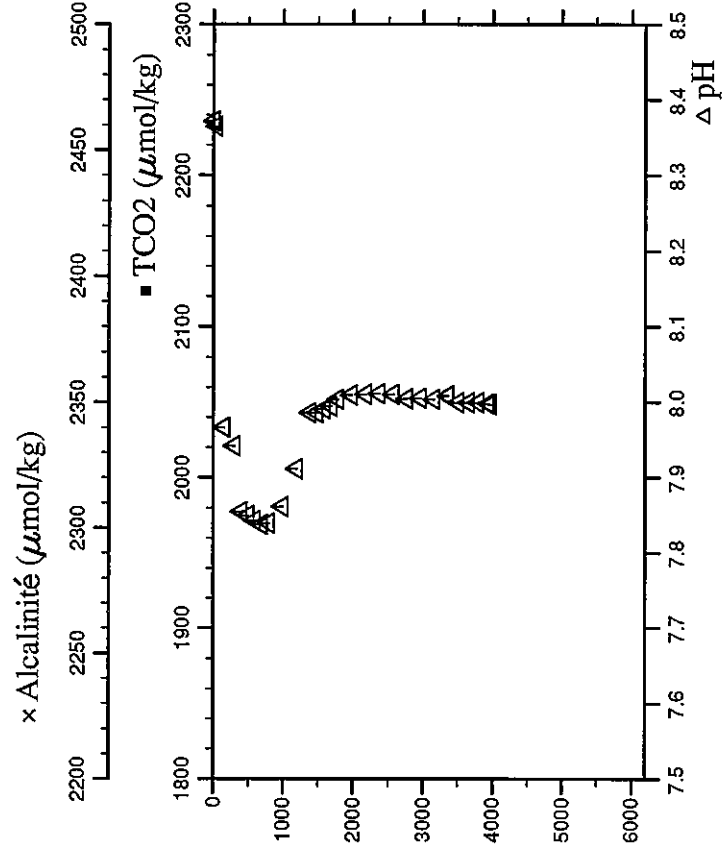
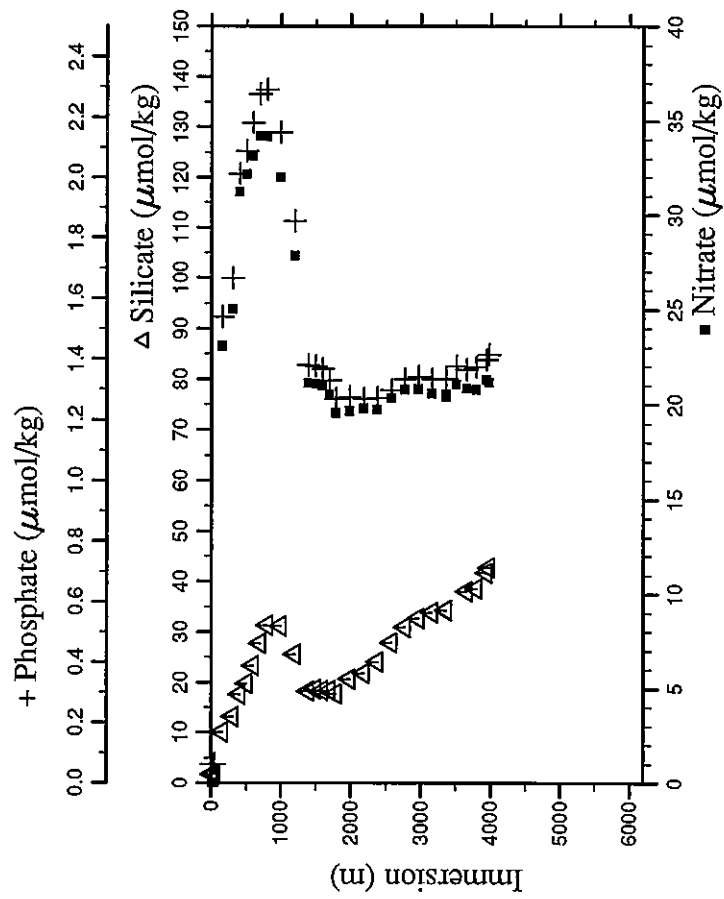
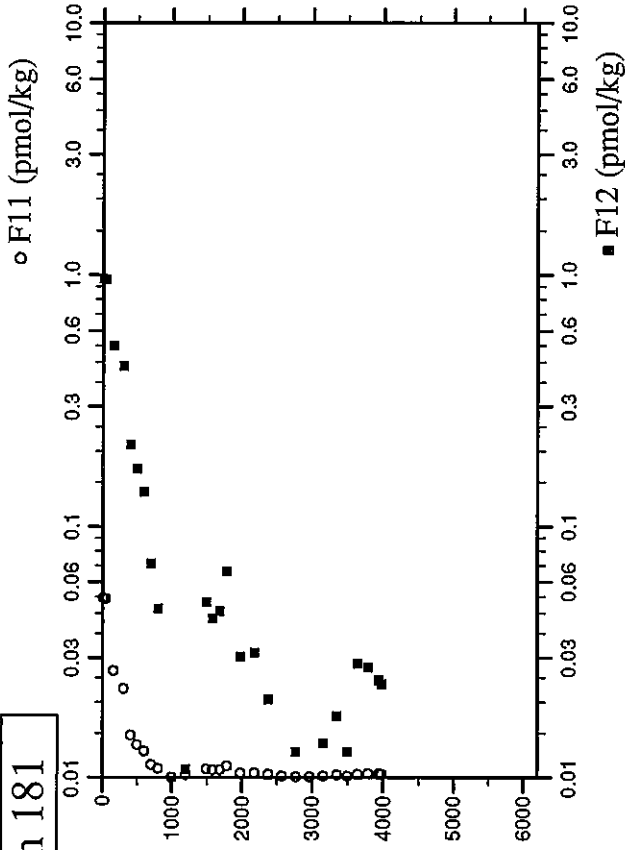
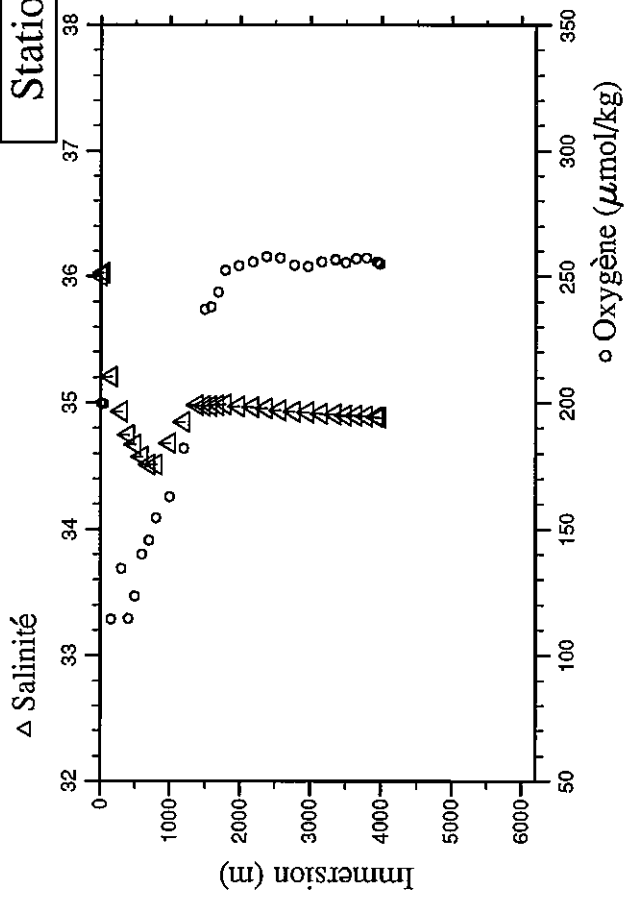
# Station 180



Station : 181 Campagne : CITHER 2  
 Date : 07-03-94 Heure : 2 h 11 mn  
 Position : N 1 52.43 W 34 56.75  
 Dernier niveau à : 4038  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.3	5.3	27.199	23.4352	36.005	199.8	0.04	0.062	1.7	1.6686	0.9542			8.372
41.4	41.2	27.132	23.6232	36.028	199.6	0.04	0.062	1.7	1.6618	0.9554			8.365
150.8	149.9	12.348	27.3514	35.203	114.3	23.08	1.538	10.1	0.9943	0.5249			7.967
301.3	299.4	10.095	28.2338	34.931	134.4	25.03	1.666	13.1	0.8275	0.4351			7.942
402.0	399.4	8.301	28.8500	34.750	114.6	31.22	2.012	17.6	0.3922	0.2122			7.855
501.3	497.9	7.512	29.3636	34.671	123.5	32.16	2.088	19.8	0.3071	0.1692			7.850
601.2	597.0	6.386	29.9073	34.574	140.1	33.16	2.180	23.3	0.2467	0.1369			7.843
702.1	697.1	5.380	30.4640	34.515	145.7	34.21	2.277	27.8	0.1207	0.0714			7.838
800.8	794.9	4.771	30.9955	34.514	154.4	34.16	2.292	31.3	0.0854	0.0469			7.840
1000.3	992.4	4.436	32.0817	34.683	162.9	31.99	2.149	31.2	0.0044	0.0020			7.862
1201.8	1191.7	4.571	33.1001	34.847	182.0	27.84	1.854	25.6	0.0253	0.0108			7.912
1401.4	1389.0	4.205	34.1564	34.982	247.4	21.11	1.380	18.2					7.986
1500.4	1486.8	4.047	34.6208	34.977	236.9	21.07	1.376	18.6	0.0768	0.0499			7.986
1598.7	1583.8	4.024	35.0659	34.979	237.8	20.99	1.367	18.4	0.0731	0.0430			7.991
1701.9	1685.7	3.888	35.5512	34.980	243.7	20.50	1.329	18.4	0.0739	0.0459			7.995
1799.6	1782.0	3.737	36.0132	34.988	252.4	19.57	1.267	17.7	0.1113	0.0665			8.004
1998.9	1978.5	3.361	36.9484	34.972	254.1	19.66	1.274	20.7	0.0447	0.0303			8.010
2200.5	2177.0	3.215	37.8634	34.966	255.7	19.78	1.267	21.8	0.0450	0.0313			8.011
2399.5	2372.7	2.963	38.7769	34.956	257.8	19.74	1.271	24.1	0.0300	0.0205			8.012
2600.2	2570.0	2.713	39.6919	34.941	257.2	20.33	1.297	27.9	0.0138	0.0098			8.011
2799.6	2765.8	2.596	40.5840	34.931	254.4	20.79	1.334	30.9	0.0095	0.0127			8.005
3000.4	2962.8	2.499	41.4749	34.924	253.8	20.80	1.341	32.7	0.0065	0.0049			8.006
3198.1	3156.6	2.358	42.3566	34.917	255.7	20.57	1.334	33.8	0.0153	0.0137			8.004
3399.0	3353.3	2.248	43.2475	34.913	256.8	20.42	1.335	34.4	0.0261	0.0176			8.009
3399.8	3354.1	2.247	43.2508	34.912	256.5	20.54	1.333	34.3	0.0262	0.0176			8.008
3549.1	3500.2	2.156	43.9063	34.902	255.3	21.04	1.375	37.6	0.0142	0.0127			8.000
3699.1	3646.9	2.063	44.5693	34.900	257.0	20.86	1.366	38.0	0.0319	0.0284			8.000
3849.5	3793.9	1.995	45.2265	34.896	257.2	20.78	1.374	38.6	0.0383	0.0274			8.000
4000.3	3941.2	1.908	45.8855	34.888	255.7	21.29	1.398	41.7	0.0365	0.0244			7.998
4036.5	3976.5	1.876	46.0450	34.883	254.9	21.15	1.413	42.8	0.0329	0.0235			7.997

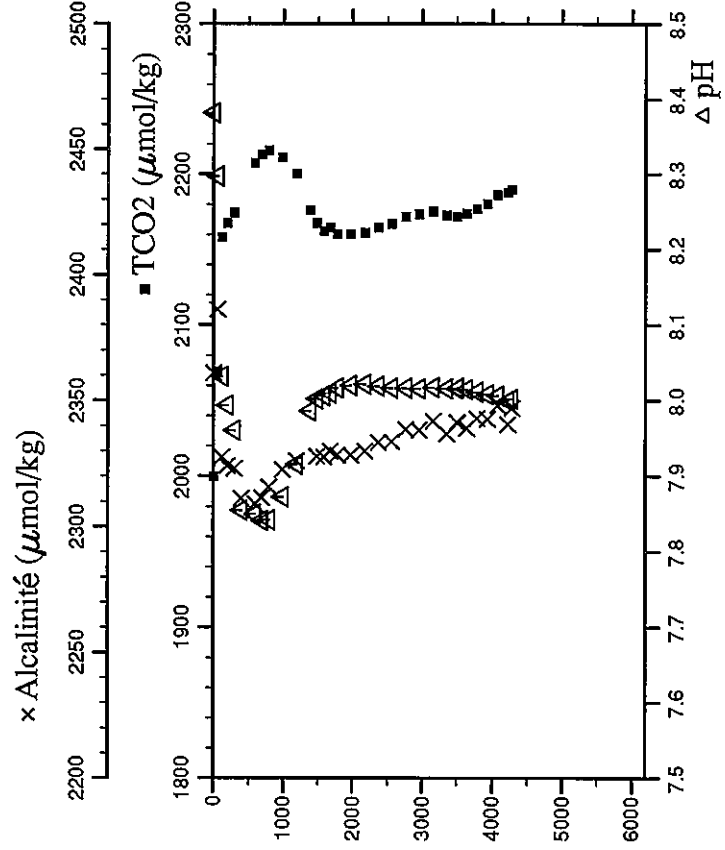
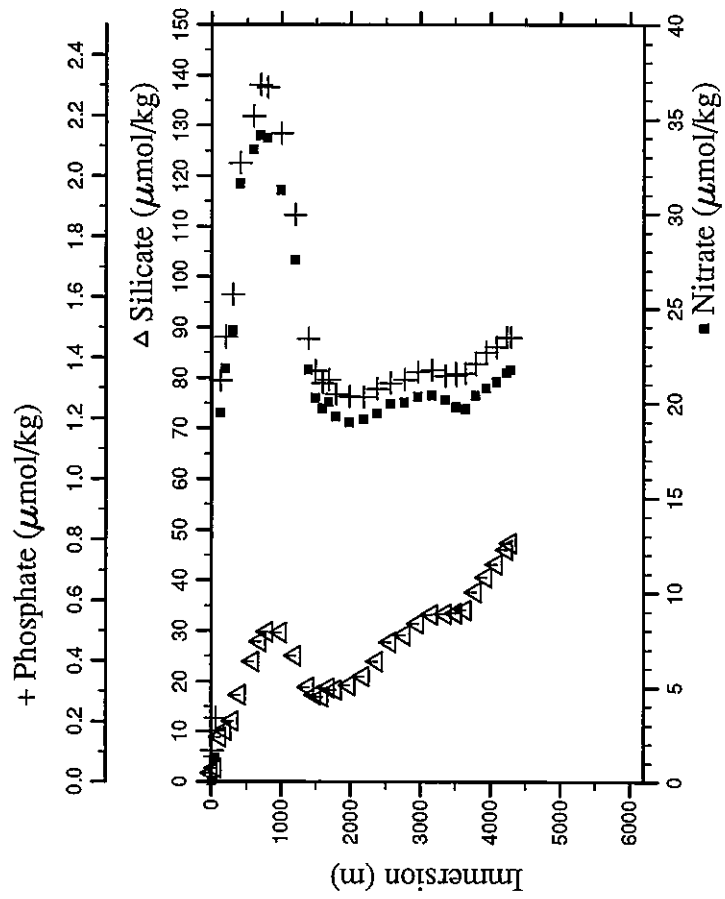
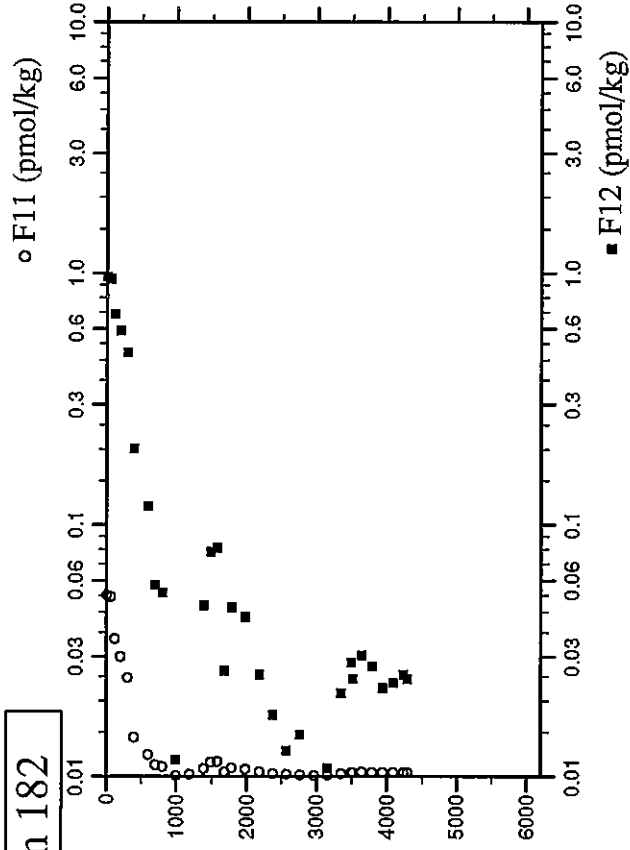
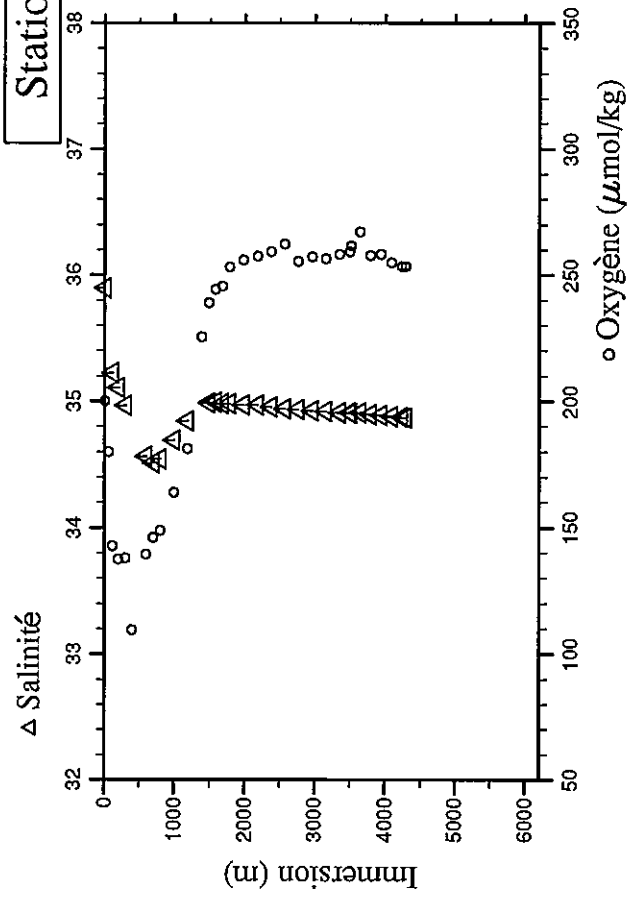
# Station 181



**Δ pH**

Station : 182 Campagne : CITHER 2  
 Date : 07-03-94 Heure : 8 h 9 mn  
 Position : N 2 10.11 W 35 26.80  
 Dernier niveau à : 4356  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION metres	TEMP. POT. SONDE deg. cels.	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI-NITE	PH
4.5	4.5	27.198	23.3494	35.897	199.9	0.04	0.104	1.7	1.6780	0.9623	1999.63	2360.8	8.382
61.2	60.9	23.789	24.9491	36.249	179.9	1.29	0.212	2.7	1.6698	0.9484	2069.10	2386.1	8.297
120.0	119.3	12.598	27.1836	35.227	142.7	19.49	1.325	8.9	1.2804	0.6881	2158.31	2327.5	8.032
200.7	199.5	11.693	27.6286	35.111	137.5	21.82	1.469	10.2	1.1118	0.5904	2167.58	2324.1	7.994
301.1	299.2	10.410	28.2056	34.966	138.0	23.84	1.609	12.1	0.9148	0.4839	2174.30	2322.9	7.961
400.8	398.2	8.333	28.8343	34.756	109.5	31.61	2.043	17.3	0.3642	0.2005	2207.05	2311.0	7.855
601.4	597.2	6.092	29.9406	34.565	139.6	33.40	2.197	24.0	0.2030	0.1183	2207.29	2309.1	7.850
700.6	695.6	5.255	30.4723	34.515	146.2	34.14	2.301	27.9	0.1060	0.0577	2212.66	2311.2	7.841
800.9	795.0	4.933	30.9907	34.542	149.0	33.99	2.294	29.8	0.0896	0.0538	2215.81	2315.6	7.842
1199.7	993.3	4.482	32.0809	34.692	163.8	31.25	2.140	29.7	0.0090	0.0117	2211.19	2322.6	7.873
1199.7	1189.7	4.553	33.0887	34.844	181.2	27.57	1.872	25.1	0.0185	0.0078	2200.06	2326.0	7.916
1400.5	1388.1	4.262	34.1325	34.978	225.3	21.76	1.463	18.9	0.0746	0.0479	2176.04	2334.5	7.986
1500.8	1487.2	4.131	34.6182	34.989	239.0	20.28	1.357	17.4	0.1319	0.0782	2167.34	2327.7	8.002
1599.2	1584.3	4.014	35.0804	34.993	244.2	19.74	1.316	16.9	0.1366	0.0811	2162.65	2327.5	8.007
1700.5	1684.3	3.714	35.5677	34.981	245.6	20.08	1.327	18.7	0.0415	0.0264	2164.67	2329.9	8.010
1800.1	1782.5	3.554	36.0389	34.982	253.1	19.30	1.280	18.3	0.0800	0.0469	2160.17	2328.3	8.017
1998.8	1978.4	3.366	36.9496	34.972	256.0	18.99	1.273	19.3	0.0663	0.0430	2160.51	2328.4	8.020
2199.5	2176.0	3.164	37.8655	34.969	257.5	19.14	1.269	21.0	0.0438	0.0254	2161.35	2329.9	8.022
2398.3	2371.5	2.915	38.7762	34.954	259.2	19.47	1.298	24.0	0.0268	0.0176	2164.57	2333.5	8.019
2598.5	2568.3	2.709	39.6833	34.939	262.3	19.96	1.317	27.7	0.0189	0.0127	2167.16	2333.6	8.017
2798.6	2764.8	2.603	40.5786	34.935	255.5	20.03	1.328	29.2	0.0125	0.0088	2171.75	2338.5	8.017
2998.6	2961.0	2.481	41.4686	34.927	257.2	20.34	1.353	31.5	0.0084	0.0088	2173.53	2338.3	8.016
3201.1	3159.5	2.356	42.3697	34.922	256.5	20.41	1.358	33.2	0.0115	0.0108	2174.96	2341.7	8.018
3399.9	3354.2	2.244	43.2504	34.911	258.1	20.18	1.340	33.3	0.0253	0.0215	2172.77	2336.8	8.016
3549.9	3501.0	2.155	43.9142	34.910	259.2	19.75	1.349	33.5	0.0398	0.0284	2171.78	2341.4	8.016
3560.6	3511.5	2.151	43.9602	34.907	261.4	19.79	1.343	33.5	0.0376	0.0244	2171.78	2341.1	8.017
3698.5	3646.3	2.097	44.5647	34.908	267.2	19.71	1.348	34.1	0.0434	0.0303	2173.70	2338.9	8.015
3849.1	3793.5	1.993	45.2251	34.895	257.7	20.39	1.381	37.7	0.0374	0.0274	2176.67	2342.9	8.012
3998.2	3939.1	1.904	45.8773	34.888	258.3	20.79	1.418	40.6	0.0358	0.0225	2180.03	2342.6	8.008
4149.2	4086.5	1.842	46.5305	34.882	255.0	21.13	1.435	43.1	0.0351	0.0235	2185.98	2348.0	8.007
4299.4	4233.0	1.769	47.1810	34.873	253.5	21.60	1.467	46.1	0.0371	0.0254	2187.66	2340.6	8.000
4353.3	4285.5	1.741	47.4137	34.872	253.5	21.75	1.466	47.4	0.0355	0.0244	2189.55	2347.0	8.002

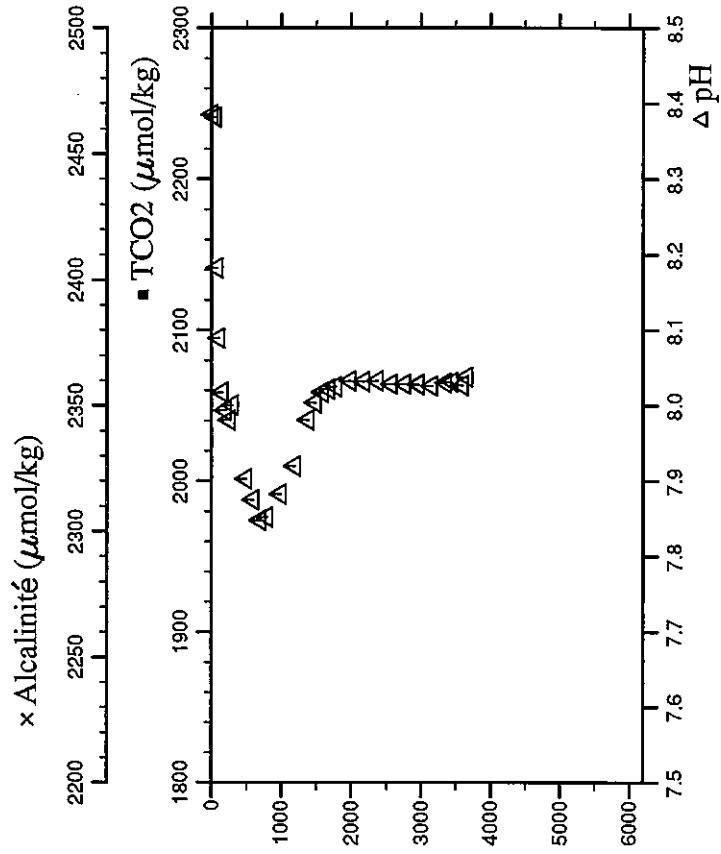
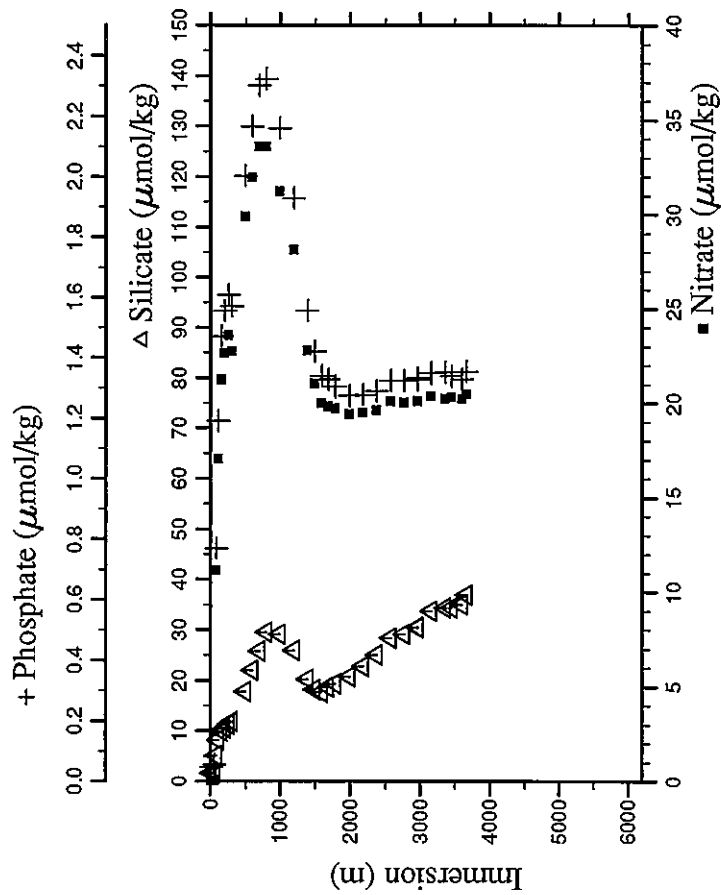
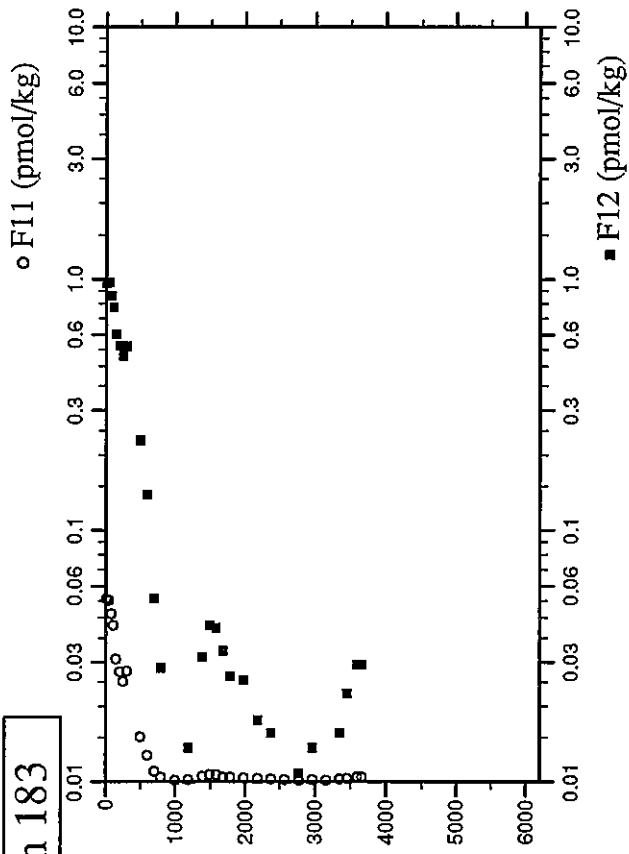
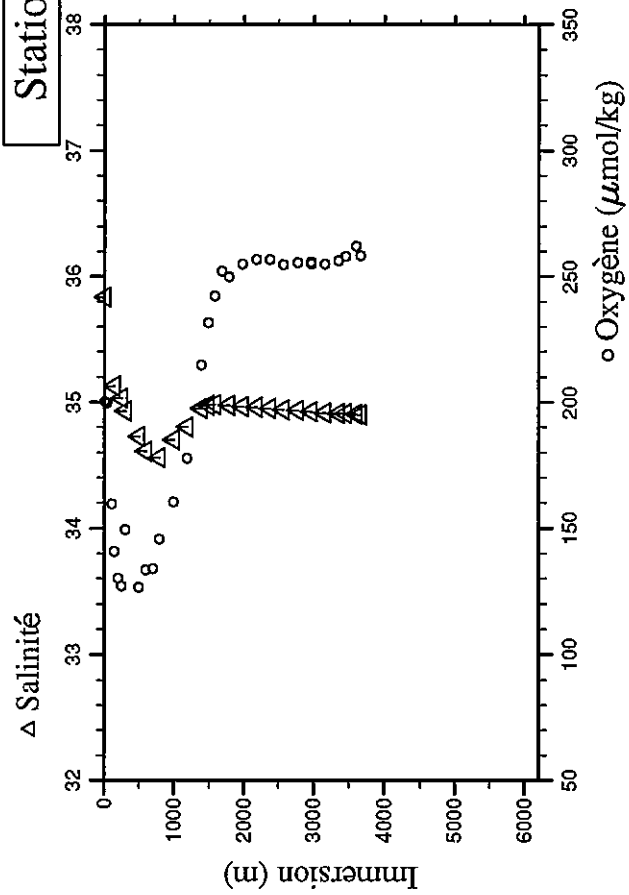


$\Delta$  pH

Station : 183 Campagne : CITHER 2  
 Date : 07-03-94 Heure : 14 h 19 mn  
 Position : N 2 27.57 W 35 56.91  
 Dernier niveau à : 3715  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION metres	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI-NITE	PH
dbar		deg. cells.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
6.5	6.5	27.272	23.2872	35.836	200.2	0.04	0.048	1.6	1.6973	0.9663			8.385
45.9	45.6	27.072	23.5235	35.854	199.7	0.04	0.056	1.6	1.6881	0.9673			8.382
80.3	79.8	19.630	26.0058	35.984	151.9	11.16	0.770	5.1	1.5596	0.8567			8.183
109.5	108.9	12.851	27.1397	35.284	159.5	17.04	1.191	8.2	1.4557	0.7712			8.090
150.7	149.8	11.792	27.4021	35.128	140.7	21.26	1.471	10.0	1.1392	0.6031			8.018
200.2	199.0	11.342	27.6640	35.079	130.1	22.65	1.557	10.6	1.0204	0.5416			7.994
251.1	249.6	10.972	27.9247	35.032	126.9	23.58	1.609	11.4	0.9330	0.4957			7.981
301.8	299.9	10.290	28.2034	34.933	149.3	22.76	1.571	11.9	1.0268	0.5407			8.001
499.5	496.2	7.992	29.3223	34.726	126.4	29.90	2.004	17.8	0.4165	0.2278			7.903
601.2	597.0	6.652	29.8985	34.612	133.5	31.98	2.167	22.0	0.2434	0.1389			7.875
701.6	696.6	5.753	30.4598	34.575	133.9	33.60	2.301	25.9	0.0995	0.0538			7.848
800.2	794.3	4.878	31.0126	34.562	145.7	33.60	2.322	29.6	0.0433	0.0284			7.852
1001.4	993.5	4.630	32.0666	34.700	160.3	31.22	2.159	29.1	0.0153	0.0098			7.883
1199.9	1189.9	4.510	33.0671	34.804	177.5	28.15	1.928	26.0	0.0197	0.0137			7.920
1400.4	1388.0	4.335	34.1074	34.949	214.8	22.78	1.556	20.3	0.0514	0.0313			7.981
1499.7	1486.1	4.128	34.6029	34.975	231.4	21.04	1.421	18.2	0.0669	0.0420			8.004
1599.2	1584.3	3.908	35.0884	34.984	242.3	19.99	1.339	17.7	0.0658	0.0411			8.018
1700.3	1684.1	3.699	35.5667		252.2	19.84	1.329	18.7	0.0441	0.0332			8.022
1799.9	1782.3	3.535	36.0352	34.976	249.8	19.72	1.305	19.4	0.0440	0.0264			8.025
2000.2	1979.7	3.256	36.9650	34.968	255.0	19.41	1.277	20.8	0.0387	0.0254			8.033
2199.6	2176.1	3.029	37.8825	34.959	256.6	19.48	1.279	22.8	0.0303	0.0176			8.032
2398.7	2371.9	2.828	38.7876	34.949	256.7	19.63	1.292	25.1	0.0231	0.0156			8.033
2599.7	2569.5	2.685	39.6912	34.940	254.7	20.09	1.325	28.4	0.0181	0.0078			8.029
2800.2	2766.4	2.600	40.5852	34.934	255.3	20.02	1.325	29.1	0.0140	0.0108			8.029
2998.6	2961.0	2.505	41.4673	34.928	255.0	20.13	1.327	30.4	0.0197	0.0137			8.029
2998.9	2961.3	2.505	41.4685	34.928	255.6	20.09	1.333	30.5	0.0185	0.0098			8.028
3199.3	3157.7	2.342	42.3660	34.916	254.8	20.36	1.351	33.7	0.0128	0.0098			8.026
3399.3	3353.6	2.223	43.2501	34.910	256.2	20.24	1.353	34.4	0.0235	0.0156			8.030
3499.9	3452.1	2.171	43.6939	34.908	257.9	20.29	1.340	34.4	0.0318	0.0225			8.031
3649.1	3598.0	2.092	44.3513	34.904	262.0	20.23	1.329	35.0	0.0441	0.0293			8.027
3716.4	3663.8	2.025	44.6493	34.899	258.3	20.46	1.355	36.9	0.0448	0.0293			8.038

# Station 183

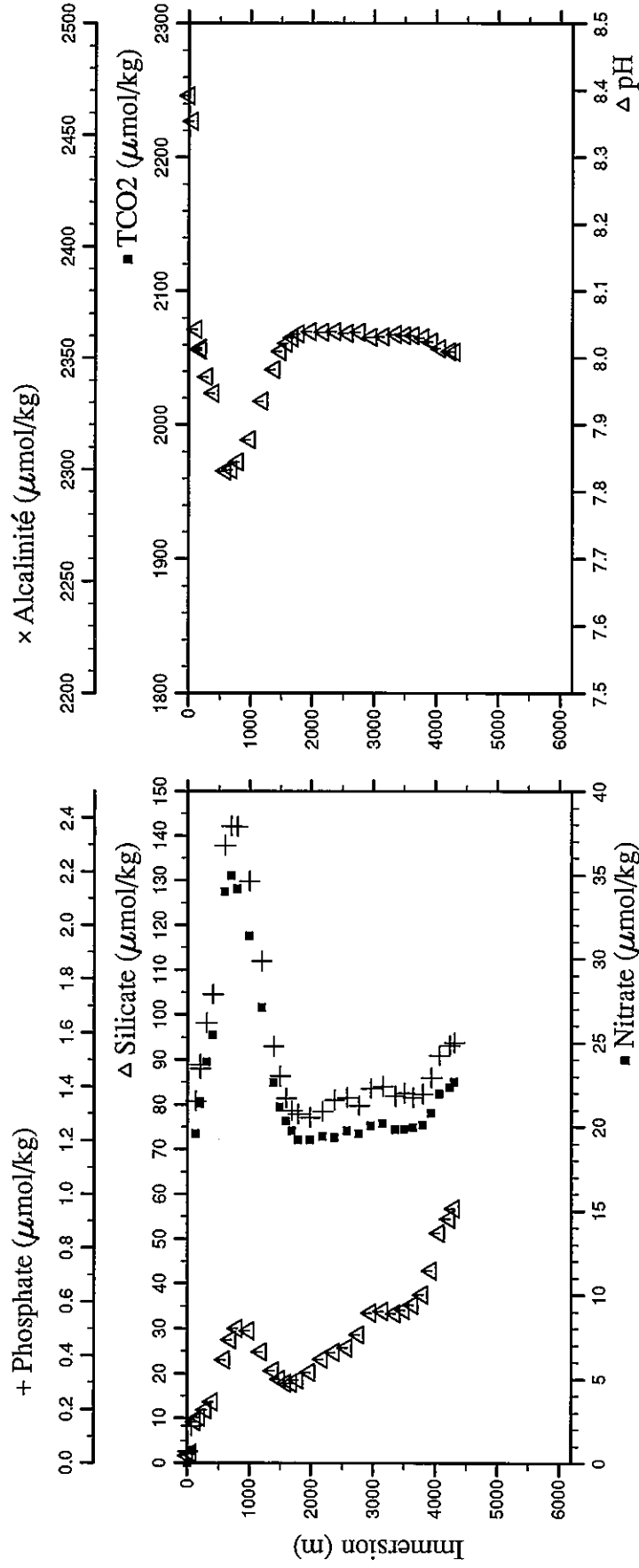
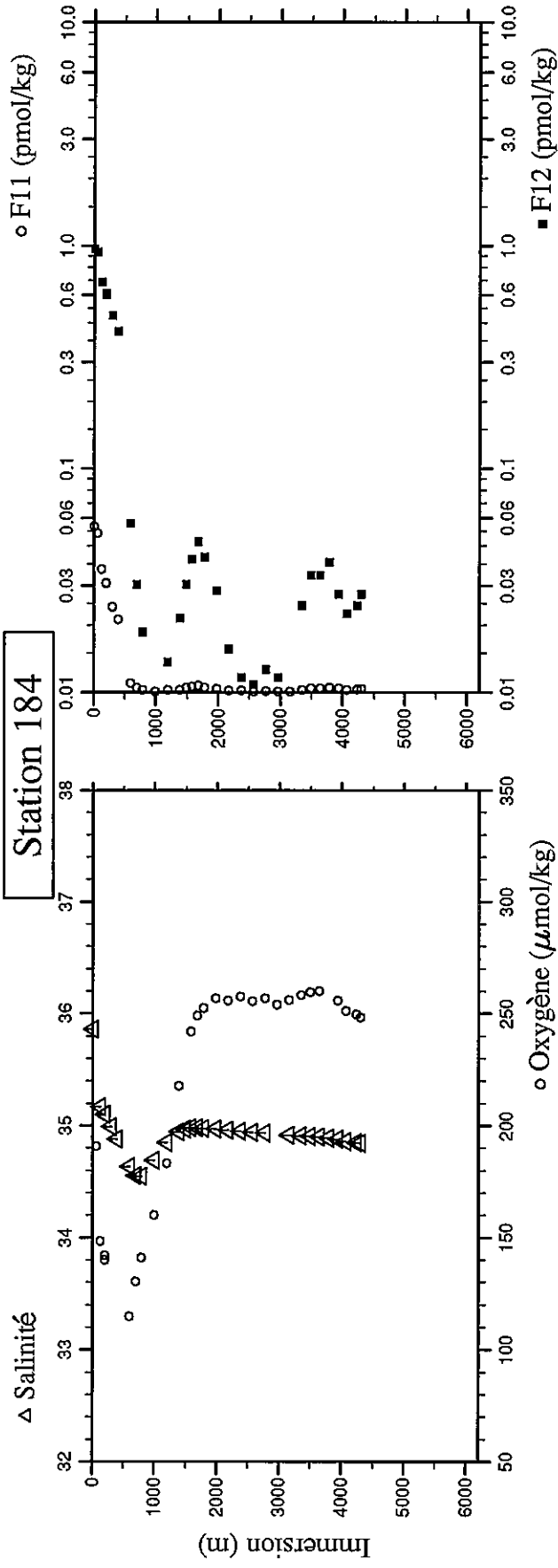




Station : 184 Campagne : CITHER 2  
 Date : 07-03-94 Heure : 20 h 2 mn  
 Position : N 2 45.12 W 36 27.04  
 Dernier niveau à : 4373  
 Nb prélèvements : 32

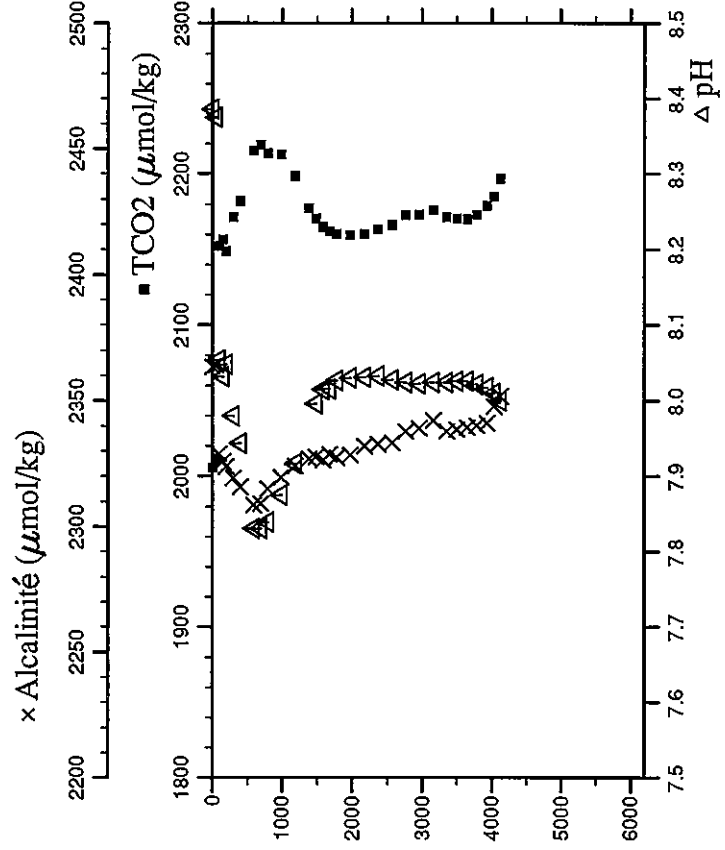
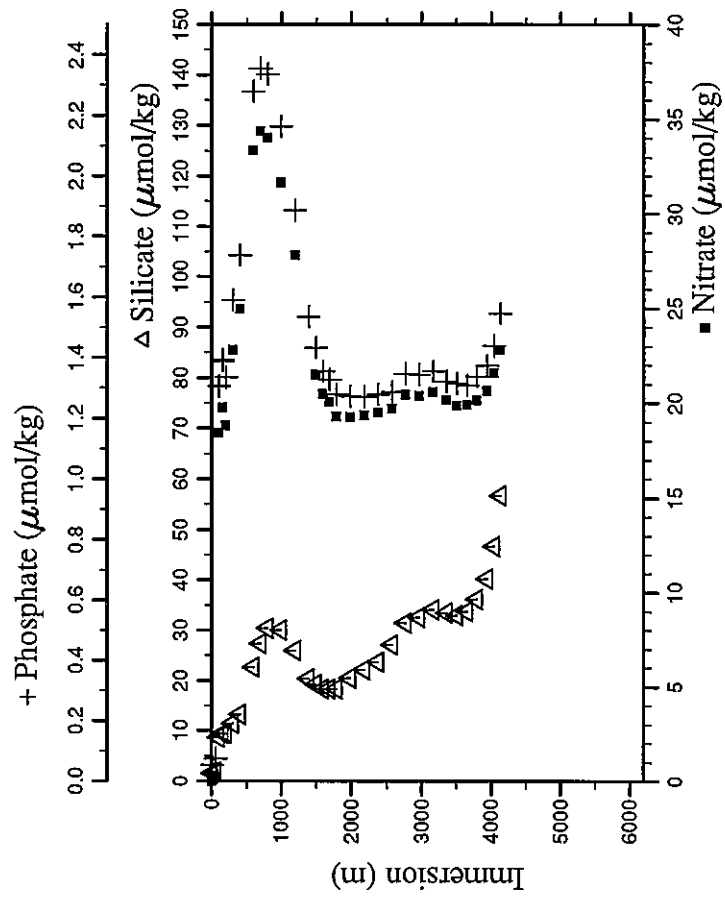
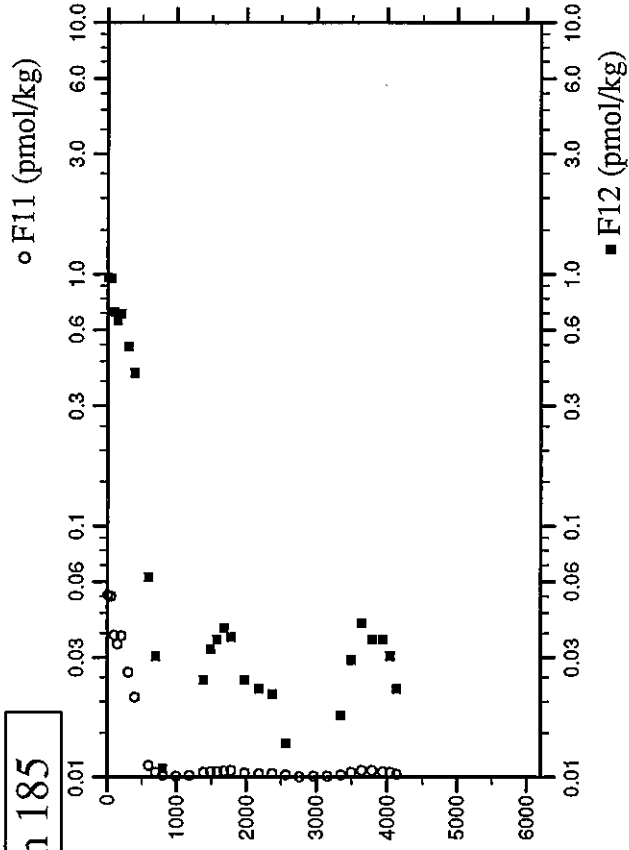
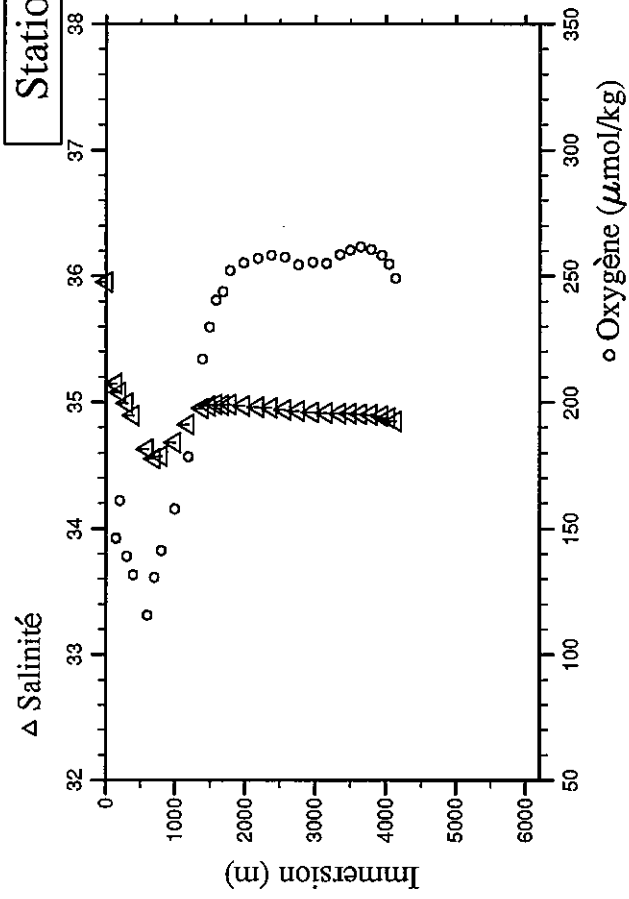
PRESSION CHIMIE	IMMERSSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT, NITE	ALCALI-NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
6.9	6.9	26.984	23.3989	35.860	200.5	r 0.00	0.044	1.7	1.7276	0.9721			8.392
61.0	60.7	25.945	24.0750	36.053	r 190.9	0.75	0.139	2.2	1.6571	0.9359			8.354
126.7	126.0	12.238	27.2422	35.172	148.5	19.60	1.346	9.2	1.2831	0.6862			8.043
201.2	200.0	11.640	27.6355	35.099	140.1	21.48	1.482	10.2	1.1353	0.5983			8.012
201.4	200.2	11.641	27.6354	35.102	142.1	21.40	1.467	10.2	1.1404	0.6100			8.015
301.2	299.3	10.697	28.1769	34.994	131.7	r 23.88	1.636	11.9	0.8944	0.4869			7.972
400.3	397.7	9.706	28.7108	34.881	135.1	r 25.47	1.742	13.7	0.7624	0.4126			7.947
601.3	597.1	6.611	29.9234	34.634	114.9	33.99	2.297	23.1	0.0949	0.0567			7.831
700.8	695.8	5.544	30.4666	34.557	130.4	34.96	2.369	27.5	0.0486	0.0303			7.833
800.4	794.5	4.964	30.9955	34.550	140.9	34.16	2.367	30.0	0.0260	0.0186			7.845
1000.3	992.4	4.583	32.0695	34.694	160.1	31.35	2.164	29.5	0.0077	0.0088			7.878
1201.1	1191.0	4.569	33.0982	34.848	183.1	27.08	1.866	24.9	0.0229	0.0137			7.935
1401.2	1388.8	4.196	34.1295	34.946	217.7	22.66	1.550	20.7	0.0261	0.0215			7.983
1499.5	1485.9	4.104	34.6042	34.971	237.2	r 21.18	1.439	18.7	0.0477	0.0303			8.010
1600.5	1585.6	3.933	35.0907	34.982	242.0	20.35	1.356	17.9	0.0615	0.0391			8.022
1699.8	1683.6	3.762	35.5607	34.984	249.1	19.76	1.311	17.8	0.0704	0.0469			8.030
1800.0	1782.4	3.562	36.0344	34.979	252.4	19.21	1.297	18.6	0.0513	0.0401			8.036
1998.1	1977.7	3.299	36.9526	34.971	256.6	19.21	1.285	20.2	0.0367	0.0284			8.040
2198.8	2175.3	3.050	37.8736	34.959	255.7	19.44	1.309	23.2	0.0177	0.0156			8.039
2398.9	2372.1	2.867	38.7856	34.951	257.5	19.36	1.350	24.7	0.0172	0.0117			8.040
2601.3	2571.1	2.699	39.6971	34.939	255.4	19.76	1.358	25.7	0.0107	0.0108			8.037
2800.1	2766.3	2.599	40.5859	34.934	256.8	19.60	1.329	28.7	0.0114	0.0127			8.039
2999.2	2961.6	2.425	41.4778	34.933	r 253.9	20.07	1.393	33.5	0.0098	0.0117			8.031
3199.3	3157.7	2.321	42.3663	34.914	256.0	20.19	1.402	33.8	0.0100	0.0059			8.032
3398.1	3352.4	2.220	43.2455	34.912	258.1	19.84	1.366	33.4	0.0267	0.0244			8.035
3548.8	3499.9	2.109	43.9145	34.905	259.6	19.88	1.375	34.1	0.0436	0.0332			8.034
3696.8	3644.6	2.036	44.5646	34.899	259.9	19.96	1.359	35.3	0.0444	0.0332			8.034
3849.7	3794.1	1.954	45.2337	34.892	259.9	20.11	1.372	37.5	0.0513	0.0381			8.030
3997.6	3938.5	1.848	45.8806	34.880	255.8	20.82	1.433	42.9	0.0413	0.0274			8.024
4129.8	4067.5	1.677	46.4655	34.862	251.1	21.96	1.516	51.3	0.0264	0.0225			8.014
4300.9	4234.4	1.590	47.2071	34.852	249.5	22.35	1.552	54.5	0.0331	0.0244			8.010
4370.1	4301.9	1.546	47.5073	34.846	248.4	22.67	1.562	56.7	0.0354	0.0274			8.009

# Station 184



Station : 185 Campagne : CITHER 2  
 Date : 08-03-94 Heure : 2 h 11 mn  
 Position : N 3 2.54 W 36 57.16  
 Dernier niveau à : 4196  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
6.6	6.6	26.942	23.4822	35.953	199.8	r 0.00	0.053	1.6	1.6935	0.9691	2005.46	2363.3	8.386
51.5	51.2	26.910	23.6889	35.975	r 197.6	r 0.20	0.074	1.8	1.6810	0.9574	2010.50	2363.9	8.375
100.0	99.4	12.410	27.1169	35.204	r 151.1	r 18.43	1.306	8.7	1.3218	0.7048	2152.38	2328.9	8.054
149.3	148.4	12.005	27.3661	35.144	146.4	19.76	1.389	9.4	1.2386	0.6549	2156.65	2325.7	8.032
149.6	148.7	12.018	27.3657	35.148	146.1	19.76	1.392	9.4	1.2357	0.6579	2156.65	2325.9	8.032
200.1	198.9	11.578	27.6265	35.080	161.2	18.82	1.335	9.4	1.3101	0.6951	2148.80	2323.8	8.048
299.8	297.9	10.695	28.1636	34.991	139.0	22.83	1.589	11.5	0.9729	0.5162	2171.29	2319.3	7.980
399.8	397.2	9.736	28.7072	34.896	131.7	24.98	1.739	13.3	0.7417	0.4048	2182.09	2315.6	7.944
600.8	596.6	6.635	29.9145	34.629	115.5	33.37	2.279	22.7	0.1086	0.0626	2215.38	2308.5	7.831
700.7	695.7	5.454	30.4787	34.556	130.5	34.38	2.355	27.4	0.0460	0.0303	2219.11	2309.0	7.831
801.5	795.5	4.851	31.0345	34.577	141.3	34.03	2.335	30.4	0.0161	0.0108	2213.60	2314.8	7.840
1000.5	992.6	4.560	32.0640	34.684	157.8	31.67	2.163	30.0	0.0092	0.0049	2212.84	2319.5	7.875
1200.3	1190.3	4.536	33.0811	34.826	178.4	27.80	1.886	26.0	0.0114	0.0078	2198.26	2324.0	7.917
1401.3	1388.9	4.279	34.1204	34.951	217.0		1.535	20.4	0.0416	0.0244	2177.14	2326.8	
1500.1	1486.5	4.114	34.6043	34.970	229.7	21.49	1.433	19.2	0.0505	0.0323	2170.49	2327.6	7.996
1598.9	1584.0	3.926	35.0827	34.980	240.4	20.47	1.354	18.4	0.0518	0.0352	2165.10	2326.4	8.015
1700.0	1683.8	3.843	35.5484	34.979	243.7	20.08	1.327	18.3	0.0578	0.0391	2161.92	2328.5	8.016
1800.3	1782.7	3.616	36.0313	34.982	252.2	19.29	1.279	18.3	0.0625	0.0362	2160.44	2327.3	8.027
1998.9	1978.4	3.298	36.9560	34.971	255.2	19.26	1.271	20.5	0.0373	0.0244	2159.32	2328.3	8.030
2200.4	2176.8	3.094	37.8772	34.961	256.9	19.37	1.270	22.2	0.0323	0.0225	2160.41	2331.9	8.031
2399.5	2372.7	2.906	38.7843	34.954	258.3	19.49	1.278	23.7	0.0215	0.0215	2163.13	2332.7	8.033
2599.4	2569.2	2.702	39.6901	34.941	257.4	19.69	1.287	27.1	0.0215	0.0137	2166.29	2333.2	8.028
2798.3	2764.5	2.558	40.5797	34.929	254.3	20.44	1.346	31.4	0.0045	0.0059	2172.57	2337.7	8.024
3000.1	2962.5	2.432	41.4820	34.922	255.3	20.36	1.345	32.6	0.0103	0.0059	2172.95	2338.9	8.023
3200.2	3158.6	2.325	42.3697	34.916	254.9	20.56	1.355	34.1	0.0108	0.0068	2175.86	2342.0	8.024
3399.0	3353.3	2.228	43.2496	34.913	258.6	20.16	1.320	33.5	0.0217	0.0176	2171.40	2337.7	8.024
3548.5	3499.6	2.164	43.9080	34.911	260.2	19.85	1.314	33.0	0.0442	0.0293	2170.32	2338.4	8.026
3699.8	3647.6	2.070	44.5744	34.905	261.5	19.89	1.308	33.7	0.0540	0.0411	2169.88	2339.2	8.026
3847.7	3792.1	1.984	45.2228	34.900	260.5	20.12	1.338	36.1	0.0594	0.0352	2172.85	2340.0	8.022
3998.7	3939.6	1.882	45.8836	34.888	258.2	20.63	1.374	40.2	0.0515	0.0352	2178.84	2341.0	8.018
4099.6	4038.0	1.765	46.3281	34.874	254.6	21.58	1.440	46.7	0.0455	0.0303	2184.72	2347.6	8.010
4196.4	4132.5	1.576	46.7616	34.851	249.0	22.80	1.545	56.7	0.0282	0.0225	2196.62	2351.7	8.000

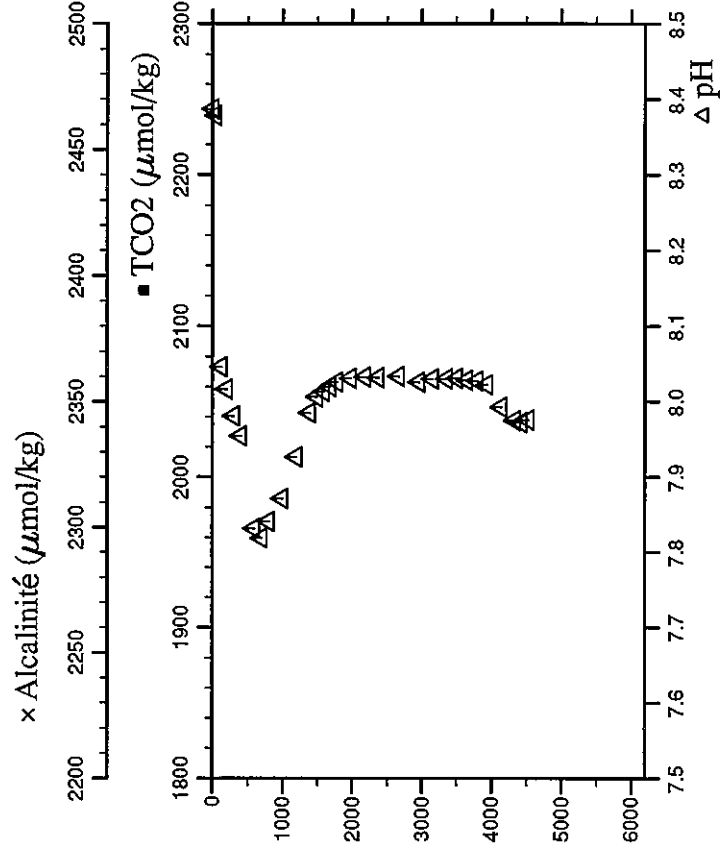
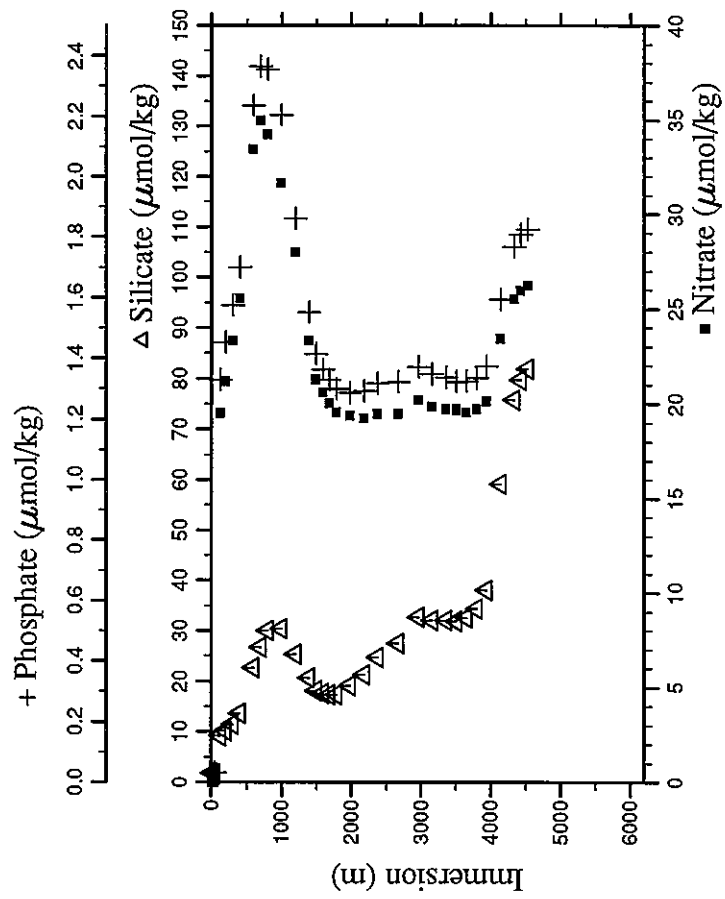
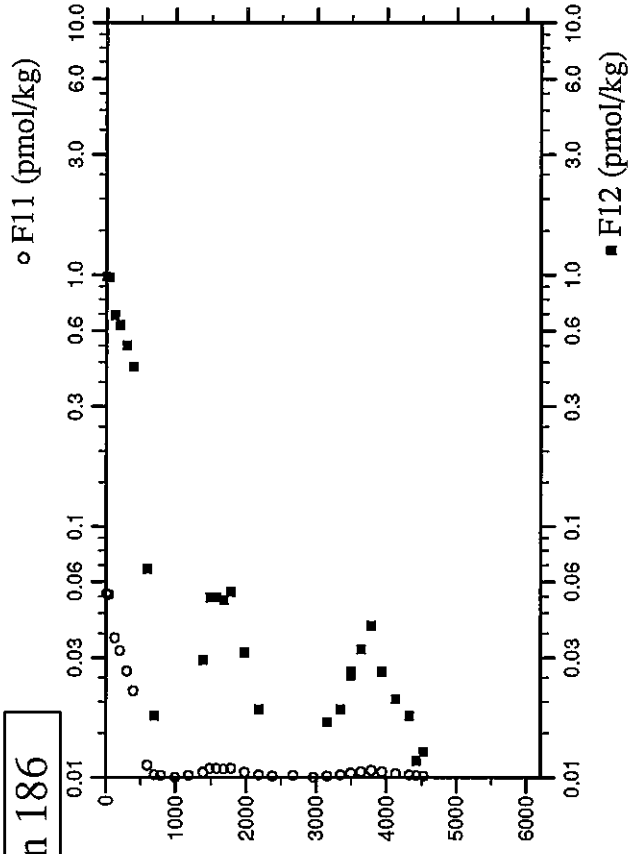
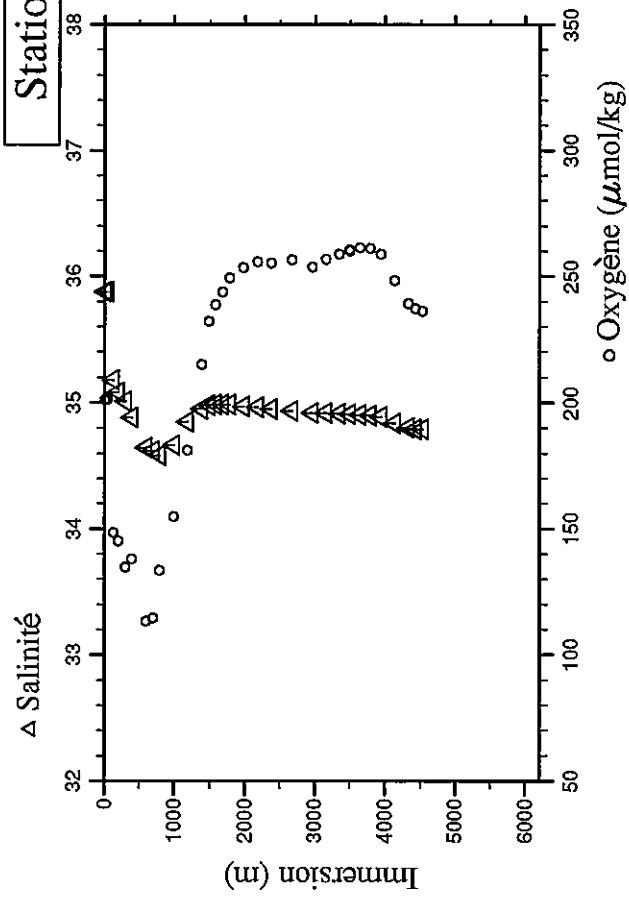


**Δ pH** (Right Y-axis, 7.5 to 8.5)

Station : 186 Campagne : CITHRER 2  
 Date : 08-03-94 Heure : 8 h 17 mn  
 Position : N 3 19.97 W 37 27.30  
 Dernier niveau à : 4602  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT. NITE	ALCALI- NITE	PH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.3	5.3	26.749	23.4826	35.879	201.0	0.00	0.030	1.8	1.7037	0.9809			8.387
41.2	41.0	26.740	23.6362	35.879	201.2	0.00	0.033	1.6	1.7013	0.9760			8.379
125.6	124.9	12.283	27.2344	35.180	148.4	19.54	1.329	9.2	1.2928	0.6901			8.046
201.7	200.5	11.509	27.6465	35.082	145.0	21.19	1.453	10.2	1.1756	0.6335			8.017
300.9	299.0	10.903	28.1503	35.012	134.7	23.32	1.574	11.5	0.9854	0.5240			7.981
400.3	397.7	9.684	28.7136	34.884	138.0	25.56	1.700	13.7	0.8014	0.4331			7.955
599.8	595.6	6.814	29.8961	34.646	113.4	33.47	2.237	22.7	0.1172	0.0675			7.832
700.4	695.4	5.944	30.4596	34.622	114.5	34.98	2.365	26.7	0.0262	0.0176			7.819
799.2	793.3	5.091	30.9960	34.586	133.3	34.23	2.354	30.1	0.0171	0.0088			7.841
1000.1	992.2	4.583	32.0414	34.668	154.7	31.67	2.204	30.4	0.0047	0.0049			7.872
1200.6	1190.5	4.544	33.1001	34.847	181.2	27.99	1.862	25.4	0.0211	0.0098			7.927
1399.1	1386.7	4.346	34.1014	34.950	214.9	23.33	1.551	20.7	0.0468	0.0293			7.985
1500.2	1486.6	4.192	34.5998	34.980	232.0	21.29	1.414	18.1	0.0871	0.0518			8.007
1600.0	1585.1	4.055	35.0724	34.986	238.6	20.62	1.364	17.6	0.0868	0.0518			8.013
1699.4	1683.2	3.935	35.5366	34.988	243.8	20.03	1.329	17.3	0.0817	0.0508			8.020
1798.1	1780.5	3.780	36.0003	34.989	249.4	19.56	1.299	17.4	0.0827	0.0547			8.026
1999.4	1978.9	3.456	36.9393	34.973	253.3	19.40	1.286	19.1	0.0469	0.0313			8.031
2201.1	2177.5	3.192	37.8680	34.966	255.6	19.25	1.293	21.3	0.0284	0.0186			8.033
2401.8	2375.0	2.921	38.7893	34.952	255.1	19.48	1.318	24.7	0.0114	0.0059			8.032
2999.8	2668.6	2.655	40.1419	34.937	256.4	19.48	1.322	27.5	0.0220	0.0088			8.034
3198.6	3157.0	2.443	41.4774	34.921	253.6	20.19	1.372	32.7	0.0048	0.0068			8.026
3398.0	3352.3	2.332	42.3638	34.920	256.7	19.88	1.349	32.1	0.0158	0.0166			8.030
3549.2	3500.3	2.247	43.2444	34.915	258.7	19.73	1.337	32.1	0.0272	0.0186			8.030
3550.2	3501.2	2.173	43.9103	34.911	260.0	19.65	1.323	31.8	0.0435	0.0254			8.031
3699.7	3647.4	2.174	43.9133	34.912	260.4	19.73	1.322	31.9	0.0447	0.0264			8.031
3850.0	3794.3	2.088	44.5719	34.905	261.2	19.57	1.325	32.6	0.0572	0.0323			8.029
3998.6	3939.4	1.993	45.2324	34.898	261.0	19.73	1.336	34.4	0.0658	0.0401			8.028
4198.9	4134.9	1.904	45.8808	34.890	258.7	20.13	1.373	38.1	0.0526	0.0264			8.023
4399.6	4330.6	1.476	46.7818	34.840	248.2	23.42	1.595	59.1	0.0375	0.0205			7.993
4500.0	4428.4	1.131	47.6768	34.804	239.2	25.51	1.768	75.8	0.0265	0.0176			7.975
4601.7	4527.5	1.067	48.1126	34.794	237.0	25.98	1.809	79.8	0.0199	0.0117			7.973
		1.026	48.5506	34.792	236.1	26.24	1.826	81.9	0.0139	0.0127			7.976

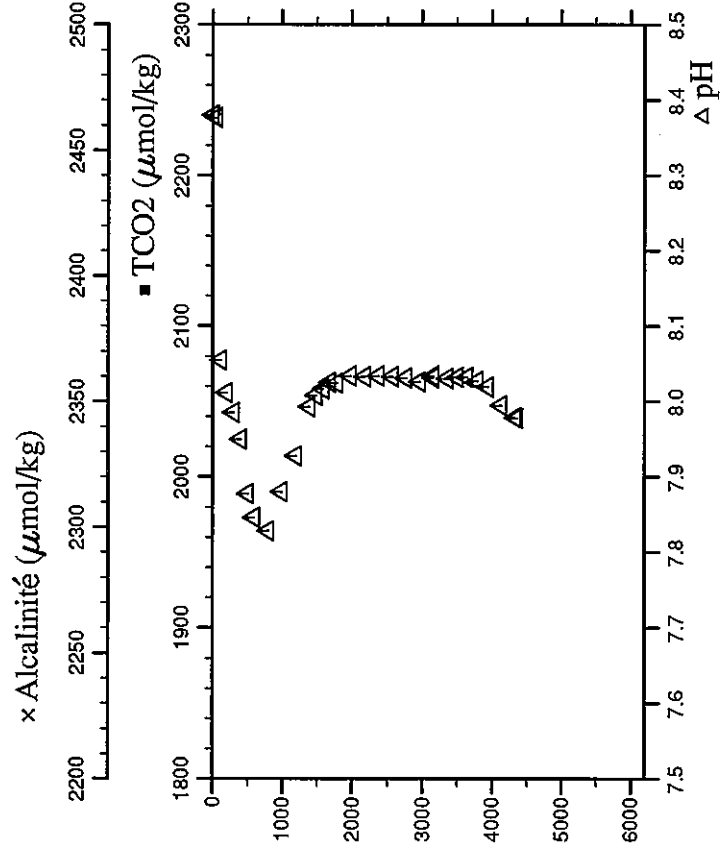
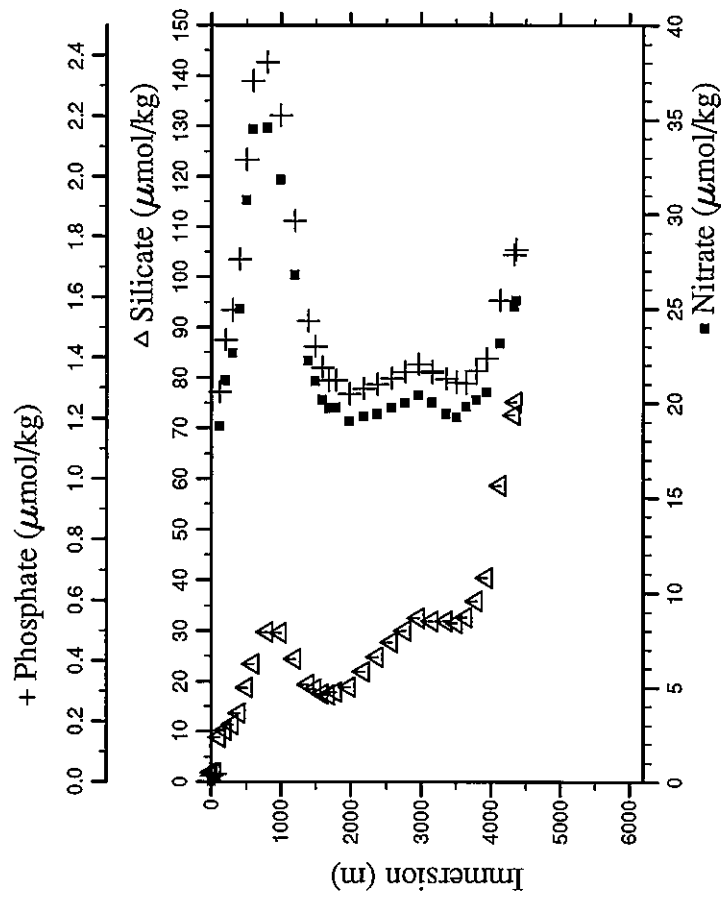
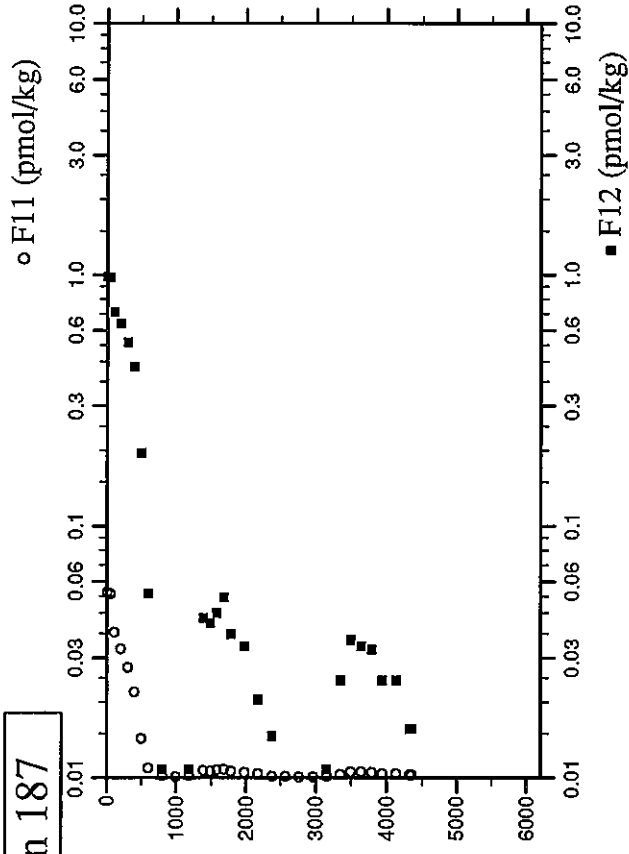
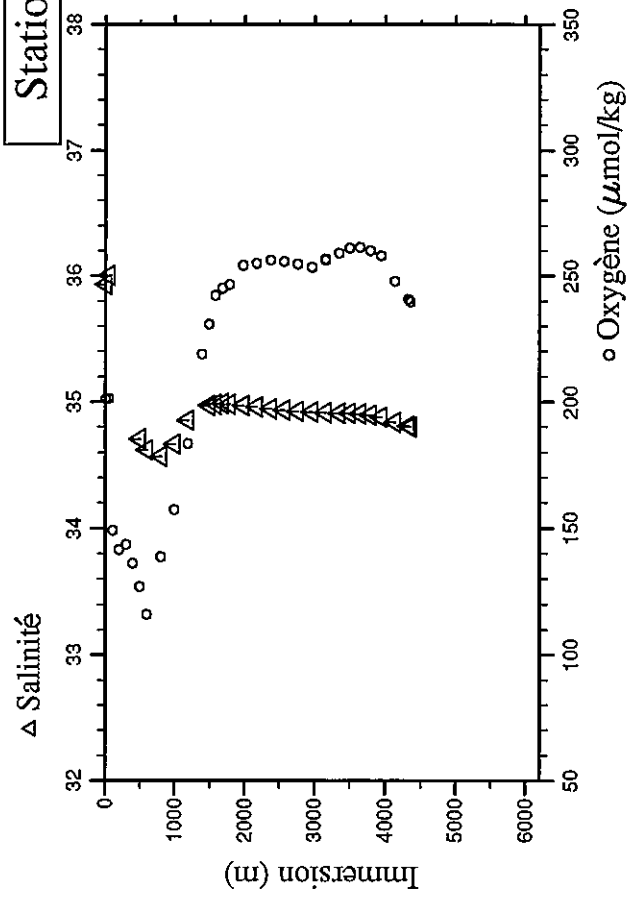
# Station 186



Station : 187 Campagne : CITHER 2  
 Date : 08-03-94 Heure : 14 h 30 mn  
 Position : N 3 37.58 W 37 57.35  
 Dernier niveau à : 4427  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.2	7.2	26.816	23.5108	35.935	201.0	0.04	0.020	1.8	1.7160	0.9789			8.380
51.2	50.9	26.608	23.8125	36.003	201.3	0.20	0.026	1.8	1.7044	0.9730			8.377
111.6	111.0	12.584	27.1426	35.237 r	149.2	18.79	1.286	8.8	1.3506	0.7096			8.055
201.0	199.8	11.701	27.6300	35.105 r	141.5	21.20	1.458	10.2	1.1318	0.6393			8.012
301.0	299.1	10.813	28.1596	35.000 r	143.6	22.66	1.559	11.4	1.0221	0.5357			7.985
401.1	398.5	9.776	28.7344	34.908 r	136.1	24.98	1.725	13.6	0.7964	0.4292			7.950
500.4	497.0	7.733	29.3525	34.705	126.9	30.73	2.056	18.7	0.3642	0.1946			7.878
599.6	595.4	6.452	29.9249	34.619	116.0	34.51	2.316	23.4	0.0909	0.0538			7.846
801.4	795.4	4.913	31.0198	34.568	138.8	34.56	2.377	29.8	0.0207	0.0108			7.829
1000.5	992.6	4.562	32.0503	34.668	157.3	31.83	2.203	29.7	0.0093	0.0059			7.880
1199.7	1189.7	4.545	33.1000	34.854	183.4	26.79	1.853	24.4	0.0180	0.0108			7.928
1400.3	1387.9	4.329	34.1136	34.964 r	218.7	22.22	1.521	19.4	0.0667	0.0430			7.993
1500.6	1487.0	4.133	34.6063	34.973	230.8	21.15	1.438	18.5	0.0615	0.0411			8.008
1601.0	1586.1	4.005	35.0828	34.982	242.1	20.16	1.367	17.5	0.0706	0.0450			8.017
1699.9	1683.7	3.888	35.5457	34.985	245.1	19.73	1.325	17.4	0.0816	0.0518			8.025
1799.6	1782.0	3.776	36.0048	34.981	246.6	19.76	1.324	17.9	0.0599	0.0372			8.024
1999.1	1978.6	3.449	36.9403	34.973	254.2	19.05	1.281	18.9	0.0523	0.0332			8.034
2197.6	2174.1	3.148	37.8567	34.962	254.9	19.29	1.297	21.9	0.0356	0.0205			8.033
2399.7	2372.9	2.862	38.7882	34.948	256.1	19.44	1.312	24.9	0.0154	0.0147			8.034
2599.7	2569.5	2.666	39.6950	34.935	255.7	19.76	1.331	27.8	0.0123	0.0088			8.033
2797.6	2763.8	2.544	40.5794	34.927	254.6	19.99	1.353	30.0	0.0087	0.0059			8.031
2999.0	2961.4	2.449	41.4738	34.920	253.4	20.39	1.377	32.6	0.0058	0.0049			8.026
3198.2	3156.6	2.341	42.3607	34.918	256.7	20.03	1.354	32.0	0.0140	0.0108			8.034
3199.0	3157.4	2.339	42.3641	34.918	256.3	19.99	1.351	32.0	0.0169	0.0098			8.031
3398.9	3353.2	2.212	43.2520	34.911	259.1	19.44	1.329	31.9	0.0330	0.0244			8.030
3548.7	3499.8	2.138	43.9123	34.910	260.9	19.24	1.318	31.6	0.0544	0.0352			8.032
3698.6	3646.4	2.075	44.5693	34.904	261.3	19.79	1.315	32.7	0.0542	0.0332			8.032
3849.1	3793.4	1.964	45.2316	34.893	259.9	20.18	1.356	35.9	0.0489	0.0323			8.027
3998.5	3939.3	1.814	45.8911	34.881	257.9	20.58	1.397	40.5	0.0364	0.0244			8.019
4198.0	4134.0	1.465	46.7798	34.840	247.9	23.16	1.589	58.6	0.0364	0.0244			7.995
4397.3	4328.3	1.205	47.6594	34.808	240.7	25.13	1.741	72.6	0.0259	0.0156			7.979
4426.7	4357.0	1.151	47.7908	34.802	239.6	25.43	1.758	75.2	0.0242	0.0156			7.978

# Station 187

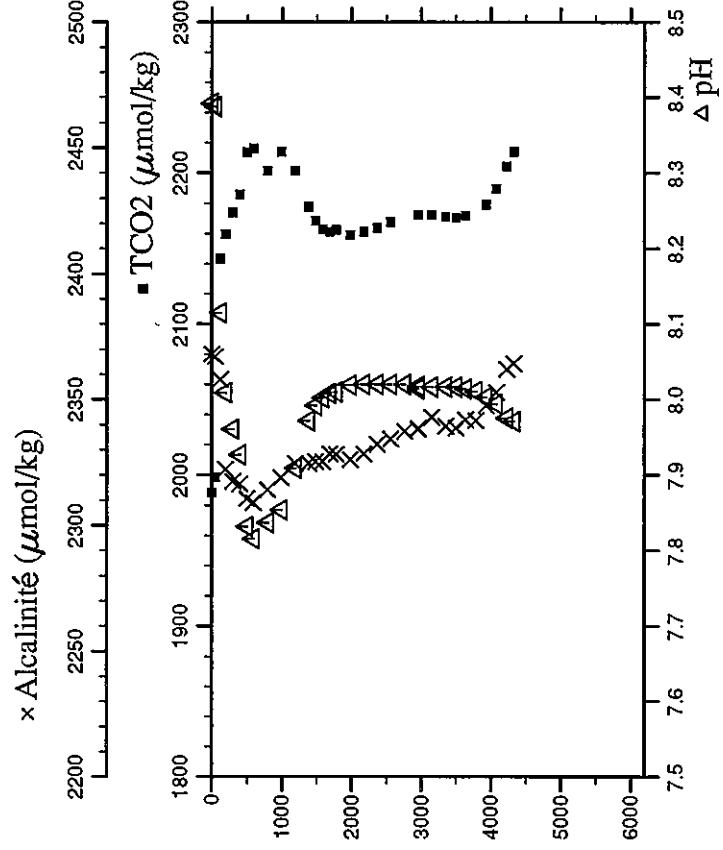
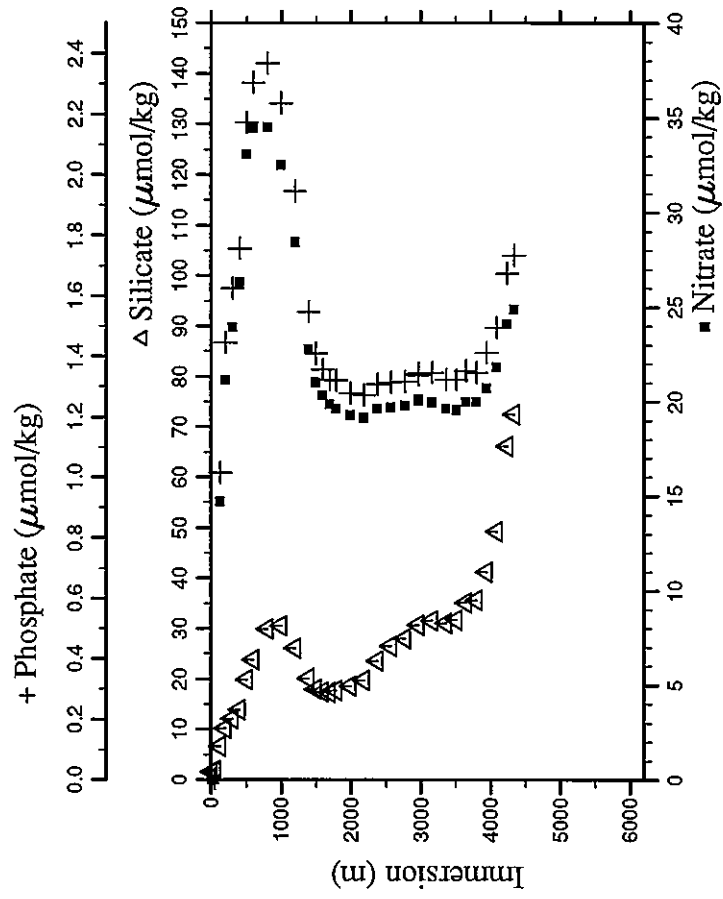
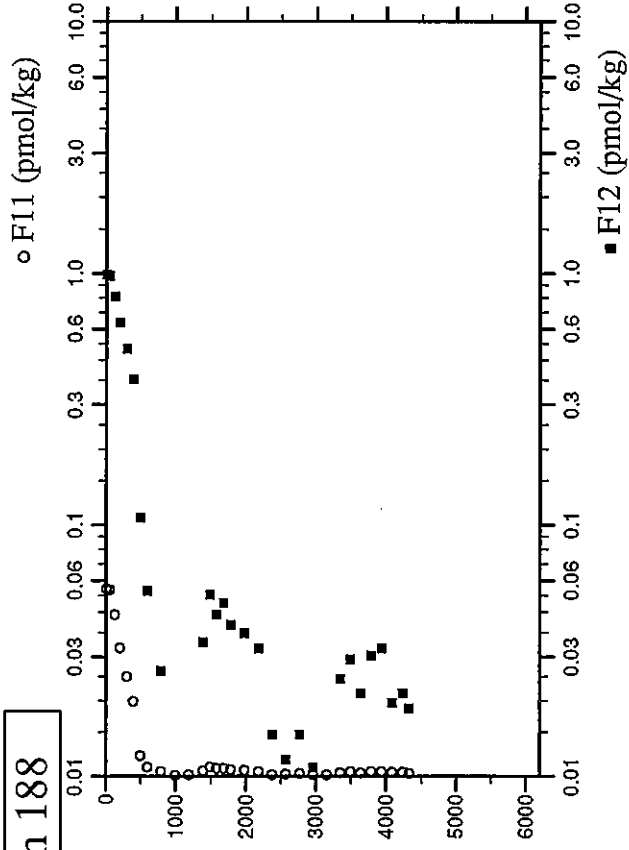
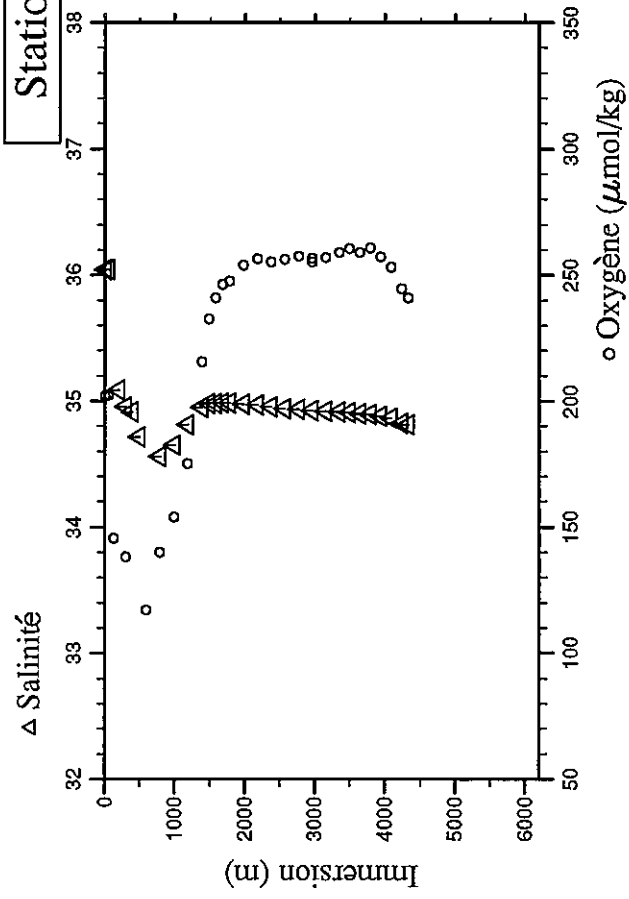




Station : 188 Campagne : CITHER 2  
 Date : 08-03-94 Heure : 20 h 43 mn  
 Position : N 3 55.00 W 38 27.60  
 Dernier niveau à : 4402  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	PH
dbar	metres	deg. cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.9	5.9	26.637	23.6457	36.046	202.0	0.00	0.003	1.6	1.7398	0.9886	1988.40	2368.0	8.392
51.0	50.7	26.564	23.8564	36.043	202.3	0.00	0.003	1.8	1.7368	0.9779	1998.63	2366.9	8.388
126.4	125.7	16.623	26.7893	35.780	r	14.72	1.015	6.6	1.5043	0.8100	2143.55	2357.9	8.115
201.3	200.1	11.512	27.6498	35.086	r	21.16	1.446	10.2	1.1934	0.6344	2159.39	2322.2	8.009
301.1	299.2	10.425	28.1964	34.958	r	23.93	1.626	12.1	0.9253	0.4996	2173.95	2317.3	7.961
400.3	397.7	9.621	28.7538	34.918	r	26.33	1.758	13.9	0.6990	0.3774	2185.59	2316.3	7.927
502.9	499.5	7.627	29.3870	34.718	r	33.08	2.172	19.9	0.1905	0.1066	2213.69	2310.5	7.832
599.9	595.7	6.399	29.9428	34.622	r	34.49	2.303	23.8	0.0840	0.0548	2216.20	2309.1	7.816
800.3	794.4	4.965	30.9978	34.558	r	34.50	2.367	29.9	0.0423	0.0264	2201.24	2314.2	7.837
1001.1	993.2	4.578	32.0357	34.652	r	32.52	2.235	30.5	0.0066	0.0059	2214.13	2318.8	7.854
1200.5	1190.4	4.566	33.0660	34.813	r	28.44	1.945	26.1	0.0124	0.0098	2201.27	2324.5	7.909
1399.7	1387.3	4.345	34.1040	34.951	r	22.78	1.548	20.1	0.0519	0.0342	2177.91	2324.5	7.972
1500.3	1486.7	4.174	34.6030	34.980	r	21.03	1.410	18.0	0.0865	0.0528	2168.22	2325.3	7.992
1600.7	1585.8	3.995	35.0830	34.984	r	20.33	1.357	17.5	0.0754	0.0440	2162.86	2325.3	8.002
1701.4	1685.1	3.865	35.5539	34.986	r	19.87	1.322	17.4	0.0724	0.0489	2161.34	2328.4	8.008
1799.9	1782.3	3.782	36.0057	34.985	r	19.64	1.321	17.7	0.0613	0.0401	2162.32	2328.1	8.019
2000.6	1980.1	3.494	36.9414	34.977	r	19.29	1.279	18.6	0.0557	0.0372	2158.90	2326.1	8.010
2399.5	2372.7	3.294	37.8549	34.973	r	19.14	1.272	19.8	0.0430	0.0323	2161.30	2328.3	8.020
2598.4	2568.2	3.028	38.7663	34.957	r	19.62	1.308	23.6	0.0155	0.0147	2163.55	2332.1	8.020
2800.7	2766.8	2.746	40.5907	34.934	r	19.71	1.315	26.5	0.0169	0.0117	2167.41	2334.3	8.020
2999.4	2961.8	2.490	41.4723	34.928	r	20.04	1.317	28.0	0.0234	0.0147	2157.61	2337.3	8.020
2999.5	2961.9	2.491	41.4717	34.926	r	20.15	1.338	30.7	0.0121	0.0108	2172.33	2338.6	8.018
3199.1	3157.5	2.369	42.3609	34.921	r	20.15	1.344	30.7	0.0118	0.0098	2172.00	2338.0	8.014
3398.6	3352.9	2.279	43.2431	34.916	r	19.97	1.347	31.6	0.0160	0.0059	2172.00	2342.7	8.017
3548.8	3499.9	2.184	43.9071	34.913	r	19.62	1.323	31.1	0.0321	0.0244	2170.87	2339.2	8.017
3697.9	3645.7	2.061	44.5655	34.902	r	19.55	1.323	31.7	0.0460	0.0293	2170.67	2338.5	8.017
3848.7	3793.0	1.980	45.2271	34.895	r	20.00	1.346	35.1	0.0291	0.0215	2171.57	2341.8	8.014
3998.3	3939.1	1.847	45.8862	34.882	r	20.71	1.411	35.7	0.0435	0.0303	2160.79	2341.6	8.011
4146.9	4084.2	1.660	46.5422	34.863	r	21.82	1.494	41.2	0.0454	0.0323	2178.79	2347.5	8.003
4298.4	4231.9	1.329	47.2236	34.825	r	24.11	1.675	49.3	0.0405	0.0196	2189.59	2352.8	7.994
4400.1	4331.0	1.215	47.6699	34.813	r	24.87	1.733	72.5	0.0350	0.0215	2204.47	2361.8	7.975
									0.0259	0.0186	2213.97	2364.1	7.971

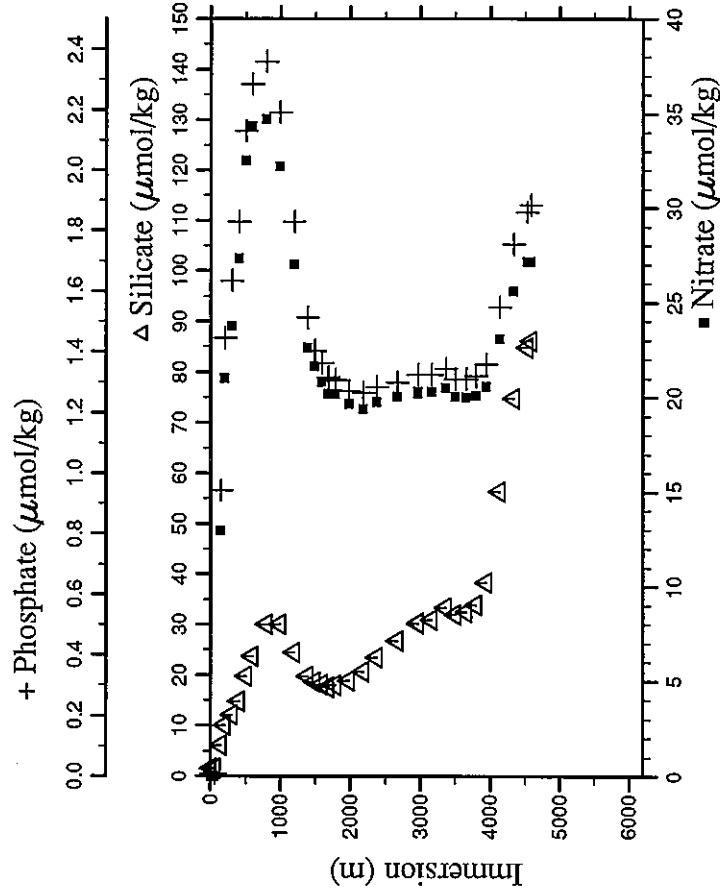
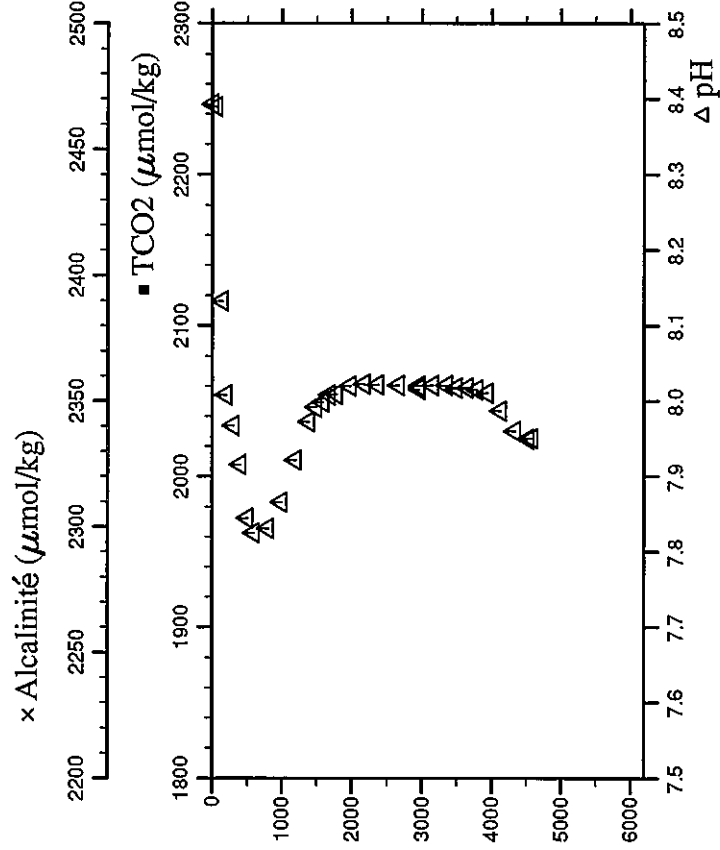
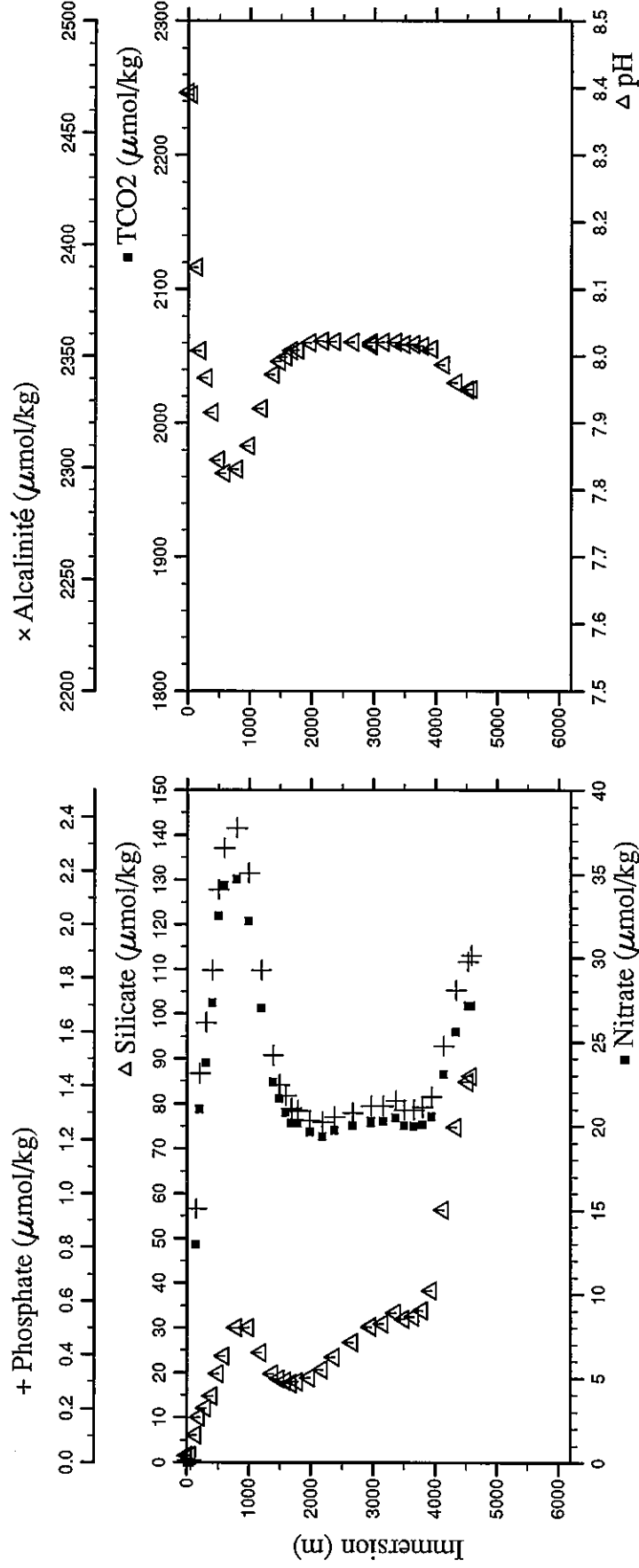
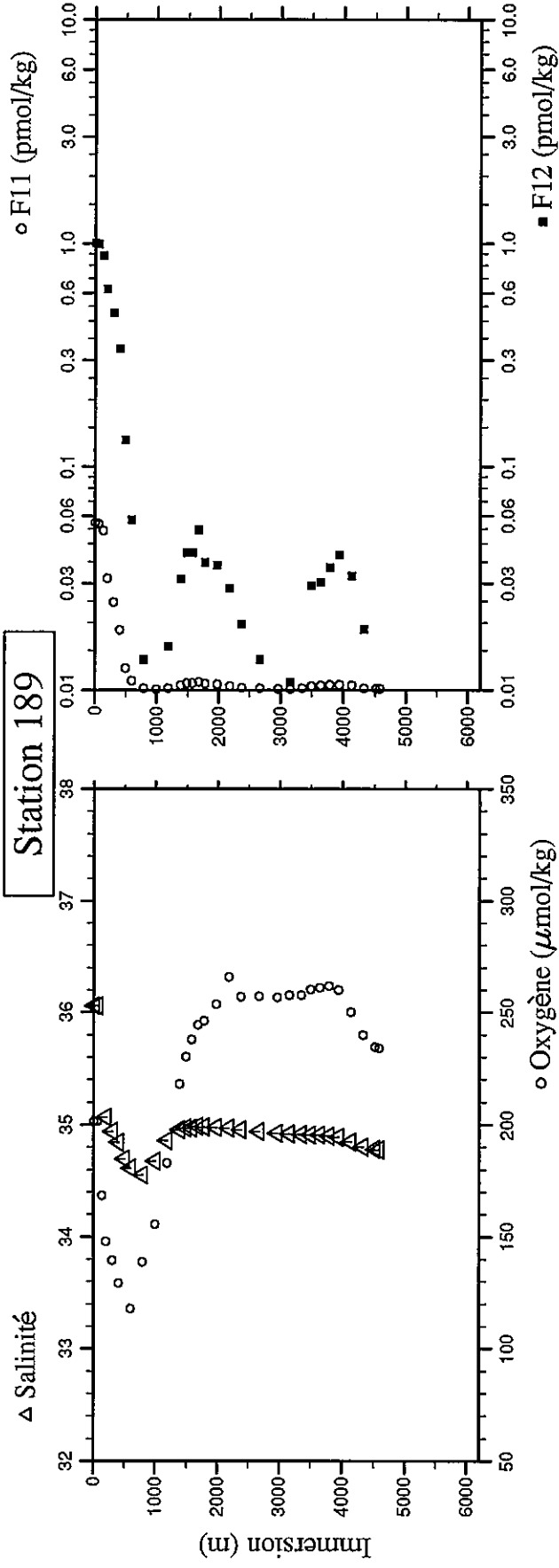
# Station 188



Station : 189 Campagne : CITHER 2  
 Date : 09-03-94 Heure : 2 h 51 mn  
 Position : N 4 12.54 W 38 57.78  
 Dernier niveau à : 4659  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT, NITE	ALCALI-	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
3.7	3.7	26.527	23.6815	36.061	201.6	0.00	0.009	1.6	1.7461	1.0052			8.393
61.3	61.0	26.509	23.9321	36.062	201.6	0.00	0.009	1.6	1.7367	0.9915			8.390
139.8	139.0	15.285	26.9836	35.579	r	12.96	0.944	6.1	1.6629	0.8814			8.133
198.4	197.2	11.371	27.6451	35.068	148.0	21.00	1.446	10.1	1.1623	0.6266			8.008
301.8	299.9	10.293	28.2100	34.943	139.6	23.77	1.635	12.1	0.9168	0.4898			7.968
402.2	399.6	9.135	28.7876	34.844	129.2	27.31	1.829	14.8	0.6225	0.3373			7.916
500.7	497.3	7.563	29.3760	34.699	115.4	32.52	2.131	19.8	0.2294	0.1320			7.845
600.7	596.5	6.454	29.9268	34.614	118.0	34.35	2.285	23.7	0.0980	0.0577			7.825
799.9	794.0	4.979	30.9946	34.557	138.6	34.72	2.360	30.1	0.0205	0.0137			7.831
1000.7	992.8	4.603	32.0503	34.679	155.5	32.21	2.191	30.1	0.0052	0.0039			7.866
1200.6	1190.5	4.628	33.0941	34.862	183.0	27.02	1.830	24.5	0.0236	0.0156			7.922
1400.0	1387.6	4.316	34.1103	34.954	218.0	22.60	1.513	19.8	0.0515	0.0313			7.973
1500.0	1486.4	4.188	34.5946	34.974	230.2	21.62	1.404	18.6	0.0712	0.0411			7.992
1599.8	1584.9	4.039	35.0688	34.974	238.0	20.80	1.363	18.1	0.0707	0.0411			7.999
1700.2	1684.0	3.928	35.5384	34.987	244.4	20.21	1.316	17.6	0.0848	0.0518			8.008
1799.8	1782.2	3.818	35.9970	34.983	246.3	20.18	1.309	18.0	0.0648	0.0372			8.009
1999.2	1978.7	3.520	36.9289	34.977	253.6	19.67	1.273	18.9	0.0588	0.0362			8.020
2199.7	2176.1	3.240	37.8571	34.969	265.9	19.40	1.266	20.6	0.0443	0.0284			8.023
2400.0	2373.2	2.981	38.7744	34.956	257.1	19.76	1.284	23.5	0.0229	0.0196			8.022
2700.8	2668.7	2.718	40.1339	34.940	257.1	20.05	1.300	26.8	0.0206	0.0137			8.021
2999.4	2961.8	2.505	41.4706	34.928	256.6	20.30	1.324	30.2	0.0144	0.0088			8.016
2999.7	2962.0	2.505	41.4718	34.928	256.7	20.21	1.324	30.3	0.0137	0.0088			8.020
3198.6	3157.0	2.397	42.3545	34.923	257.7	20.31	1.326	31.0	0.0167	0.0108			8.021
3398.1	3352.4	2.271	43.2387	34.915	257.7	20.51	1.345	33.3	0.0206	0.0098			8.021
3547.7	3498.8	2.207	43.8975	34.912	260.2	20.04	1.311	32.0	0.0436	0.0293			8.018
3699.4	3647.1	2.137	44.5629	34.909	261.1	20.01	1.310	32.5	0.0508	0.0303			8.018
3847.3	3791.6	2.019	45.2170	34.901	261.7	20.10	1.321	33.9	0.0572	0.0352			8.015
3999.2	3940.0	1.902	45.8833	34.889	260.1	20.58	1.359	38.3	0.0566	0.0401			8.011
4197.7	4133.7	1.534	46.7705	34.847	250.2	23.09	1.548	56.3	0.0465	0.0323			7.987
4399.5	4330.4	1.163	47.6707	34.804	239.8	25.58	1.756	74.8	0.0218	0.0186			7.960
4597.8	4523.6	0.971	48.5377	34.782	234.7	27.14	1.861	84.8	0.0147	0.0059			7.950
4657.2	4581.4	0.941	48.7938	34.779	234.0	27.16	1.884	86.1	0.0110	0.0059			7.951

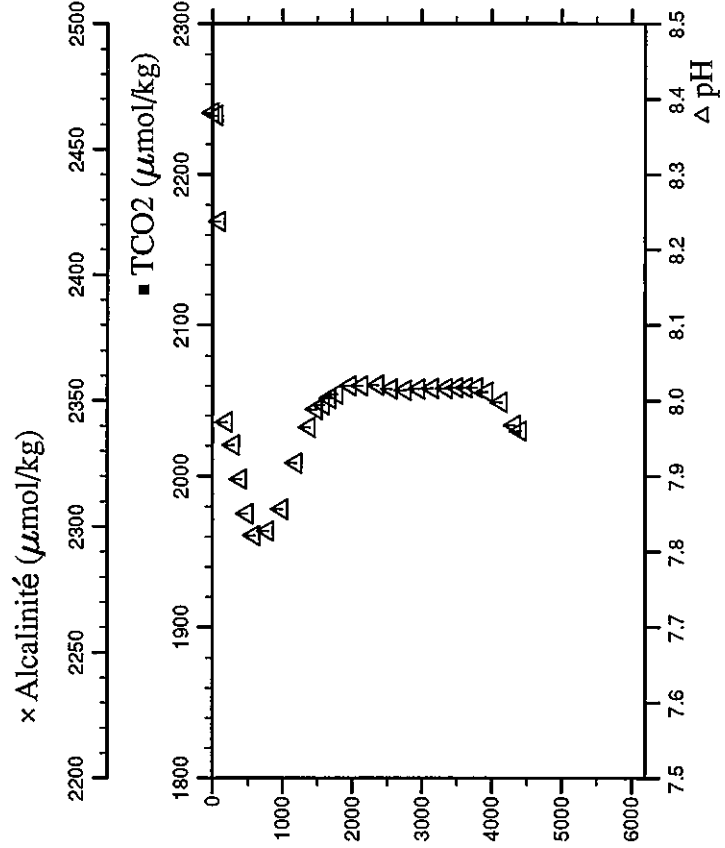
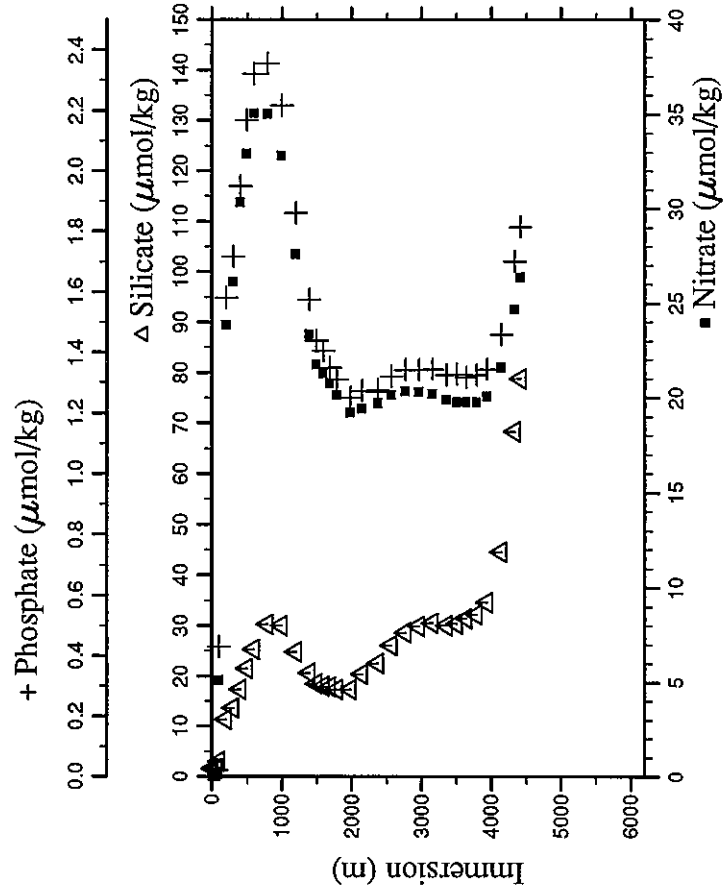
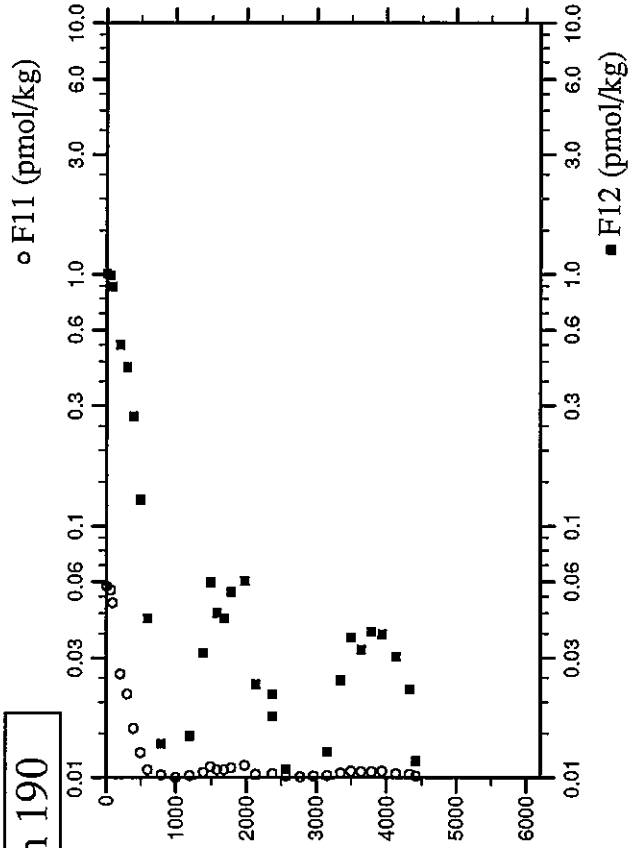
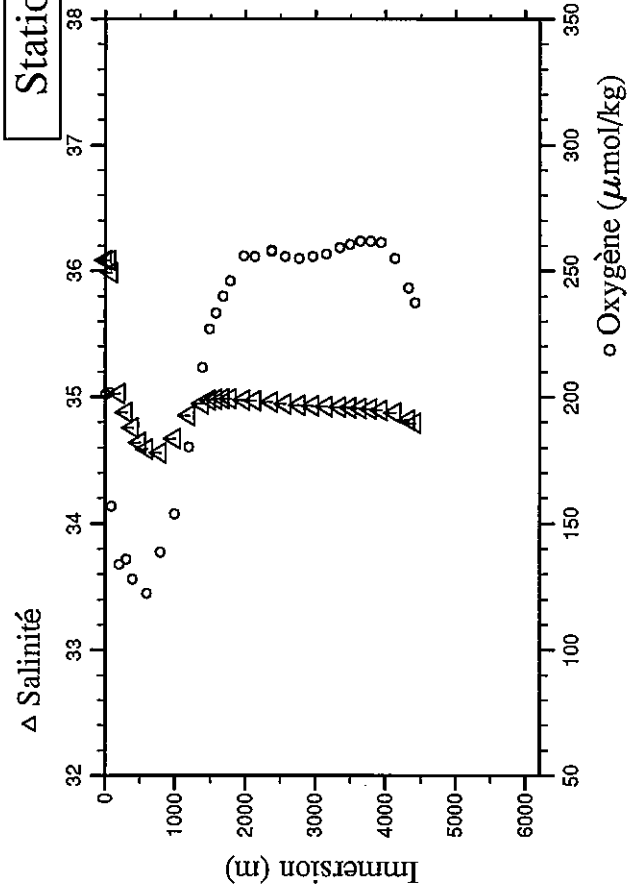
# Station 189



Station : 190 Campagne : CITHHER 2  
 Date : 09-03-94 Heure : 9 h 1 mn  
 Position : N 4 29.92 W 39 27.96  
 Dernier niveau à : 4491  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI-NITE	pH
dbar	metres	deg. cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.7	5.7	26.304	23.7812	36.084	201.1	0.00	0.024	1.6	1.7735	1.0062			8.382
60.5	60.2	26.300	24.0138	36.084	201.9	0.00	0.021	1.6	1.7415	0.9866			8.379
93.8	93.3	23.125	25.0422	35.987	156.7	5.13	0.430	3.0	1.6217	0.8939			8.238
199.6	198.4	10.933	27.7052	35.028	133.9	23.85	1.582	11.4	0.9646	0.5240			7.972
301.4	299.5	9.694	28.2695	34.880	136.0	26.12	1.717	13.6	0.7815	0.4273			7.941
400.7	398.1	8.247	28.8589	34.760	128.0	30.34	1.951	17.3	0.4586	0.2718			7.896
500.0	496.6	6.898	29.4250	34.640	127.7	32.93	2.168	21.5	0.2304	0.1271			7.851
601.9	597.7	6.069	29.9716	34.591	122.4	35.04	2.320	25.3	0.0716	0.0430			7.822
796.3	790.4	4.982	30.9815	34.562	138.7	35.02	2.354	30.3	0.0237	0.0137			7.828
1000.5	992.6	4.681	32.0364	34.671	153.8	32.81	2.218	30.1	0.0045	0.0020			7.857
1200.8	1190.7	4.648	33.0887	34.854	180.1	27.60	1.862	24.9	0.0222	0.0147			7.918
1399.1	1386.7	4.385	34.0933	34.945	211.8	23.36	1.575	20.7	0.0480	0.0313			7.965
1500.2	1486.6	4.320	34.5804	34.979	227.0	21.76	1.440	18.5	0.1023	0.0596			7.989
1600.3	1585.4	4.131	35.0580	34.981	233.4	21.29	1.406	18.0	0.0726	0.0450			7.995
1699.5	1683.3	4.001	35.5246	34.985	239.9	20.76	1.351	17.8	0.0722	0.0430			8.003
1799.3	1781.7	3.888	35.9905	34.989	246.1	20.14	1.310	17.4	0.0915	0.0547			8.009
1999.5	1979.0	3.560	36.9310	34.979	255.9	19.23	1.250	17.4	0.1137	0.0606			8.020
2161.2	2138.2	3.266	37.6838	34.969	255.6	19.44	1.273	20.4	0.0321	0.0235			8.020
2399.4	2372.6	3.025	38.7699	34.963	258.2	19.73	1.276	22.5	0.0372	0.0215			8.021
2399.7	2372.9	3.029	38.7718	34.961	257.6	19.71	1.270	22.6	0.0348	0.0176			8.021
2597.9	2567.7	2.804	39.6707	34.948	255.8	20.12	1.321	26.1	0.0146	0.0108			8.016
2799.5	2755.6	2.656	40.5749	34.937	254.8	20.35	1.343	28.7	0.0099	0.0039			8.016
2999.9	2962.2	2.521	41.4718	34.932	255.8	20.30	1.342	29.9	0.0115	0.0088			8.016
3200.0	3158.4	2.425	42.3595	34.926	256.8	20.21	1.344	30.5	0.0188	0.0127			8.017
3399.7	3353.9	2.333	43.2415	34.921	259.2	19.90	1.324	30.1	0.0454	0.0244			8.017
3550.1	3501.1	2.235	43.9073	34.918	260.4	19.76	1.327	30.4	0.0587	0.0362			8.018
3698.9	3646.6	2.131	44.5642	34.910	261.7	19.76	1.317	31.5	0.0543	0.0323			8.018
3848.0	3792.3	2.061	45.2171	34.905	261.8	19.76	1.325	32.2	0.0575	0.0381			8.018
3998.7	3939.5	1.962	45.8773	34.897	261.2	20.07	1.344	34.6	0.0598	0.0372			8.012
4199.6	4135.5	1.765	46.7570	34.875	255.0	21.59	1.458	44.5	0.0392	0.0303			7.998
4397.9	4328.9	1.276	47.6573	34.819	243.2	24.69	1.699	68.3	0.0331	0.0225			7.968
4489.4	4418.0	1.078	48.0660	34.796	237.4	26.37	1.815	78.7	0.0168	0.0117			7.960

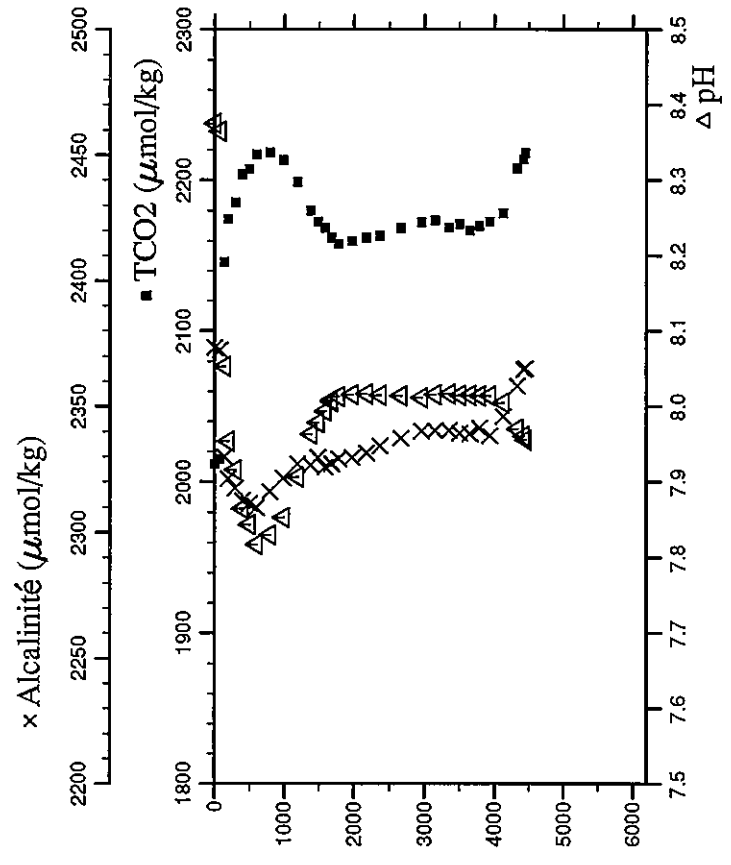
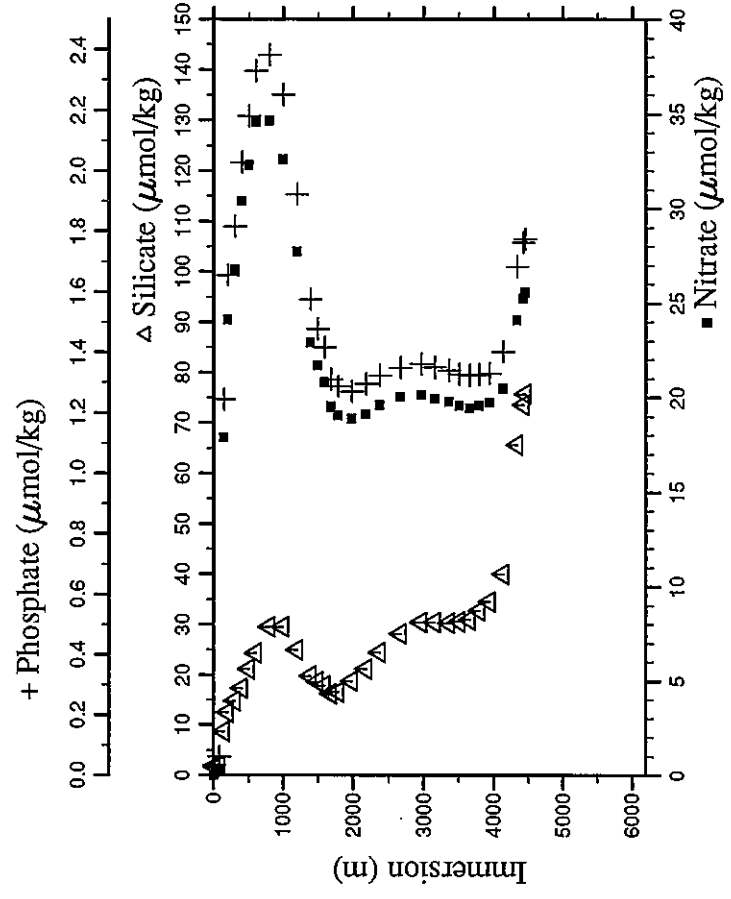
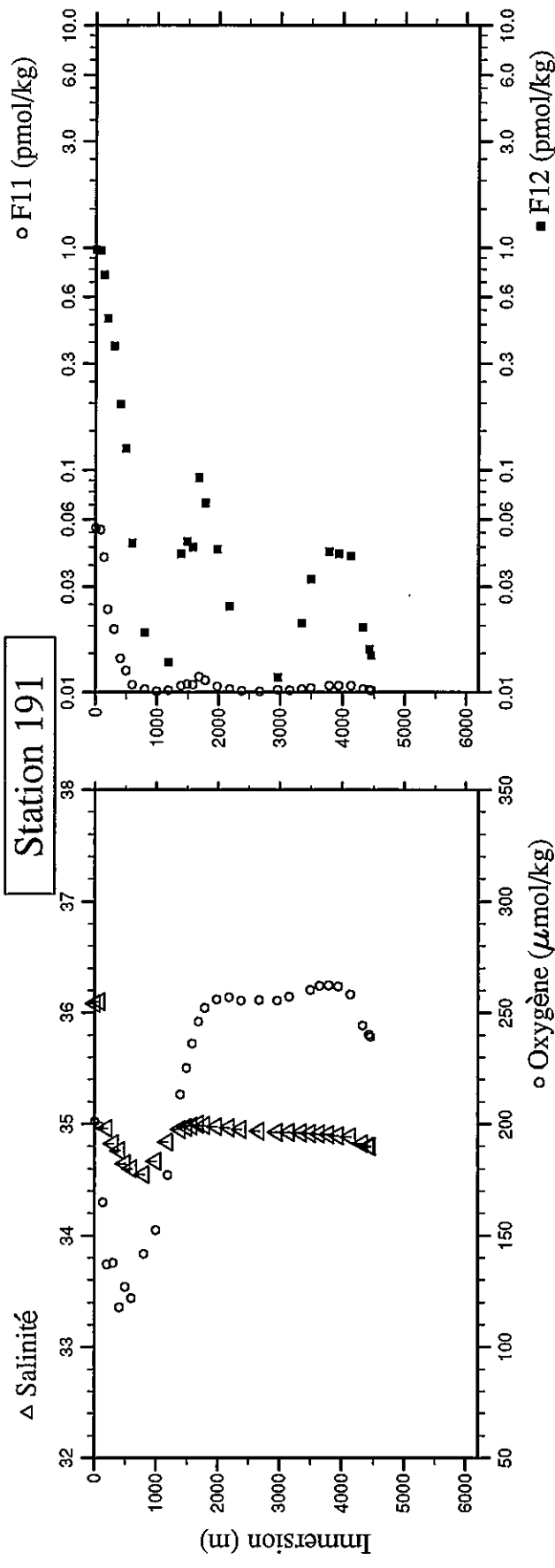
# Station 190



Station : 191 Campagne : CITHER 2  
 Date : 09-03-94 Heure : 15 h 3 mn  
 Position : N 4 47.50 W 39 58.15  
 Dernier niveau à : 4527  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI-NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.1	7.1	26.466	23.7353	36.086	201.1	0.00	0.035	1.7	1.7303	0.9806	2012.10	2373.3	8.375
81.8	81.3	26.332	24.1069	36.102	198.9	0.20	0.062	1.8	1.7110	0.9708	2014.97	2372.3	8.365
141.0	140.2	12.101	27.3150	35.178	164.8	17.89	1.245	8.7	1.4187	0.7555	2146.00	2329.9	8.053
201.8	200.6	10.341	27.7667	34.960	137.0	24.13	1.655	12.5	0.8753	0.4800	2174.31	2321.1	7.954
300.3	298.4	9.096	28.3193	34.822	137.8	26.78	1.817	14.8	0.6667	0.3607	2185.20	2317.3	7.916
401.4	398.8	8.255	28.8685	34.764	118.0	30.39	2.029	17.3	0.3600	0.1975	2203.80	2312.5	7.865
501.2	497.8	6.942	29.4259	34.645	127.1	32.32	2.180	21.1	0.2292	0.1252	2207.45	2311.4	7.844
602.7	598.5	6.172	29.9620	34.599	122.0	34.56	2.329	24.3	0.0812	0.0469	2217.07	2309.7	7.818
800.9	794.9	4.972	30.9962	34.552	141.7	34.66	2.382	29.5	0.0336	0.0186	2218.18	2316.0	7.830
1000.0	992.1	4.672	32.0298	34.666	152.4	32.62	2.251	29.5	0.0080	0.0049	2213.30	2321.5	7.853
1199.6	1189.5	4.645	33.0708	34.837	177.1	27.74	1.922	25.0	0.0199	0.0137	2199.00	2327.1	7.907
1400.3	1387.9	4.447	34.0926	34.953	213.2	22.90	1.575	19.8	0.0674	0.0420	2179.91	2326.6	7.963
1501.3	1487.6	4.303	34.5846	34.972	225.1	21.70	1.478	18.6	0.0853	0.0479	2172.63	2329.6	7.979
1600.4	1585.5	4.128	35.0609	34.980	236.1	20.83	1.416	17.8	0.0776	0.0450	2168.20	2325.9	7.994
1699.9	1683.6	4.017	35.5332	34.996	245.9	19.48	1.311	16.3	0.1613	0.0929	2162.10	2327.0	8.007
1700.1	1683.8	4.018	35.5340	34.996	246.0	19.52	1.311	16.2	0.1596	0.0919	2162.10	2327.4	8.008
1801.2	1783.5	3.787	36.0161	34.986	252.1	19.04	1.287	16.6	0.1242	0.0714	2157.92	2329.0	8.013
1999.5	1979.0	3.422	36.9468	34.979	255.9	18.88	1.270	18.7	0.0635	0.0440	2159.84	2329.6	8.016
2199.9	2176.3	3.126	37.8726	34.965	256.9	19.12	1.295	21.2	0.0294	0.0244	2162.19	2331.5	8.017
2399.7	2372.9	2.894	38.7846	34.950	255.3	19.60	1.322	24.5	0.0165	0.0088	2163.30	2334.3	8.015
2699.5	2667.4	2.653	40.1365	34.936	255.6	20.03	1.349	28.2	0.0076	0.0049	2168.51	2337.3	8.014
2999.7	2962.0	2.489	41.4743	34.925	255.3	20.15	1.362	30.4	0.0252	0.0117	2172.09	2340.0	8.012
3199.7	3158.1	2.407	42.3610	34.927	257.1	19.92	1.350	30.4	0.0178	0.0088	2173.26	2340.3	8.016
3398.7	3352.9	2.336	43.2370	34.921	257.1	19.76	1.339	30.3	0.0311	0.0205	2168.74	2340.2	8.017
3549.0	3500.0	2.249	43.9008	34.916	260.2	19.56	1.327	30.5	0.0461	0.0323	2170.91	2339.3	8.015
3698.4	3647.1	2.141	44.5653	34.911	262.1	19.44	1.323	30.9	0.0651	0.0430	2166.60	2338.9	8.015
3849.2	3793.5	2.012	45.2286	34.903	262.3	19.56	1.325	32.7	0.0651	0.0430	2169.82	2341.2	8.014
3998.3	3939.1	1.948	45.8773	34.897	261.8	19.74	1.329	34.5	0.0691	0.0420	2172.42	2338.2	8.014
4198.0	4134.0	1.813	46.7478	34.884	258.2	20.47	1.402	40.0	0.0679	0.0411	2178.07	2345.8	8.005
4398.9	4329.8	1.308	47.6553	34.824	244.2	24.09	1.684	65.6	0.0324	0.0196	2207.99	2358.2	7.970
4500.7	4429.0	1.157	48.1067	34.806	240.1	25.25	1.763	73.5	0.0233	0.0156	2213.53	2364.8	7.961
4523.2	4450.9	1.124	48.2056	34.800	239.2	25.56	1.774	75.7	0.0212	0.0147	2217.77	2364.9	7.956

Station 191

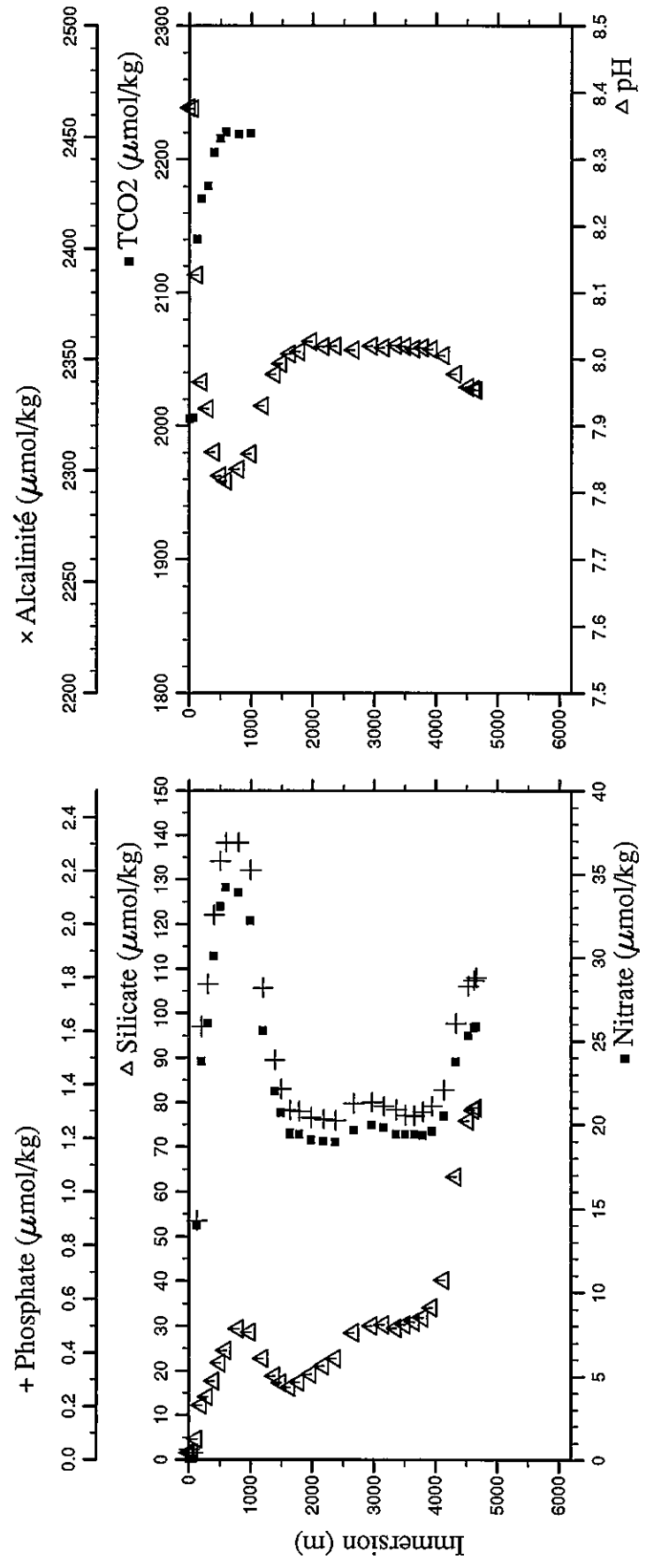
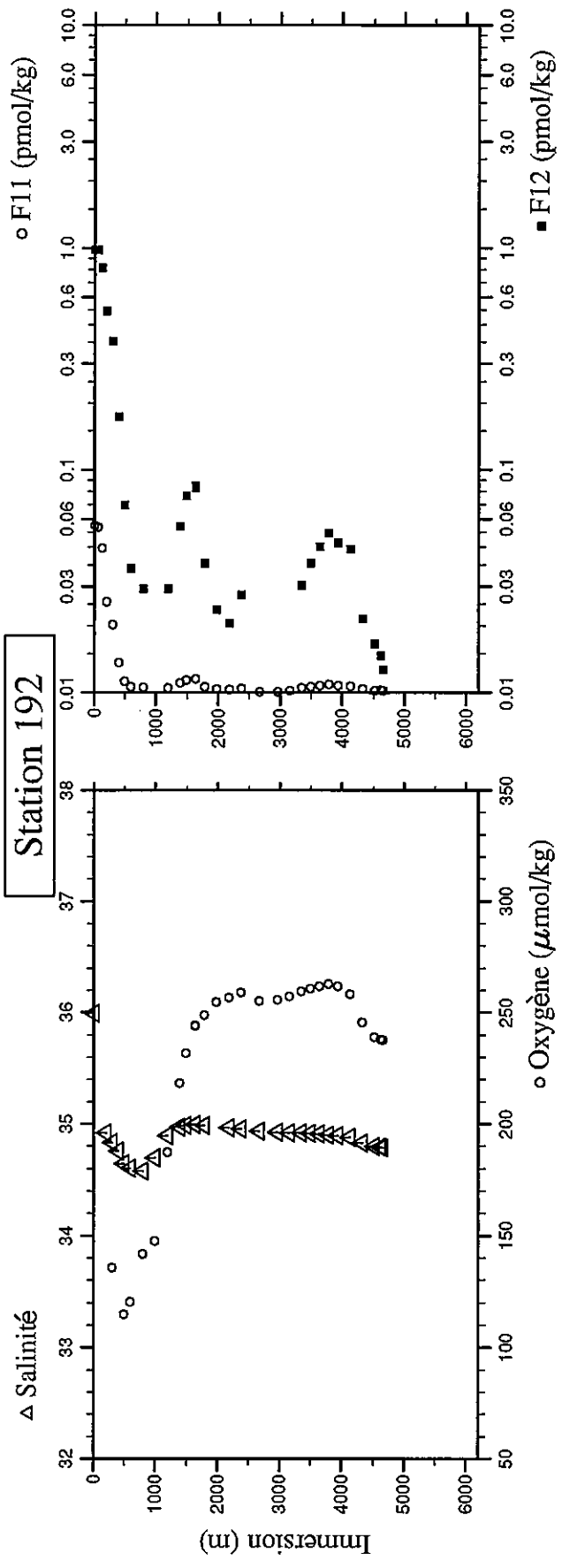




Station : 192 Campagne : CITHER 2  
 Date : 09-03-94 Heure : 21 h 14 mn  
 Position : N 5 4.88 W 40 28.40  
 Dernier niveau à : 4734  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI-NITE	pH
dbar	metres	deg. cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.7	7.7	26.601	23.6268	35.995	201.3	r	0.039	1.6	1.7511	0.9807	2005.22		8.378
64.1	63.7	26.561	23.8865	36.012	r	r	0.027	1.6	1.7363	0.9826	2006.05		8.376
125.9	125.2	17.874	26.6111	35.926	r	r	0.892	4.6	1.5135	0.8117	2140.60		8.127
200.3	199.1	10.094	27.7768	34.922	146.0	r	1.618	12.3	0.9524	0.5171	2170.32		7.966
300.6	298.7	9.285	28.3015	34.835	135.7	r	1.776	14.2	0.7109	0.3793	2180.09		7.926
401.2	398.6	8.149	28.8800	34.758	115.0	r	2.034	17.7	0.3174	0.1730	2205.04		7.861
500.9	497.5	6.831	29.4460	34.644	114.7	r	2.235	21.8	0.1214	0.0694	2215.72		7.825
601.1	596.9	6.119	29.9691	34.607	120.3	r	2.305	24.6	0.0619	0.0362	2220.63		7.818
801.0	795.0	4.957	31.0189	34.578	141.9	r	2.307	29.4	0.0537	0.0293	2218.76		7.835
1001.2	993.3	4.798	32.0446	34.699	147.5	r	2.202	28.6	-0.0001	0.0010	2219.82		7.858
1200.8	1190.7	4.732	33.1082	34.895	187.2	r	1.761	22.8	0.0483	0.0293			7.930
1399.4	1387.0	4.476	34.1000	34.970	218.2	r	1.492	18.8	0.1023	0.0557			7.978
1499.5	1485.9	4.294	34.5886	34.987	231.8	r	1.384	17.4	0.1297	0.0762			7.994
1649.8	1634.2	4.042	35.3051	34.995	244.2	r	1.303	16.3	0.1422	0.0831			8.008
1650.1	1634.5	4.051	35.3040	34.994	244.0	r	1.303	16.3	0.1438	0.0850			8.008
1801.1	1783.4	3.741	36.0172	34.985	248.7	r	1.299	17.5	0.0628	0.0381			8.012
1999.0	1978.5	3.410	36.9426	34.967	254.7	r	1.277	19.2	0.0400	0.0235			8.027
2201.1	2177.5	3.131	37.8763	34.964	256.7	r	1.270	21.2	0.0321	0.0205			8.019
2399.7	2372.8	2.893	38.7875	34.955	259.0	r	1.265	22.8	0.0428	0.0274			8.020
2699.6	2667.5	2.638	40.1376	34.934	255.2	r	1.329	28.5	0.0097	0.0059			8.014
2999.5	2961.8	2.493	41.4724	34.928	255.8	r	1.334	30.1	0.0095	0.0068			8.020
3199.8	3158.1	2.410	42.3594	34.923	257.1	r	1.319	30.3	0.0192	0.0098			8.018
3398.7	3352.9	2.337	43.2369	34.921	259.6	r	1.305	29.5	0.0470	0.0303			8.021
3549.1	3500.1	2.241	43.9017	34.914	260.7	r	1.284	30.3	0.0588	0.0381			8.019
3699.3	3647.0	2.110	44.5679	34.908	261.9	r	1.283	31.0	0.0745	0.0450			8.016
3847.3	3791.6	2.009	45.2195	34.901	262.8	r	1.297	31.8	0.0850	0.0518			8.018
3998.5	3939.3	1.924	45.8808	34.895	261.9	r	1.319	34.1	0.0729	0.0469			8.015
4198.1	4134.0	1.797	46.7494	34.881	258.3	r	1.380	40.2	0.0674	0.0440			8.006
4396.8	4327.8	1.355	47.6420	34.827	245.6	r	1.628	63.4	0.0354	0.0215			7.978
4597.5	4523.3	1.119	48.5222	34.799	238.9	r	1.767	75.8	0.0179	0.0166			7.958
4693.7	4616.9	1.073	48.9362	34.794	237.8	r	1.790	78.2	0.0232	0.0147			7.956
4731.9	4654.1	1.059	49.1004	34.791	237.5	r	1.799	78.8	0.0178	0.0127			7.954

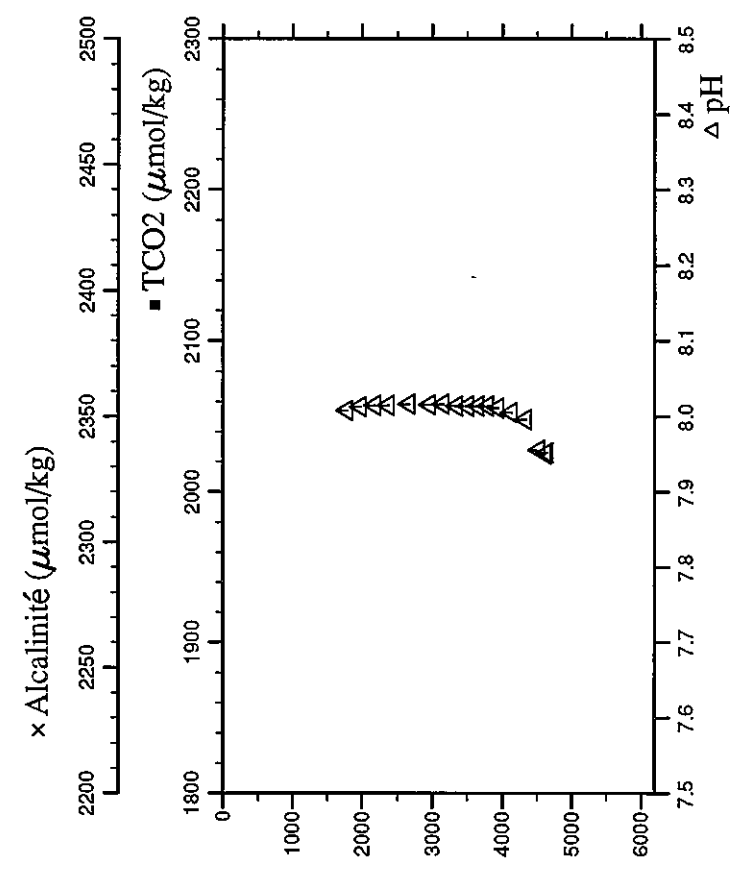
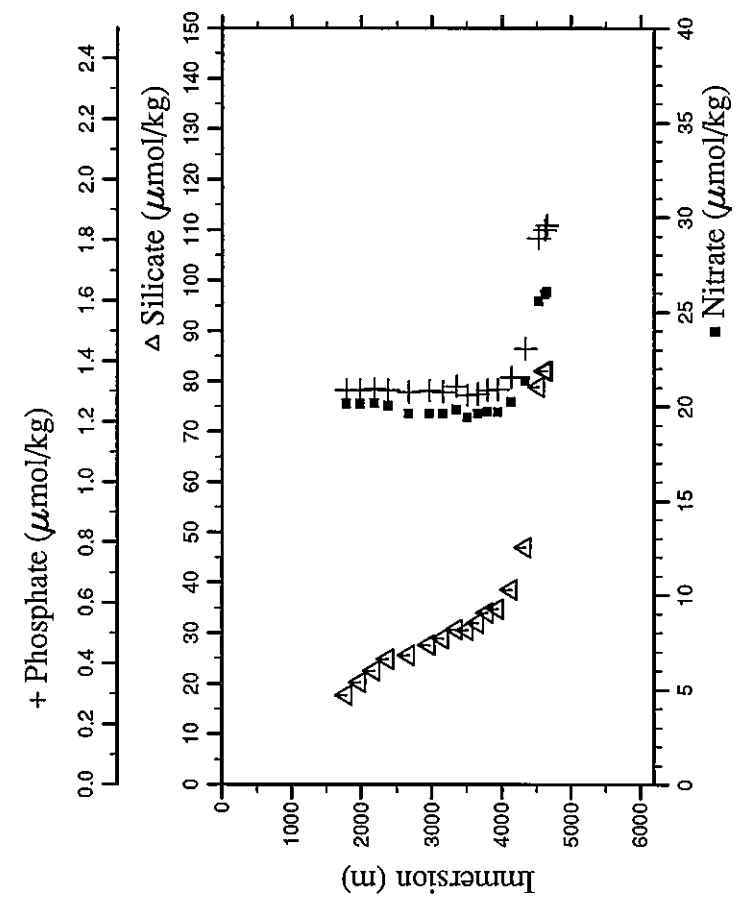
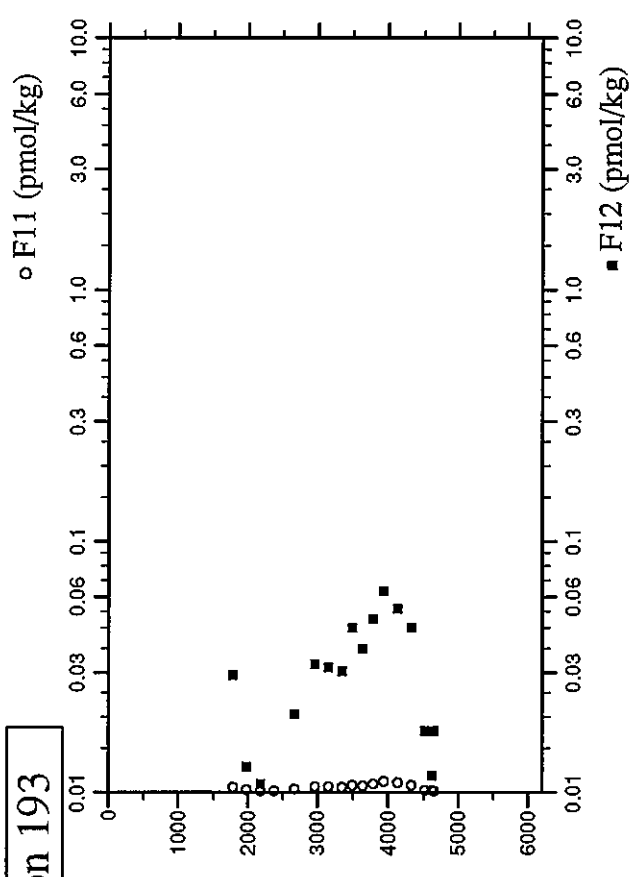
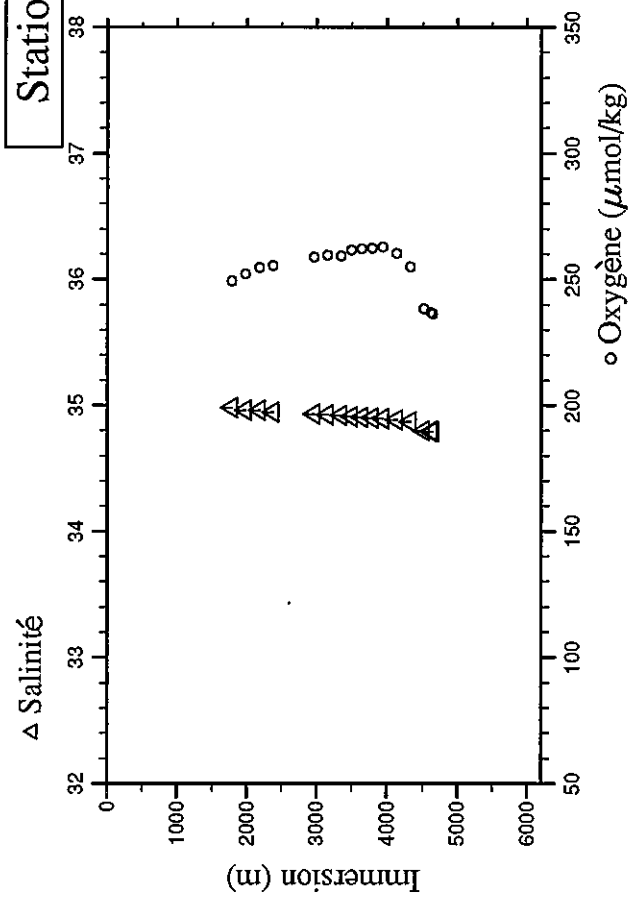
# Station 192



Station : 193 Campagne : CITHER 2  
 Date : 10-03-94 Heure : 3 h 35 mn  
 Position : N 5 22.52 W 40 58.57  
 Dernier niveau à : 4728  
 Nb prélèvements : 17

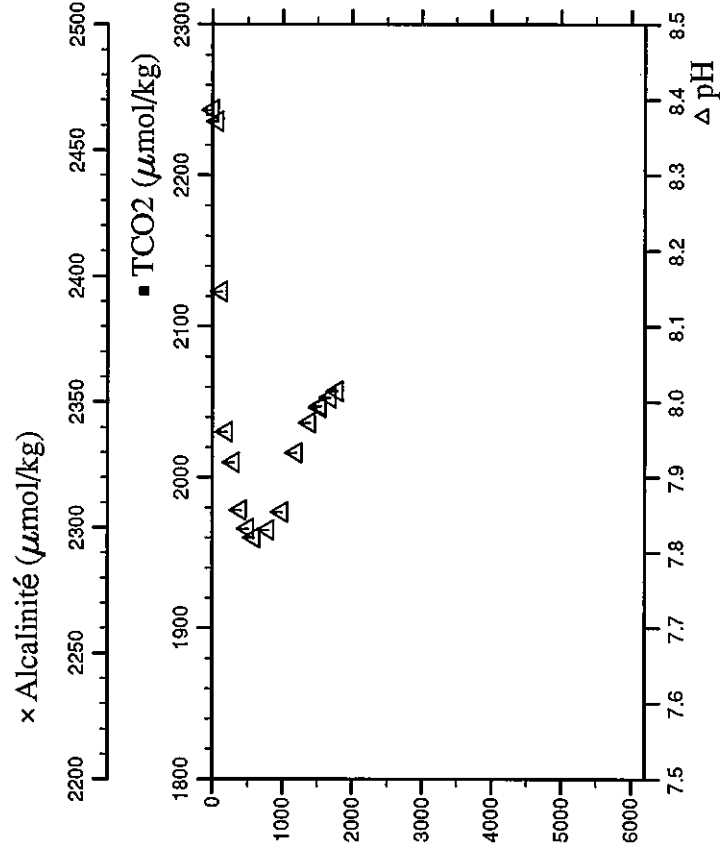
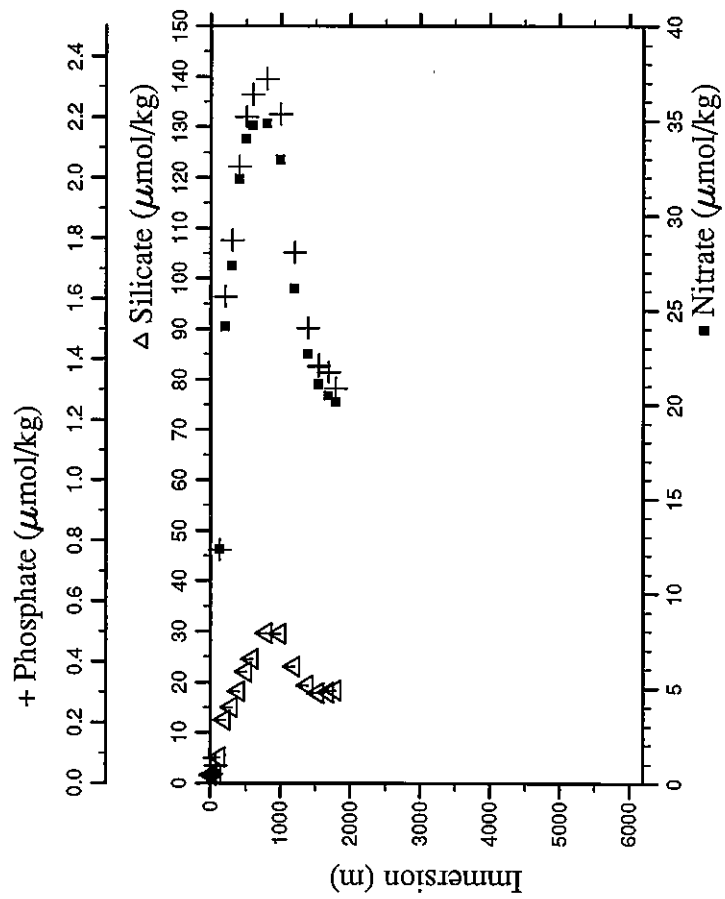
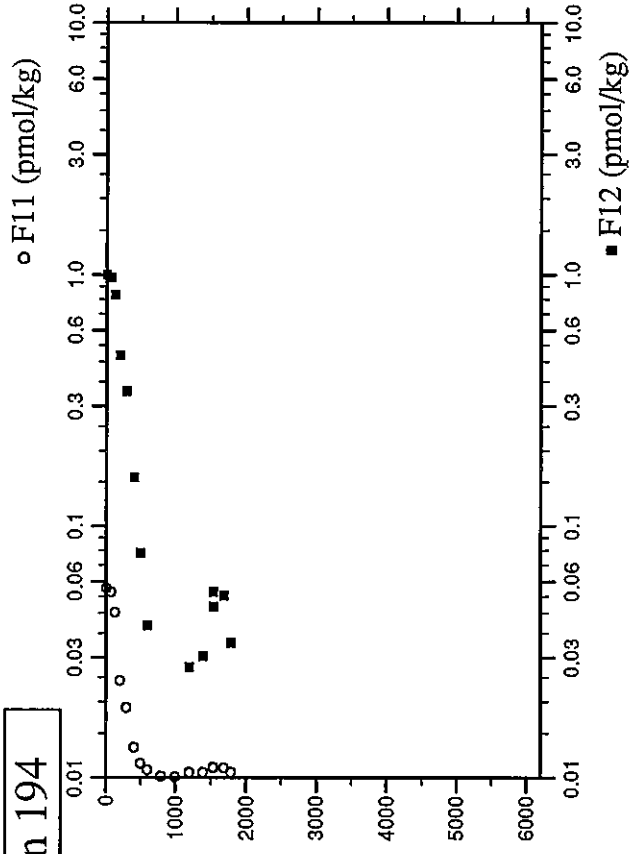
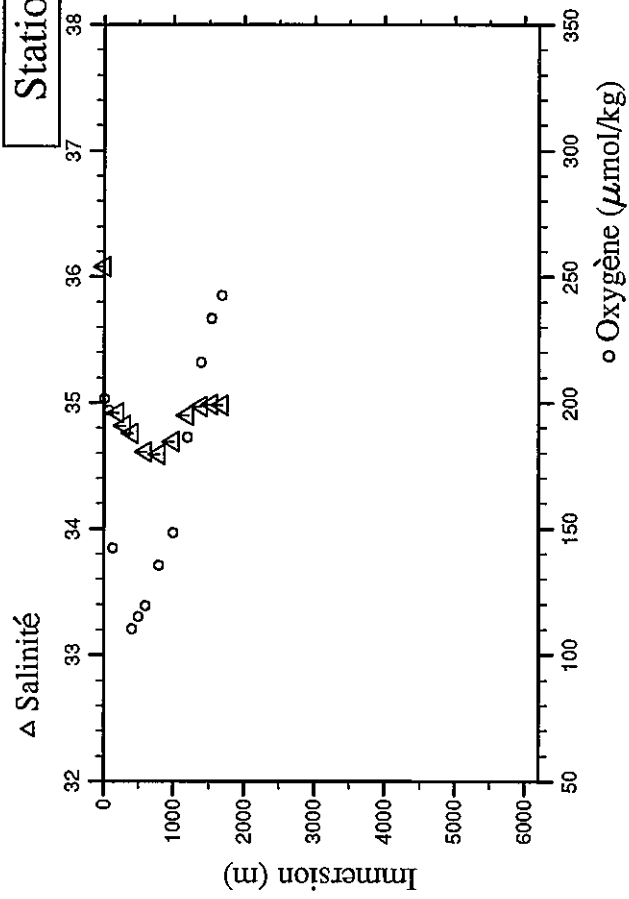
PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
1800.5	1782.8	3.679	36.0215	34.980	249.4	20.13	1.303	17.7	0.0495	0.0293			8.008
2000.0	1979.5	3.323	36.9545	34.962	252.2	20.15	1.304	20.3	0.0241	0.0127			8.013
2199.6	2176.0	3.081	37.8726	34.959	254.7	20.16	1.308	22.5	0.0122	0.0108			8.015
2398.9	2372.0	2.898	38.7793	34.948	255.3	20.02	1.304	24.9	0.0110	0.0078			8.015
2699.7	2667.6	2.673	40.1372	34.935		19.62	1.297	25.6	0.0339	0.0205			8.017
2999.5	2961.8	2.501	41.4748	34.931	258.8	19.64	1.301	27.6	0.0564	0.0323			8.016
3200.0	3158.3	2.408	42.3622	34.924	259.4	19.62	1.298	28.9	0.0537	0.0313			8.017
3397.6	3351.8	2.287	43.2375	34.919	259.3	19.83	1.317	30.7	0.0476	0.0303			8.014
3550.7	3501.6	2.185	43.9155	34.913	261.4	19.41	1.287	30.5	0.0691	0.0450			8.014
3699.7	3647.3	2.065	44.5761	34.906	262.0	19.62	1.292	32.0	0.0591	0.0371			8.014
3848.1	3792.4	1.949	45.2303	34.899	262.2	19.68	1.303	34.0	0.0815	0.0489			8.014
3998.9	3939.6	1.897	45.8860	34.894	262.7	19.69	1.305	34.8	0.1055	0.0635			8.006
4198.5	4134.4	1.827	46.7489	34.887	260.2	20.22	1.347	38.6	0.0885	0.0538			8.012
4398.5	4329.4	1.689	47.6170	34.868	255.0	21.35	1.441	46.9	0.0663	0.0450			7.996
4597.0	4522.8	1.105	48.5202	34.800	238.4	25.56	1.805	78.9	0.0175	0.0176			7.956
4698.6	4621.7	1.046	48.9602	34.793	236.9	25.94	1.834	82.0	0.0191	0.0117			7.951
4726.0	4648.3	1.046	49.0762	34.795	236.4	26.07	1.849	82.0	0.0166	0.0176			7.952

Station 193



Station : 194 Campagne : CIPHER 2  
 Date : 10-03-94 Heure : 8 h 9 mn  
 Position : N 5 22.44 W 40 58.50  
 Dernier niveau à : 1812  
 Nb prélèvements : 16

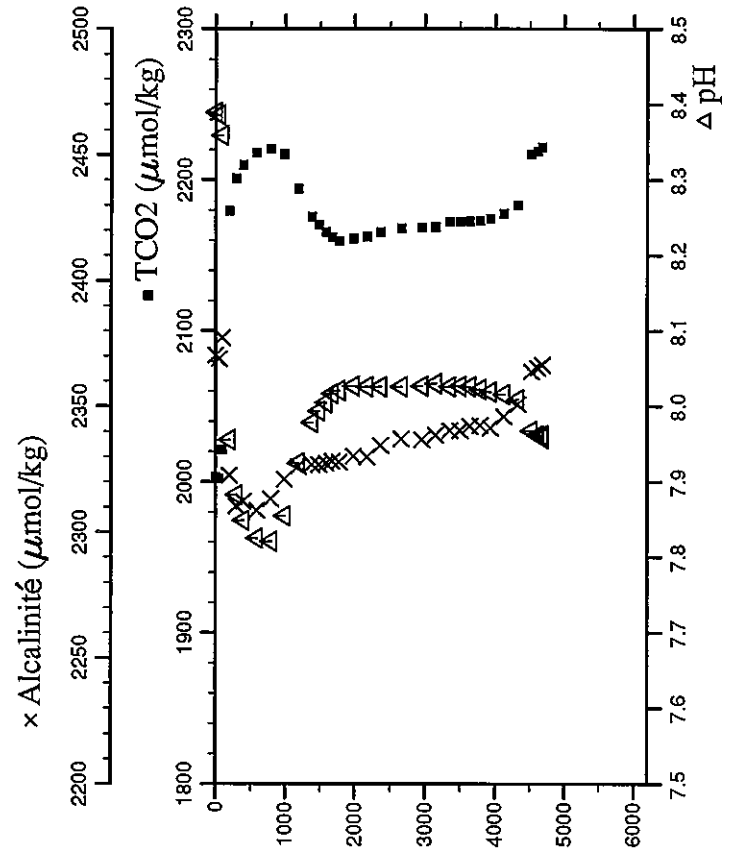
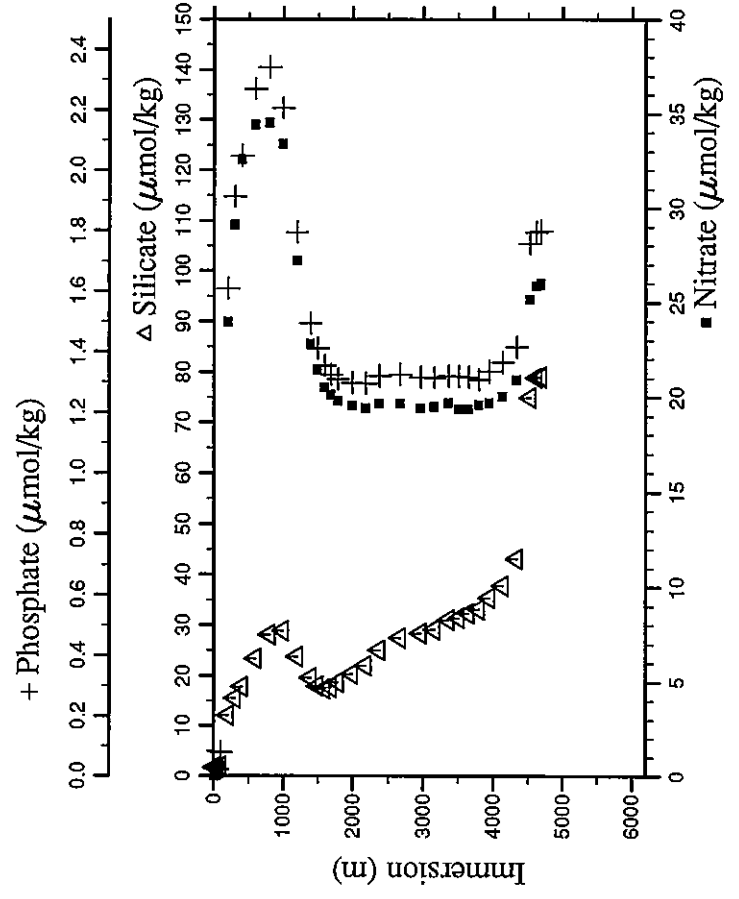
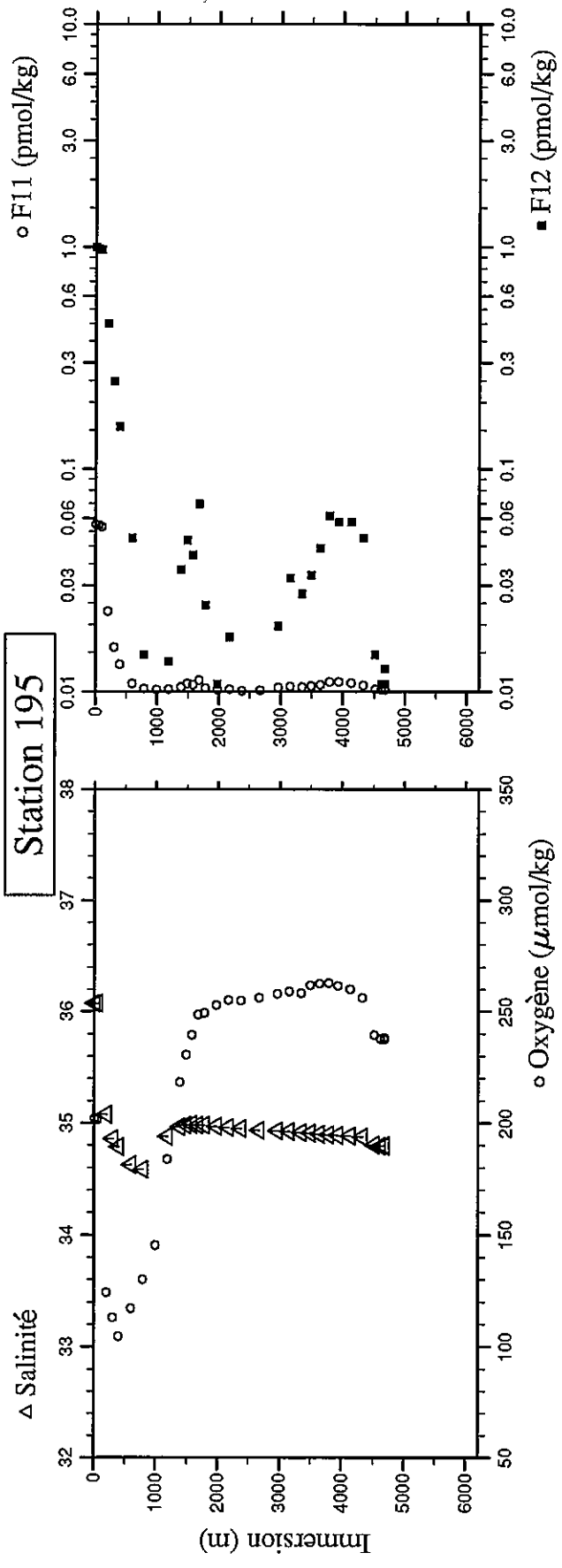
PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.6	5.6	26.393	23.7483	36.079	201.6	0.24	0.030	1.6	1.7569	1.0001			8.387
70.9	70.5	26.347	24.0493	36.141	196.9	0.47	0.059	1.7	1.7232	0.9777			8.372
126.4	125.7	20.362	26.1504	36.063	142.2	12.35	0.769	5.1	1.5340	0.8330			8.146
202.0	200.8	10.059	27.7900	34.922	140.9	24.15	1.606	12.5	0.8969	0.4761			7.961
298.0	296.1	9.072	28.3102	34.817	133.8	27.37	1.794	15.0	0.6458	0.3431			7.920
401.4	398.8	8.138	28.8836	34.760	110.3	31.94	2.037	18.2	0.2819	0.1564			7.857
500.9	497.5	6.990	29.4288	34.647	115.2	34.02	2.200	22.0	0.1334	0.0782			7.832
600.7	596.5	6.275	29.9523	34.609	119.3	34.74	2.275	24.6	0.0732	0.0401			7.820
800.3	794.3	5.075	31.0083	34.590	135.3	34.85	2.325	29.7	0.0126	0.0059			7.830
1001.1	993.2	4.757	32.0452	34.692	148.3	32.95	2.209	29.5	0.0060	0.0029			7.854
1200.7	1190.6	4.803	33.0994	34.900	186.2	26.14	1.753	23.1	0.0517	0.0274			7.933
1401.4	1389.0	4.516	34.1006	34.973	216.0	22.67	1.504	19.4	0.0479	0.0303			7.973
1551.7	1537.4	4.201	34.8339	34.986	233.4	21.10	1.375	17.8	0.0985	0.0547			7.993
1552.3	1538.0	4.196	34.8375	34.986	233.6	21.10	1.381	17.8	0.0909	0.0479			7.995
1700.5	1684.2	3.897	35.5439	34.984	242.5	20.48	1.357	18.0	0.0916	0.0528			8.006
1800.1	1782.4	3.738	36.0114			20.13	1.304	18.3	0.0496	0.0342			8.014



Station : 195 Campagne : CITHER 2  
 Date : 10-03-94 Heure : 12 h 40 mn  
 Position : N 5 40.00 W 41 28.81  
 Dernier niveau à : 4760  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGÈNE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
6.9	6.9	26.456	23.7311	36.077	202.0	0.04	0.027	1.7	1.7533	0.9982	2003.23	2370.4	8.390
50.5	50.2	26.382	23.9362	36.074	201.6	0.04	0.021	1.6	1.7452	0.9826	2002.17	2368.7	8.386
96.8	96.2	24.858	24.6960	36.181	192.5	r	0.080	1.9	1.7271	0.9678	2021.18	2377.1	8.359
200.4	199.2	10.821	27.7661	35.078	124.2	23.97	1.609	12.1	0.8355	0.4506	2179.34	2322.4	7.956
300.3	298.4	9.160	28.3411	34.862	113.0	29.13	1.913	15.6	0.4641	0.2473	2201.16	2310.3	7.883
401.1	398.5	8.346	28.8704	34.788	104.7	32.56	2.047	17.8	0.2875	0.1554	2209.93	2312.0	7.849
600.7	596.5	6.480	29.9343	34.627	117.1	34.40	2.269	23.5	0.0855	0.0489	2217.76	2308.6	7.825
799.9	793.9	5.366	30.9597	34.584	130.0	34.52	2.341	28.1	0.0326	0.0147	2220.32	2313.0	7.821
1000.1	992.2	4.892	32.0366	34.704	145.4	33.40	2.206	28.9	0.0201	0.0039	2217.14	2321.0	7.855
1200.3	1190.2	4.671	33.1040	34.882	183.7	27.22	1.795	23.8	0.0284	0.0137	2194.15	2326.1	7.925
1399.3	1386.9	4.337	34.1125	34.966	218.3	22.80	1.495	19.6	0.0485	0.0352	2175.70	2326.8	7.979
1485.9	1475.6	4.256	34.5929	34.984	230.6	21.46	1.411	18.0	0.0822	0.0479	2170.07	2326.9	7.994
1599.7	1584.8	4.024	35.0763	34.986	239.5	20.51	1.355	17.5	0.0721	0.0411	2165.32	2327.3	8.005
1699.6	1683.3	3.813	35.5527	34.984	248.5	20.12	1.325	17.7	0.1205	0.0694	2162.02	2328.0	8.017
1801.5	1783.8	3.615	36.0342	34.980	249.4	19.81	1.310	18.7	0.0360	0.0244	2159.37	2327.9	8.021
2000.4	1979.8	3.347	36.9560	34.972	252.8	19.57	1.297	20.4	0.0227	0.0108	2161.29	2330.0	8.027
2199.0	2175.4	3.109	37.8697	34.963	255.2	19.42	1.295	22.0	0.0241	0.0176	2162.41	2329.8	8.026
2398.8	2371.9	2.873	38.7829	34.949	254.8	19.66	1.320	25.1	0.0105	0.0029	2165.26	2334.5	8.026
2699.9	2667.8	2.654	40.1390	34.938	256.2	19.67	1.324	27.5	0.0123	0.0078	2167.89	2336.9	8.026
2999.5	2961.8	2.497	41.4750	34.931	258.0	19.44	1.317	28.4	0.0406	0.0196	2168.33	2336.7	8.026
3198.5	3156.8	2.392	42.3579	34.928	258.9	19.48	1.314	29.1	0.0576	0.0323	2168.88	2338.4	8.030
3397.7	3351.9	2.253	43.2437	34.918	258.3	19.69	1.321	31.1	0.0492	0.0274	2172.04	2340.4	8.026
3549.2	3500.2	2.134	43.9163	34.910	261.7	19.37	1.318	31.4	0.0607	0.0332	2172.10	2340.4	8.027
3699.0	3646.6	2.006	44.5807	34.902	262.5	19.34	1.317	32.4	0.0745	0.0440	2172.57	2342.0	8.026
3849.0	3793.2	1.929	45.2389	34.897	262.9	19.60	1.308	33.1	0.1021	0.0616	2172.99	2342.0	8.026
3998.6	3939.3	1.868	45.8886	34.890	261.6	19.71	1.336	35.4	0.1024	0.0577	2174.19	2341.4	8.019
4197.9	4133.8	1.832	46.7470	34.887	259.9	20.04	1.366	37.8	0.0929	0.0577	2177.71	2345.8	8.016
4398.7	4329.6	1.738	47.6141	34.875	256.2	20.92	1.416	43.1	0.0701	0.0489	2183.41	2350.8	8.009
4598.5	4524.2	1.138	48.5258	34.804	239.5	25.14	1.758	74.9	0.0273	0.0147	2216.92	2363.6	7.968
4697.9	4621.0	1.065	48.9562	34.796	237.5	25.87	1.796	78.9	0.0219	0.0108	2219.06	2365.2	7.962
4760.1	4681.5	1.066	49.2199	34.797	238.1	25.99	1.799	78.9	0.0203	0.0127	2221.95	2366.3	7.958
4760.8	4682.2	1.066	49.2227	34.796	237.4	25.93	1.799	79.1	0.0216	0.0108	2221.95	2366.4	7.962

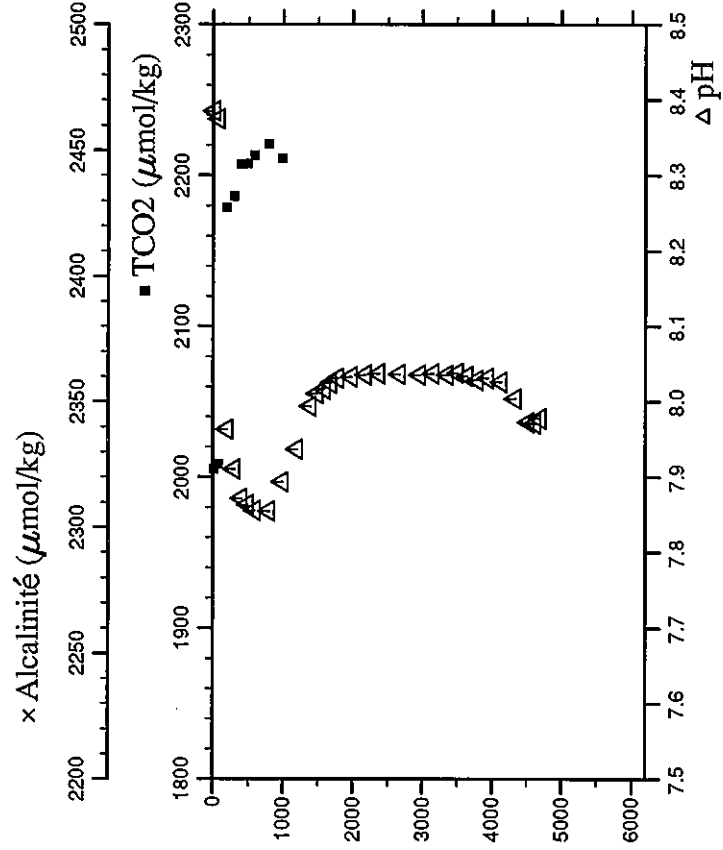
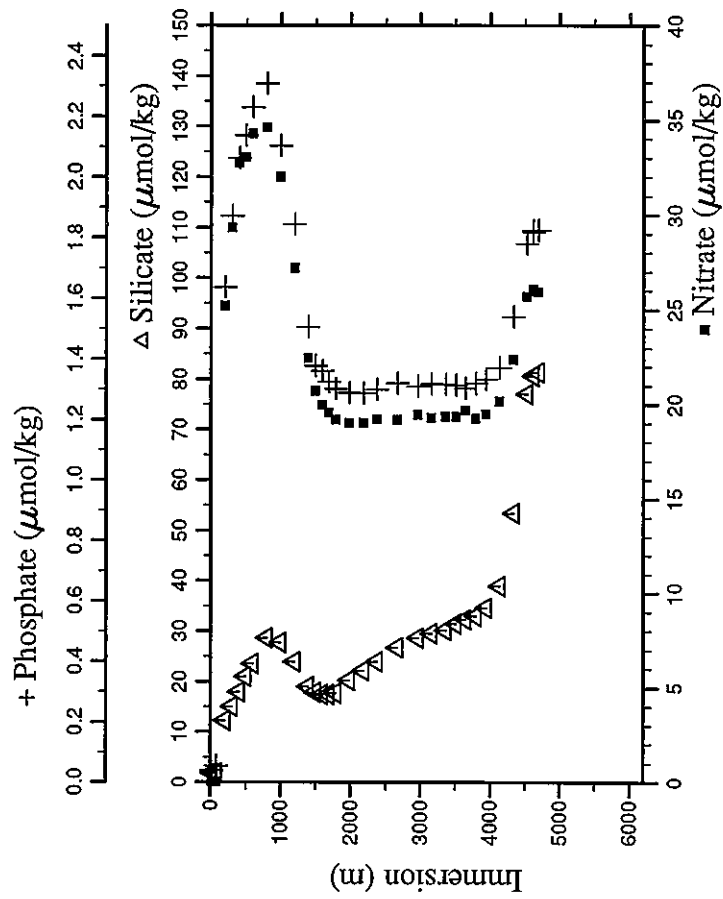
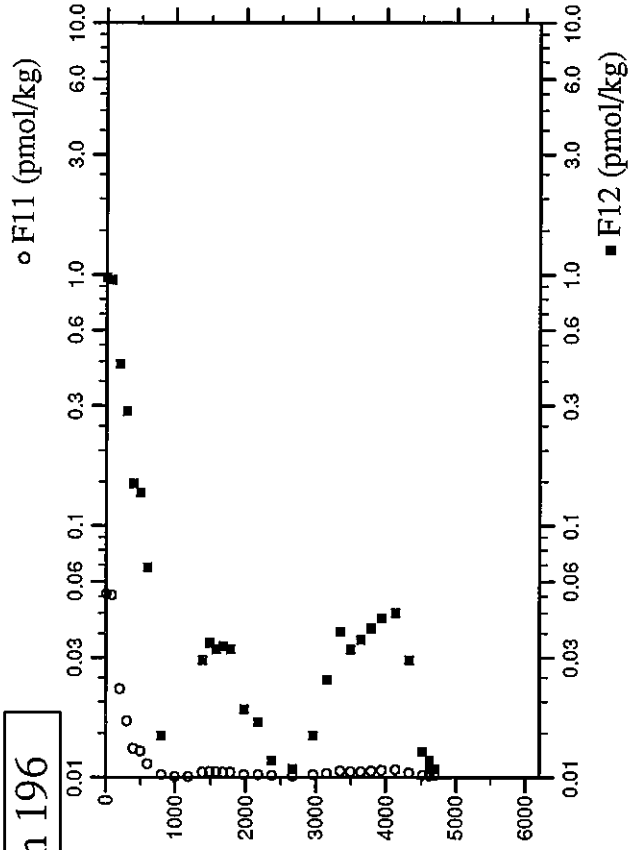
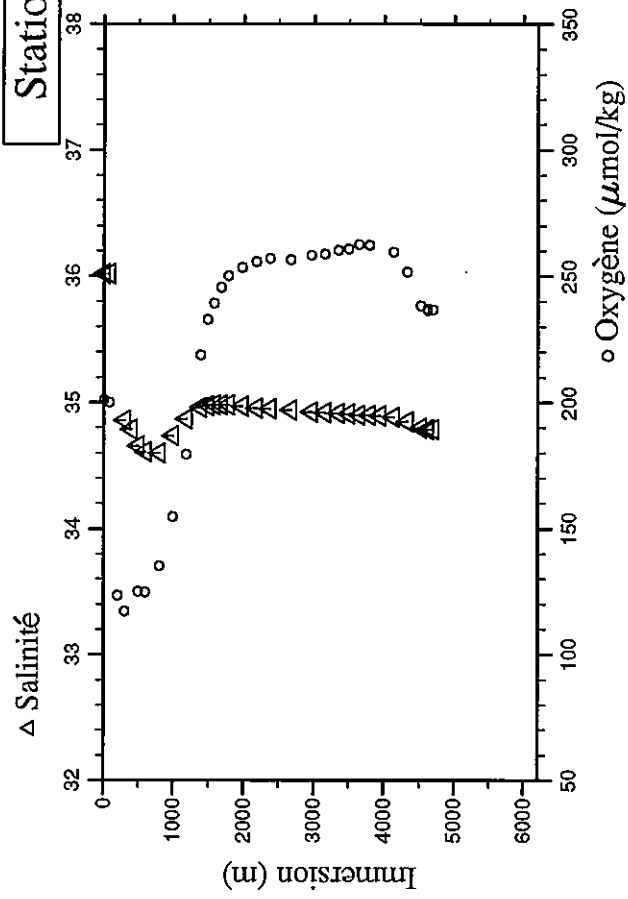
Station 195





Station : 196 Campagne : CITHER 2  
 Date : 10-03-94 Heure : 18 h 55 mn  
 Position : N 5 57.50 W 41 59.12  
 Dernier niveau à : 4770  
 Nb prélèvements : 32

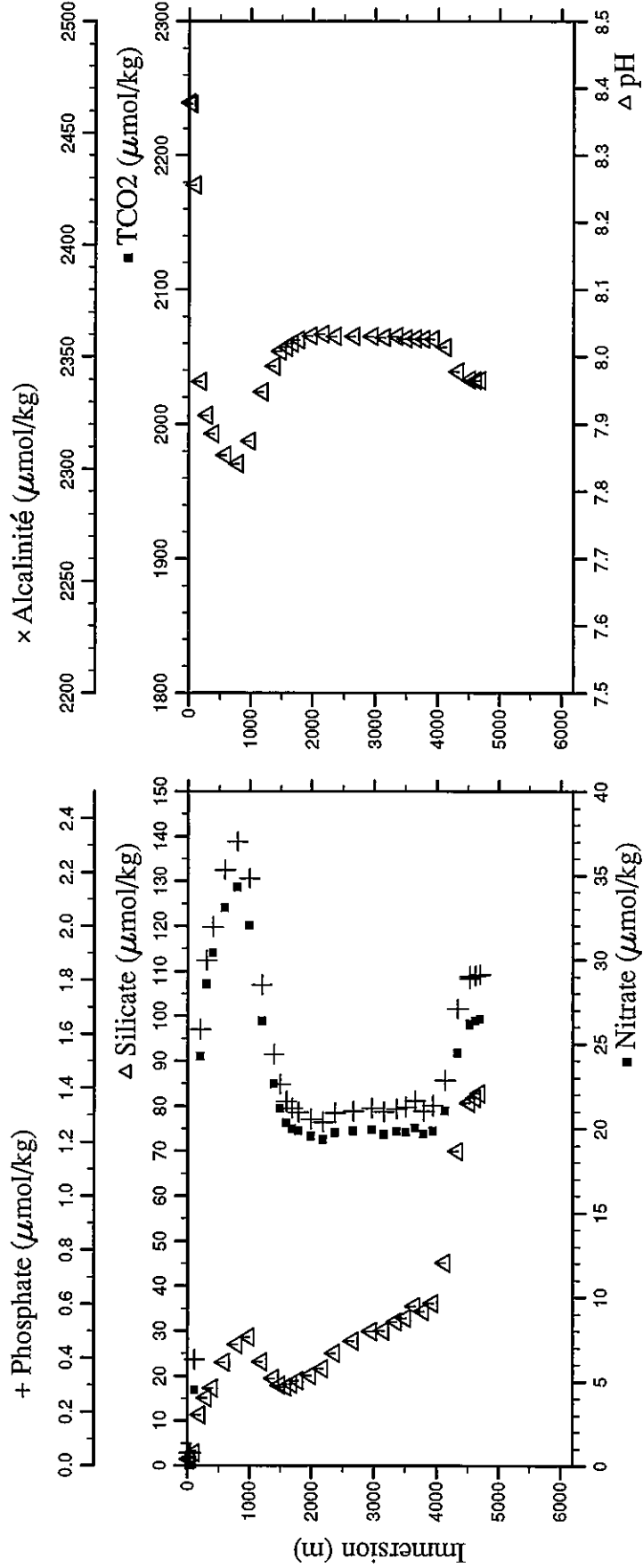
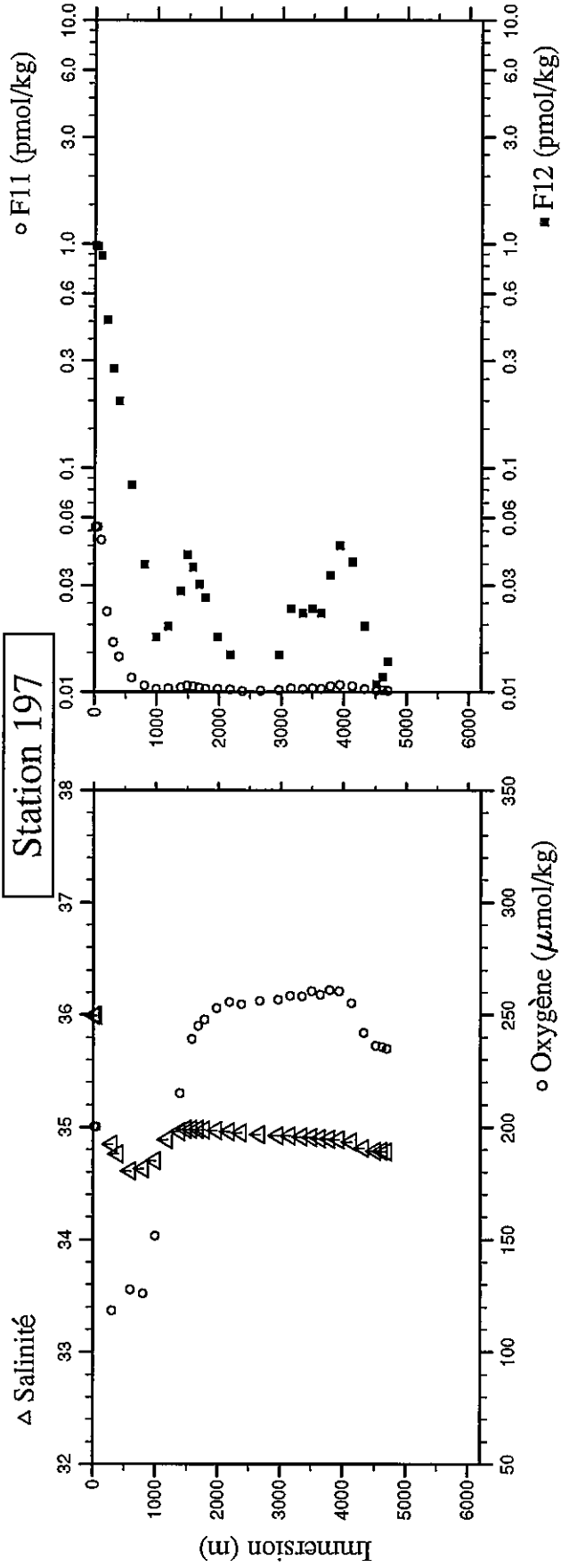
PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- MITE	PH
dbar	metres	deg. cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
10.7	10.6	26.687	23.6318	36.021	201.0	0.04	0.039	1.8	1.7060	0.9738	2005.19		8.385
81.1	80.6	26.611	23.9487	36.017	200.1	0.04	0.053	1.8	1.6906	0.9533	2008.43		8.375
201.0	199.8	10.757	27.7705	35.055	r	25.18	1.637	12.2	0.8199	0.4389	2178.54		7.963
300.3	298.4	9.144	28.3357	34.858	117.2	29.33	1.872	15.1	0.5247	0.2845	2186.28		7.911
401.1	398.5	8.210	28.8868	34.786	105.1	32.74	2.062	18.0	0.2679	0.1476	2207.21		7.872
499.5	496.1	7.054	29.4137	34.658	124.9	33.03	2.136	21.0	0.2440	0.1359	2207.92		7.863
601.4	597.2	6.392	29.9406	34.612	124.8	34.26	2.229	23.6	0.1239	0.0684	2213.35		7.856
801.3	795.3	5.201	31.0022	34.602	135.1	34.61	2.308	28.6	0.0262	0.0147	2220.85		7.855
1001.0	993.1	4.823	32.0752	34.740	154.7	32.01	2.102	27.8	0.0092	0.0059	2211.00		7.894
1199.2	1189.1	4.651	33.0942	34.868	179.5	27.20	1.844	23.9	0.0098	0.0088			7.937
1400.5	1388.1	4.345	34.1180	34.962	218.9	22.45	1.505	19.0	0.0471	0.0293			7.994
1501.1	1487.4	4.154	34.6090	34.979	232.7	20.72	1.377	17.8	0.0560	0.0342			8.011
1599.7	1584.7	3.994	35.0760	34.981	239.1	19.97	1.361	17.5	0.0561	0.0323			8.017
1699.8	1683.5	3.819	35.5504	34.983	245.5	19.57	1.325	17.5	0.0498	0.0332			8.024
1799.1	1781.4	3.665	36.0164	34.981	250.2	19.20	1.302	17.7	0.0507	0.0323			8.031
1999.7	1979.1	3.367	36.9485	34.970	253.5	19.03	1.288	20.2	0.0254	0.0186			8.033
2200.2	2176.6	3.101	37.8740	34.954	255.7	19.03	1.286	22.2	0.0233	0.0166			8.035
2399.9	2373.0	2.924	38.7813	34.951	256.9	19.22	1.300	24.0	0.0175	0.0117			8.037
2699.6	2667.5	2.711	40.1293	34.939	256.4	19.18	1.321	26.8	0.0133	0.0108			8.036
2999.0	2961.3	2.500	41.4718	34.927	258.1	19.45	1.311	28.6	0.0283	0.0147			8.035
3198.5	3156.8	2.400	42.3556	34.922	258.7	19.28	1.319	29.5	0.0347	0.0244			8.037
3398.3	3352.5	2.275	43.2419	34.916	260.3	19.36	1.316	30.2	0.0616	0.0381			8.035
3550.1	3501.0	2.159	43.9146	34.910	260.7	19.35	1.315	31.4	0.0541	0.0323			8.038
3699.0	3646.6	2.052	44.5741	34.902	262.6	19.69	1.304	32.3	0.0561	0.0352			8.034
3848.9	3793.1	1.991	45.2289	34.899	262.2	19.26	1.320	33.0	0.0597	0.0391			8.029
3997.3	3938.0	1.923	45.8742	34.894	267.4	19.49	1.333	34.6	0.0672	0.0430			8.031
4198.0	4133.9	1.818	46.7475	34.883	259.4	20.17	1.371	38.9	0.0746	0.0450			8.026
4397.8	4328.7	1.548	47.6273	34.848	251.7	22.37	1.538	53.5	0.0445	0.0293			8.004
4598.4	4524.1	1.089	48.5296	34.797	238.2	25.70	1.781	77.1	0.0223	0.0127			7.973
4697.9	4620.9	1.019	48.9583	34.787	236.8	26.08	1.825	80.8	0.0168	0.0108			7.972
4699.0	4622.0	1.020	48.9636	34.788	236.3	26.00	1.819	80.7	0.0186	0.0117			7.971
4771.9	4692.9	1.008	49.2752	34.786	236.7	25.93	1.825	81.4	0.0194	0.0108			7.978



Station : 197 Campagne : CITHER 2  
 Date : 11-03-94 Heure : 1 h 11 mn  
 Position : N 6 15.08 W 42 29.36  
 Dernier niveau à : 4771  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI-NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
18.1	18.0	26.670	23.6482	35.993	200.2	0.00	0.047	1.5	1.7253	0.9797			8.379
51.2	50.9	26.664	23.7898	35.995	200.2	0.00	0.047	1.5	1.7208	0.9748			8.377
110.2	109.6	23.478	25.0274	36.012 r	157.2 r	4.51	0.395	2.8	1.5835	0.8830			8.256
200.7	199.5	11.198	27.7330	35.138 r	115.3 r	24.26	1.617	11.3	0.8394	0.4555			7.963
301.3	299.4	9.069	28.3511	34.850	118.3	28.58	1.874	15.2	0.5160	0.2767			7.913
400.1	397.5	8.178	28.8742	34.761	119.1	30.42	1.996	17.4	0.3673	0.1985			7.886
600.9	596.7	6.403	29.9352	34.611	127.8	33.10	2.209	23.0	0.1517	0.0841			7.854
801.0	795.0	5.578	30.9735	34.630	126.1	34.32	2.315	27.0	0.0671	0.0372			7.841
999.1	991.2	4.832	32.0335	34.703	151.6	32.04	2.177	28.6	0.0297	0.0176			7.875
1200.4	1190.3	4.750	33.1029	34.890	184.3 r	26.37	1.782	23.2	0.0376	0.0196			7.948
1400.1	1387.7	4.397	34.1054	34.959	215.1	22.63	1.525	19.5	0.0500	0.0283			7.986
1501.5	1487.8	4.224	34.6024	34.980	229.9 r	21.19	1.413	18.0	0.0682	0.0411			8.008
1600.2	1585.2	4.010	35.0791	34.984	239.1	20.34	1.351	17.6	0.0599	0.0362			8.014
1699.5	1683.2	3.780	35.5548	34.981	244.9	20.00	1.326	18.2	0.0430	0.0303			8.020
1800.2	1782.5	3.622	36.0258	34.977	247.9	19.86	1.310	19.0	0.0323	0.0264			8.025
2000.7	1980.1	3.388	36.9515	34.972	252.8	19.56	1.285	20.1	0.0294	0.0176			8.031
2200.2	2176.5	3.117	37.8742	34.959	255.7	19.35	1.274	21.7	0.0276	0.0147			8.034
2399.2	2372.3	2.920	38.7786	34.950	254.6	19.76	1.308	25.1	0.0092	0.0088			8.030
2698.8	2666.7	2.671	40.1327	34.938	256.2	19.86	1.314	27.8	0.0134	0.0098			8.030
2998.0	2960.3	2.473	41.4702	34.924	256.7	19.92	1.324	29.9	0.0226	0.0147			8.030
3199.4	3157.7	2.385	42.3629	34.925	258.4	19.65	1.312	30.0	0.0383	0.0235			8.029
3399.5	3353.6	2.265	43.2483	34.915	258.1	19.83	1.322	32.1	0.0328	0.0225			8.030
3552.5	3503.3	2.157	43.9262	34.910	260.6	19.81	1.330	32.9	0.0379	0.0235			8.027
3699.9	3647.5	2.047	44.5771	34.900	258.9	20.03	1.352	35.5	0.0326	0.0225			8.027
3848.4	3792.6	1.972	45.2290	34.897	260.9	19.69	1.314	34.4	0.0594	0.0332			8.026
3999.8	3940.4	1.889	45.8901	34.892	260.4	19.87	1.336	36.2	0.0712	0.0450			8.026
4198.7	4134.5	1.708	46.7608	34.870	255.2	21.05	1.429	45.2	0.0612	0.0381			8.014
4399.0	4329.8	1.231	47.6644	34.812	241.9	24.47	1.693	70.0	0.0317	0.0196			7.978
4598.1	4523.8	1.023	48.5364	34.789	236.2	26.22	1.814	80.8	0.0189	0.0098			7.966
4598.3	4523.9	1.022	48.5373	34.788	236.2	26.14	1.805	80.6	0.0165	0.0108			7.966
4698.4	4621.4	1.001	48.9652	34.787	235.7	26.36	1.816	81.8	0.0176	0.0117			7.965
4772.1	4693.1	0.986	49.2794	34.785	234.9	26.49	1.821	82.8	0.0158	0.0137			7.965

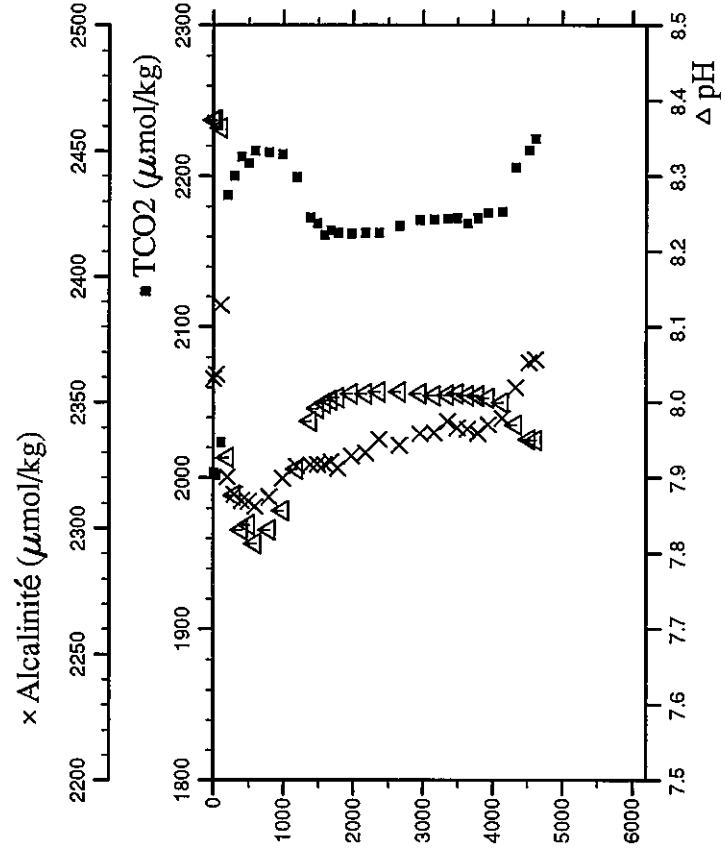
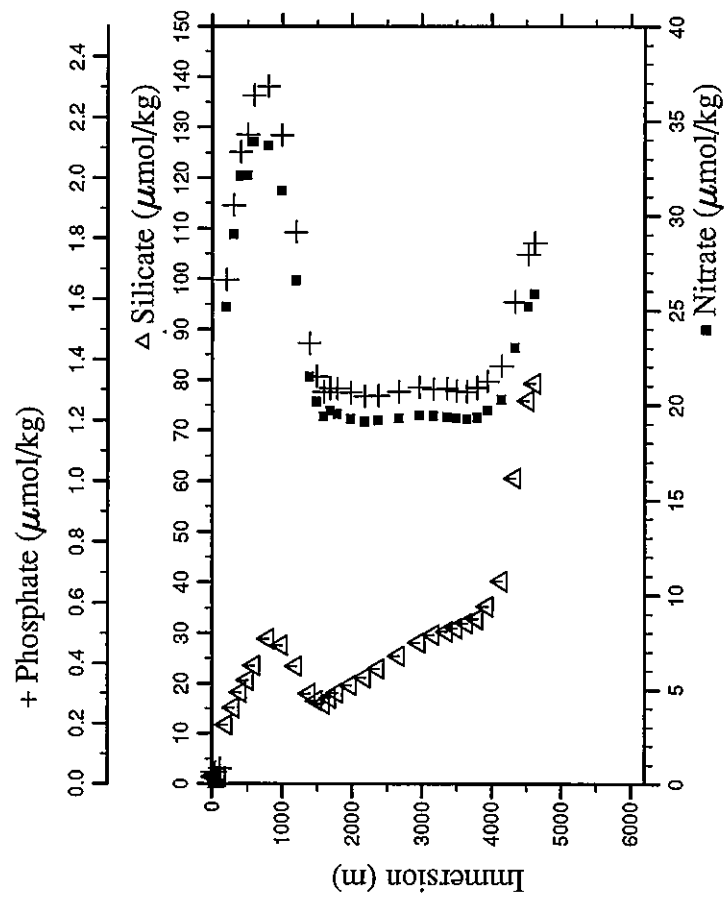
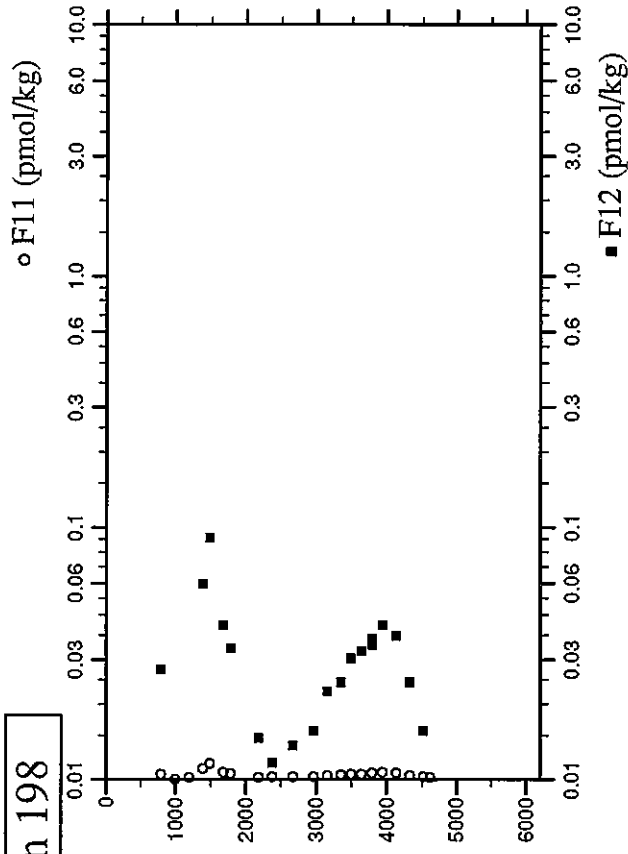
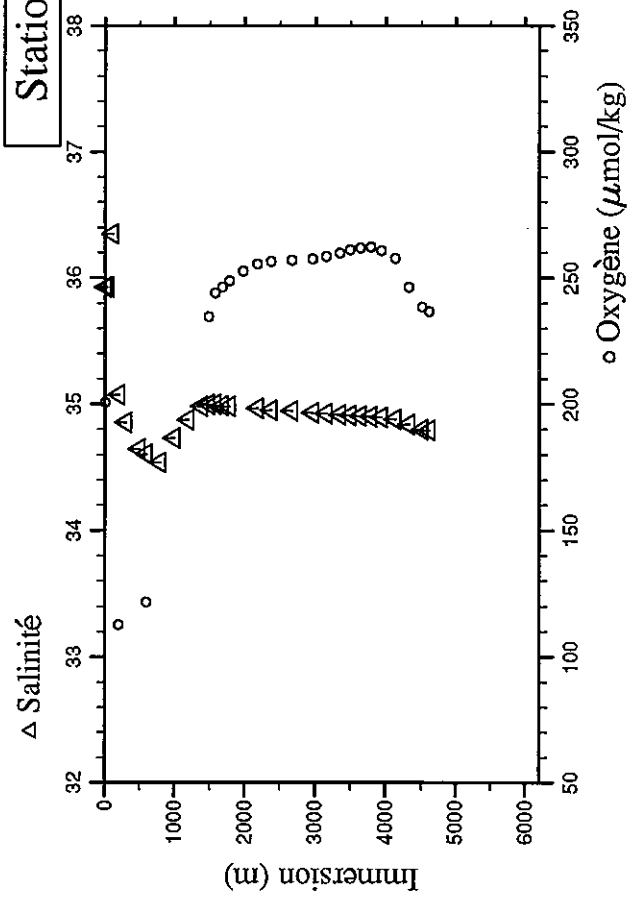
# Station 197



Station : 198 Campagne : CITHER 2  
 Date : 11-03-94 Heure : 7 h 20 mn  
 Position : N 6 32.55 W 42 59.63  
 Dernier niveau à : 4697  
 Nb prélèvements : 32

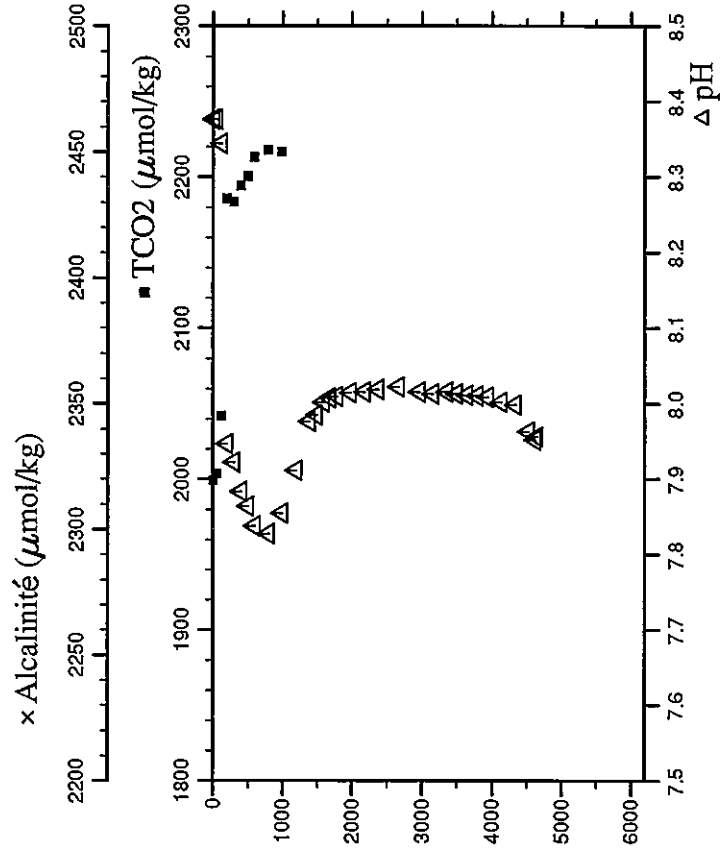
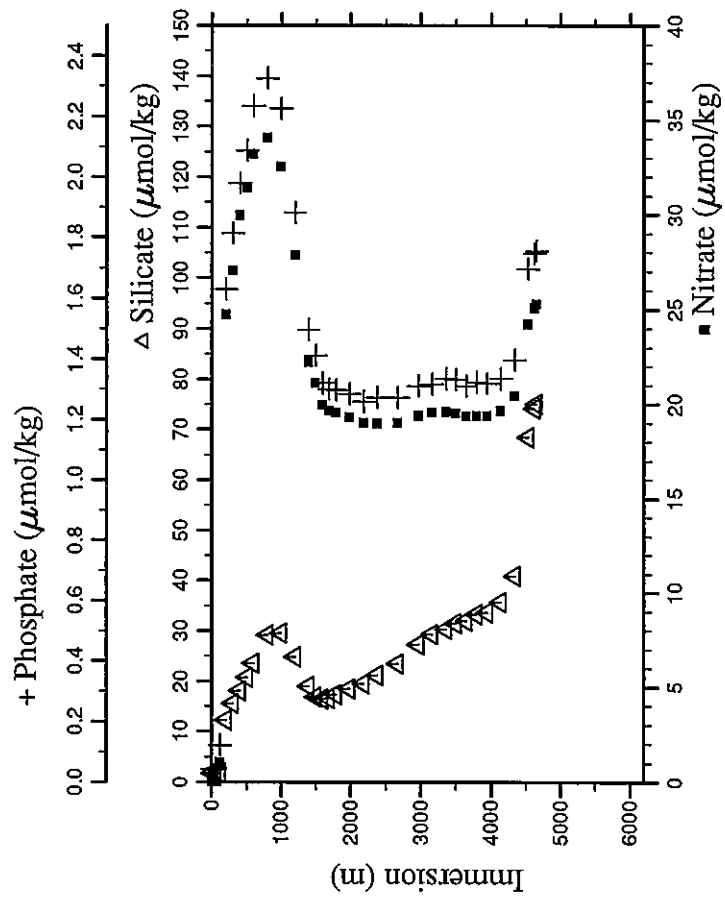
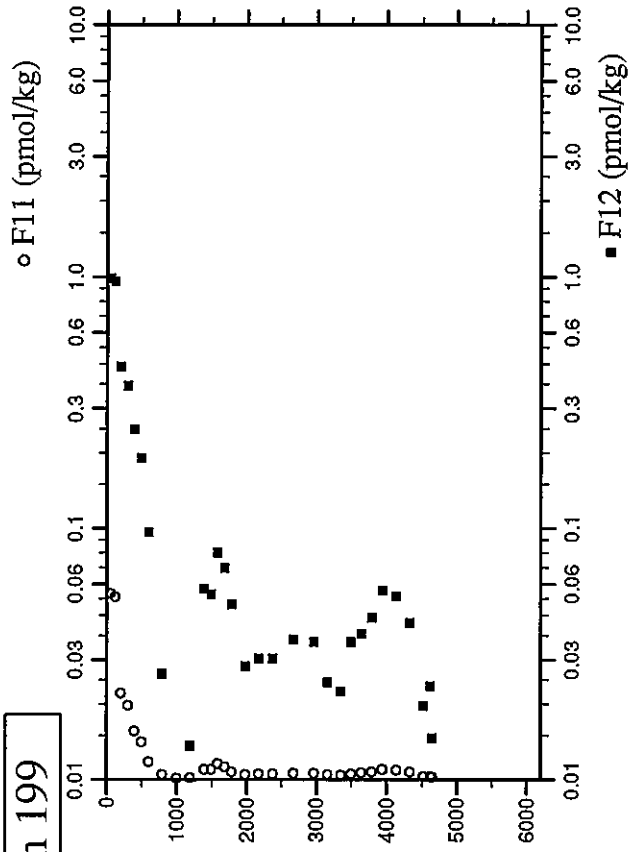
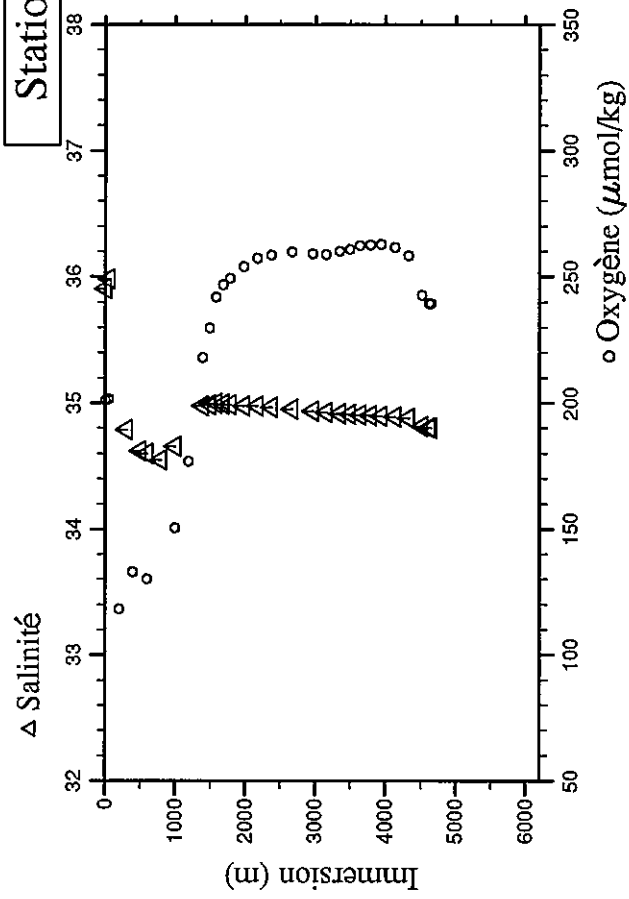
PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.8	5.8	26.775	23.5126	35.928	200.6	0.00	0.039	1.5	0.039	0.0274	2003.33	2359.4	8.374
40.3	40.1	26.770	23.6595	35.927	200.2	0.00	0.039	1.5	0.039	0.0021	2001.27	2361.1	8.374
110.3	109.7	26.605	24.3278	36.352	198.7	0.00	0.051	1.5	0.051	0.0098	2023.66	2388.6	8.364
200.5	199.3	10.866	27.7520	35.072	112.9	25.17	1.664	11.8	1.664	0.0596	2187.25	2320.2	7.927
300.7	298.8	9.080	28.3514	34.855	112.3	29.00	1.910	15.2	1.910	0.0909	2200.25	2313.3	7.877
400.4	397.8	8.023	28.8950	34.753	104.8	32.10	2.085	18.2	2.085	0.0411	2212.76	2310.7	7.831
501.1	497.7	6.991	29.4235	34.648	124.8	32.13	2.143	20.6	2.143	0.0522	2208.52	2310.6	7.838
598.6	594.4	6.257	29.9396	34.604	121.7	33.89	2.272	23.6	2.272	0.0010	2216.63	2308.4	7.813
800.4	794.4	4.957	30.9884	34.538	145.0	33.69	2.301	28.9	2.301	0.0010	2215.71	2312.4	7.831
1001.5	993.5	4.811	32.0697	34.731	151.8	31.33	2.140	27.6	2.140	0.0010	2214.66	2319.6	7.857
1201.2	1191.1	4.686	33.1006	34.876	180.9	26.59	1.821	23.5	1.821	0.0098	2199.43	2324.6	7.912
1401.1	1388.6	4.457	34.1199	34.980	221.7	21.50	1.455	18.0	1.455	0.0596	2172.75	2324.9	7.975
1500.3	1486.6	4.307	34.5984	34.997	234.7	20.16	1.344	16.6	1.344	0.0909	2168.63	2325.2	7.992
1599.0	1584.0	4.082	35.0740	34.998	243.9	19.40	1.294	16.0	1.294	0.0411	2161.02	2325.2	7.999
1700.7	1684.4	3.840	35.5558	34.986	246.3	19.70	1.305	17.1	1.305	0.0548	2163.93	2326.4	8.003
1799.7	1782.0	3.662	36.0218	34.980	248.8	19.54	1.303	18.1	1.303	0.0332	2162.38	2323.8	8.007
1999.6	1979.0	3.401	36.9464	34.962	252.5	19.27	1.291	19.6	1.291	0.0147	2162.12	2328.7	8.012
2201.4	2177.7	3.177	37.8725	34.966	255.3	19.12	1.278	21.1	1.278	0.0147	2162.60	2329.9	8.012
2400.6	2373.7	2.972	38.7799	34.952	256.4	19.18	1.280	22.9	1.280	0.0117	2162.42	2335.1	8.014
2700.1	2667.9	2.743	40.1315	34.945	257.0	19.28	1.293	25.5	1.293	0.0137	2167.18	2332.8	8.014
3002.2	2964.4	2.518	41.4847	34.931	257.5	19.46	1.308	28.2	1.308	0.0156	2171.10	2337.6	8.012
3200.6	3158.8	2.377	42.3701	34.924	258.6	19.43	1.301	29.7	1.301	0.0225	2171.33	2337.7	8.009
3398.0	3352.1	2.268	43.2439	34.918	259.8	19.36	1.304	30.3	1.304	0.0244	2171.86	2342.2	8.010
3548.3	3499.2	2.159	43.9092	34.913	260.9	19.29	1.295	30.9	1.295	0.0303	2172.26	2339.8	8.012
3698.9	3646.5	2.068	44.5727	34.906	261.7	19.27	1.294	31.9	1.294	0.0519	2168.85	2339.2	8.009
3848.3	3792.5	1.999	45.2269	34.900	262.2	19.34	1.308	32.8	1.308	0.0342	2172.04	2337.7	8.008
3848.6	3792.8	2.002	45.2279	34.901	262.0	19.32	1.305	32.7	1.305	0.0362	2172.04	2337.4	8.009
3996.4	3937.1	1.909	45.8743	34.896	260.8	19.32	1.327	35.3	1.327	0.0411	2175.44	2341.1	8.006
4199.4	4135.2	1.802	46.7560	34.882	257.8	20.28	1.379	40.2	1.379	0.0371	2176.50	2343.7	8.000
4398.1	4328.9	1.405	47.6448	34.839	246.2	23.03	1.590	60.6	1.590	0.0244	2205.82	2355.7	7.970
4597.2	4522.8	1.118	48.5220	34.801	238.5	25.18	1.746	75.8	1.746	0.0156	2216.90	2365.7	7.951
4695.9	4618.9	1.054	48.9490	34.794	236.6	25.85	1.784	79.3	1.784	0.0208	2224.71	2366.9	7.950

### Station 198



Station : 199 Campagne : CITHER 2  
 Date : 11-03-94 Heure : 13 h 32 mn  
 Position : N 6 49.89 W 43 29.89  
 Dernier niveau à : 4728  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
8.0	8.0	26.831	23.4906	35.909	201.1	0.04	0.044	1.8	1.7081 d	1.0120 d	1999.45		8.377
51.3	51.0	26.732	23.7607	35.984	201.4	0.04	0.045	1.5	1.7284	0.9865	2003.50		8.377
115.3	114.6	26.672	24.3181	36.395 r	190.0 r	1.03	0.121	1.8	1.6987	0.9599	2041.92		8.345
200.4	199.2	11.049	27.7727	35.130 r	118.1 r	24.74	1.631	12.2	0.8021	0.4408	2185.82		7.947
301.1	299.2	8.646	28.3722	34.788	141.2 r	27.06	1.815	15.6	0.6911	0.3695	2183.81		7.923
401.0	398.4	7.850	28.8896	34.708	133.0 r	29.96	1.979	18.1	0.4551	0.2474	2194.36		7.884
501.4	498.0	6.951	29.4141	34.623	138.6 r	31.43	2.087	20.8	0.3521	0.1907	2200.64		7.864
600.4	596.2	6.249	29.9441	34.602	130.1 r	33.23	2.233	23.6	0.1668	0.0968	2213.21		7.838
800.4	794.4	5.033	30.9871	34.552	142.3 r	34.06	2.326	29.1	0.0494	0.0264	2218.10		7.828
1000.9	992.9	4.722	32.0206	34.655	150.5 r	32.54	2.226	29.6	0.0110	0.0039	2216.48		7.855
1199.7	1189.6	4.713	33.0821	34.853 r	176.8 r	27.88	1.883	24.9	0.0182	0.0137			7.912
1402.2	1389.7	4.491	34.1134	34.977	218.0	22.25	1.497	19.0	0.0986	0.0577			7.977
1500.5	1486.8	4.280	34.5934	34.986	229.7	21.13	1.412	16.8	0.0945	0.0802			7.985
1600.0	1585.0	4.132	35.0700	34.999	241.9	19.98	1.321	16.4	0.1509	0.0694			8.002
1699.7	1683.4	3.933	35.5433	34.994	246.7	19.65	1.300	16.6	0.1183	0.0499			8.008
1800.6	1782.9	3.756	36.0153	34.987	249.3	19.56	1.297	17.4	0.0745	0.0499			8.010
1998.6	1978.0	3.506	36.9306	34.978	253.8	19.31	1.284	18.5	0.0515	0.0283			8.016
2198.8	2175.1	3.306	37.8490	34.975	257.1	19.02	1.260	19.5	0.0553	0.0303			8.019
2398.9	2372.0	3.082	38.7628	34.965	258.6	18.98	1.271	21.1	0.0536	0.0303			8.016
2699.2	2667.0	2.816	40.1193	34.952	259.8	19.02	1.272	23.5	0.0609	0.0362			8.023
2998.2	2960.4	2.540	41.4664	34.938	259.1	19.39	1.311	27.3	0.0629	0.0352			8.016
3199.8	3158.0	2.409	42.3631	34.927	258.7	19.55	1.316	29.3	0.0496	0.0244			8.016
3398.4	3352.5	2.300	43.2408	34.918	259.9	19.59	1.336	30.3	0.0430	0.0225			8.016
3547.9	3498.8	2.182	43.9044	34.912	260.7	19.51	1.332	31.4	0.0573	0.0352			8.013
3699.1	3646.6	2.054	44.5753	34.904	262.2	19.34	1.311	32.0	0.0651	0.0381			8.012
3847.7	3791.9	1.965	45.2286	34.899	262.5	19.38	1.322	33.2	0.0719	0.0440			8.011
3998.8	3939.4	1.922	45.8839	34.896	262.9	19.38	1.319	33.6	0.0976	0.0567			8.009
4198.1	4133.9	1.873	46.7439	34.890	261.4	19.66	1.336	35.7	0.0890	0.0538			8.002
4399.1	4329.9	1.777	47.6109	34.879	258.2	20.44	1.397	40.8	0.0722	0.0420			7.999
4597.8	4523.4	1.254	48.5115	34.816	242.7	24.25	1.695	68.4	0.0291	0.0196			7.963
4697.3	4620.3	1.147	48.9454	34.804	239.5	25.08	1.747	74.2	0.0304	0.0235			7.952
4727.4	4649.6	1.133	49.0747	34.802	239.3	25.29	1.756	75.1	0.0270	0.0147			7.957

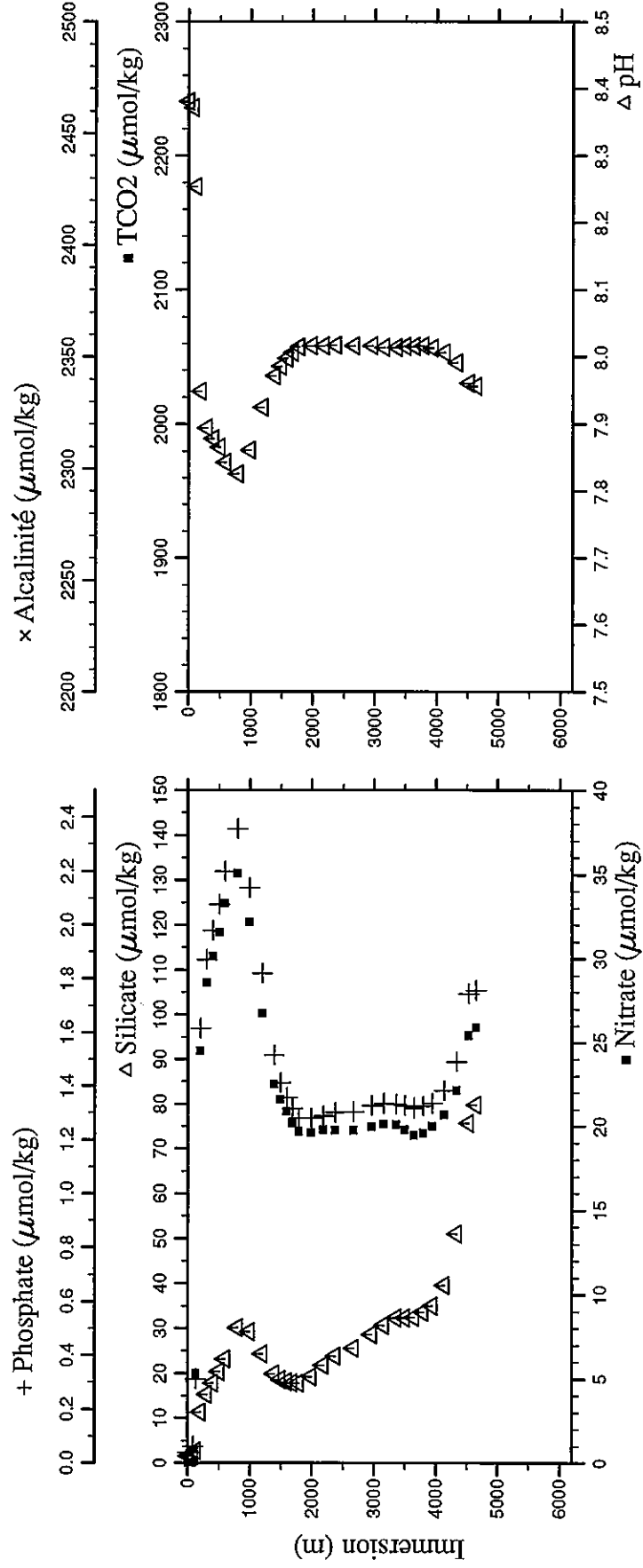
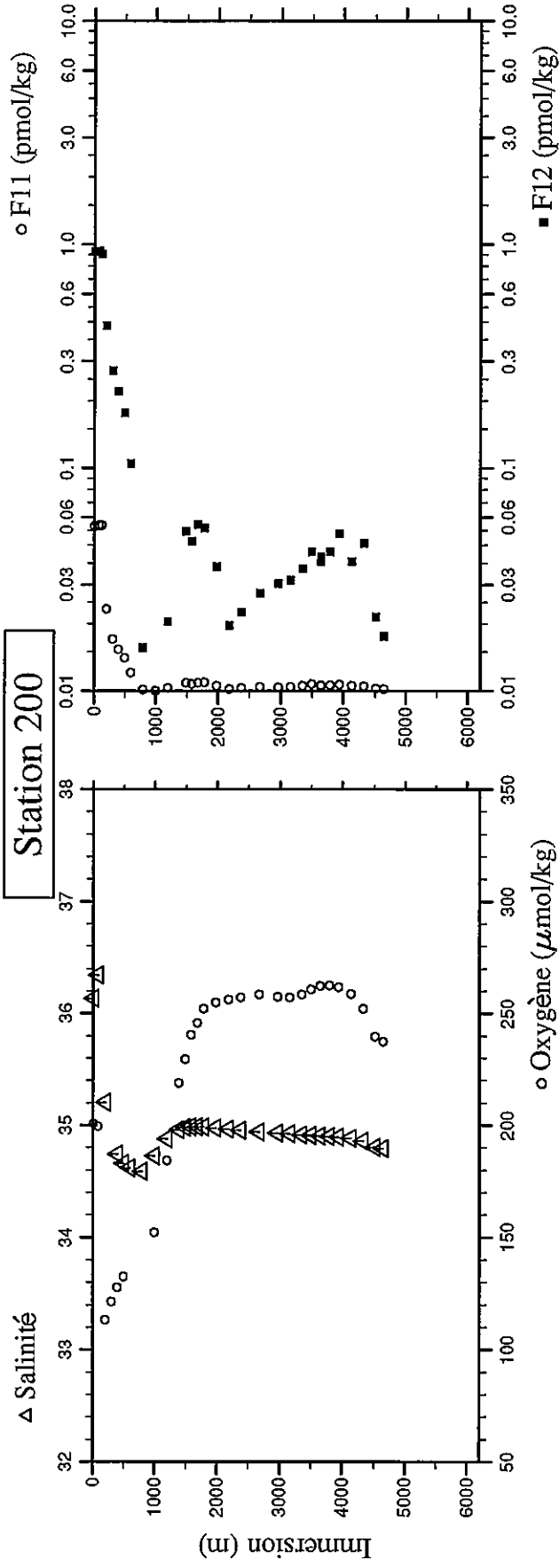




Station : 200 Campagne : CITHER 2  
 Date : 11-03-94 Heure : 19 h 47 mn  
 Position : N 7 7.55 W 44 0.23  
 Dernier niveau à : 4724  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	PH
dbar	metres	deg. cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
2.5	2.5	26.792	23.6516	36.137	200.8	0.04	0.038	1.6	1.7207	0.9229			8.381
82.3	81.8	26.832	24.1304	36.343	199.4	0.04	0.062	1.6	1.7318	0.9287			8.372
125.3	124.6	22.911	25.8126	36.685	r	5.31	0.312	2.7	1.7341	0.9020			8.254
201.3	200.1	11.623	27.7192	35.203	113.2	24.52	1.615	11.4	0.8576	0.4330			7.949
299.6	297.7	9.182	28.3340	34.876	r	28.56	1.872	15.3	0.5409	0.2727			7.895
400.2	397.6	8.101	28.8690	34.742	127.7	30.14	1.980	17.8	0.4369	0.2210			7.879
501.8	498.4	7.244	29.4010	34.663	132.6	31.56	2.077	20.4	0.3458	0.1760			7.866
600.5	596.3	6.564	29.9198	34.622	129.9	33.28	2.201	23.2	0.1917	0.1046			7.843
800.2	794.2	5.085	31.0092	34.590	124.4	r	2.356	30.2	0.0164	0.0156			7.826
1000.9	992.9	4.775	32.0716	34.729	152.1	32.18	2.138	29.3	0.0020	0.0088			7.862
1201.3	1191.2	4.617	33.1173	34.882	184.2	26.74	1.820	24.3	0.0293	0.0205			7.925
1400.6	1388.1	4.381	34.1138	34.963	218.7	22.50	1.516	19.9					7.972
1499.2	1485.5	4.271	34.5858	34.980	229.5	21.60	1.412	18.6	0.0823	0.0518			7.986
1601.1	1586.1	4.062	35.0782	34.986	240.4	20.87	1.356	18.1	0.0729	0.0469			7.998
1700.3	1684.0	3.899	35.5475	34.988	245.7	20.18	1.317	17.8	0.0865	0.0557			8.007
1799.2	1781.5	3.719	36.0151	34.987	252.0	19.71	1.281	17.9	0.0889	0.0538			8.015
2001.0	1980.4	3.454	36.9486	34.978	254.9	19.63	1.280	19.2	0.0547	0.0362			8.017
2202.4	2178.7	3.178	37.8784	34.966	256.1	19.78	1.290	21.8	0.0200	0.0196			8.017
2399.0	2372.1	2.955	38.7761	34.956	257.2	19.75	1.301	23.8	0.0299	0.0225			8.018
2700.1	2667.9	2.742	40.1316	34.943	258.4	19.76	1.303	25.6	0.0417	0.0274			8.017
2999.2	2961.4	2.560	41.4674	34.933	257.5	19.95	1.327	28.6	0.0372	0.0303			8.017
3199.2	3157.4	2.417	42.3593	34.925	257.2	20.14	1.335	30.7	0.0438	0.0313			8.014
3398.4	3352.5	2.272	43.2435	34.915	258.6	20.11	1.331	32.3	0.0534	0.0352			8.014
3545.9	3496.8	2.152	43.8991	34.909	260.7	19.81	1.328	32.3	0.0708	0.0420			8.016
3698.4	3645.9	2.061	44.5711	34.903	262.2	19.47	1.316	32.5	0.0563	0.0401			8.016
3698.8	3646.3	2.060	44.5737	34.905	262.2	19.48	1.319	32.5	0.0585	0.0381			8.016
3848.5	3792.6	1.994	45.2280	34.900	262.5	19.58	1.324	33.6	0.0589	0.0420			8.017
3998.9	3939.5	1.932	45.8827	34.895	261.8	19.99	1.335	35.0	0.0664	0.0508			8.013
4197.8	4133.6	1.834	46.7465	34.885	258.8	20.67	1.382	39.6	0.0553	0.0381			8.007
4398.7	4329.4	1.616	47.6259	34.860	252.0	22.15	1.490	51.0	0.0476	0.0459			7.991
4597.2	4522.8	1.149	48.5200	34.805	239.7	25.42	1.744	75.7	0.0274	0.0215			7.961
4724.5	4646.7	1.073	49.0693	34.796	237.3	25.90	1.758	79.7	0.0190	0.0176			7.957

### Station 200

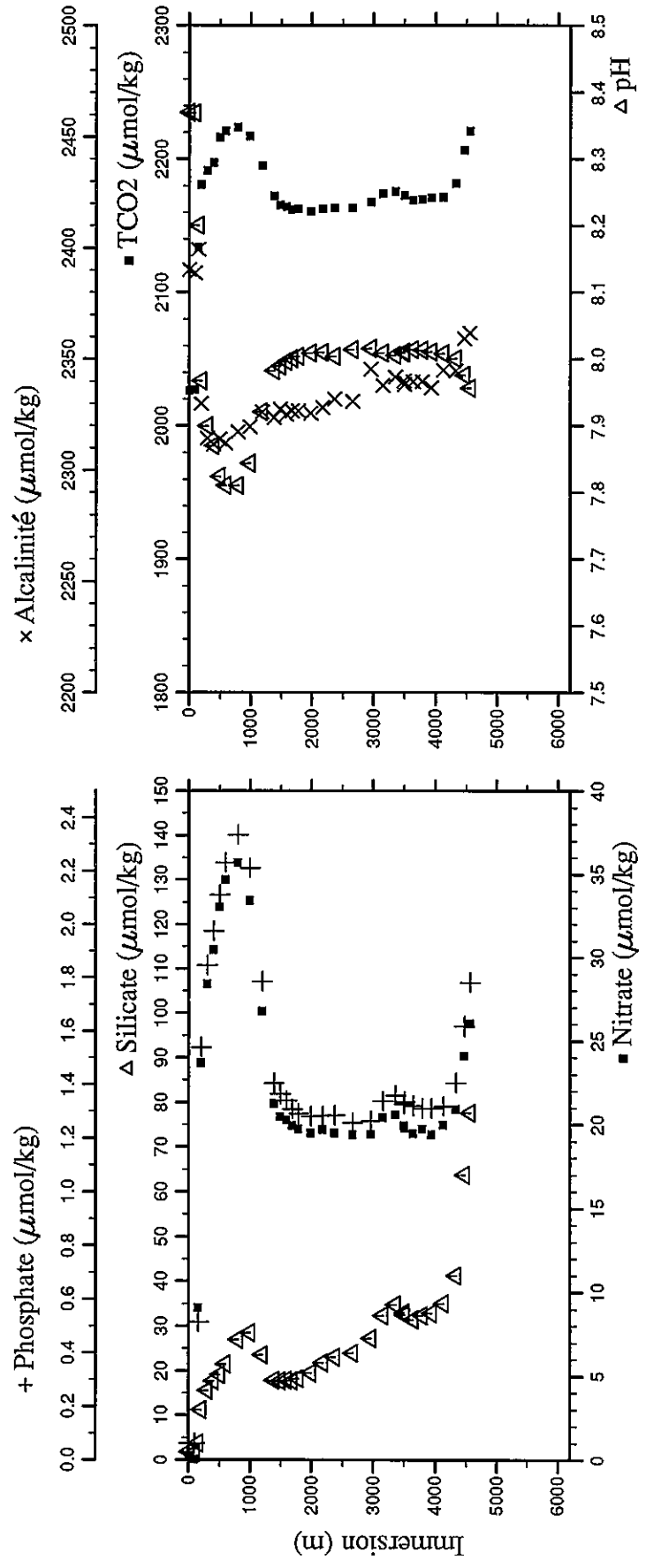
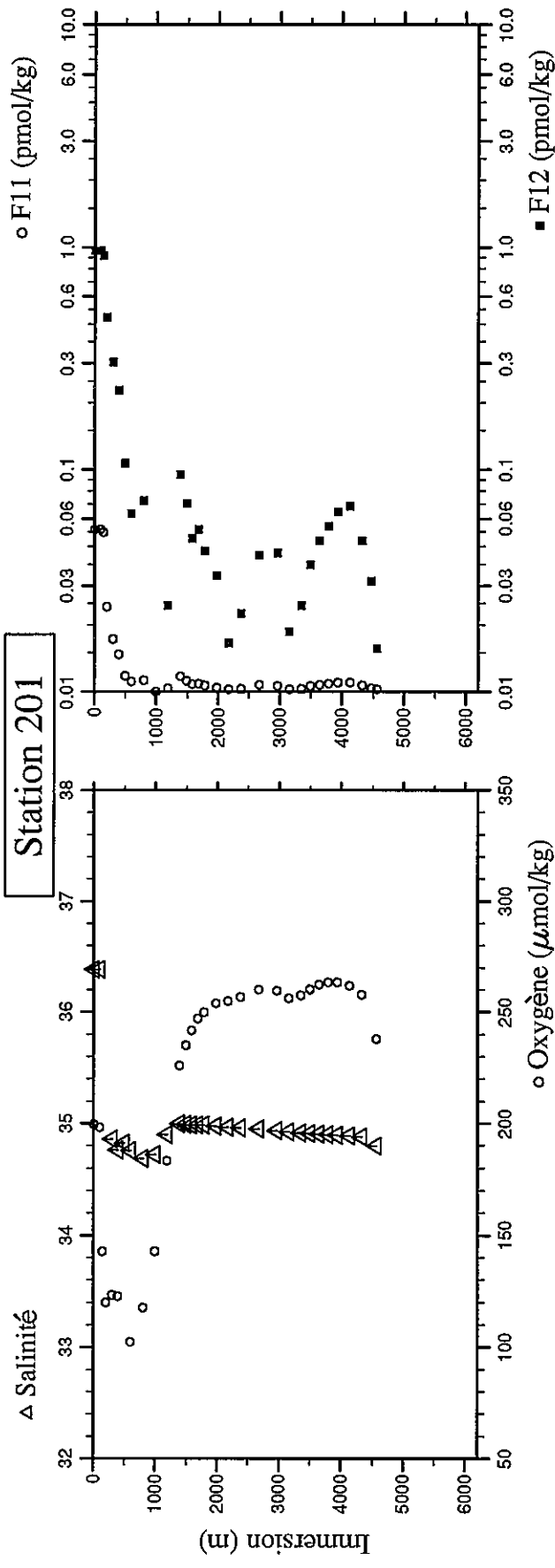


$\blacksquare$  Nitrate ( $\mu\text{mol/kg}$ )

Station : 201 Campagne : CITHER 2  
 Date : 12-03-94 Heure : 2 h 3 mn  
 Position : N 7 24.95 W 44 30.50  
 Dernier niveau à : 4637  
 Nb prélèvements : 32

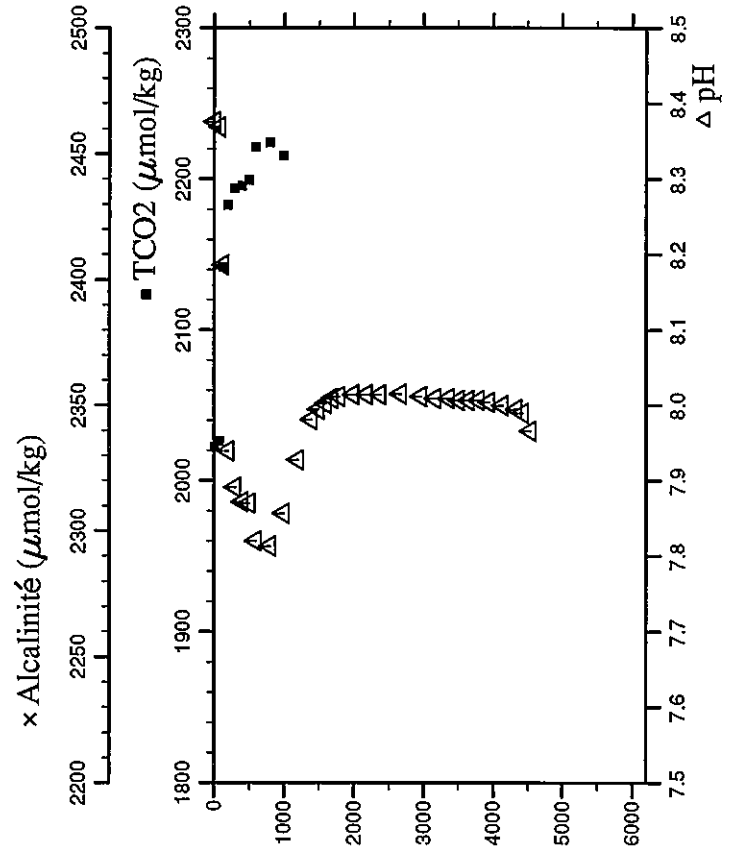
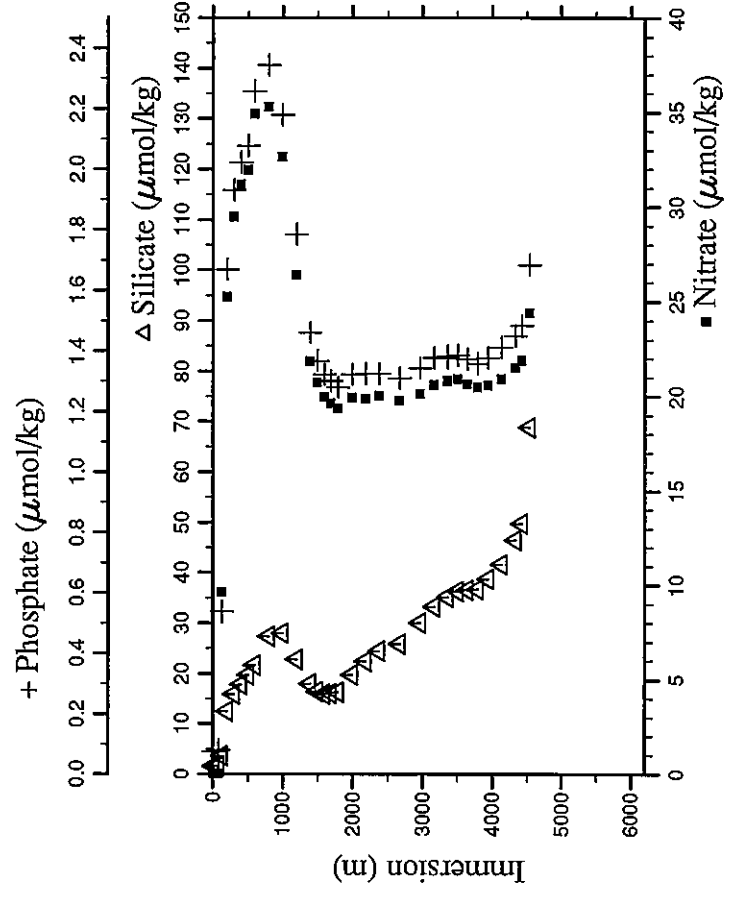
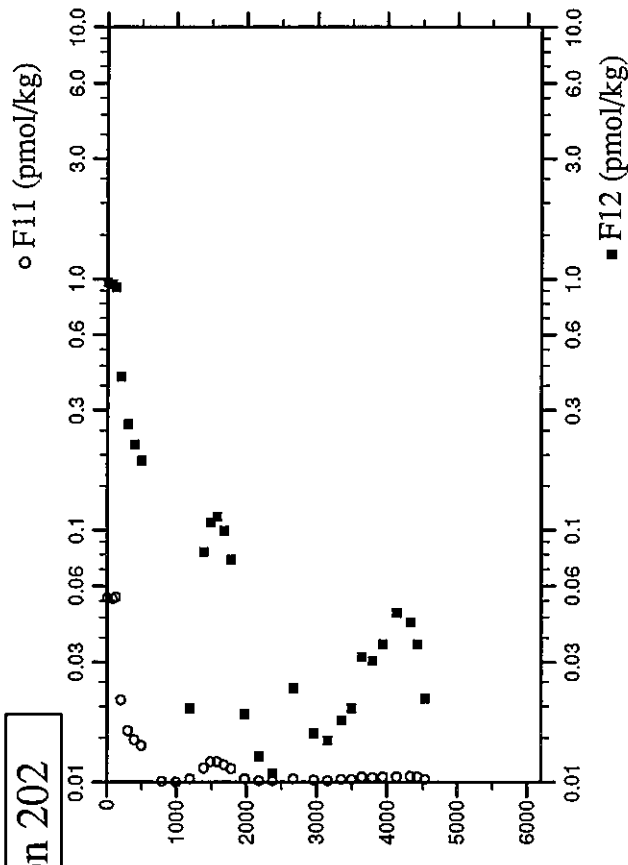
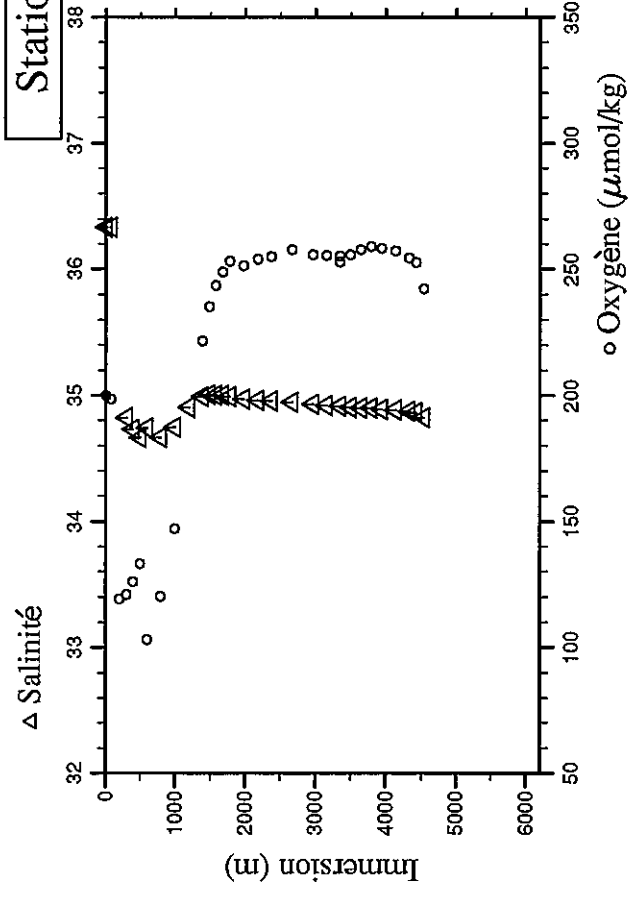
PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGÈNE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
dbar	metres	deg.ceils.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
3.8	3.8	26.883	23.8151	36.384	199.4	0.22	0.062	1.8	1.7019	0.9628	2026.56	2390.2	8.370
95.9	95.3	26.829	24.2191	36.383	198.3	0.04	0.062	1.6	1.7052	0.9657	2027.46	2388.6	8.369
150.5	149.6	20.047	26.5460	36.573 r	142.7	9.07	0.515	3.7	1.6724	0.9149	2133.75	2399.3	8.201
201.1	199.9	11.545	27.7549	35.247 r	120.0	23.70	1.540	11.2	0.8919	0.4838	2180.77	2329.8	7.968
299.9	298.0	9.110	28.3454	34.860	123.3	28.39	1.846	15.5	0.5535	0.3050	2191.26	2314.4	7.900
399.4	396.8	8.260	28.8564	34.763	122.6	30.49	1.976	17.7	0.3940	0.2268	2197.11	2311.5	7.870
500.6	497.2	8.145	29.3786	34.822	97.6 r	33.05	2.110	19.1	0.1689	0.1066	2216.19	2313.8	7.824
601.1	596.9	7.302	29.9150	34.756	102.3	34.69	2.232	21.5	0.1067	0.0635	2220.89	2312.0	7.811
800.8	794.8	5.948	30.9655	34.688	117.5	35.71	2.335	27.0	0.1180	0.0724	2223.84	2317.1	7.811
1000.9	992.9	4.980	32.0374	34.721	142.9	33.44	2.211	28.5	0.0043	0.0049	2217.28	2319.4	7.844
1199.8	1189.7	4.828	33.0961	34.902	183.2	26.77	1.784	23.6	0.0354	0.0244	2194.95	2326.1	7.921
1400.7	1388.2	4.522	34.1200	34.997	226.0	21.24	1.405	17.9	0.1612	0.0704	2172.26	2323.5	7.983
1500.0	1486.3	4.242	34.6023	34.991	235.1	20.48	1.366	17.7	0.1118	0.0748	2165.48	2327.4	7.990
1601.0	1586.0	3.996	35.0885	34.988	241.8	20.26	1.339	17.9	0.0762	0.0489	2164.10	2325.1	7.996
1700.4	1684.0	3.861	35.5526	34.989	247.1	19.94	1.307	17.7	0.0823	0.0538	2161.86	2326.6	8.001
1799.9	1782.2	3.714	36.0173	34.985	249.9	19.72	1.281	18.2	0.0662	0.0430	2162.57	2326.6	8.004
2000.9	1980.3	3.467	36.9466	34.978	253.9	19.49	1.291	19.5	0.0453	0.0332	2160.67	2325.6	8.009
2199.3	2175.6	3.222	37.8580	34.967	255.0	19.71	1.283	21.8	0.0230	0.0166	2162.52	2328.2	8.010
2399.0	2372.0	3.043	38.7661	34.959	256.7	19.40	1.285	23.1	0.0306	0.0225	2163.24	2332.0	8.004
2699.2	2667.0	2.826	40.1179	34.952	260.0	19.44	1.257	23.9	0.0712	0.0411	2163.20	2330.9	8.014
3000.4	2962.6	2.583	41.4701	34.938	259.5	19.44	1.264	27.3	0.0625	0.0420	2167.38	2345.3	8.016
3199.2	3157.4	2.408	42.3599	34.924	256.2	20.41	1.338	32.4	0.0245	0.0186	2173.73	2338.0	8.009
3399.5	3353.5	2.252	43.2510	34.915	257.5	20.59	1.359	34.7	0.0292	0.0244	2175.52	2341.9	8.006
3548.4	3499.2	2.151	43.9102	34.910	260.1	19.93	1.328	33.0	0.0635	0.0371	2175.52	2340.1	8.009
3548.7	3499.5	2.147	43.9126	34.910	260.1	19.76	1.335	32.5			2172.77	2338.4	8.011
3698.1	3645.6	2.069	44.5694	34.907	262.3	19.46	1.321	31.5	0.0749	0.0479	2169.41	2339.8	8.014
3849.2	3793.3	1.989	45.2321	34.902	263.4	19.73	1.311	32.3	0.0867	0.0557	2169.84	2339.8	8.013
3999.4	3939.9	1.934	45.8864	34.897	263.9	19.38	1.311	32.9	0.0993	0.0645	2170.96	2336.9	8.011
4197.8	4133.5	1.877	46.7433	34.892	261.4	19.97	1.318	35.0	0.0948	0.0684	2171.48	2344.8	8.008
4399.4	4330.1	1.769	47.6136	34.880	257.7	20.91	1.406	41.2	0.0693	0.0479	2181.66	2344.6	8.001
4547.8	4474.7	1.414	48.2854	34.833 r	245.3 r	24.09	1.617	63.8	0.0396	0.0313	2206.52	2359.1	7.976
4637.4	4561.9	1.104	48.6953	34.801	237.9	26.03	1.781	77.6	0.0243	0.0156	2220.94	2361.7	7.957

Station 201



Station : 202 Campagne : CITHER 2  
 Date : 12-03-94 Heure : 8 h 20 mn  
 Position : N 7 42.64 W 45 0.83  
 Dernier niveau à : 4611  
 Nb prélèvements : 32

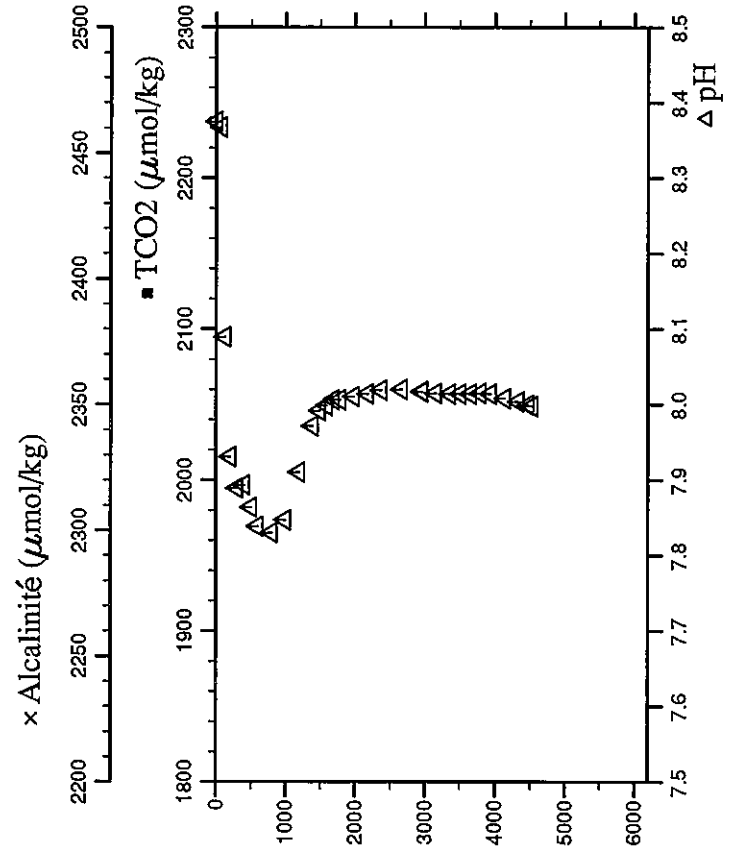
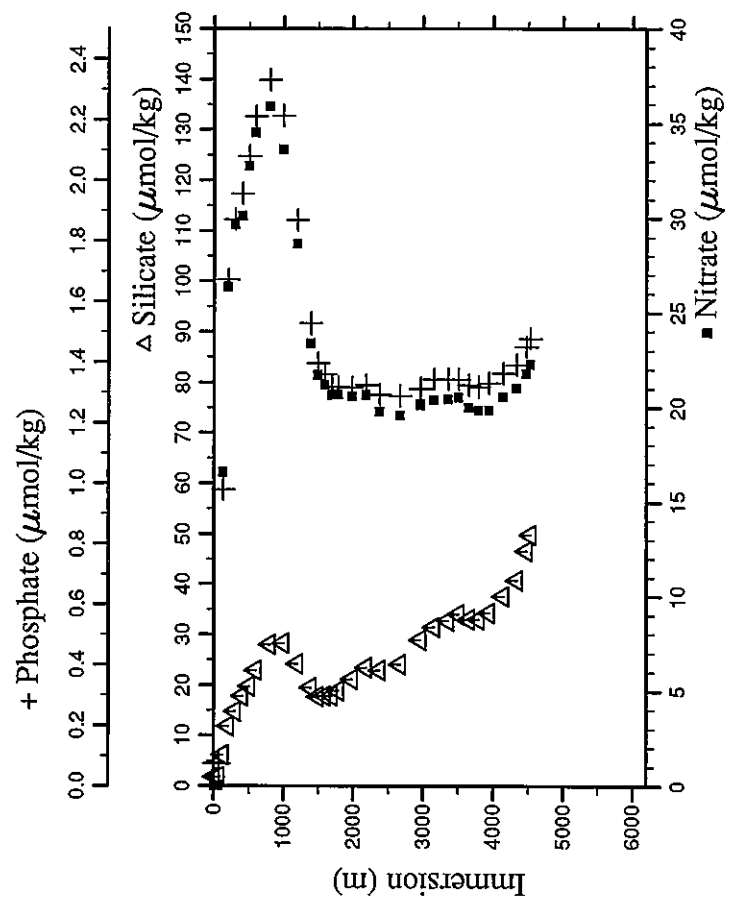
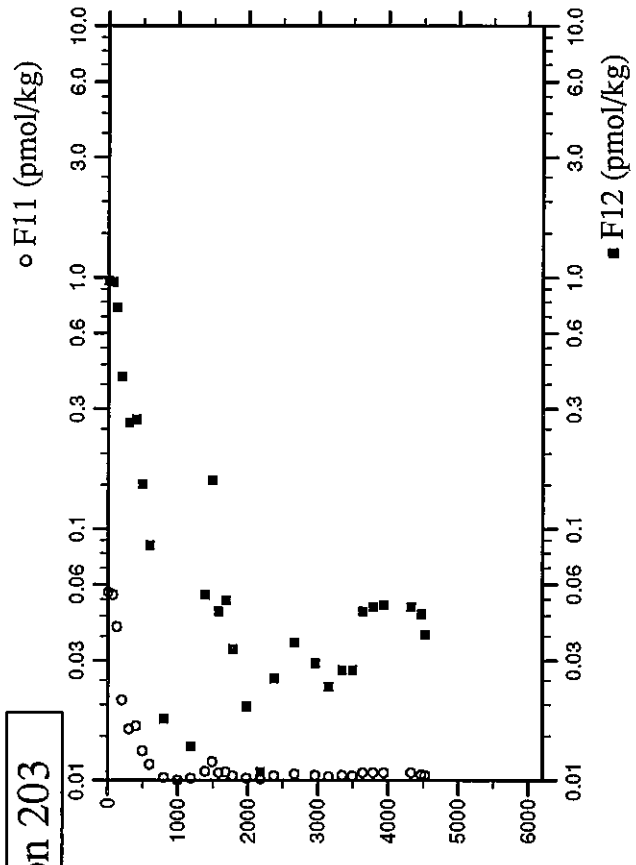
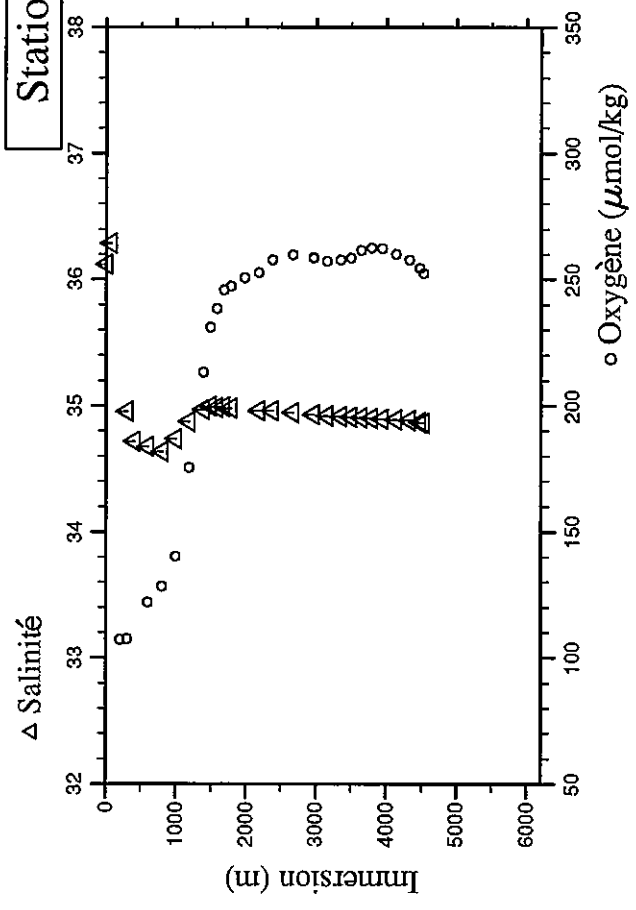
PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXIGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITTE	ALCALI- NITTE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
6.4	6.4	26.948	23.7669	36.335	199.7	0.04	0.074	1.6	1.7117	0.9677	2022.26		8.376
81.2	80.7	26.834	24.1176	36.334	198.4	0.04	0.080	1.6	1.7003	0.9550	2026.32		8.369
124.6	123.9	20.606	26.4725	36.641	r	r	0.540	3.6	1.7150	0.9255	2141.75		8.186
200.8	199.6	10.723	27.8004	35.088	r	r	1.668	12.5	0.7591	0.4066	2182.85		7.940
300.8	298.9	8.815	28.3681	34.825	119.1	25.26	1.931	16.0	0.4779	0.2649	2193.74		7.891
400.7	398.1	8.025	28.8760	34.734	126.1	29.49	2.022	17.8	0.3944	0.2190	2195.67		7.872
501.3	497.9	7.286	29.3946	34.667	133.2	31.20	2.077	19.8	0.3373	0.1897	2199.10		7.870
600.8	596.6	7.241	29.9114	34.745	103.2	31.97	2.257	21.7			2221.52		7.820
800.3	794.3	5.630	30.9970	34.668	120.1	34.91	2.344	27.4	0.0103	0.0059	2224.40		7.813
1000.1	992.1	4.951	32.0553	34.746	147.0	35.28	2.179	28.0	0.0034	0.0068	2215.44		7.857
1201.5	1191.3	4.781	33.1138	34.905	184.7	32.64	2.179	28.0	0.0328	0.0196			7.928
1399.8	1387.3	4.564	34.1048	34.993	221.6	26.42	1.784	22.8	0.1346	0.0821			7.981
1502.5	1488.7	4.384	34.6022	35.005	235.1	21.86	1.461	18.0	0.1909	0.1075			7.995
1600.1	1585.1	4.179	35.0687	35.002	243.4	20.76	1.322	15.9	0.1933	0.1134			8.002
1700.9	1684.5	3.979	35.5458	35.000	248.7	19.97	1.301	16.1	0.1616	0.0997			8.009
1799.8	1782.1	3.783	36.0134	34.993	253.1	19.62	1.280	16.3	0.1275	0.0762			8.012
2000.6	1980.0	3.454	36.9442	34.970	253.8	19.37	1.322	19.8	0.0299	0.0186			8.014
2199.7	2176.0	3.172	37.8640	34.963	253.8	19.88	1.326	22.4	0.0146	0.0127			8.014
2400.7	2373.7	2.961	38.7809	34.954	255.0	20.03	1.324	24.4	0.0152	0.0108			8.015
2699.6	2667.4	2.749	40.1283	34.947	257.6	19.77	1.311	25.9	0.0304	0.0235			8.012
2998.1	2960.3	2.531	41.4646	34.931	255.8	20.15	1.344	30.1	0.0196	0.0156			8.012
3200.3	3158.5	2.397	42.3640	34.922	255.3	20.61	1.377	33.2	0.0151	0.0147			8.009
3398.7	3352.7	2.262	43.2443	34.917	253.0	20.86	1.378	35.1	0.0243	0.0176			8.009
3399.2	3353.2	2.261	43.2473	34.918	255.2	20.80	1.385	35.1	0.0243	0.0176			8.009
3548.7	3499.5	2.173	43.9054	34.907	255.8	20.92	1.386	36.3	0.0247	0.0196			8.007
3698.3	3645.8	2.069	44.5665	34.902	257.6	20.66	1.374	36.5	0.0493	0.0313			8.007
3847.4	3791.5	2.011	45.2179	34.899	259.1	20.49	1.359	36.6	0.0428	0.0303			8.007
3999.5	3940.0	1.939	45.8809	34.892	258.3	20.59	1.378	38.7	0.0488	0.0352			8.004
4196.3	4132.1	1.844	46.7361	34.885	257.2	20.92	1.412	41.6	0.0494	0.0469			8.000
4399.0	4329.7	1.708	47.6185	34.873	254.5	21.52	1.450	46.4	0.0555	0.0430			7.995
4497.2	4425.3	1.652	48.0415	34.866	252.6	21.90	1.483	49.7	0.0511	0.0352			7.990
4611.1	4536.3	1.301	48.5627	34.822	242.3	24.40	1.683	68.8	0.0283	0.0215			7.966



Station : 203 Campagne : CITHER 2  
 Date : 12-03-94 Heure : 15 h 1 mn  
 Position : N 8 0.06 W 45 31.25  
 Dernier niveau à : 4603  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSSION	TEMP. POT. SONDE	STIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI-NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
2.7	2.7	26.578	23.7101	36.122	201.1	0.04	0.074	1.8	1.7474	0.9718			8.375
69.8	69.4	26.583	24.1148	36.288	200.5	0.04	0.074	1.8	1.7217	0.9600			8.368
126.5	125.8	17.201	26.8693	36.063	117.8	16.59	0.979	6.2	1.4264	0.7599			8.090
200.8	199.6	11.231	27.7830	35.188	107.1	26.37	1.673	11.9	0.7462	0.4036			7.931
300.7	298.8	9.568	28.3459	34.954	107.5	29.65	1.872	14.8	0.4792	0.2639			7.890
401.2	398.6	7.917	28.8867	34.718	142.5	30.13	1.956	17.8	0.5042	0.2718			7.894
500.5	497.1	7.555	29.3993	34.725	122.4	32.76	2.080	19.8	0.2734	0.1506			7.864
600.6	596.4	6.723	29.9397	34.679	121.9	34.50	2.211	22.9	0.1496	0.0860			7.839
801.4	795.4	5.533	30.9857	34.637	128.2	35.90	2.331	28.0	0.0240	0.0176			7.830
1001.4	993.4	5.092	32.0346	34.737	140.2	33.63	2.212	28.3	0.0032	0.0029			7.847
1200.3	1190.1	4.834	33.0762	34.874	175.3	28.63	1.869	24.2	0.0202	0.0137			7.911
1400.2	1387.7	4.578	34.0903	34.972	213.3	23.40	1.529	19.5	0.0822	0.0547			7.972
1500.4	1486.7	4.369	34.5881	34.995	230.9	21.72	1.396	17.7	0.1741	0.1564			7.992
1601.2	1586.2	4.086	35.0774	34.989	238.5	21.23	1.360	17.9	0.0743	0.0469			7.999
1702.0	1685.6	3.898	35.5555	34.990	245.7	20.69	1.318	17.8	0.0813	0.0518			8.007
1801.8	1784.0	3.733	36.0214	34.984	247.2	20.70	1.318	18.8	0.0421	0.0332			8.007
1999.1	1978.5	3.431	36.9392	34.967	250.5	20.61	1.316	21.1	0.0212	0.0196			8.011
2200.5	2176.8	3.171	37.8682	34.963	252.7	20.67	1.324	23.5	0.0125	0.0108			8.014
2398.4	2371.4	3.003	38.7684	34.960	257.8	19.81	1.294	22.9	0.0411	0.0254			8.019
2698.9	2666.7	2.785	40.1226	34.946	259.7	19.59	1.288	24.1	0.0586	0.0352			8.020
2999.3	2961.4	2.503	41.4748	34.930	258.8	20.20	1.314	28.9	0.0466	0.0293			8.017
3000.0	2982.1	2.500	41.4787	34.932	258.6	20.13	1.311	28.9	0.0475	0.0293			8.018
3198.7	3156.9	2.391	42.3588	34.923	257.2	20.39	1.345	31.4	0.0377	0.0235			8.015
3398.9	3352.9	2.272	43.2464	34.916	257.6	20.44	1.345	32.7	0.0489	0.0274			8.014
3549.3	3500.1	2.155	43.9126	34.908	258.6	20.54	1.344	34.0	0.0434	0.0274			8.014
3700.3	3647.7	2.065	44.5794	34.904	261.5	20.00	1.324	33.0	0.0758	0.0469			8.014
3848.5	3792.5	2.001	45.2276	34.902	262.6	19.87	1.318	33.0	0.0743	0.0489			8.015
3999.6	3940.1	1.945	45.8837	34.897	262.2	19.88	1.332	34.3	0.0748	0.0499			8.014
4199.1	4134.8	1.877	46.7476	34.889	260.1	19.58	1.363	37.5					8.008
4397.8	4328.5	1.794	47.6045	34.886	257.8	21.00	1.391	40.7	0.0733	0.0489			8.008
4546.9	4473.7	1.697	48.2486	34.869	254.4	21.79	1.449	46.6	0.0579	0.0459			8.000
4602.9	4528.2	1.653	48.4910	34.863	252.3	22.26	1.477	49.8	0.0492	0.0381			7.998

Station 203

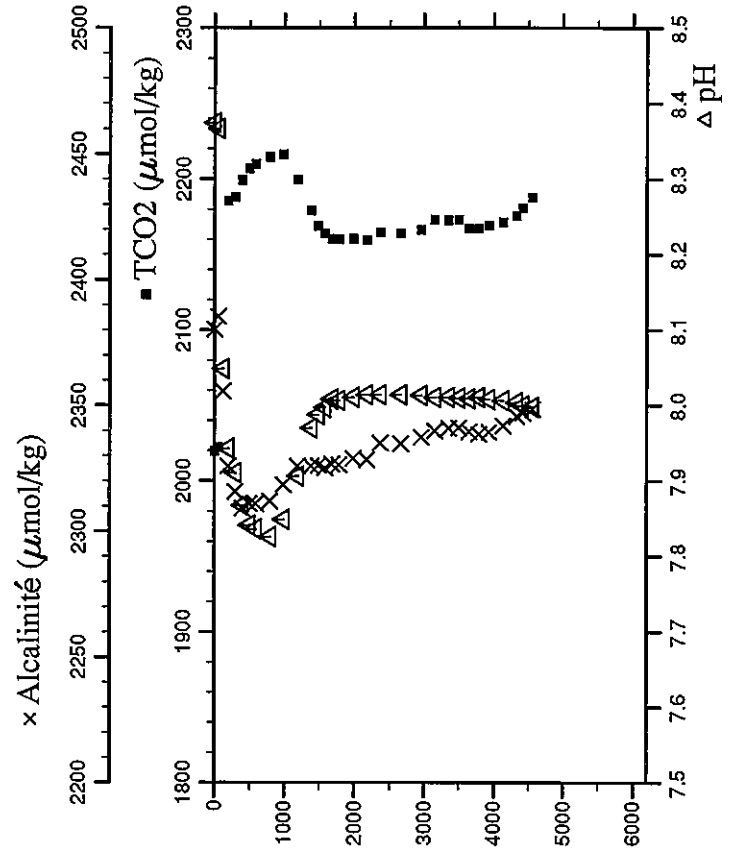
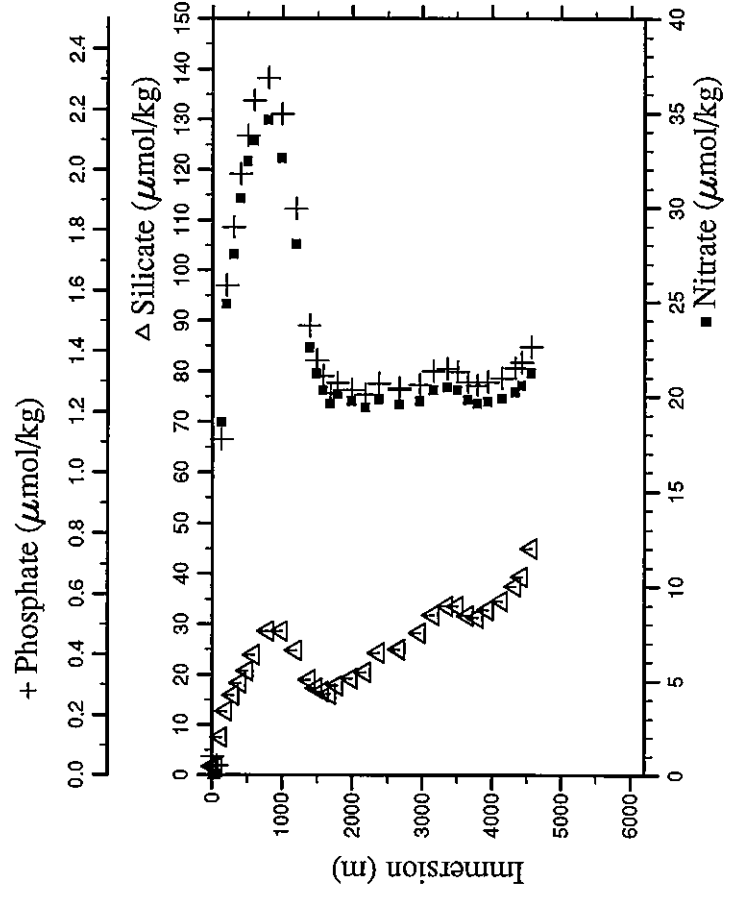
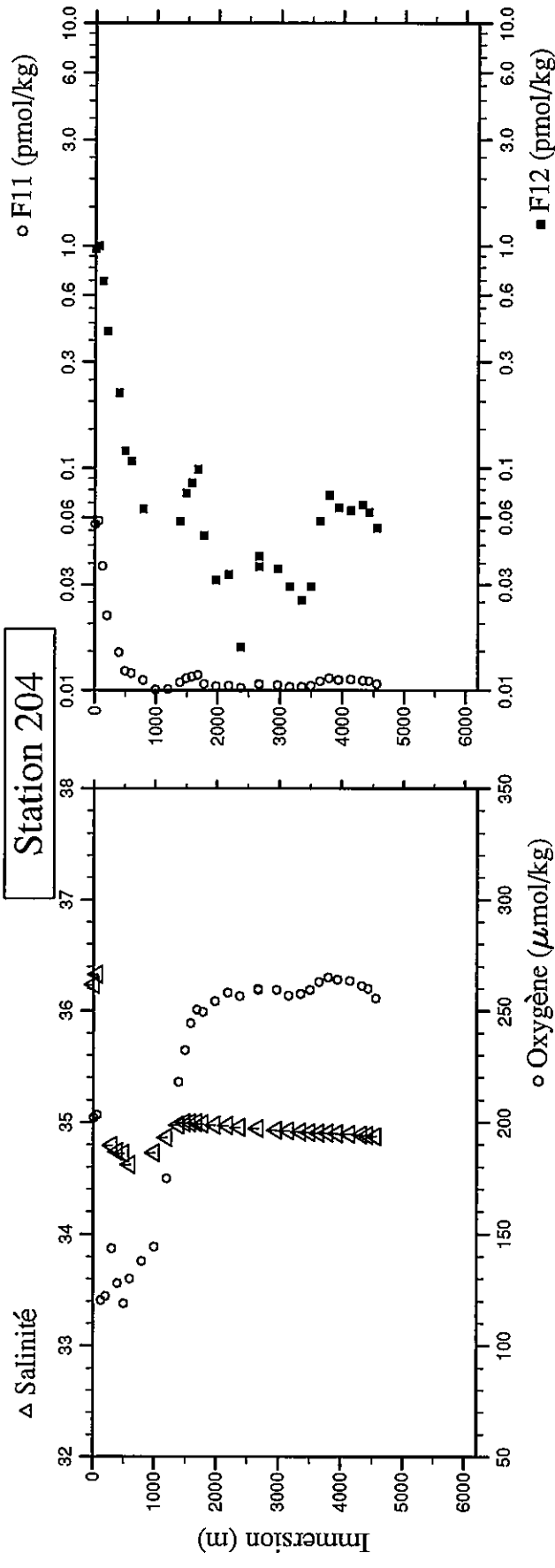




Station : 204 Campagne : CITHER 2  
 Date : 12-03-94 Heure : 21 h 18 mn  
 Position : N 8 17.49 W 46 1.63  
 Dernier niveau à : 4637  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
6.4	6.4	26.344	23.8856	36.238	202.0	0.00	0.062	1.7	1.7479	0.9707	2019.58	2380.3	8.374
61.9	61.5	25.747	24.3774	36.329	203.2	0.04	0.033	1.6	1.7843	0.9990	2022.07	2385.2	8.367
126.9	126.2	15.536	27.0395	35.810	120.4	18.66	1.109	7.6	1.3091	0.6946	2355.6	2355.6	8.049
200.8	199.6	10.849	27.8010	35.118	122.3	24.89	1.618	12.7	0.7846	0.4125	2185.18	2325.8	7.943
300.9	299.0	8.704	28.3651	34.796	143.5	27.53	1.811	15.9			2188.01	2315.7	7.911
401.0	398.4	7.923	28.8987	34.737	128.1	30.47	1.987	18.3	0.3988	0.2180	2199.43	2309.1	7.868
502.7	499.3	7.342	29.4365	34.723	118.8	32.45	2.114	20.8	0.2044	0.1193	2206.97	2310.9	7.841
600.2	596.0	6.359	29.9465	34.622	130.2	33.53	2.229	24.0	0.1770	0.1076	2209.96	2310.7	7.836
799.2	793.2	5.292	30.9711	34.593	137.9	34.63	2.304	28.6	0.1061	0.0655	2214.73	2311.8	7.826
1000.3	992.3	5.018	32.0311	34.725	144.2	32.61	2.185	28.6	0.0055	0.0029	2216.15	2318.5	7.849
1201.7	1191.5	4.776	33.0825	34.865	174.8	22.08	1.871	24.9	0.0152	0.0098	2199.66	2325.8	7.907
1398.9	1386.4	4.540	34.0934	34.978	174.8	22.58	1.484	19.0	0.0877	0.0577	2178.82	2325.8	7.970
1499.1	1485.4	4.345	34.5868	34.995	232.3	21.23	1.370	17.4	0.1281	0.0772	2168.66	2326.0	7.988
1598.2	1583.2	4.118	35.0642	34.996	244.4	20.35	1.318	16.7	0.1442	0.0860	2163.71	2325.1	7.997
1699.9	1683.5	3.928	35.5470	34.998	250.6	19.63	1.261	16.2	0.1641	0.0987	2160.50	2326.6	8.008
1798.0	1780.3	3.748	36.0049	34.986	249.5	20.12	1.295	17.8	0.0696	0.0499	2159.75	2326.2	8.007
2000.7	1980.0	3.448	36.9476	34.975	254.3	19.77	1.271	19.3	0.0454	0.0313	2160.48	2328.9	8.011
2200.3	2176.5	3.206	37.8666	34.970	258.1	19.41	1.258	20.5	0.0504	0.0332	2159.49	2328.4	8.014
2399.4	2372.4	2.938	38.7794	34.956	256.6	19.86	1.294	24.3	0.0274	0.0156	2164.65	2334.9	8.014
2699.0	2666.8	2.721	40.1299	34.948	259.5	19.59	1.273	25.1	0.0664	0.0401	2164.05	2334.7	8.014
2699.5	2667.2	2.726	40.1308	34.947	259.9	19.58	1.279	25.0	0.0641	0.0362	2164.05	2334.8	8.014
2997.7	2959.8	2.512	41.4659	34.933	259.5	19.76	1.290	28.3	0.0569	0.0352	2166.15	2337.3	8.013
3198.6	3156.7	2.390	42.3575	34.927	257.0	20.35	1.333	31.8	0.0379	0.0293	2173.03	2339.8	8.011
3398.4	3352.4	2.260	43.2441	34.917	257.7	20.47	1.341	33.6	0.0362	0.0254	2172.79	2340.9	8.011
3549.6	3500.3	2.188	43.9089	34.912	259.5	20.34	1.332	33.6	0.0467	0.0293	2172.87	2341.0	8.010
3699.5	3646.9	2.098	44.5721	34.905	263.1	19.83	1.298	31.7	0.0944	0.0577	2167.41	2339.5	8.009
3847.4	3791.4	2.018	45.2210	34.905	265.2	19.62	1.286	31.3	0.1260	0.0753	2167.14	2338.5	8.011
3998.9	3939.4	1.955	45.8810	34.901	264.1	19.74	1.297	32.9	0.1106	0.0665	2169.31	2339.3	8.008
4199.3	4134.9	1.898	46.7467	34.895	263.6	19.90	1.311	34.6	0.1121	0.0645	2171.20	2341.8	8.007
4398.9	4329.5	1.839	47.6044	34.891	261.2	20.24	1.344	37.5	0.1039	0.0684	2175.68	2345.6	8.004
4498.5	4426.5	1.811	48.0314	34.886	260.1	20.59	1.364	39.4	0.0957	0.0635	2180.75	2346.8	8.000
4634.1	4558.6	1.733	48.6152	34.876	255.8	21.27	1.413	45.1	0.0680	0.0538	2188.04	2348.4	7.998

# Station 204

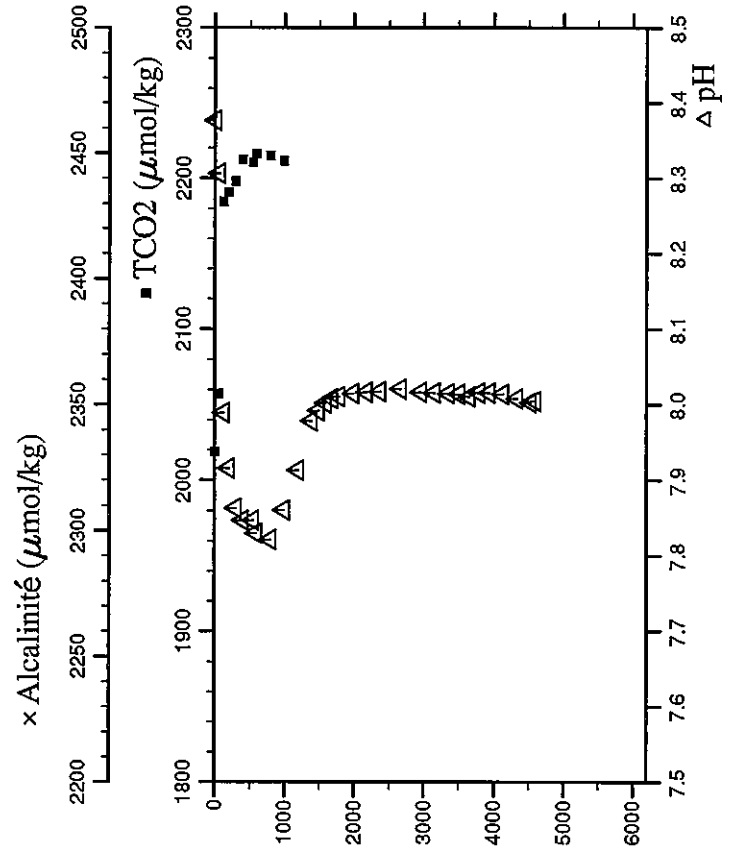
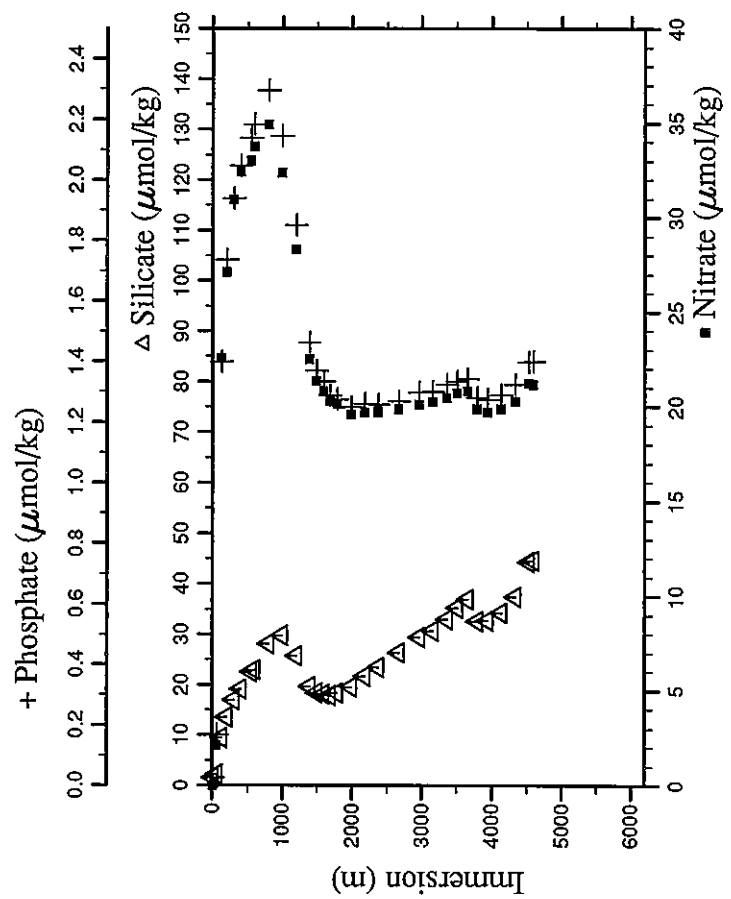
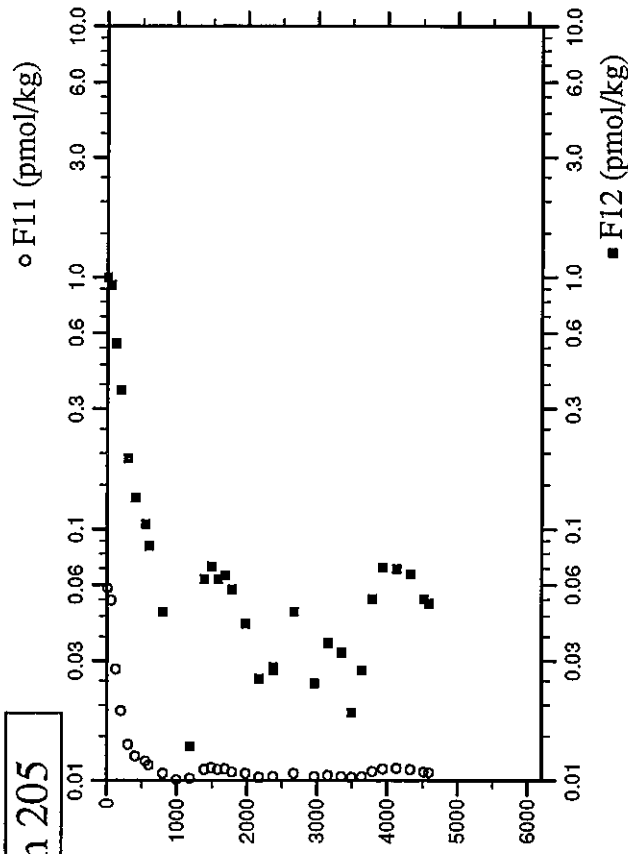
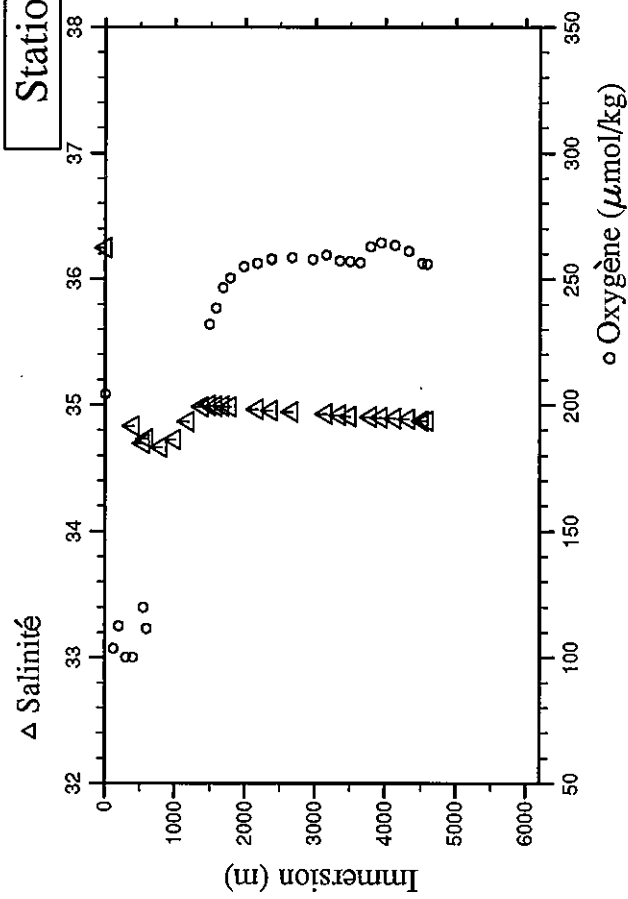


Δ pH

Station : 205 Campagne : CITHER 2  
 Date : 13-03-94 Heure : 3 h 58 mn  
 Position : N 8 35.01 W 46 31.93  
 Dernier niveau à : 4667  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI-NITRE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.0	5.0	25.702	24.0906	36.248	204.2	0.00	0.027	1.6	1.7863	0.9369	2018.82		8.377
61.6	61.2	24.446	24.7711	36.280	185.3	2.13	0.169	2.2	1.6755	0.9305	2057.34		8.307
126.4	125.7	13.848	27.1794	35.511	103.7	22.55	1.399	9.4	1.0334	0.5471	2184.67		7.990
200.9	199.7	10.409	27.8267	35.050	112.5	27.13	1.735	13.5	0.6467	0.3567	2190.90		7.916
300.6	298.7	9.195	28.3764	34.910	100.0	30.94	1.940	16.9	0.3360	0.1906	2198.18		7.863
401.6	399.0	8.380	28.9020	34.832	100.2	32.45	2.048	19.1	0.2282	0.1329	2212.40		7.847
549.9	546.1	7.134	28.6652	34.698	120.0	33.00	2.138	22.6	0.1804	0.1046	2210.69		7.847
600.5	596.3	7.082	29.9246	34.734	111.4	33.76	2.183	22.9	0.1414	0.0860	2216.46		7.830
800.8	794.8	5.679	30.9891	34.667	126.2	34.90	2.295	28.2	0.0692	0.0469	2214.80		7.822
1001.3	993.3	4.912	32.0487	34.725	150.7	32.38	2.144	29.8	0.0082	0.0059	2211.58		7.861
1200.5	1190.3	4.786	33.0779	34.869	175.2	28.29	1.850	25.7	0.0176	0.0137			7.913
1399.2	1386.7	4.543	34.1008	34.987	219.6	22.51	1.463	19.6	0.1055	0.0635			7.979
1499.3	1485.5	4.345	34.5868	34.996	232.1	21.35	1.369	18.4	0.1233	0.0713			7.992
1599.4	1584.4	4.165	35.0612	34.994	238.4	20.83	1.333	18.1	0.1038	0.0635			8.002
1700.5	1684.1	3.943	35.5460	34.994	246.4	20.27	1.286	17.8	0.1112	0.0655			8.008
1799.5	1781.7	3.755	36.0117	34.987	250.3	20.12	1.274	18.4	0.0764	0.0577			8.011
2001.0	1980.3	3.479	36.9465	34.961	255.0	19.60	1.249	19.5	0.0648	0.0420			8.015
2199.7	2175.9	3.238	37.8589	34.968	256.1	19.68	1.259	21.7	0.0344	0.0254			8.017
2399.6	2373.5	3.008	38.7740	34.955	257.8	19.68	1.258	23.5	0.0368	0.0283			8.018
2400.6	2373.5	3.007	38.7781	34.953	257.9	19.76	1.258	23.4	0.0396	0.0274			8.018
2699.7	2667.4	2.745	40.1307	34.947	258.6	19.88	1.268	26.3	0.0691	0.0469			8.021
2998.7	2960.8	2.550	41.4660	34.926	257.6	20.11	1.298	29.4	0.0375	0.0244			8.017
3200.2	3158.3	2.441	42.3601	34.929	259.5	20.22	1.300	30.7	0.0523	0.0352			8.016
3398.9	3352.9	2.321	43.2397	34.920	257.3	20.45	1.322	33.0	0.0400	0.0323			8.015
3549.5	3500.2	2.202	43.9067	34.911	256.9	20.72	1.322	35.3	0.0324	0.0186			8.014
3700.9	3648.3	2.118	44.5709	34.896	256.5	20.83	1.343	36.9	0.0359	0.0274			8.011
3849.4	3793.4	2.054	45.2239	34.905	262.9	19.86	1.281	32.6	0.0851	0.0528			8.016
3997.0	3937.5	1.992	45.8682	34.901	264.2	19.71	1.275	32.7	0.1102	0.0704			8.016
4199.0	4134.6	1.918	46.7433	34.897	263.3	19.86	1.289	34.3	0.1128	0.0694			8.014
4399.1	4329.7	1.847	47.6046	34.890	261.0	20.28	1.322	37.4	0.1039	0.0665			8.008
4598.5	4523.9	1.745	48.4635	34.876	256.1	21.22	1.397	44.3	0.0772	0.0528			8.003
4666.8	4590.4	1.738	48.7540	34.876	256.0	21.15	1.400	44.6	0.0723	0.0508			8.005

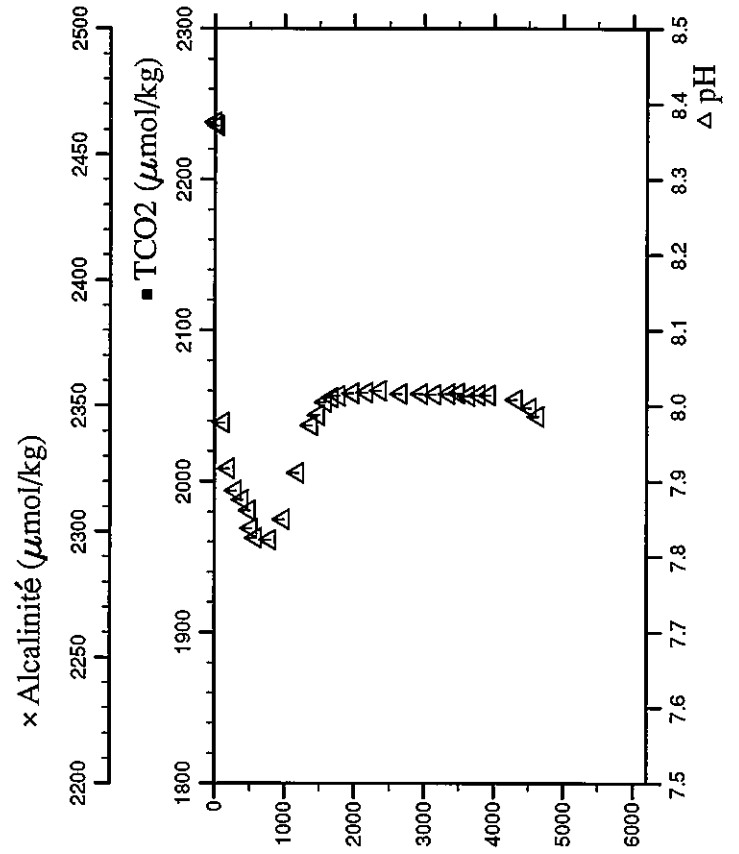
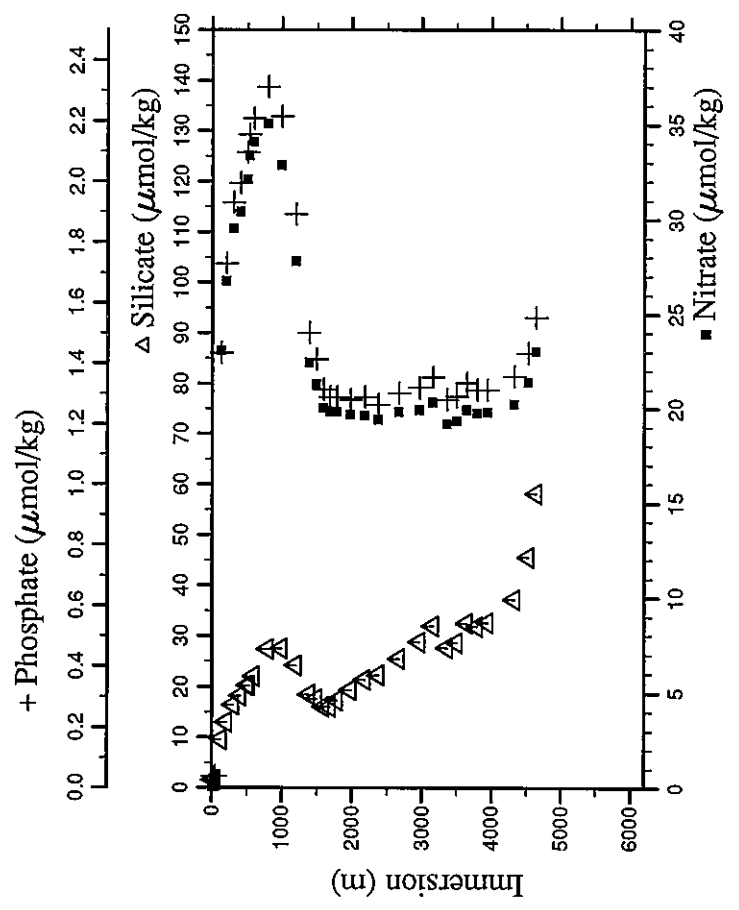
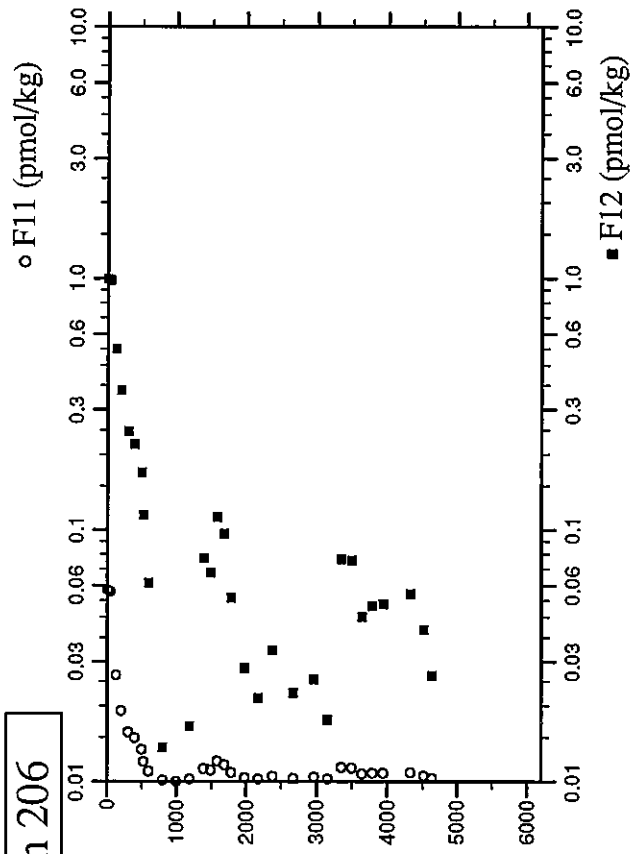
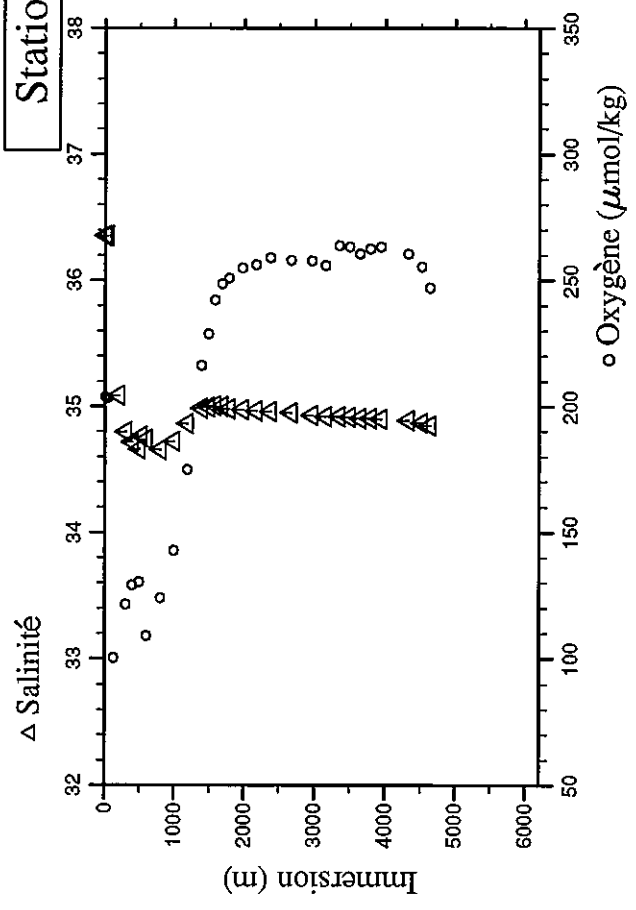
# Station 205



Station : 206 Campagne : CITHER 2  
 Date : 13-03-94 Heure : 10 h 21 mn  
 Position : N 8 52.49 W 47 2.60  
 Dernier niveau à : 4722  
 Nb prélèvements : 31

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg. cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.8	5.8	25.931	24.0994	36.353	203.8	0.04	0.039	1.6	1.7761	0.9900			8.376
45.3	45.0	25.871	24.2851	36.355	203.2	0.04	0.039	1.6	1.7624	0.9803			8.372
125.5	124.8	13.432	27.2790	35.521	100.4	23.08	1.436	9.6	0.9880	0.5256			7.978
201.7	200.5	10.497	27.8379	35.088	111.5	26.74	1.730	13.0	0.6574	0.3587			7.918
300.9	299.0	8.666	28.3791	34.801	121.5	29.51	1.930	16.5	0.4588	0.2463			7.888
400.9	398.3	7.913	28.8850	34.719	129.1	30.41	1.994	18.2	0.4044	0.2190			7.876
500.5	497.1	7.241	29.3933	34.662	130.4	32.09	2.097	20.3	0.3003	0.1691			7.862
530.6	526.9	7.535	29.5613	34.761	110.4	33.34	2.156	20.3	0.1872	0.1144			7.838
600.6	596.4	7.085	29.9273	34.736	109.1	34.09	2.209	22.0	0.0978	0.0616			7.825
801.0	795.0	5.582	30.9911	34.655	124.1	35.05	2.312	27.4	0.0156	0.0137			7.823
1001.1	993.1	5.013	32.0338	34.722	142.7	32.85	2.214	27.5	0.0031	0.0049			7.850
1200.1	1189.8	4.838	33.0676	34.865	174.8	27.80	1.892	24.2	0.0250	0.0166			7.912
1399.1	1386.6	4.634	34.0834	34.987	216.2	22.43	1.501	18.5	0.1234	0.0772			7.974
1499.6	1485.8	4.382	34.5795	34.995	228.6	21.31	1.415	17.6	0.1081	0.0674			7.988
1599.7	1584.6	4.200	35.0632	35.005	242.2	20.03	1.315	16.1	0.1928	0.1124			8.005
1700.5	1684.1	3.980	35.5423	35.000	248.6	19.85	1.289	16.1	0.1581	0.0968			8.011
1799.7	1781.9	3.741	36.0142	34.984	250.9	19.82	1.288	17.3	0.0825	0.0538			8.013
1999.0	1978.3	3.414	36.9433	34.977	254.9	19.71	1.280	19.4	0.0397	0.0283			8.017
2199.7	2175.9	3.168	37.8670	34.967	256.3	19.61	1.288	21.4	0.0245	0.0215			8.018
2399.1	2372.1	2.993	38.7718	34.960	259.1	19.44	1.264	22.3	0.0469	0.0332			8.020
2699.0	2666.7	2.755	40.1246	34.951	257.9	19.82	1.302	25.5	0.0291	0.0225			8.016
2998.8	2960.9	2.518	41.4701	34.933	257.8	19.94	1.321	28.8	0.0434	0.0254			8.016
3199.6	3157.7	2.392	42.3624	34.923	255.9	20.33	1.354	32.0	0.0267	0.0176			8.015
3398.0	3352.0	2.282	43.2412	34.919	263.9	19.20	1.280	27.6	0.1317	0.0762			8.016
3548.4	3499.1	2.225	43.9009	34.916	263.4	19.36	1.291	28.7	0.1261	0.0753			8.017
3697.3	3644.7	2.123	44.5572	34.907	260.4	19.94	1.336	32.5	0.0714	0.0450			8.013
3848.1	3792.1	2.050	45.2180	34.903	262.6	19.75	1.313	31.8	0.0805	0.0498			8.014
3997.2	3937.7	1.994	45.8670	34.898	263.2	19.80	1.312	32.6	0.0787	0.0508			8.014
4397.2	4327.8	1.845	47.5963	34.888	260.6	20.24	1.356	37.2	0.0869	0.0557			8.008
4597.5	4522.9	1.713	48.4612	34.871	255.3	21.39	1.433	45.6	0.0533	0.0401			7.997
4718.9	4641.0	1.539	48.9934	34.848	247.1	23.00	1.552	58.2	0.0318	0.0264			7.986

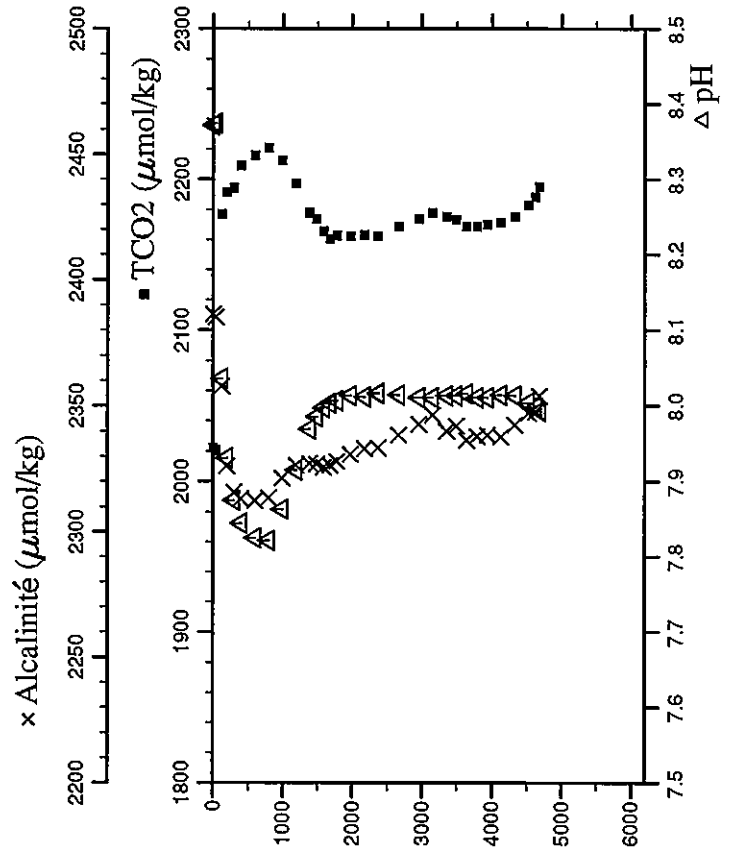
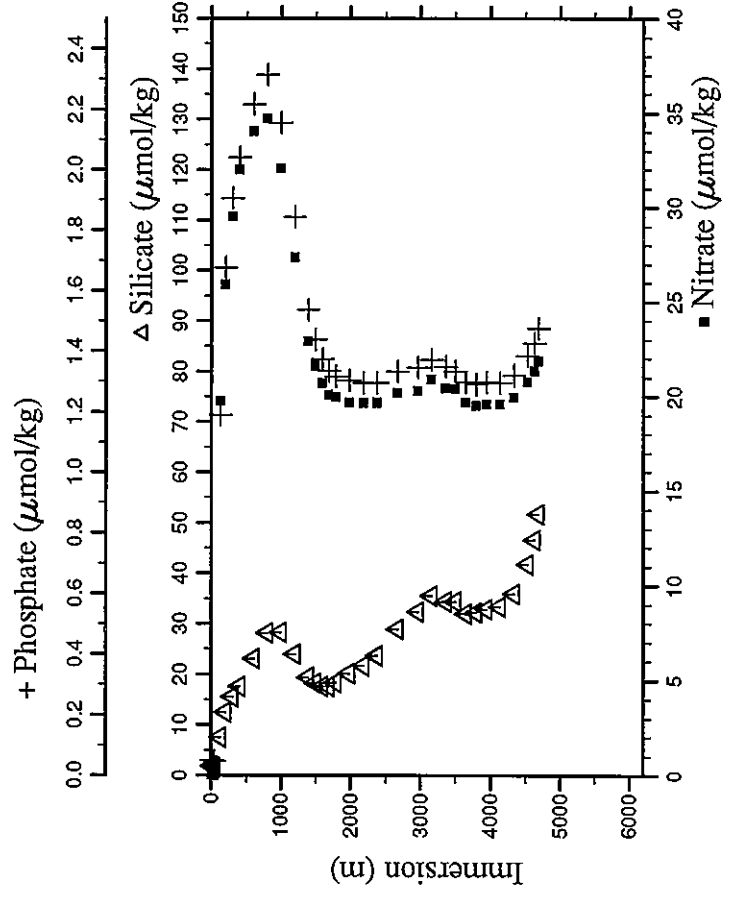
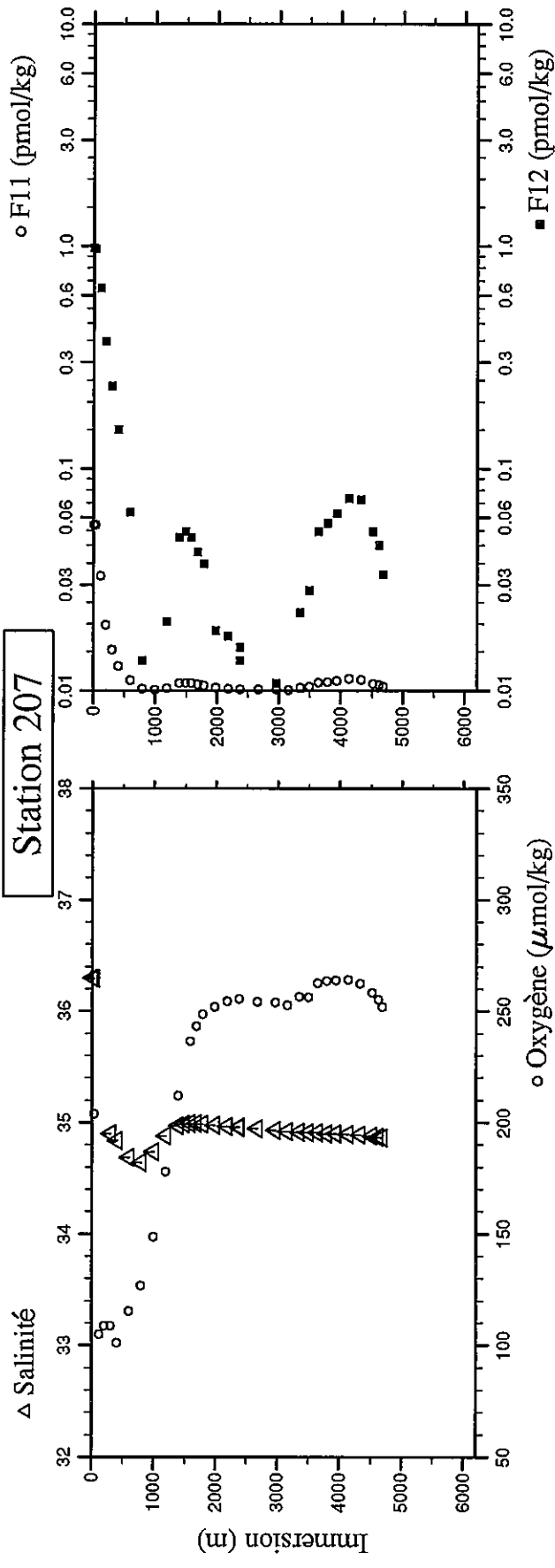
Station 206



Station : 207 Campagne : CITHER 2  
 Date : 13-03-94 Heure : 16 h 33 mn  
 Position : N 9 9.96 W 47 33.20  
 Dernier niveau à : 4763  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.9	4.9	26.293	23.9429	36.301	203.1	0.04	0.050	1.8	1.7431	0.9823	2022.08	2386.4	8.372
36.7	36.5	26.078	24.1426	36.296	203.7	0.00	0.047	1.6	1.7408	0.9705	2020.67	2385.0	8.374
120.7	120.0	15.684	27.0093	35.830	104.8	19.77	1.189	7.5	1.2058	0.6456	2176.89	2357.5	8.036
200.7	199.5	10.855	27.8035	35.127	108.8	25.92	1.676	12.5	0.6873	0.3723	2191.05	2326.0	7.931
301.0	299.1	9.259	28.3573	34.901	108.7	29.51	1.906	15.6	0.4314	0.2356	2194.37	2315.5	7.875
398.8	398.9	8.529	28.8823	34.837	101.0	32.00	2.041	17.6	0.2581	0.1495	2209.16	2313.2	7.845
602.7	598.4	6.756	29.9477	34.687	115.3	34.05	2.218	23.0	0.1093	0.0635	2216.04	2312.2	7.825
800.4	794.4	5.489	30.9955	34.641	126.7	34.71	2.315	28.2	0.0174	0.0137	2220.84	2313.4	7.822
1000.8	992.8	4.955	32.0517	34.738	148.6	32.07	2.155	28.3	0.0065	0.0049	2212.42	2321.3	7.863
1200.2	1190.0	4.828	33.0788	34.879	177.9	27.34	1.845	24.0	0.0285	0.0205	2197.28	2326.3	7.915
1398.3	1385.8	4.609	34.0734	34.970	211.9	22.93	1.536	19.4	0.0801	0.0489	2177.79	2327.0	7.969
1500.4	1486.6	4.375	34.5796	34.987	228.4	21.64	1.439	18.2	0.0814	0.0518	2173.39	2326.8	7.985
1600.8	1585.7	4.157	35.0628	34.991	236.4	20.72	1.374	17.6	0.0797	0.0489	2165.28	2325.5	7.997
1700.6	1684.2	3.945	35.5399	34.990	243.3	20.11	1.335	17.6	0.0697	0.0420	2160.42	2326.2	8.003
1800.1	1782.3	3.746	36.0110	34.986	248.5	19.96	1.317	18.3	0.0575	0.0371	2162.42	2327.9	8.007
1999.3	1978.6	3.444	36.9375	34.975	251.8	19.70	1.304	20.1	0.0295	0.0186	2161.91	2330.7	8.013
2200.0	2176.2	3.223	37.8581	34.966	254.3	19.66	1.296	21.7	0.0183	0.0176	2162.80	2333.0	8.012
2399.2	2372.1	3.035	38.7655	34.960	255.5	19.66	1.295	23.6	0.0164	0.0137	2161.94	2333.2	8.016
2399.4	2372.3	3.035	38.7654	34.958	255.3	19.70	1.295	23.7	0.0168	0.0156	2161.94	2333.2	8.017
2698.8	2666.5	2.743	40.1225	34.944	254.1	20.21	1.333	28.9	0.0119	0.0078	2168.23	2338.3	8.014
2999.3	2961.3	2.508	41.4708	34.930	254.0	20.32	1.347	32.4	0.0156	0.0108	2173.56	2342.6	8.011
3198.7	3156.8	2.384	42.3564	34.923	252.6	20.90	1.372	35.5	0.0100	0.0098	2177.68	2346.1	8.011
3398.6	3352.5	2.275	43.2404	34.917	256.5	20.45	1.349	34.4	0.0324	0.0225	2175.10	2339.7	8.013
3547.6	3498.3	2.190	43.8981	34.913	256.2	20.41	1.334	34.4	0.0460	0.0283	2173.21	2341.7	8.013
3698.7	3646.0	2.112	44.5644	34.909	262.6	19.68	1.297	31.9	0.0834	0.0518	2168.32	2336.3	8.016
3848.9	3792.8	2.035	45.2232	34.902	263.5	19.53	1.291	32.2	0.0927	0.0567	2168.42	2337.8	8.011
3998.5	3938.9	1.981	45.8731	34.901	263.8	19.58	1.297	32.9	0.1012	0.0626	2169.53	2338.2	8.011
4198.4	4133.9	1.921	46.7388	34.896	264.1	19.58	1.296	33.4	0.1278	0.0733	2171.16	2337.6	8.014
4398.8	4329.3	1.864	47.5993	34.890	262.3	19.97	1.321	35.9	0.1141	0.0723	2175.32	2342.2	8.013
4597.4	4522.7	1.777	48.4520	34.881	258.3	20.78	1.385	41.7	0.0730	0.0518	2182.68	2346.9	8.004
4702.1	4624.7	1.709	48.9031	34.871	255.1	21.35	1.426	46.6	0.0625	0.0450	2188.41	2347.4	7.998
4763.2	4684.1	1.641	49.1691	34.863	251.9	21.86	1.476	51.6	0.0443	0.0332	2194.87	2353.8	7.993

# Station 207

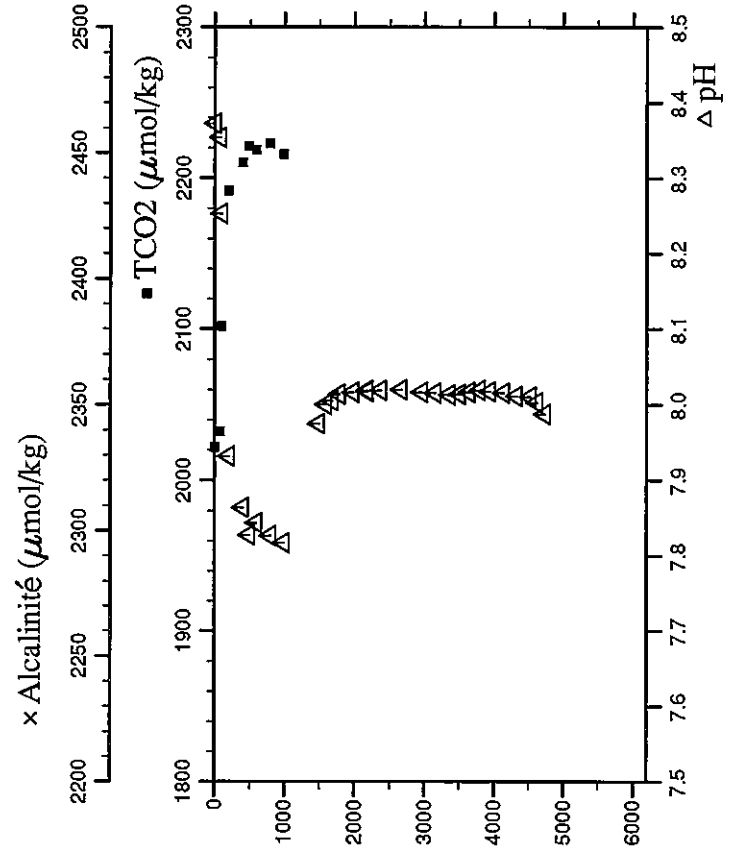
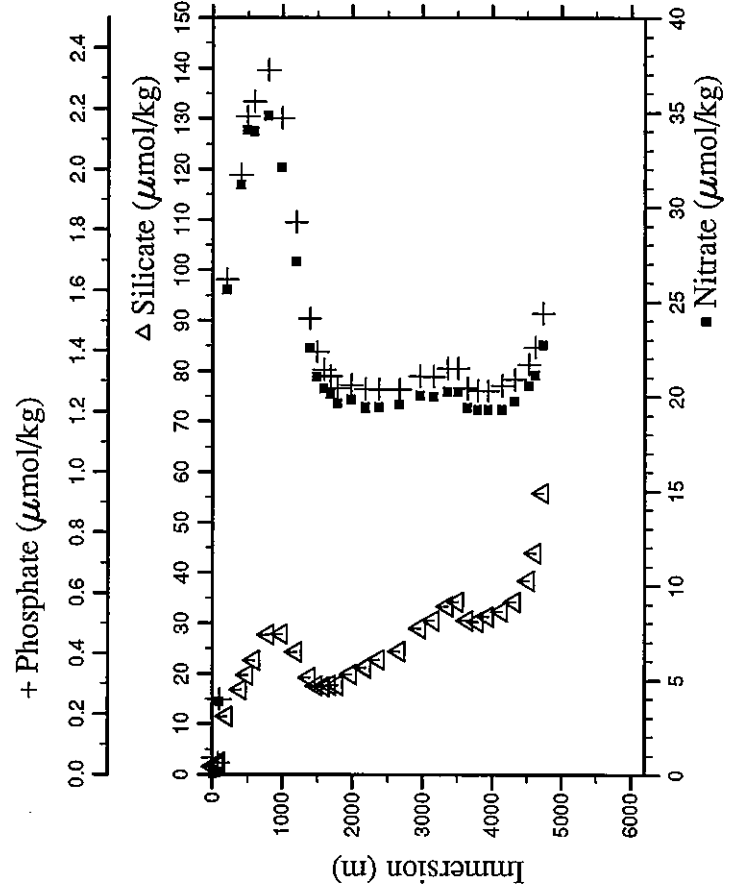
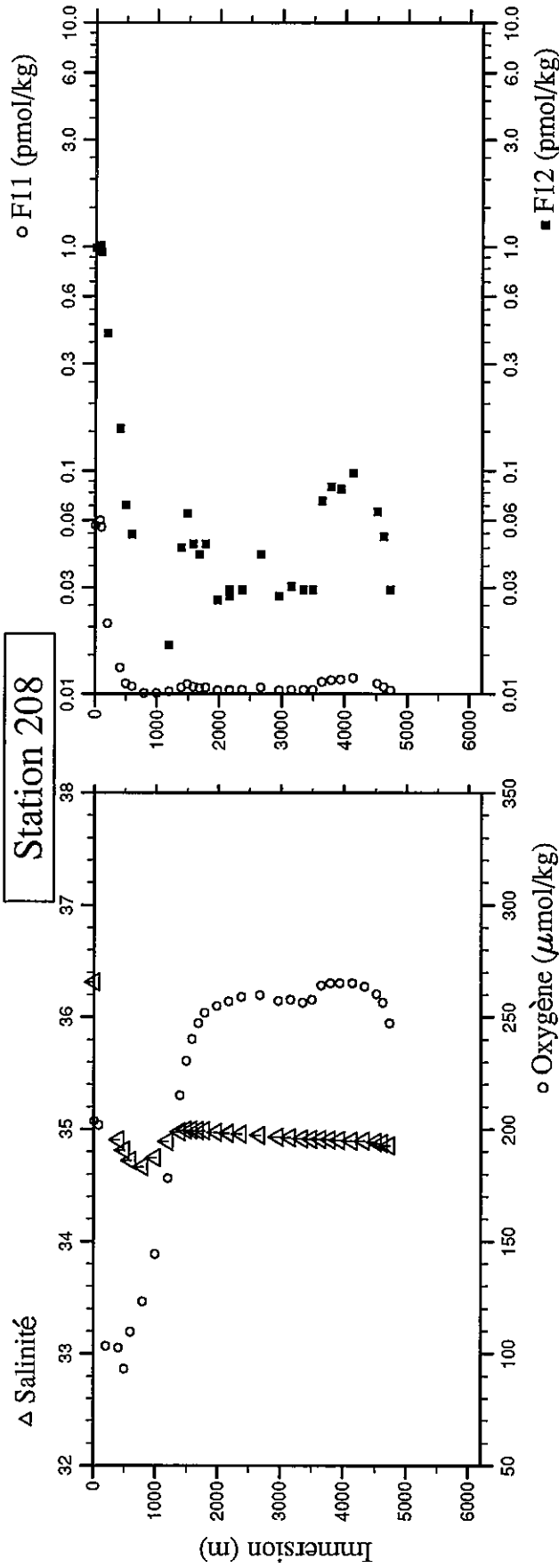




Station : 208 Campagne : CITHER 2  
 Date : 13-03-94 Heure : 22 h 36 mn  
 Position : N 9 27.55 W 48 3.78  
 Dernier niveau à : 4815  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
8.1	8.1	26.093	24.0306	36.314	203.5	0.04	0.056	1.6	1.7655	0.9891	2021.58		8.373
81.5	81.0	24.795	24.7695	36.367	201.7	0.12	0.038	1.7	1.8199	1.0096	2032.25		8.354
96.7	96.1	22.478	25.7249	36.579	164.6	r	0.249	2.5	1.7447	0.9469	2101.72		8.253
200.4	199.2	11.564	27.7604	35.240	103.5	r	1.636	11.5	0.7387	0.4104	2191.72		7.932
401.4	398.8	8.860	28.8791	34.906	102.6	r	1.981	16.8	0.2753	0.1544	2210.12		7.864
500.0	496.6	7.923	29.4028	34.813	93.3	r	2.175	19.8	0.1106	0.0704	2221.43		7.828
601.3	597.0	6.910	29.9419	34.722	109.7	r	2.327	22.7	0.0819	0.0518	2218.86		7.844
799.5	793.5	5.567	30.9945	34.665	123.1	r	2.224	27.8	0.0099	0.0088	2223.14		7.827
1000.1	992.1	5.062	32.0379	34.746	144.2	r	2.169	27.9	0.0065	0.0068	2215.80		7.818
1201.1	1190.9	4.850	33.0877	34.889	178.1	r	1.826	24.3	0.0239	0.0166			
1400.8	1388.2	4.539	34.0995	34.977	215.1	r	1.508	19.3	0.0677	0.0450			7.975
1500.4	1486.6	4.349	34.5883	34.994	230.5	r	1.396	17.6	0.1055	0.0645			8.001
1600.2	1585.1	4.060	35.0755	34.990	240.1	r	1.337	17.5	0.0756	0.0469			8.006
1698.8	1682.4	3.876	35.5416	34.988	247.4	r	1.316	17.7	0.0625	0.0420			8.014
1799.9	1782.1	3.684	36.0206	34.986	251.9	r	1.277	17.7	0.0650	0.0469			8.017
2000.0	1979.3	3.358	36.9529	34.974	255.0	r	1.287	19.9	0.0399	0.0264			8.018
2198.9	2175.1	3.159	37.8623	34.966	257.0	r	1.274	21.3	0.0385	0.0274			8.019
2199.3	2175.5	3.159	37.8648	34.963	257.0	r	1.275	21.2	0.0414	0.0293			8.019
2398.6	2371.5	2.960	38.7723	34.957	258.9	r	1.273	22.8	0.0429	0.0293			8.020
2698.0	2665.7	2.757	40.1204	34.946	259.7	r	1.272	24.5	0.0648	0.0420			8.017
2999.8	2961.8	2.553	41.4685	34.933	257.3	r	1.316	29.0	0.0382	0.0274			8.017
3196.7	3154.8	2.433	42.3436	34.926	257.6	r	1.315	30.5	0.0454	0.0303			8.016
3399.0	3352.9	2.309	43.2390	34.918	256.5	r	1.343	33.3	0.0423	0.0293			8.013
3549.6	3500.2	2.221	43.9032	34.911	257.7	r	1.342	34.2	0.0445	0.0293			8.014
3698.1	3645.4	2.126	44.5601	34.910	264.0	r	1.276	30.5	0.1236	0.0733			8.017
3849.2	3793.1	2.054	45.2221	34.906	265.0	r	1.268	30.3	0.1462	0.0850			8.019
3998.1	3938.5	1.998	45.8703	34.901	265.0	r	1.267	31.3	0.1493	0.0831			8.018
4199.3	4134.8	1.923	46.7423	34.895	265.1	r	1.284	32.4	0.1694	0.0977			8.016
4396.9	4327.4	1.883	47.5903	34.893	263.6	r	1.306	34.3	0.1066	0.0655			8.012
4597.0	4522.3	1.819	48.4469	34.886	260.3	r	1.354	38.4	0.0739	0.0508			8.011
4696.6	4619.3	1.747	48.8764	34.876	256.4	r	1.412	43.9	0.0739	0.0508			8.003
4809.5	4729.1	1.567	49.3733	34.853	247.4	r	1.525	55.8	0.0374	0.0293			7.988

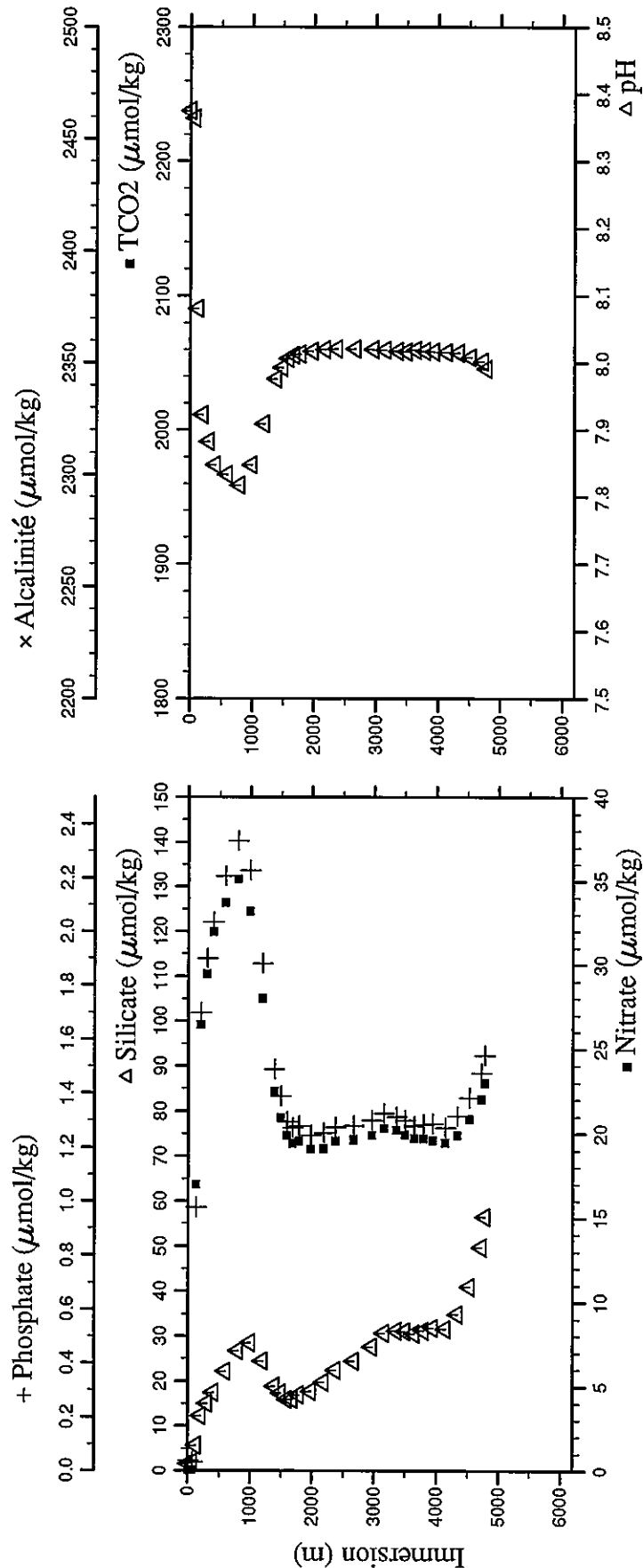
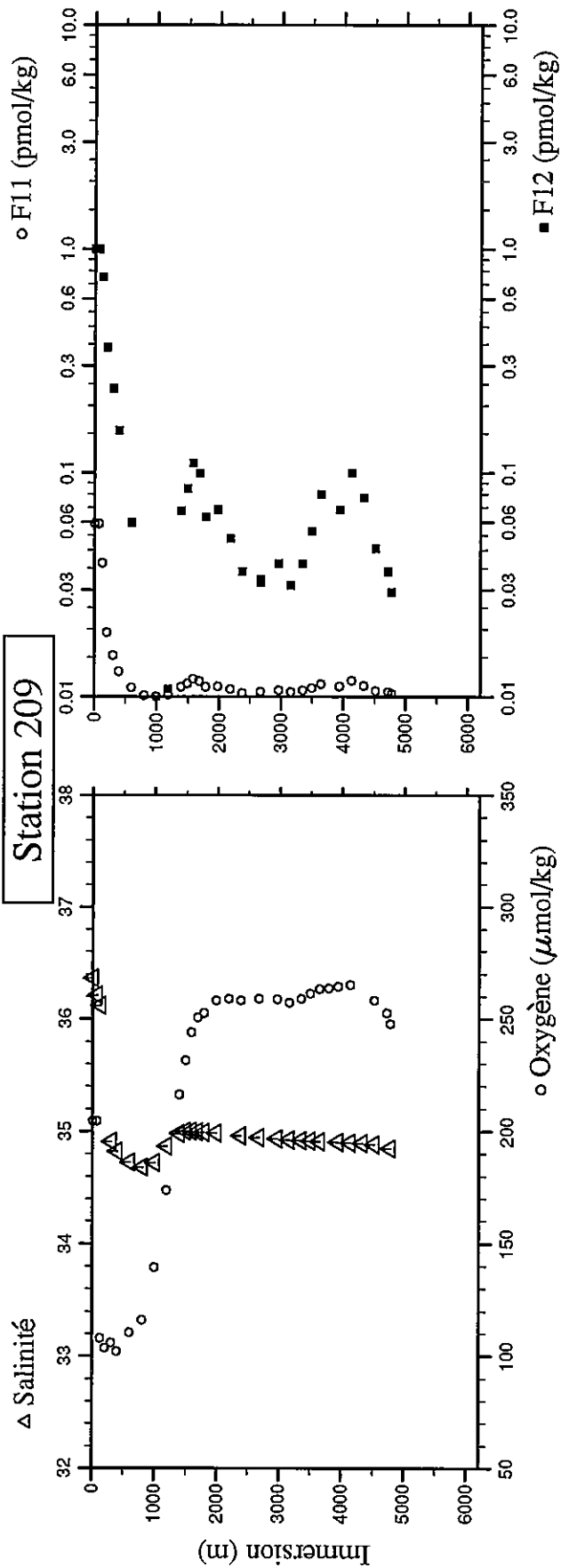
Station 208



Station : 209 Campagne : CITHER 2  
 Date : 14-03-94 Heure : 4 h 48 mn  
 Position : N 9 45.08 W 48 34.20  
 Dernier niveau à : 4859  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI-NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.1	7.1	25.592	24.2187	36.364	204.6	0.04	0.038	1.6	1.8021	0.9959			8.375
70.7	70.3	25.088	24.5322	36.214	204.6	0.04	0.032	1.8	1.8008	0.9999			8.364
126.6	125.8	17.539	26.7947	36.122	108.0	16.97	0.977	5.7	1.3890	0.7490			8.081
201.4	200.2	10.973	27.7924	35.148	r	26.43	1.698	12.3	0.6558	0.3626			7.923
302.2	300.3	9.452	28.3386	34.911	105.8	29.46	1.899	15.1	0.4311	0.2385			7.883
401.0	397.6	8.592	28.8535	34.825	102.2	31.96	2.035	17.5	0.2640	0.1544			7.848
500.2	596.7	7.115	29.9213	34.729	110.5	33.71	2.206	22.2	0.0969	0.0596			7.834
800.9	794.8	5.810	30.9808	34.684	116.1	35.13	2.337	26.8	0.0124	0.0078			7.818
1001.2	993.2	5.060	32.0228	34.722	139.5	33.17	2.228	28.5	0.0032	0.0000			7.848
1200.4	1190.2	4.819	33.0757	34.872	173.8	27.99	1.880	24.5	0.0182	0.0108			7.909
1400.2	1387.6	4.606	34.0923	34.984	216.2	22.50	1.488	18.9	0.1056	0.0674			7.976
1500.5	1486.7	4.388	34.5847	35.000	231.4	20.95	1.388	17.3	0.1365	0.0850			7.993
1600.1	1585.0	4.175	35.0680	35.004	243.9	19.91	1.296	16.0	0.1882	0.1104			8.007
1700.1	1683.6	3.932	35.5468	34.999	250.6	19.41	1.273	16.0	0.1649	0.0997			8.012
1799.7	1781.9	3.755	36.0125	34.991	252.5	19.57	1.278	17.0	0.1013	0.0635			8.013
1999.4	1978.7	3.476	36.9410	34.985	258.3	19.07	1.244	17.7	0.1085	0.0684			8.018
2201.4	2177.5	3.211	37.8699	34.977	r	19.11	1.252	19.7	0.0802	0.0508			8.020
2399.6	2372.5	3.009	38.7712	34.960	258.3	19.57	1.274	22.4	0.0384	0.0362			8.021
2699.6	2667.2	2.798	40.1220	34.948	259.0	19.67	1.281	24.4	0.0502	0.0323			8.021
2699.9	2667.5	2.800	40.1221	34.933	r	19.58	1.278	24.4	0.0530	0.0332			8.021
2999.7	2961.7	2.581	41.4655	34.938	258.8	19.91	1.300	27.6	0.0645	0.0391			8.020
3199.8	3157.8	2.440	42.3567	34.928	257.1	20.30	1.324	30.7	0.0496	0.0313			8.019
3398.7	3352.6	2.327	43.2367	34.921	259.1	20.19	1.312	31.2	0.0560	0.0391			8.018
3547.2	3497.8	2.224	43.8934	34.914	261.2	19.92	1.300	31.1	0.0882	0.0547			8.017
3698.5	3645.8	2.140	44.5608	34.912	263.3	19.73	1.279	30.6	0.1349	0.0801			8.019
3848.5	3792.4	2.060	45.2171	34.899	r	19.69	1.285	31.2					8.018
3999.4	3939.7	2.001	45.8743	34.903	264.2	19.58	1.287	31.8	0.1096	0.0684			8.017
4199.6	4135.0	1.934	46.7426	34.898	265.2	19.47	1.273	31.6	0.1690	0.0997			8.016
4399.1	4329.5	1.883	47.5991	34.894	275.1	19.90	1.315	34.9	0.1167	0.0772			8.015
4597.8	4523.1	1.797	48.4510	34.884	258.3	20.84	1.382	41.0	0.0634	0.0459			8.008
4799.2	4719.1	1.656	49.3199	34.856	r	22.05	1.473	49.7	0.0505	0.0362			8.002
4859.0	4777.2	1.546	49.5830	34.851	247.8	22.99	1.540	56.5	0.0335	0.0293			7.991

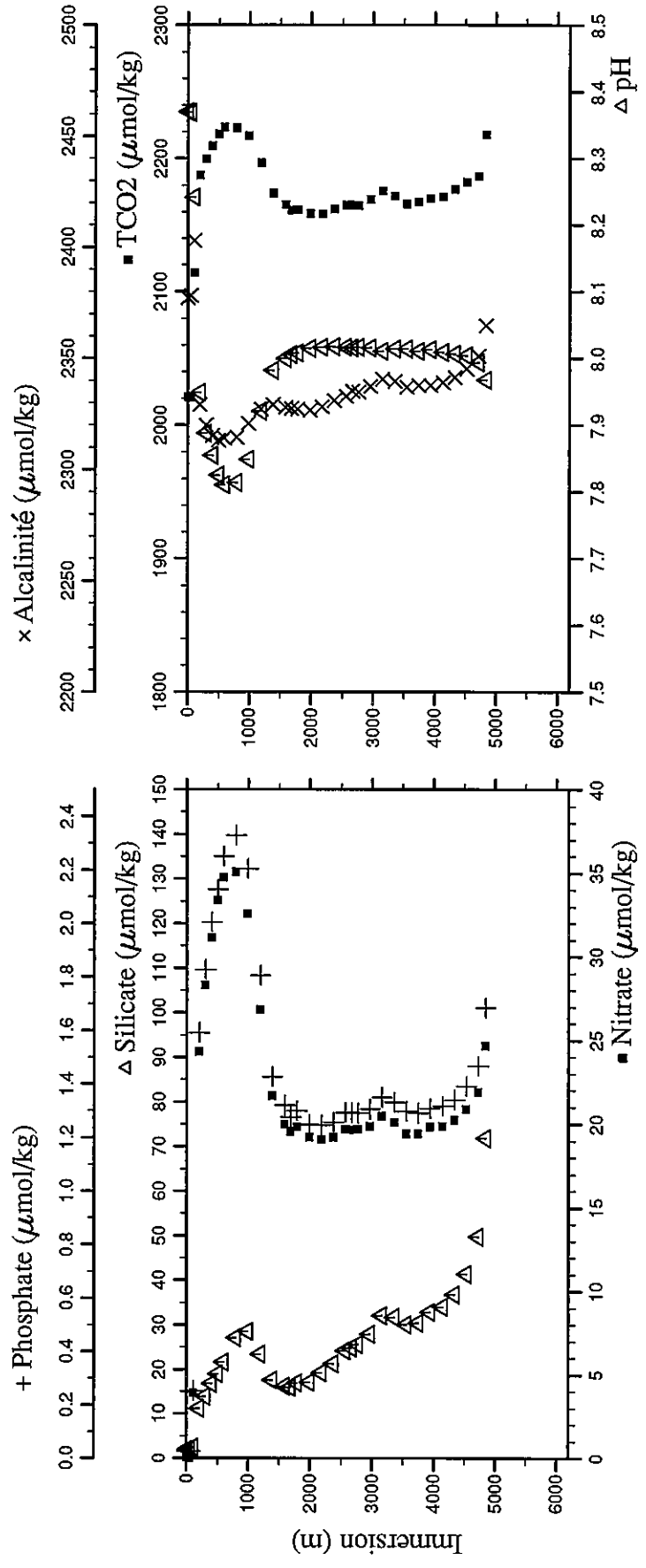
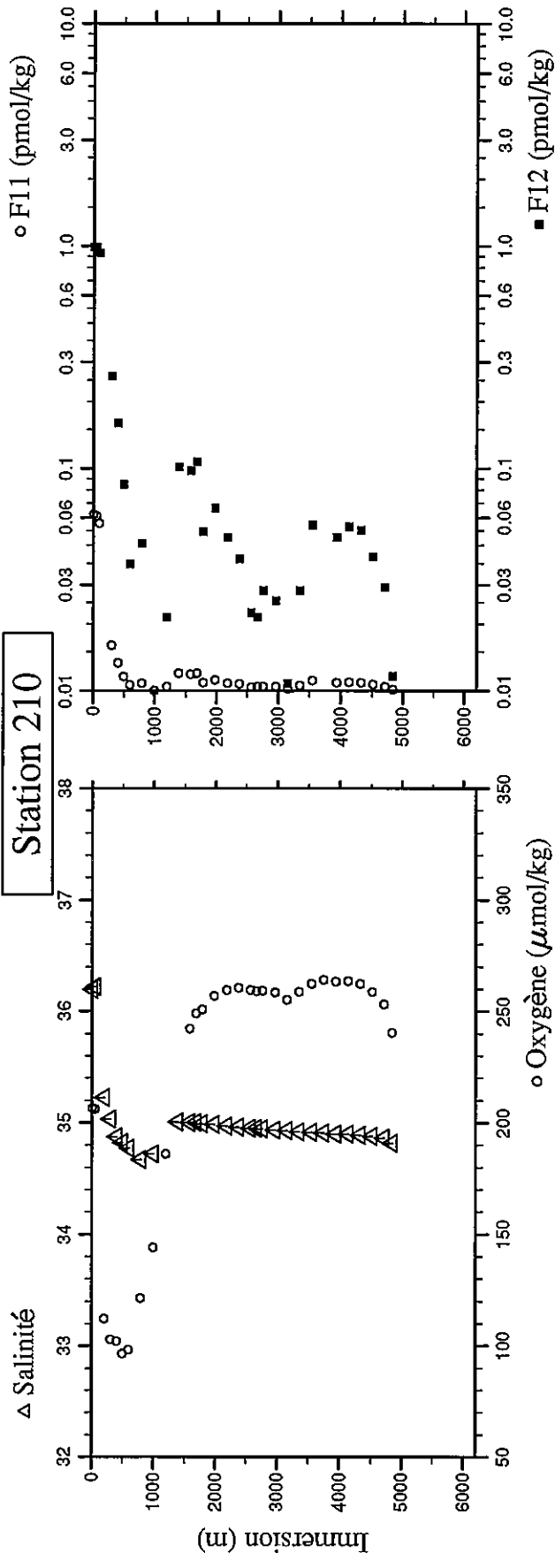
# Station 209



Station : 210 Campagne : CITHER 2  
 Date : 14-03-94 Heure : 10 h 51 mn  
 Position : N 10 2.51 W 49 4.68  
 Dernier niveau à : 4927  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
6.1	6.1	25.250	24.1970	36.199	206.3	0.08	0.026	1.9	1.8524	0.9862	2020.95	2377.1	8.370
50.2	49.9	25.213	24.4106	36.221	206.2	0.00	0.026	1.8	1.8380	0.9833	2020.29	2378.1	8.369
101.7	101.1	22.235	25.8498	36.645	161.1	r	0.252	2.5	1.7590	0.9283	2114.31	2402.7	8.242
200.6	199.4	11.578	27.7367	35.227	112.3	24.34	1.592	11.2			2187.33	2329.2	7.949
300.8	298.9	10.035	28.3236	35.033	103.0	28.30	1.828	13.9	0.4772	0.2590	2199.53	2319.9	7.888
401.4	398.7	8.811	28.8643	34.875	102.2	31.15	2.005	16.8	0.2904	0.1593	2209.41	2315.0	7.855
502.1	498.7	8.141	29.3853	34.823	96.5	33.38	2.128	19.0	0.1477	0.0850	2218.26	2313.2	7.825
601.4	597.1	7.307	29.9243	34.772	98.4	34.75	2.251	21.7	0.0626	0.0371	2223.54	2314.0	7.811
800.1	794.0	5.796	30.9739	34.674	121.4	35.09	2.330	27.1	0.0808	0.0459	2223.17	2314.4	7.814
1001.0	992.9	5.056	32.0267	34.724	144.1	32.57	2.204	28.5	0.0013	0.0010	2217.05	2320.6	7.849
1201.1	1190.9	4.919	33.0819		186.0	26.85	1.806	23.4	0.0416	0.0215	2196.74	2327.1	7.921
1400.0	1387.4	4.690	34.0972	35.006	222.1	r	1.426	17.6	0.1837	0.1016	2173.86	2329.1	7.982
1601.2	1586.1	4.194	35.0715	35.003	242.1	19.99	1.320	16.2	0.1766	0.0977	2165.24	2327.8	8.000
1700.9	1684.4	4.023	35.5407	35.002	249.0	19.56	1.277	15.9	0.1853	0.1075	2161.20	2327.3	8.006
1799.4	1781.6	3.810	36.0030	34.991	250.9	19.84	1.299	17.0	0.0877	0.0518	2161.49	2327.0	8.008
2000.9	1980.1	3.582	36.9352	34.987	257.0	19.22	1.248	17.1	0.1149	0.0665	2158.69	2326.6	8.015
2201.1	2177.2	3.250	37.8659	34.973	259.4	19.10	1.246	19.2	0.0782	0.0489	2158.22	2328.1	8.017
2400.2	2373.1	3.005	38.7766	34.962	260.5	19.22	1.257	21.3	0.0716	0.0391	2162.14	2330.9	8.018
2599.4	2568.8	2.842	39.6755	34.952	259.4	19.69	1.293	24.2	0.0354	0.0225	2164.93	2333.0	8.017
2699.9	2667.5	2.773	40.1263	34.950	259.0	19.65	1.293	24.8	0.0420	0.0215	2165.14	2335.1	8.016
2799.5	2765.3	2.703	40.5740	34.944	259.3	19.69	1.292	25.6	0.0459	0.0283	2164.69	2334.7	8.017
3001.1	2963.0	2.571	41.4736	34.936	258.5	19.85	1.305	27.9	0.0450	0.0254	2169.40	2337.3	8.016
3198.6	3156.6	2.449	42.3504	34.929	255.1	20.48	1.350	32.1	0.0220	0.0108	2175.42	2340.5	8.011
3399.5	3353.3	2.316	43.2424	34.920	258.7	20.09	1.332	31.7	0.0530	0.0283	2171.71	2339.6	8.014
3599.1	3548.6	2.206	44.1221	34.914	262.3	19.43	1.298	30.1	0.1065	0.0557	2165.68	2337.0	8.014
3800.2	3745.1	2.096	45.0068	34.908	264.0	19.43	1.291	30.4			2167.46	2337.7	8.011
3999.1	3939.4	2.001	45.8740	34.901	263.2	19.82	1.307	32.9	0.0831	0.0489	2169.93	2337.8	8.013
4199.5	4134.9	1.937	46.7410	34.898	263.6	19.86	1.316	34.0	0.0929	0.0547	2171.27	2339.1	8.009
4399.0	4329.4	1.866	47.6009	34.890	262.2	20.25	1.340	36.8	0.0821	0.0528	2176.84	2341.2	8.007
4597.1	4522.3	1.789	48.4507	34.882	258.7	20.88	1.390	41.3	0.0665	0.0401	2182.41	2345.0	8.004
4797.7	4717.6	1.660	49.3136	34.866	253.2	21.89	1.467	49.7	0.0456	0.0293	2186.68	2351.0	7.994
4926.5	4842.8	1.293	49.8970	34.819	240.3	24.68	1.685	71.9	0.0159	0.0117	2217.76	2364.7	7.968

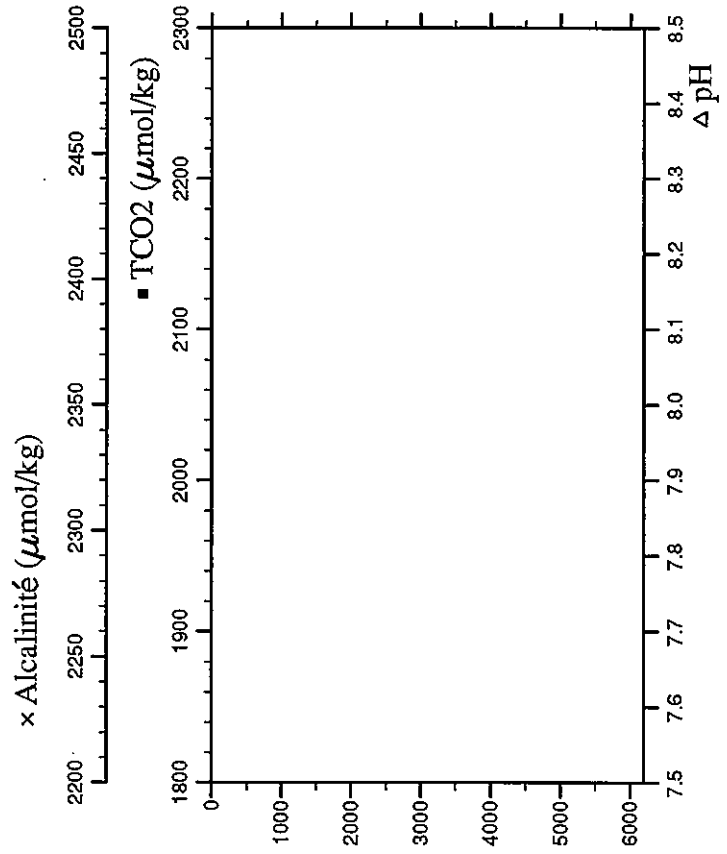
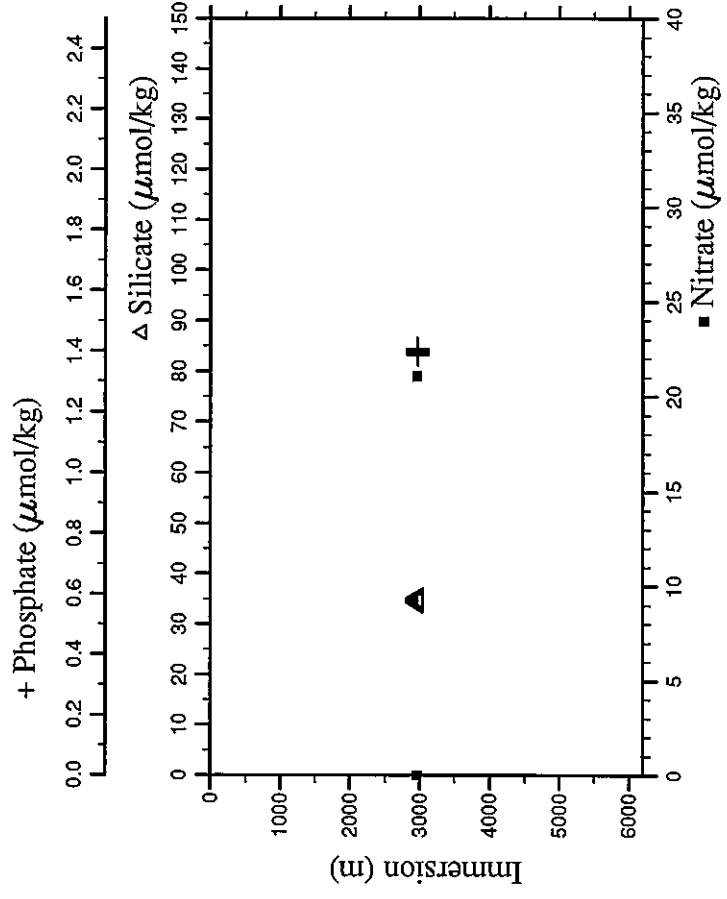
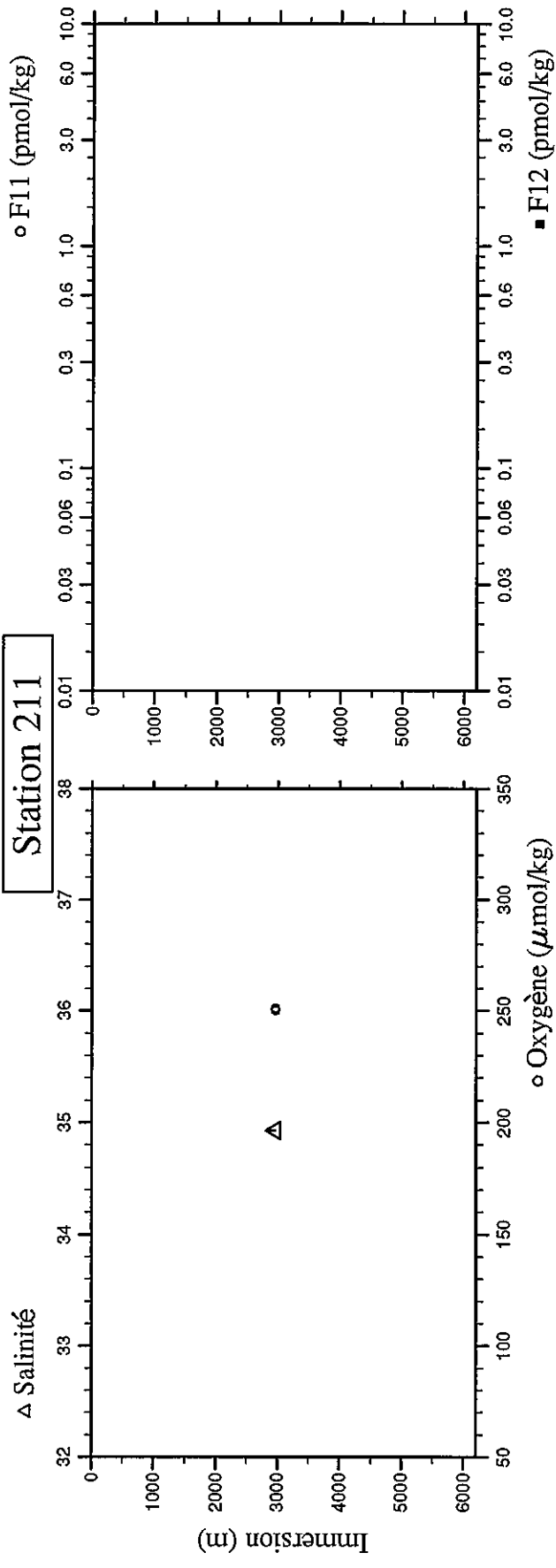
Station 210



Station : 211 Campagne : CITHER 2  
 Date : 15-03-94 Heure : 11 h 19 mn  
 Position : N 13 12.26 W 47 13.65  
 Dernier niveau à : 3017  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION metres	TEMP.POT. SONDE	deg.cels.	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	PH
dbar						um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
3000.4	2962.0	2.508		41.4762	34.931	250.7	21.02	1.393	34.6					
3001.4	2963.0	2.509		41.4810	34.930	257.3	21.01	1.392	34.5					
3001.6	2963.2	2.508		41.4819	34.931	250.0	21.08	1.398	34.5					
3001.6	2963.2	2.509		41.4809	34.929	250.2	21.09	1.399	35.1					
3001.7	2963.3	2.507		41.4824	34.930	250.7	21.08	1.396	34.7					
3001.8	2963.4	2.509		41.4817	34.927	250.1	21.07	1.397	34.8					
3001.9	2963.5	2.509		41.4831	34.931	250.4	21.04	1.388	34.6					
3001.9	2963.5	2.507		41.4832	34.929	250.6	21.06	1.394	34.8					
3002.1	2963.8	2.507		41.4844	34.929	250.8	21.06	1.393	34.5					
3002.2	2963.8	2.509		41.4833	34.930	252.3	21.05	1.393	35.0					
3002.2	2963.8	2.509		41.4843	34.930	250.4	21.05	1.401	34.5					
3002.3	2963.9	2.508		41.4838	34.930	250.5	21.06	1.401	34.5					
3002.3	2963.9	2.509		41.4838	34.929	250.1	21.05	1.390	35.1					
3002.3	2963.9	2.507		41.4848	34.930	250.7	0.00	1.402	34.5					
3002.5	2964.1	2.507		41.4856	34.929	250.8	21.02	1.403	34.5					
3002.5	2964.1	2.509		41.4855	34.930	250.6	21.00	1.388	34.6					
3002.9	2964.5	2.509		41.4871	34.926	250.0	21.09	1.394	35.1					
3002.9	2964.5	2.509		41.4871	34.930	250.7	21.07	1.391	34.7					
3002.9	2964.5	2.509		41.4871	34.929	250.4	21.01	1.389	35.0					
3002.9	2964.5	2.509		41.4871	34.930	250.8	21.01	1.398	34.8					
3002.9	2964.5	2.510		41.4861	34.933	250.6	21.01	1.394	34.5					
3003.0	2964.6	2.508		41.4876	34.928	250.0	21.06	1.401	34.6					
3003.0	2964.6	2.509		41.4866	34.929	250.4	21.06	1.400	35.0					
3003.2	2964.7	2.509		41.4883	34.933	250.1	21.01	1.401	34.5					
3003.3	2964.8	2.507		41.4888	34.924	250.9	21.06	1.407	34.5					
3003.4	2964.9	2.507		41.4892	34.929	251.0	21.06	1.393	34.6					
3003.4	2964.9	2.507		41.4902	34.929	250.8	0.00	1.395	34.4					
3003.4	2964.9	2.509		41.4891	34.929	250.1	21.07	1.397	34.7					
3003.4	2964.9	2.509		41.4891	34.930	250.6	21.03	1.401	34.5					
3003.5	2965.0	2.507		41.4896	34.930	250.4	21.06	1.397	34.3					
3003.6	2965.1	2.509		41.4899	34.930	250.2	21.04	1.386	34.6					
3003.8	2965.3	2.509		41.4908	34.929	250.1	0.00	1.392	35.1					

Station 211

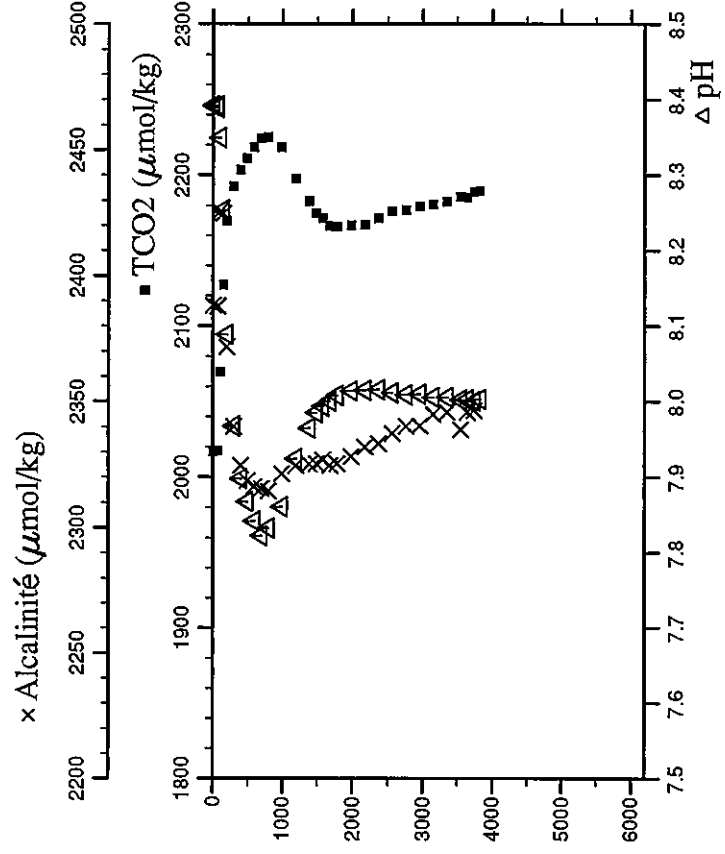
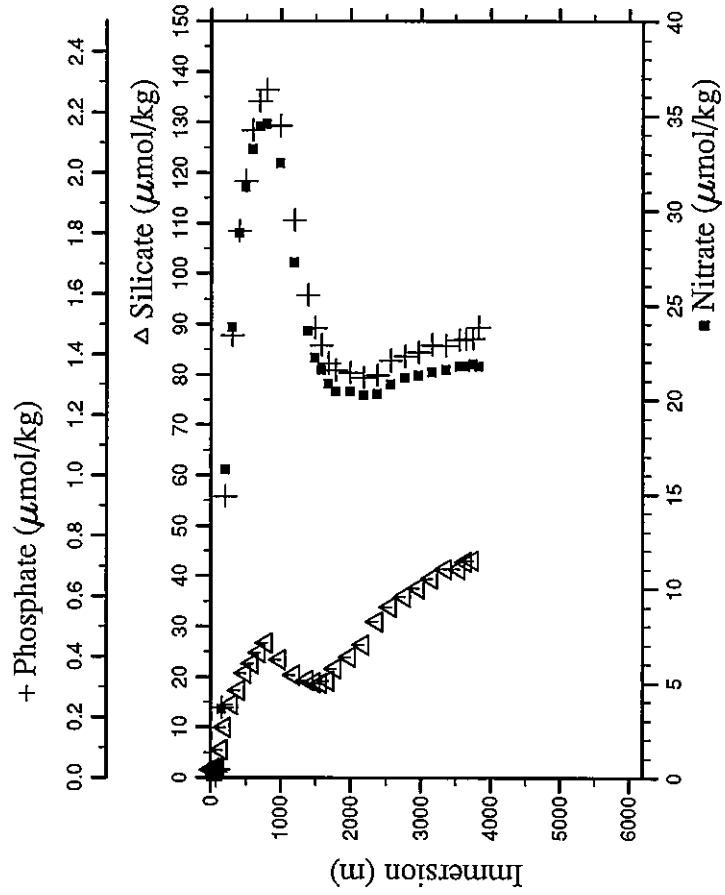
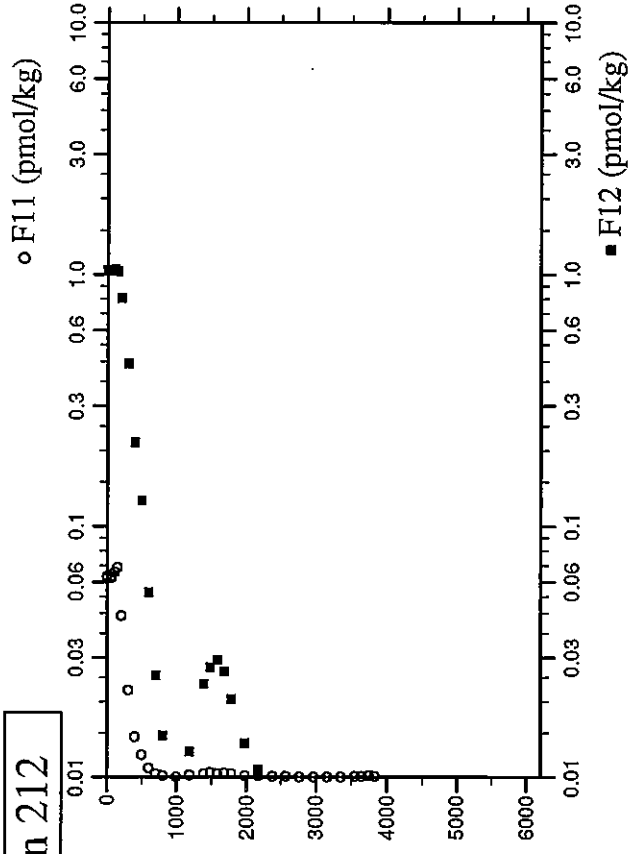
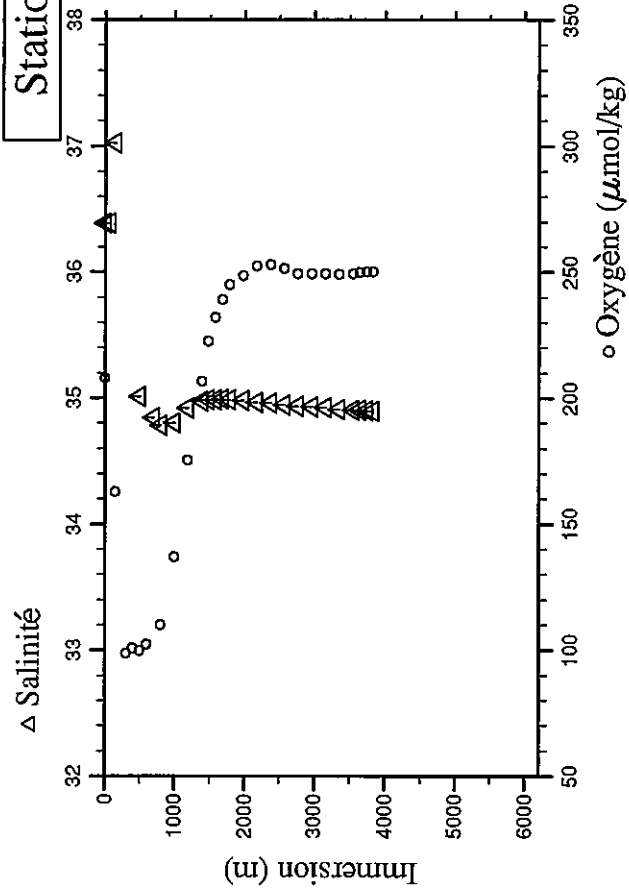




Station : 212 Campagne : CITHER 2  
 Date : 15-03-94 Heure : 16 h 37 mn  
 Position : N 13 39.74 W 46 57.30  
 Dernier niveau à : 3891  
 Nb prélèvements : 32

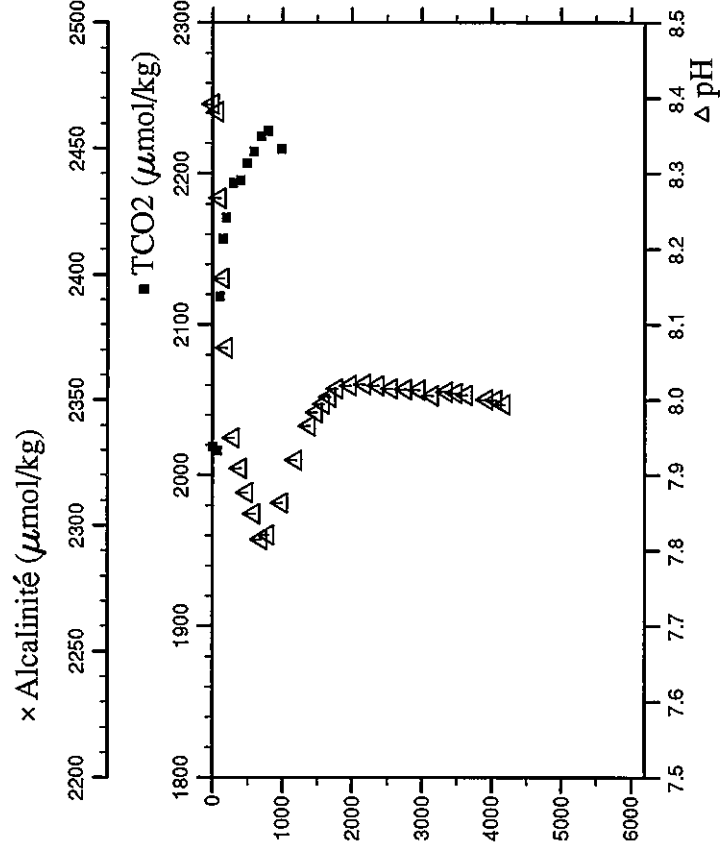
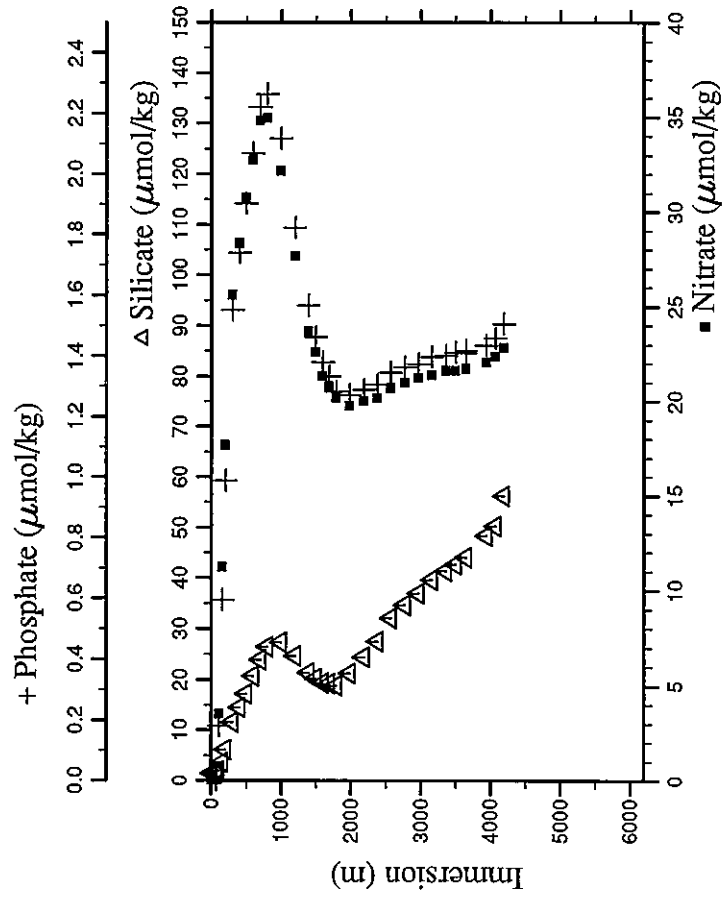
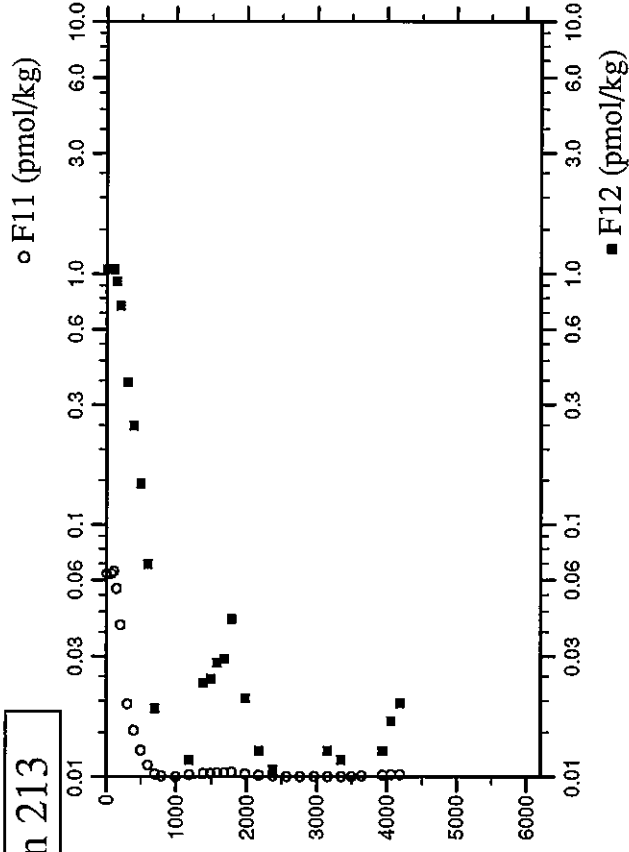
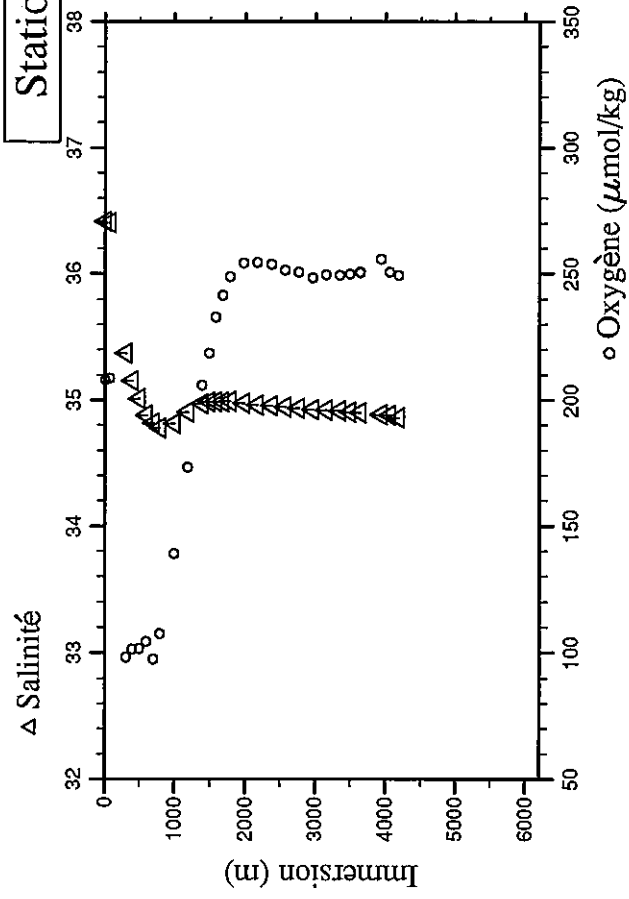
PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
2.1	2.1	25.027	24.3934	36.392	207.9	0.04	0.004	1.6	1.8588	1.0387		2388.0	8.392
2.2	2.2	25.029	24.3936	36.392	208.0	0.04	0.004	1.6	1.8717	1.0357	2016.54	2388.0	8.392
64.6	64.2	24.840	24.7149	36.389	209.2	r 0.04	0.019	1.4	1.8600	1.0367	2017.34	2387.5	8.390
64.6	64.2	24.844	24.7129	36.389	208.5	r 0.04	0.004	1.6	1.8664	1.0387		2387.5	8.392
109.2	108.5	24.350	25.4900	36.980	r 198.2	r 0.04	0.028	1.9	1.9117	1.0548	2069.78	2425.5	8.350
150.7	149.8	21.188	26.6342	37.028	163.0	r 3.62	0.231	5.5	1.9539	1.0255	2127.32	2424.6	8.254
200.5	199.2	16.164	27.4833	36.160	r 121.7	r 16.32	0.930	9.9	1.5029	0.8035	2169.69	2371.6	8.089
300.7	298.7	12.474	28.2372	35.540	r 98.9	r 23.82	1.463	14.6	0.8117	0.4425	2192.54	2340.0	7.968
399.6	396.9	9.923	28.8607	35.138	r 100.9	r 28.83	1.809	17.4	0.3734	0.2150	2203.51	2324.4	7.898
499.9	496.4	8.929	29.3911	35.011	r 99.7	r 31.25	1.973	20.8	0.2088	0.1261	2211.16	2318.5	7.868
601.1	596.8	7.701	29.9453	34.886	r 102.3	r 33.27	2.141	22.7	0.0824	0.0547	2218.32	2316.2	7.842
700.4	695.2	7.176	30.4502	34.846	100.4	r 34.43	2.237	24.9	0.0341	0.0254	2224.49	2315.4	7.823
801.5	795.3	6.493	30.9618	34.784	109.9	r 34.58	2.275	26.7	0.0165	0.0147	2225.30	2314.3	7.833
999.9	991.7	5.404	32.0329	34.803	137.0	32.50	2.156	23.5	0.0044	0.0049	2218.48	2321.3	7.861
1200.8	1190.4	4.977	33.0916	34.921	175.3	27.24	1.844	20.4	0.0169	0.0127	2197.65	2324.5	7.924
1399.7	1386.9	4.567	34.0898	34.975	206.5	23.65	1.596	19.4	0.0324	0.0235	2182.90	2325.1	7.965
1498.9	1484.9	4.347	34.5759	34.986	222.7	22.25	1.488	18.9	0.0417	0.0274	2174.63	2325.4	7.985
1598.0	1582.7	4.144	35.0520	34.989	232.0	21.58	1.430	18.7	0.0345	0.0293	2171.25	2326.9	7.994
1700.9	1684.2	3.963	35.5421	34.991	245.1	20.85	1.372	19.3	0.0369	0.0264	2166.39	2324.5	8.001
1798.4	1780.3	3.755	36.0054	34.987	248.6	20.45	1.349	21.7	0.0319	0.0205	2165.90	2325.3	8.008
2000.7	1979.7	3.435	36.9483	34.980	248.6	20.45	1.339	24.0	0.0158	0.0137	2166.47	2328.0	8.014
2199.5	2175.4	3.146	37.8681	34.968	252.3	20.22	1.322	26.3	0.0118	0.0107	2167.17	2331.8	8.015
2400.0	2372.5	2.954	38.7793	34.961	253.0	20.29	1.331	30.9	0.0052	0.0088	2171.46	2333.2	8.016
2599.5	2588.6	2.786	39.6806	34.947	251.3	20.83	1.380	33.8	0.0052	0.0098	2175.99	2337.2	8.012
2799.1	2764.5	2.613	40.5809	34.937	249.3	21.14	1.394	35.9	0.0021	0.0068	2176.90	2340.1	8.009
3000.3	2961.8	2.490	41.4786	34.930	249.2	21.30	1.408	37.5	0.0022	0.0078	2179.44	2340.3	8.010
3199.3	3156.9	2.404	42.3577	34.924	249.2	21.45	1.431	39.4	0.0024	0.0059	2180.65	2344.8	8.006
3399.6	3353.0	2.300	43.2419	34.910	249.1	21.60	1.429	41.3	0.0021	0.0029	2182.17	2345.5	8.006
3599.9	3548.9	2.193	44.1225	34.907	249.3	21.75	1.447	41.4	0.0062	0.0078	2185.95	2338.7	8.002
3698.7	3645.5	2.171	44.5522	34.906	249.9	21.75	1.453	42.7	0.0070	0.0098	2185.44	2345.5	8.002
3800.7	3745.1	2.099	45.0003	34.899	250.1	21.90	1.453	43.0	0.0112	0.0078	2188.71	2346.5	8.001
3887.7	3830.1	2.072	45.3784	34.897	250.2	21.75	1.491		0.0099	0.0098	2189.40		8.003

# Station 212



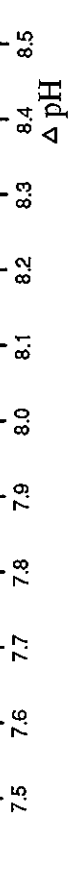
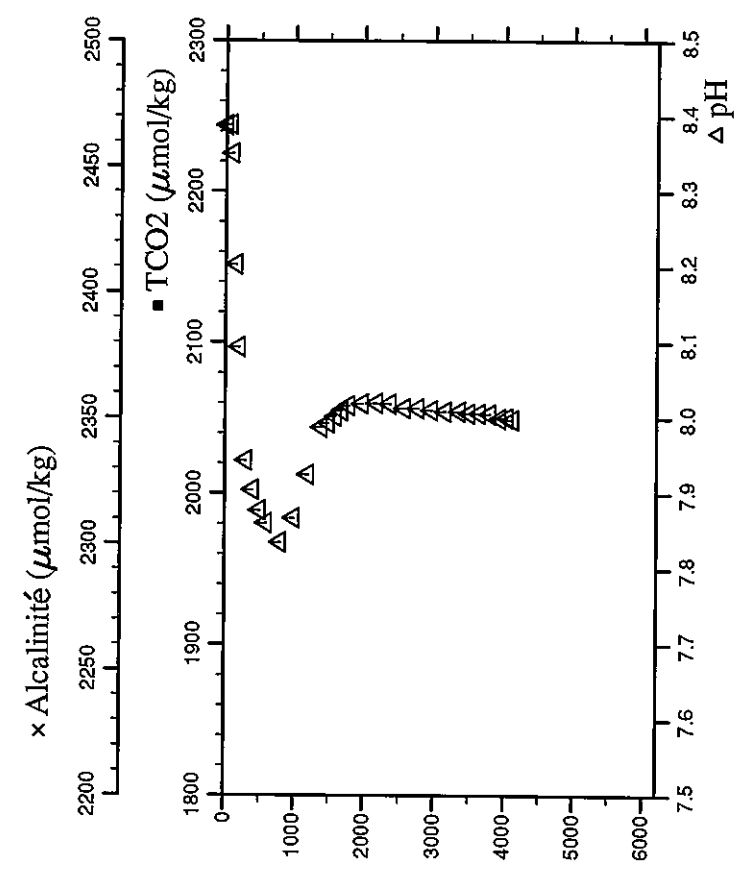
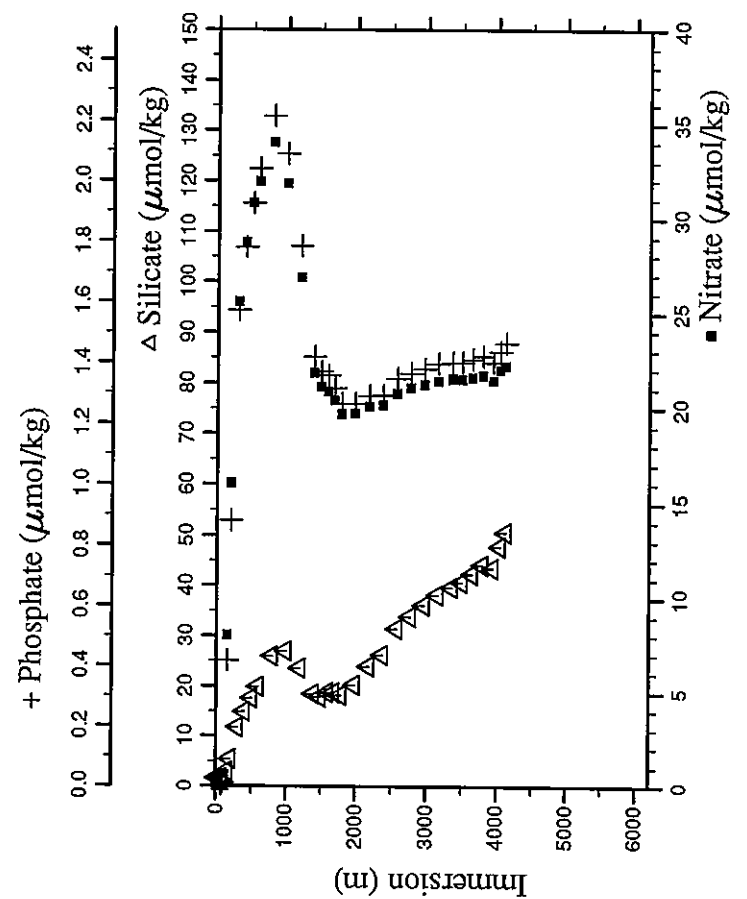
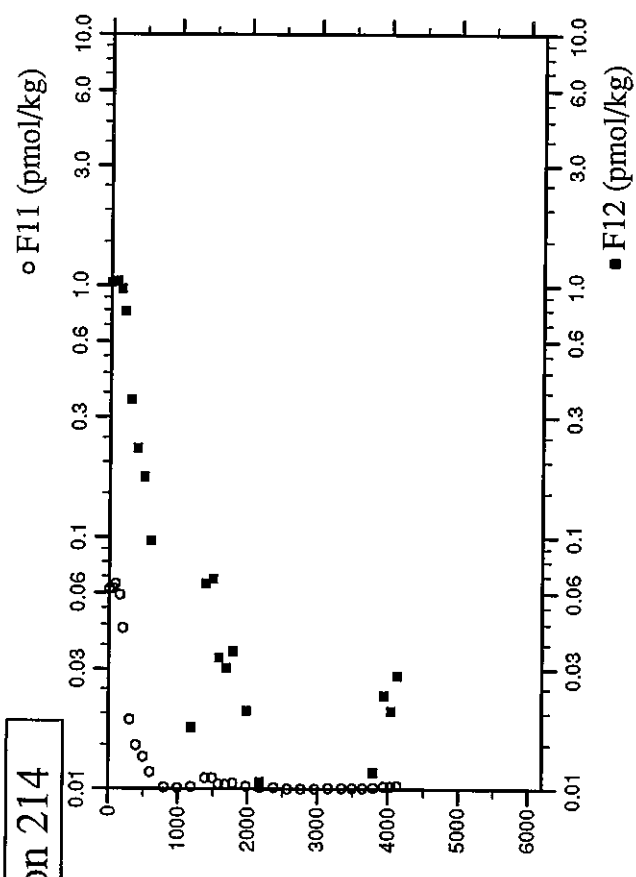
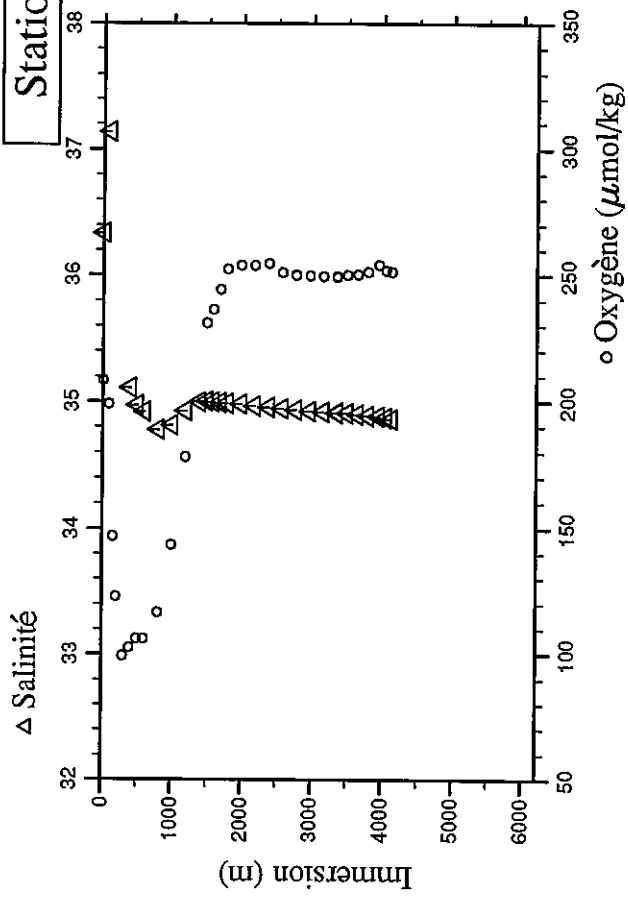
Station : 213 Campagne : CISHER 2  
 Date : 15-03-94 Heure : 22 h 9 mn  
 Position : N 13 12.58 W 47 13.43  
 Dernier niveau à : 4255  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.8	5.8	24.963	24.4469	36.415	208.0	0.04	0.000	1.5	1.8748	1.0425	2018.74		8.392
71.6	71.2	24.744	24.7851	36.407	208.6	0.04	0.000	1.5	1.8750	1.0435	2016.34		8.382
109.8	109.1	22.007	26.1614	36.922	169.8	3.54	0.181	2.0	1.9003	1.0382	2118.67		8.268
150.1	149.2	18.644	27.0210	36.560	136.4	11.27	0.595	3.6	1.7385	0.9321	2156.74		8.162
200.2	198.9	15.593	27.5250	36.058	117.4	17.69	0.989	6.2	1.4038	0.7460	2171.13		8.069
299.8	297.9	11.688	28.2705	35.373	98.2	25.61	1.552	11.6	0.6694	0.3693	2193.86		7.950
400.5	397.8	10.175	28.8341	35.155	101.4	28.34	1.740	14.5	0.4270	0.2482	2195.33		7.909
500.1	496.6	9.040	29.3717	35.013	101.5	30.74	1.904	17.2	0.2443	0.1456	2206.75		7.877
601.3	597.0	7.810	29.9293	34.880	104.4	32.76	2.068	20.8	0.1094	0.0694	2214.68		7.849
700.2	695.0	7.025	30.4508	34.821	97.5	34.83	2.221	24.0	0.0270	0.0186	2224.72		7.815
799.9	793.8	6.294	30.9806	34.778	107.4	34.95	2.264	26.5	0.0097	0.0049	2228.24		7.821
1000.7	992.5	5.378	32.0467	34.813	139.0	32.17	2.117	27.4	0.0029	0.0049	2216.35		7.863
1200.4	1190.0	4.981	33.0816	34.907	173.2	27.66	1.822	24.7	0.0183	0.0117			7.920
1399.5	1386.8	4.589	34.0831	34.970	205.8	23.71	1.566	21.4	0.0323	0.0235			7.966
1500.3	1486.3	4.384	34.5759	34.985	218.5	22.60	1.463	20.3	0.0343	0.0244			7.984
1600.3	1585.0	4.111	35.0696	34.988	232.8	21.37	1.380	19.4	0.0352	0.0283			7.995
1699.3	1682.6	3.908	35.5420	34.988	241.5	20.82	1.333	19.3	0.0373	0.0293			8.004
1800.8	1782.7	3.749	36.0192	34.990	248.8	20.19	1.282	18.9	0.0426	0.0420			8.015
1998.1	1977.1	3.377	36.9460	34.975	254.1	19.75	1.272	21.3	0.0244	0.0205			8.019
2199.2	2175.1	3.129	37.8696	34.963	254.4	20.02	1.290	24.5	0.0113	0.0127			8.021
2399.7	2372.3	2.926	38.7822	34.954	253.6	20.18	1.306	27.5	0.0066	0.0107			8.019
2599.7	2568.8	2.746	39.6862	34.944	251.3	20.71	1.347	32.1	0.0044	0.0059			8.015
2798.6	2764.1	2.610	40.5781	34.937	250.6	20.98	1.363	34.6	0.0009	0.0049			8.014
2999.8	2961.4	2.473	41.4775	34.926	248.4	21.26	1.373	36.9	0.0011	0.0049			8.013
3197.6	3155.2	2.369	42.3547	34.919	249.7	21.38	1.398	39.6	0.0048	0.0127			8.013
3400.0	3353.4	2.282	43.2455	34.914	249.3	21.61	1.402	41.4	0.0018	0.0117			8.006
3549.0	3499.2	2.207	43.8998	34.907	249.9	21.64	1.411	42.6	0.0048	0.0049			8.011
3699.2	3646.0	2.127	44.5599	34.902	250.6	21.72	1.410	44.0	0.0093	0.0088			8.009
3699.5	3646.3	2.126	44.5611	34.900	250.4	21.75	1.418	44.0	0.0080	0.0088			8.007
3998.2	3938.0	1.934	45.8705	34.885	255.8	22.07	1.436	48.4	0.0167	0.0127			8.001
4124.3	4061.1	1.849	46.4215	34.878	250.6	22.38	1.458	50.2	0.0197	0.0166			8.000
4254.2	4187.8	1.660	46.9997	34.858	249.2	22.84	1.505	56.2	0.0213	0.0195			7.994



Station : 214 Campagne : CITHER 2  
 Date : 16-03-94 Heure : 3 h 59 mn  
 Position : N 12 45.51 W 47 29.31  
 Dernier niveau à : 4188  
 Nb prélèvements : 32

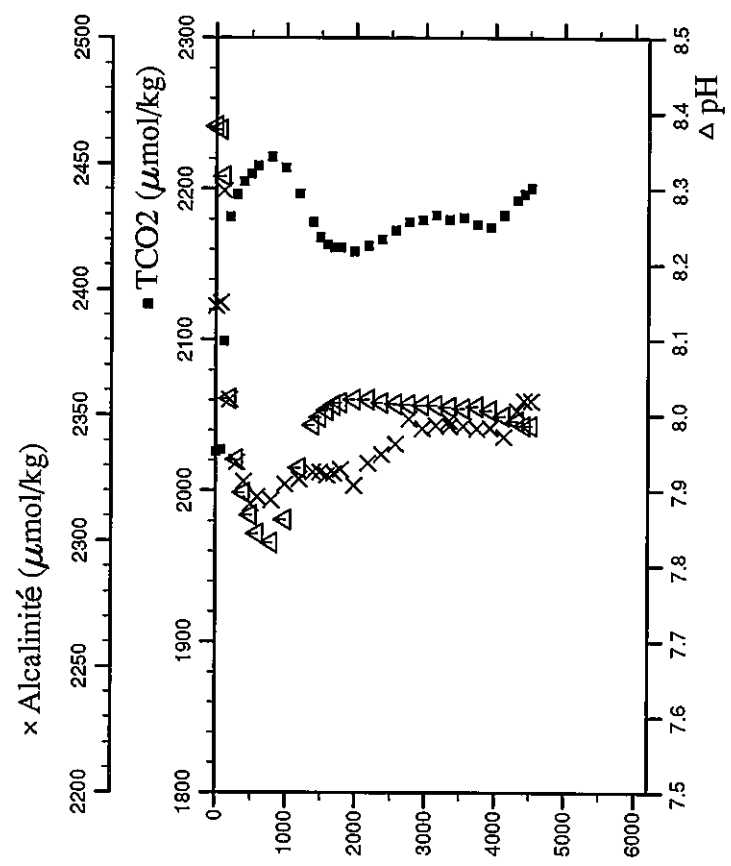
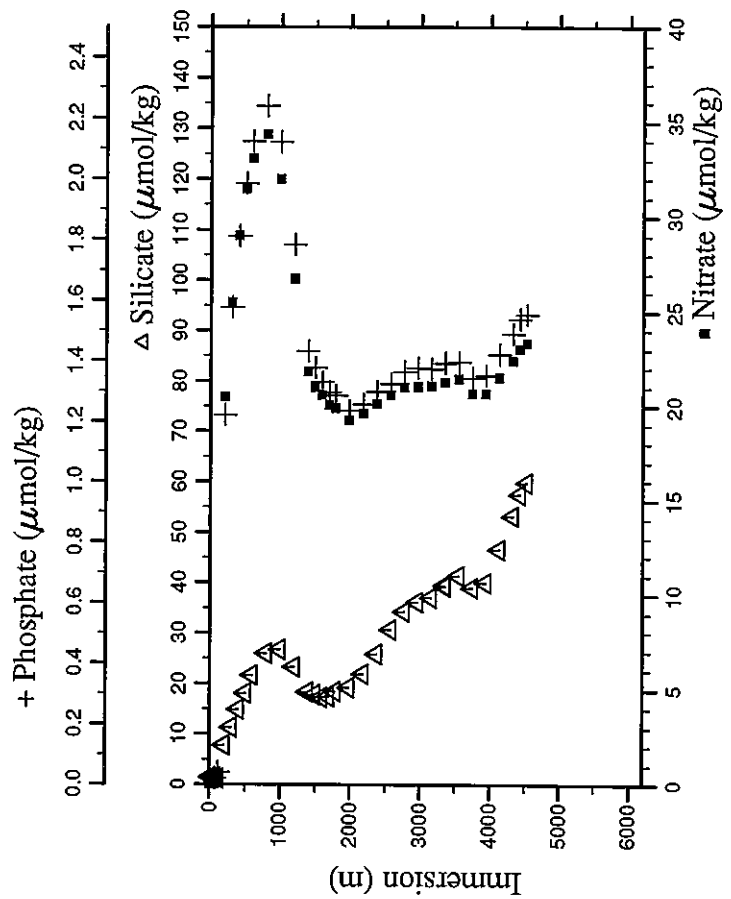
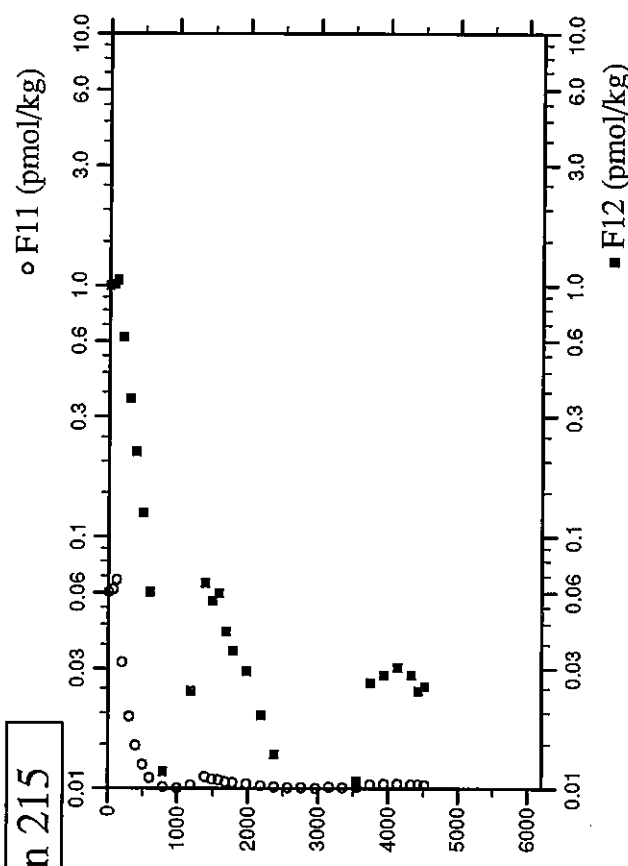
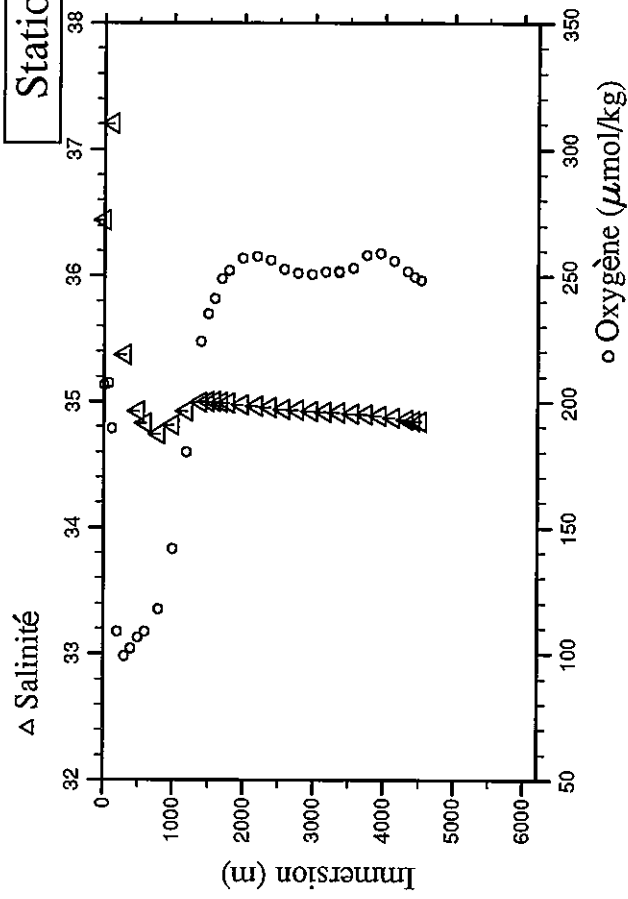
PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg. cells.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.3	4.3	24.866	24.4104	36.334	208.3	0.00	0.003	1.6	1.8558	1.0299			8.388
66.1	65.7	24.664	24.7287	36.345	209.2	r	0.006	1.6	1.8589	1.0329			8.389
94.2	93.6	24.477	25.5155	37.136	199.1		0.012	1.2	1.9003	1.0430			8.351
151.4	150.5	19.741	26.7663	36.739	146.9	8.03	0.418	3.0	1.7992	0.9711			8.203
200.3	199.1	16.196	27.4895	36.175	122.9	16.06	0.883	5.4	1.4919	0.7908			8.094
300.0	298.1	11.632	28.2816	35.356	99.4	25.58	1.572	11.7	0.6434	0.3517			7.944
400.9	398.2	9.958	28.8476	35.111	102.6	28.74	1.780	14.9	0.4044	0.2257			7.905
500.6	497.1	8.817	29.3821	34.974	106.3	30.84	1.927	17.6	0.2966	0.1739			7.878
600.0	595.7	8.094	29.9087	34.920	106.2	31.98	2.041	19.9	0.1577	0.0967			7.861
801.2	795.1	6.202	31.0014	34.777	116.7	34.05	2.214	26.0	0.0125	0.0068			7.835
1000.5	992.4	5.317	32.0593	34.815	143.5	31.87	2.089	27.0	0.0054	0.0049			7.868
1200.1	1189.8	4.966	33.0965	34.926	178.1	26.89	1.785	23.6	0.0218	0.0176			7.925
1400.8	1388.1	4.533	34.1189	34.997	222.9	21.86	1.421	18.5	0.1030	0.0655			7.958
1500.5	1486.5	4.371	34.5920	35.001	230.9	21.11	1.371	17.8	0.1053	0.0684			7.994
1600.2	1584.9	4.089	35.0768	34.995	236.4	20.89	1.358	18.7	0.0503	0.0332			8.002
1700.2	1683.6	3.844	35.5572	34.992	244.3	20.40	1.316	18.7	0.0427	0.0303			8.017
1799.6	1781.6	3.669	36.0256	34.986	252.3	19.69	1.266	18.2	0.0532	0.0352			8.019
2000.5	1979.5	3.407	36.9553	34.980	254.0	19.73	1.265	20.3	0.0263	0.0205			8.020
2199.9	2175.8	3.108	37.8762	34.965	254.0	20.09	1.292	24.0	0.0149	0.0107			8.019
2399.9	2372.5	2.928	38.7848	34.956	254.7	20.17	1.293	26.2	0.0113	0.0088			8.019
2600.7	2569.8	2.744	39.6923	34.945	251.1	20.79	1.349	31.4	0.0040	0.0059			8.013
2798.7	2764.2	2.618	40.5799	34.937	250.0	21.10	1.365	33.8	0.0017	0.0049			8.013
2998.6	2960.3	2.470	41.4737	34.920	249.9	21.27	1.381	36.2	0.0036	0.0029			8.011
3198.6	3156.3	2.364	42.3600	34.920	249.5	21.43	1.397	38.2	0.0060	0.0098			8.009
3399.3	3352.7	2.287	43.2439	34.913	249.3	21.52	1.402	39.7	0.0059	0.0049			8.009
3548.5	3498.7	2.208	43.9005	34.909	249.6	21.59	1.402	39.7	0.0051	0.0039			8.009
3699.4	3646.3	2.130	44.5623	34.901	250.1	21.53	1.401	40.7	0.0072	0.0020			8.007
3848.9	3792.3	2.012	45.2210	34.892	250.4	21.62	1.412	42.4	0.0076	0.0049			8.007
3999.1	3939.0	1.914	45.8811	34.887	251.3	21.74	1.423	44.1	0.0136	0.0117			8.006
4099.0	4036.5	1.797	46.3216	34.875	254.2	21.47	1.402	43.5	0.0266	0.0235			8.000
4188.1	4123.4	1.713	46.7128	34.866	251.9	22.03	1.438	47.9	0.0275	0.0205			8.001
					251.4	22.23	1.465	50.6	0.0291	0.0283			7.998



Station : 215 Campagne : CITHER 2  
 Date : 16-03-94 Heure : 9 h 35 mn  
 Position : N 12 18.29 W 47 45.38  
 Dernier niveau à : 4599  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION metres	TEMP. POT. SONDE deg.cels.	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NIFE	ALCALI-NIFE	pH
5.0	5.0	25.287	24.3634	36.441	206.5	0.00	0.024	1.5	1.8249	0.9996	2026.14	2393.3	8.383
71.5	71.1	25.180	24.6780	36.447	207.3	0.00	0.021	1.5	1.8448	1.0074	2027.39	2394.7	8.379
116.4	115.7	23.401	25.9863	37.206	189.2	0.35	0.042	1.2	1.9375	1.0497	2099.03	2439.2	8.317
199.9	198.7	14.679	27.5377	35.788	108.6	20.52	1.222	7.8	1.1722	0.6201	2181.34	2356.0	8.022
300.9	299.0	11.724	28.2711	35.371	99.1	25.50	1.578	11.4	0.6641	0.3546	2196.24	2331.1	7.941
400.9	398.2	9.791	28.8459	35.082	102.1	29.02	1.813	14.9	0.3967	0.2179	2204.95	2323.6	7.897
501.6	498.1	8.493	29.4073	34.926	106.4	31.48	1.986	18.1	0.2188	0.1241	2209.78	2314.7	7.868
601.4	597.1	7.440	29.9470	34.827	108.6	33.07	2.124	21.6	0.0963	0.0606	2215.31	2317.4	7.843
800.5	794.4	6.150	30.9778	34.745	117.7	34.35	2.241	26.0	0.0156	0.0117	2221.38	2316.1	7.831
1000.4	992.3	5.407	32.0498	34.816	141.5	32.00	2.121	26.7	0.0041	0.0068	2214.14	2322.4	7.862
1200.6	1190.3	4.972	33.0991	34.927	179.9	26.74	1.785	23.3	0.0244	0.0244	2196.64	2324.4	7.930
1399.9	1387.2	4.532	34.1143	34.999	224.0	21.83	1.433	18.3	0.1076	0.0655	2178.33	2327.3	7.987
1500.1	1486.2	4.258	34.6048	35.000	234.8	21.02	1.377	17.8	0.0853	0.0557	2167.85	2327.3	7.997
1600.5	1585.2	4.091	35.0788	35.000	241.0	20.60	1.332	17.4	0.0782	0.0596	2163.48	2326.0	8.007
1702.0	1685.4	3.857	35.5649	34.995	248.7	20.06	1.297	17.5	0.0637	0.0420	2160.97	2326.9	8.013
1800.3	1782.3	3.710	36.0219	34.990	252.2	19.91	1.287	18.5	0.0545	0.0352	2161.29	2328.3	8.017
2000.0	1979.1	3.398	36.9537	34.978	257.0	19.26	1.236	19.3	0.0416	0.0293	2158.78	2321.9	8.021
2200.2	2176.2	3.152	37.8725	34.968	257.8	19.61	1.258	21.9	0.0267	0.0195	2162.38	2330.8	8.017
2400.7	2373.4	2.939	38.7865	34.956	256.1	20.12	1.299	25.9	0.0118	0.0137	2166.56	2334.5	8.015
2600.4	2569.6	2.738	39.6913	34.943	252.5	20.62	1.325	30.7	0.0064	0.0078	2172.58	2338.4	8.015
2799.8	2765.3	2.584	40.5881	34.937	251.2	21.03	1.365	34.2	0.0060	0.0068	2177.96	2348.3	8.014
2999.1	2960.8	2.467	41.4759	34.927	250.7	21.05	1.377	36.1	0.0042	0.0039	2179.51	2344.7	8.013
3198.7	3156.4	2.368	42.3602	34.922	251.6	21.10	1.373	37.1	0.0109	0.0059	2182.96	2345.9	8.013
3398.1	3351.7	2.259	43.2412	34.916	251.4	21.30	1.392	39.4	0.0088	0.0098	2179.88	2347.6	8.011
3398.9	3352.5	2.258	43.2454	34.914	251.8	21.29	1.395	39.2	0.0091	0.0068	2179.88	2347.6	8.011
3600.0	3549.2	2.115	44.1343	34.905	253.2	21.45	1.397	41.3	0.0163	0.0107	2180.92	2345.6	8.009
3798.2	3742.9	1.998	45.0072	34.898	258.2	20.68	1.345	38.9	0.0380	0.0264	2176.57	2344.5	8.012
3998.6	3938.6	1.897	45.8830	34.891	259.1	20.69	1.353	40.0	0.0448	0.0283	2174.92	2344.8	8.007
4198.4	4133.5	1.757	46.7544	34.876	255.9	21.54	1.422	46.6	0.0445	0.0303	2182.82	2341.3	7.999
4397.7	4327.8	1.606	47.6199	34.860	251.8	22.40	1.491	53.2	0.0386	0.0283	2192.66	2351.8	7.992
4499.2	4426.7	1.525	48.0616	34.847	249.7	23.06	1.538	57.5	0.0357	0.0244	2196.71	2355.6	7.986
4598.2	4523.0	1.481	48.4875	34.843	248.3	23.37	1.554	59.8	0.0320	0.0254	2200.39	2355.5	7.986

Station 215

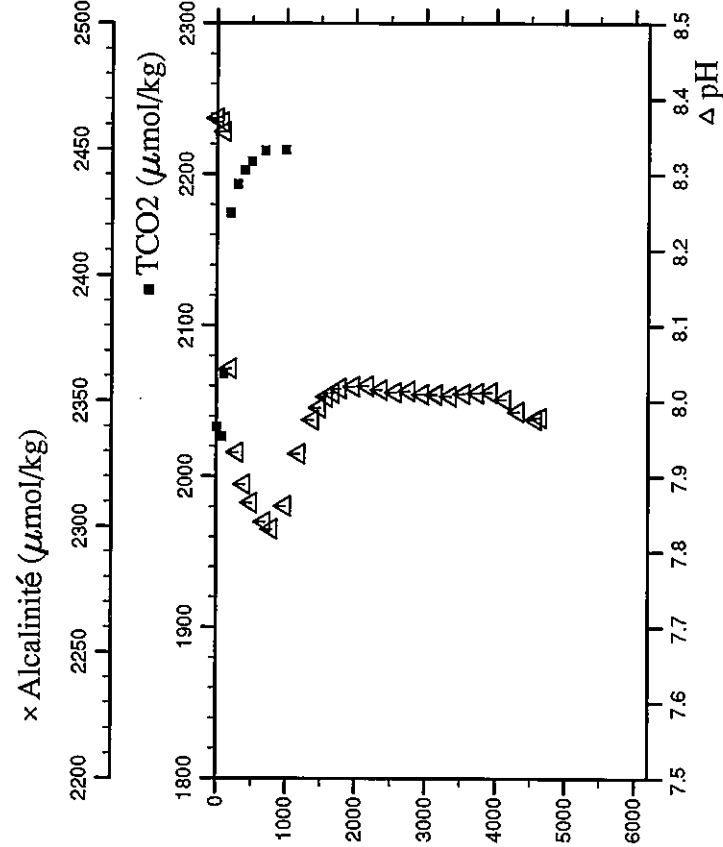
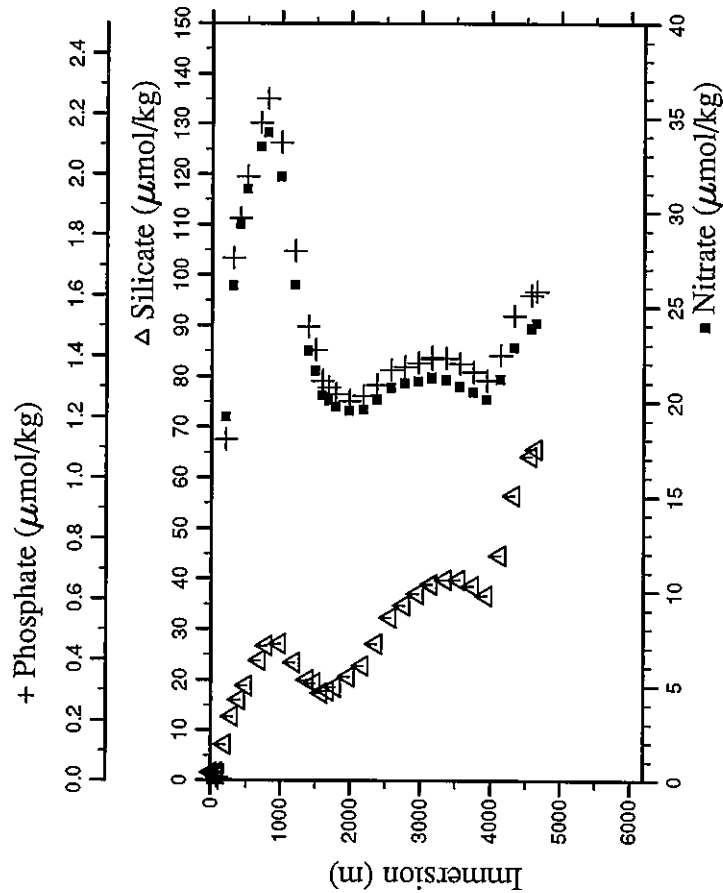
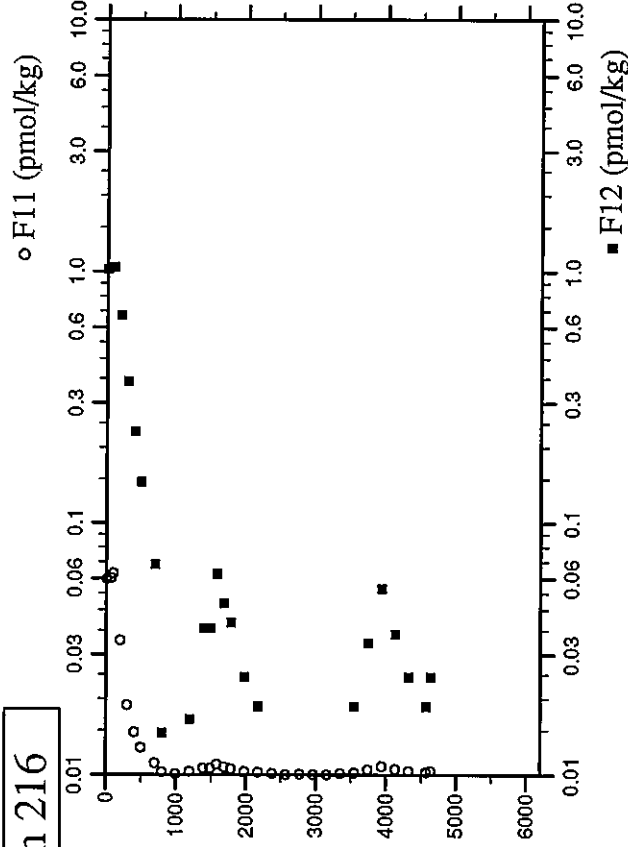
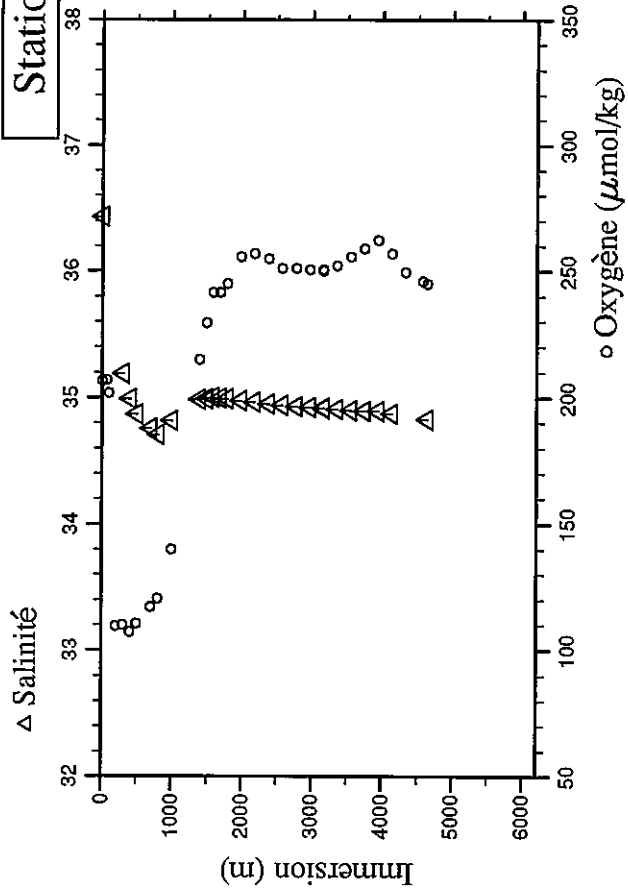




Station : 216 Campagne : CITHER 2  
 Date : 16-03-94 Heure : 15 h 28 mn  
 Position : N 11 51.04 W 48 1.17  
 Dernier niveau à : 4722  
 Nb prélèvements : 32

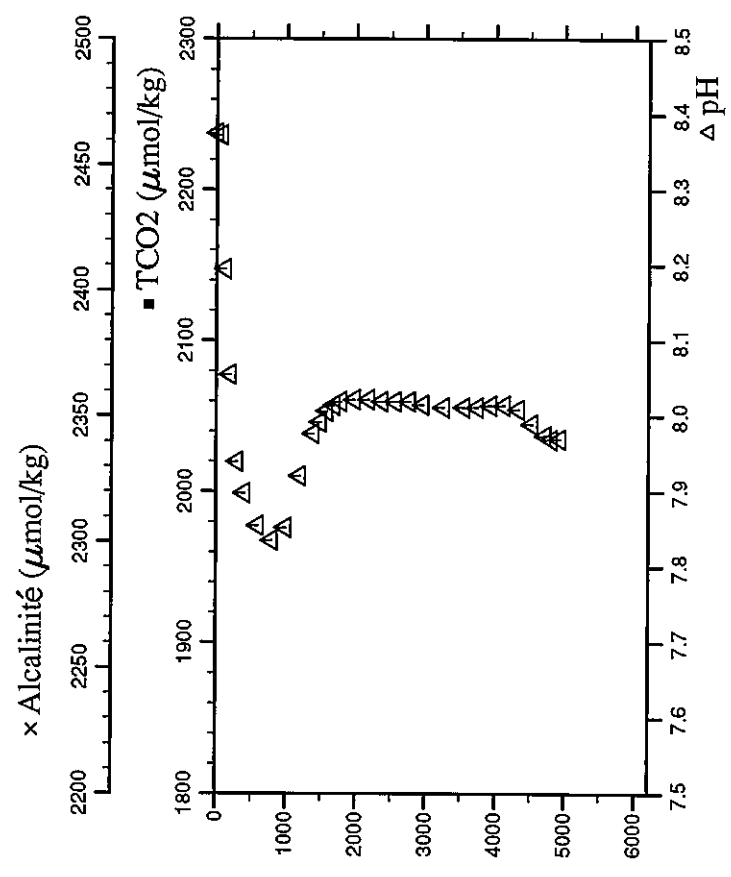
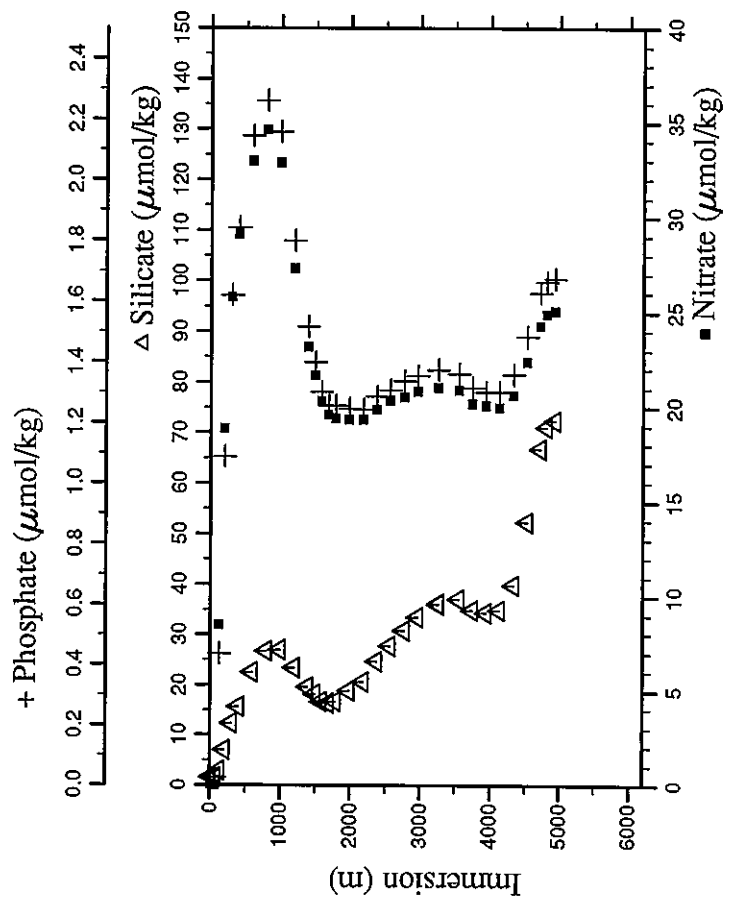
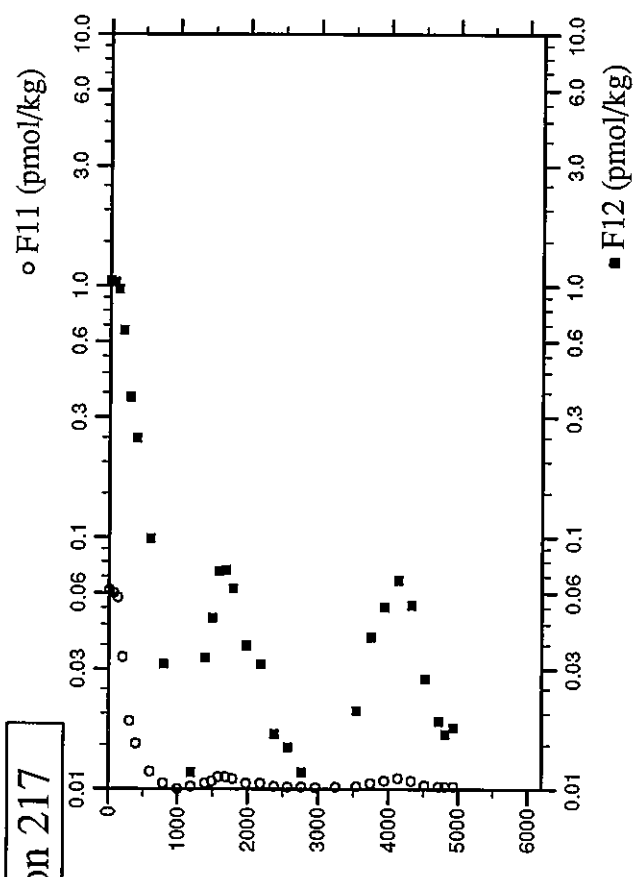
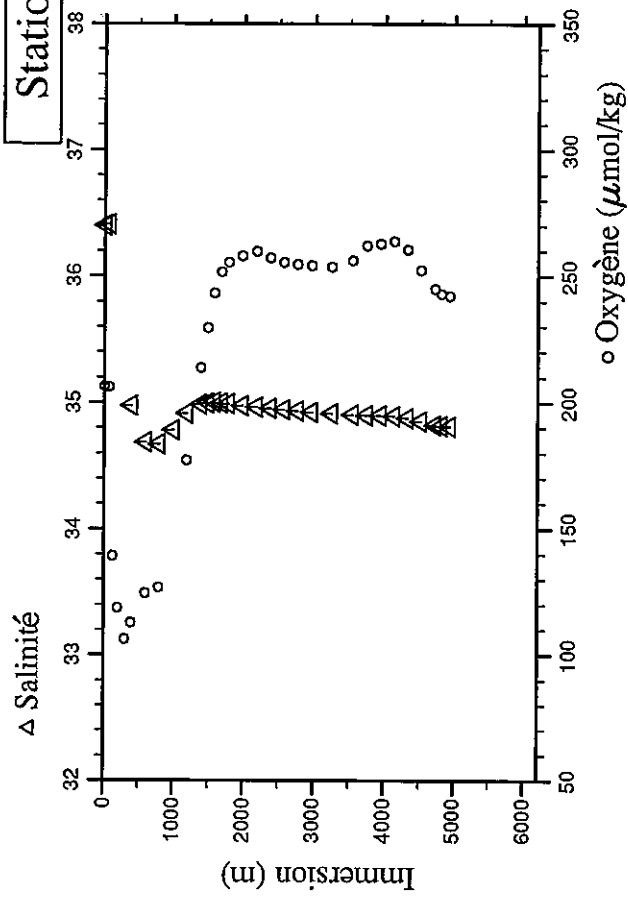
PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	PH
dbar	metres	deg. cels.		um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.5	7.5	25.476	24.3064	36.431	206.6	0.04	0.027	1.6	1.8133	1.0240	2032.72		8.374
75.8	75.4	25.217	24.6791	36.440	206.9	0.00	0.012	1.6	1.8246	1.0318	2026.26		8.369
101.5	100.9	24.682	25.4766	37.059	201.9	0.04	0.006	1.2	1.8629	1.0410	2067.75		8.357
200.1	198.9	15.180	27.5125	35.917	109.5	19.18	1.126	7.2	1.2413	0.6689	2174.42		8.043
300.6	298.7	10.879	28.2851	35.188	110.0	26.09	1.724	12.7	0.6411	0.3644	2193.23		7.932
401.4	398.7	9.327	28.8632	34.993	107.3	29.35	1.855	16.1	0.3907	0.2306	2202.52		7.890
502.0	498.5	8.352	29.3890	34.872	110.6	31.21	1.993	18.9	0.2519	0.1456	2208.81		7.865
700.0	694.8	6.909	30.4170	34.757	117.2	33.46	2.170	23.8	0.1114	0.0684	2215.80		7.840
801.3	795.2	6.098	30.9584	34.709	120.4	34.21	2.251	26.7	0.0260	0.0147			7.830
999.2	991.1	5.437	32.0359	34.818	139.9	31.85	2.104	27.1	0.0060	-0.0010	2216.43		7.861
1201.0	1190.7	4.925	33.1099	34.938	183.4	26.15	1.747	23.4	0.0287	0.0166			7.930
1398.9	1386.2	4.572	34.0943	34.988	215.1	22.67	1.497	20.0	0.0591	0.0381			7.975
1500.5	1486.6	4.303	34.5958	34.994	229.4	21.62	1.421	19.4	0.0585	0.0381			7.991
1599.7	1584.5	4.128	35.0708	35.001	241.4	20.34	1.318	17.5	0.0983	0.0625			8.006
1699.1	1682.5	3.945	35.5393	34.997	241.5	20.07	1.297	17.9	0.0748	0.0479			8.011
1800.3	1782.3	3.733	36.0189	34.992	245.1	19.72	1.276	18.6	0.0543	0.0401			8.017
2000.1	1979.2	3.364	36.9567	34.976	255.8	19.52	1.254	20.6	0.0337	0.0244			8.019
2199.1	2175.1	3.112	37.8709	34.966	256.9	19.59	1.270	22.8	0.0239	0.0186			8.020
2400.2	2372.9	2.885	38.7890	34.952	254.8	20.13	1.306	27.1	0.0117	0.0059			8.015
2600.4	2569.6	2.683	39.6959	34.942	251.1	20.74	1.355	32.3	0.0049	0.0049			8.012
2799.9	2765.5	2.560	40.5897	34.931	251.0	20.97	1.366	34.7	0.0056	0.0029			8.013
2999.2	2961.0	2.436	41.4780	34.924	250.5	21.08	1.379	37.1	0.0027	-0.0010			8.009
3198.8	3156.6	2.345	42.3619	34.918	250.6	21.30	1.396	38.9	0.0039	-0.0010			8.009
3199.0	3156.8	2.346	42.3626	34.919	250.2	21.23	1.390	38.8	0.0021	0.0010			8.008
3399.4	3353.0	2.214	43.2500	34.909	252.2	21.15	1.392	39.9	0.0118	0.0098			8.007
3599.1	3548.4	2.074	44.1342	34.901	255.7	20.83	1.375	39.8	0.0225	0.0186			8.010
3797.9	3742.7	1.966	45.0090	34.895	258.9	20.52	1.349	38.6	0.0481	0.0332			8.011
3998.5	3938.5	1.907	45.8828	34.894	262.2	20.13	1.321	36.6	0.0801	0.0547			8.012
4198.8	4134.0	1.763	46.7546	34.875	257.0	21.17	1.404	44.7	0.0583	0.0362			8.012
4397.5	4327.7	1.550	47.6241	34.833	249.7	22.86	1.532	56.5	0.0376	0.0244			7.986
4647.7	4571.3	1.397	48.7053	34.850	245.9	23.85	1.600	64.3	0.0285	0.0186			7.976
4719.9	4641.6	1.372	49.0148	34.830	245.0	24.12	1.613	65.7	0.0377	0.0244			7.979

Station 216



Station : 217 Campagne : CIPHER 2  
 Date : 16-03-94 Heure : 21 h 13 mn  
 Position : N 11 24.02 W 48 17.18  
 Dernier niveau à : 5026  
 Nb prélèvements : 32

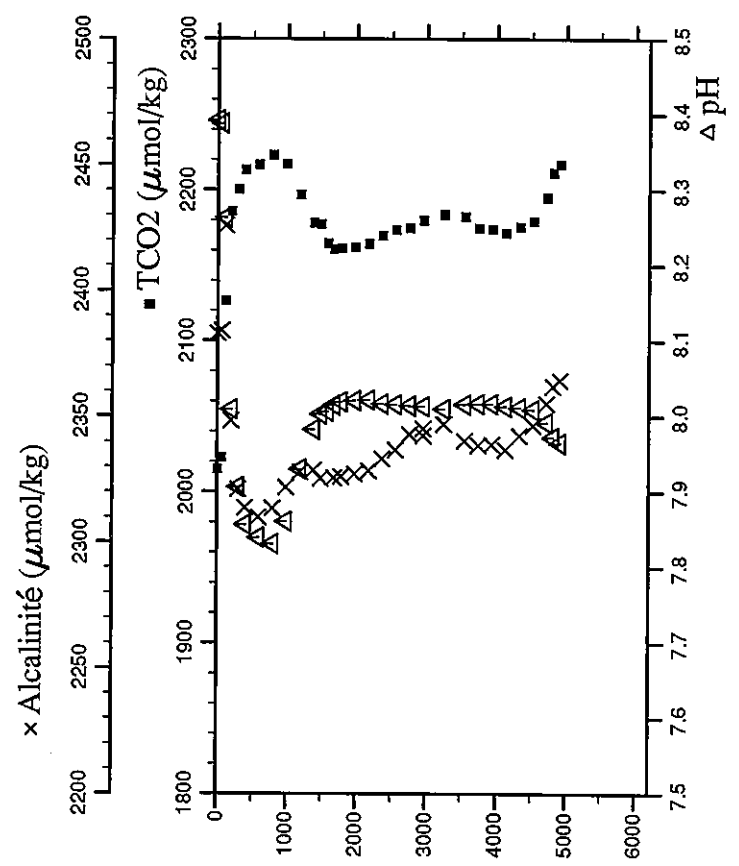
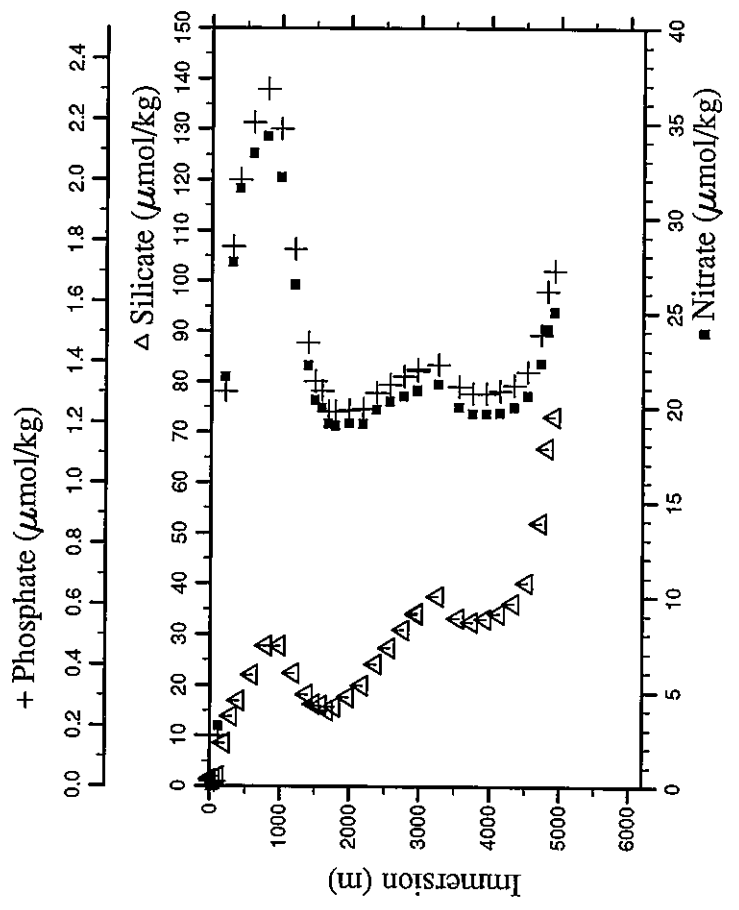
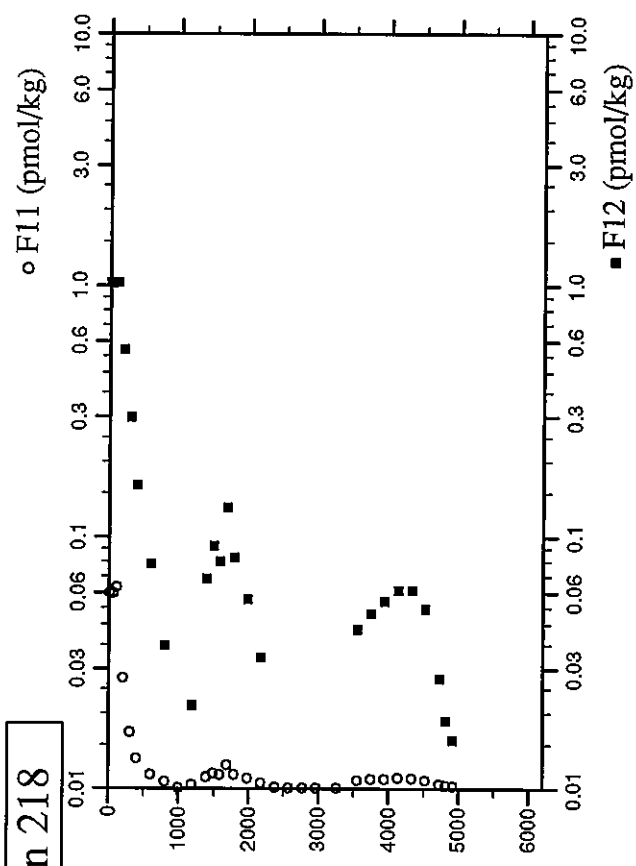
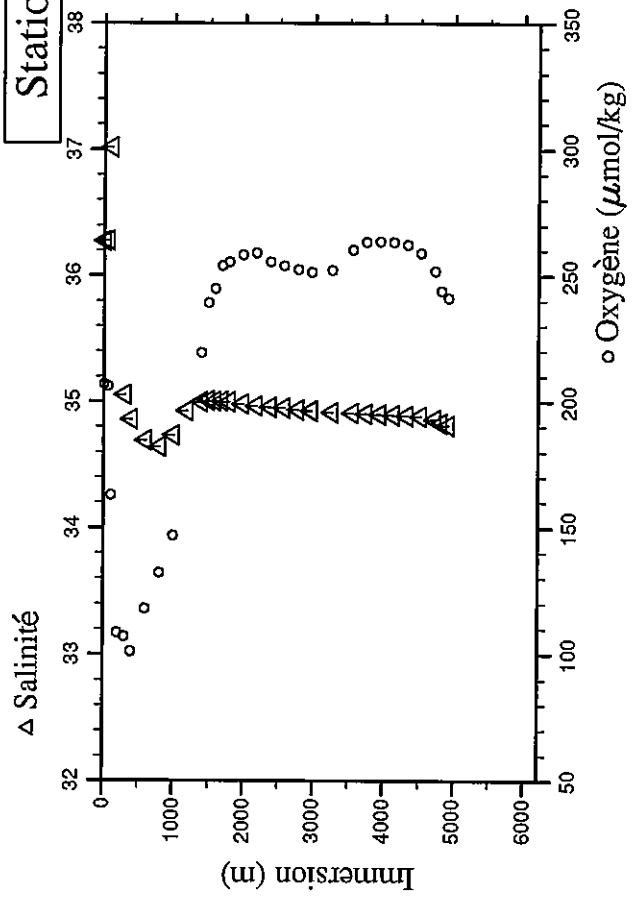
PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg. cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
6.5	6.5	25.360	24.3161	36.401	206.4	0.04	0.026	1.6	1.8454	1.0455			8.375
71.0	70.6	25.249	24.6324	36.411	206.1	0.00	0.026	1.6	1.8196	1.0367			8.373
125.3	124.5	19.651	26.6597	36.722	r	8.50	0.438	2.8	1.7751	0.9682			8.195
201.1	199.9	14.587	27.6370	35.901	r	18.87	1.088	7.1	1.2218	0.6650			8.055
300.9	299.0	11.110	28.3497	35.264	r	25.79	1.619	12.4	0.6329	0.3615			7.940
400.2	397.5	9.229	28.8624	34.978		29.12	1.841	15.7	0.4219	0.2482			7.898
600.2	595.9	6.848	29.9225	34.686	124.6	32.97	2.145	22.5	0.1651	0.0987			7.855
800.2	794.1	5.860	30.9580	34.671	126.8	34.63	2.262	26.8	0.0531	0.0313			7.835
1000.8	992.7	5.421	32.0195	34.785	136.3	32.89	2.157	27.0	0.0039	0.0020			7.852
1199.4	1189.1	5.007	33.0787	34.916	177.2	27.33	1.799	23.4	0.0254	0.0117			7.921
1399.7	1387.1	4.606	34.0902	34.986	213.8	23.19	1.515	19.6	0.0575	0.0332			7.977
1499.9	1486.0	4.341	34.5885	34.997	229.4	21.70	1.399	18.2	0.0724	0.0479			7.992
1598.2	1583.0	4.124	35.0639	35.001	243.3	20.34	1.301	16.7	0.1118	0.0733			8.007
1701.1	1684.5	3.910	35.5539	34.998	251.5	19.61	1.257	16.4	0.1163	0.0743			8.014
1800.7	1782.8	3.728	36.0226	34.994	255.5	19.43	1.257	16.7	0.0981	0.0625			8.019
1998.0	1977.2	3.410	36.9403	34.979	257.9	19.36	1.246	18.8	0.0529	0.0371			8.022
2201.4	2177.4	3.159	37.8753	34.967	259.8	19.34	1.245	20.7	0.0557	0.0313			8.019
2398.7	2371.5	2.937	38.7748	34.956	257.3	19.91	1.287	24.7	0.0255	0.0166			8.019
2598.6	2567.9	2.757	39.6784	34.944	255.5	20.37	1.308	27.8	0.0174	0.0147			8.019
2797.9	2763.6	2.615	40.5741	34.936	254.7	20.53	1.338	30.8	0.0169	0.0117			8.015
2998.6	2960.4	2.489	41.4690	34.928	254.1	20.84	1.354	33.5	0.0159	0.0059			8.015
3296.6	3252.4	2.318	42.7901	34.918	253.7	21.05	1.376	36.0	0.0182	0.0098			8.012
3296.7	3252.5	2.317	42.7915	34.915	253.6	21.04	1.373	36.2	0.0174	0.0088			8.012
3597.6	3546.9	2.139	44.1185	34.904	256.2	20.91	1.360	37.1	0.0267	0.0205			8.012
3798.6	3743.4	2.030	45.0048	34.900	262.0	20.20	1.317	34.9	0.0581	0.0401			8.012
3998.4	3938.5	1.958	45.8734	34.898	262.9	20.10	1.302	34.4	0.0815	0.0528			8.014
4199.0	4134.2	1.899	46.7429	34.893	263.8	19.99	1.302	34.9	0.1011	0.0674			8.014
4398.0	4328.2	1.811	47.6012	34.882	260.4	19.99	1.302	34.9	0.0781	0.0538			8.009
4598.4	4523.4	1.617	48.4714	34.857	252.3	22.40	1.483	52.3	0.0394	0.0274			7.990
4798.4	4718.0	1.345	49.3481	34.826	245.1	24.31	1.629	66.8	0.0281	0.0186			7.974
4899.2	4816.0	1.280	49.7812	34.818	242.9	24.91	1.663	71.1	0.0249	0.0166			7.969
5022.5	4935.9	1.254	50.3047	34.815	242.1	25.07	1.675	72.4	0.0252	0.0176			7.970



Station : 218 Campagne : CITHRER 2  
 Date : 17-03-94 Heure : 3 h 25 mn  
 Position : N 10 56.74 W 48 32.99  
 Dernier niveau à : 5001  
 Nb prélèvements : 32

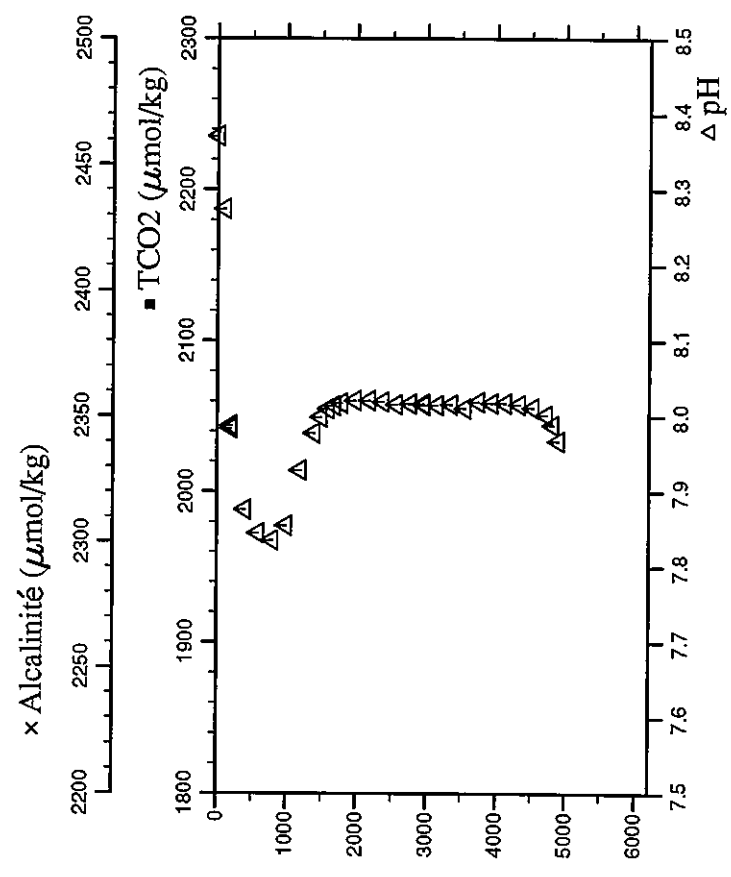
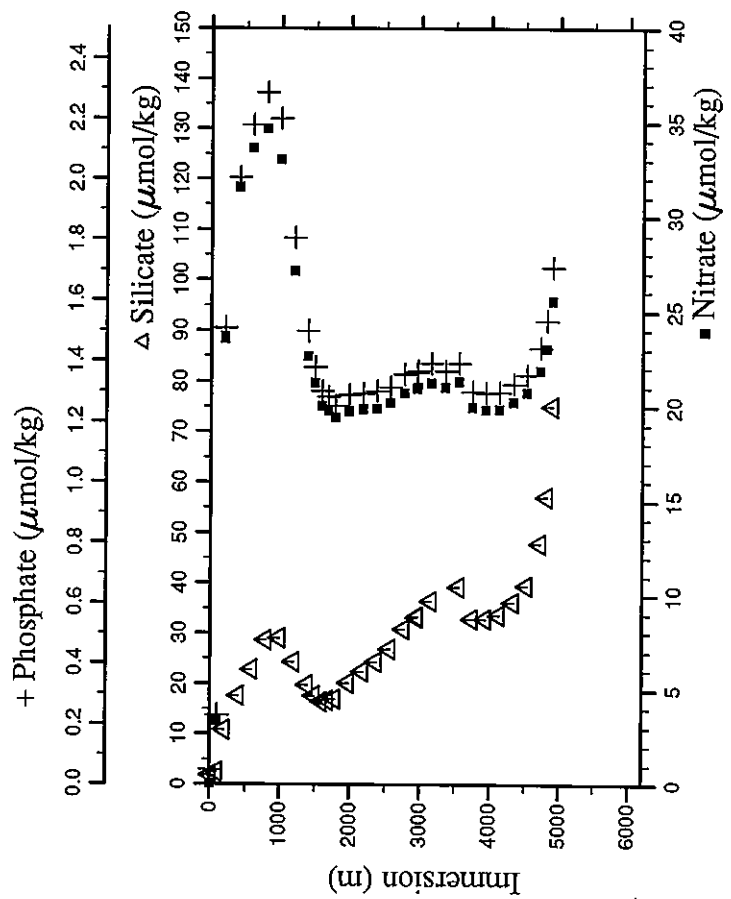
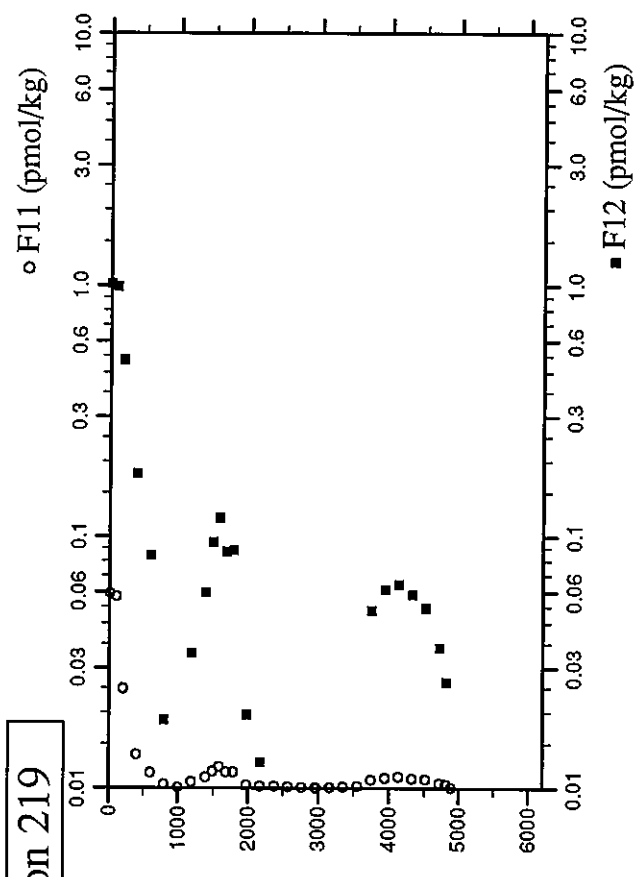
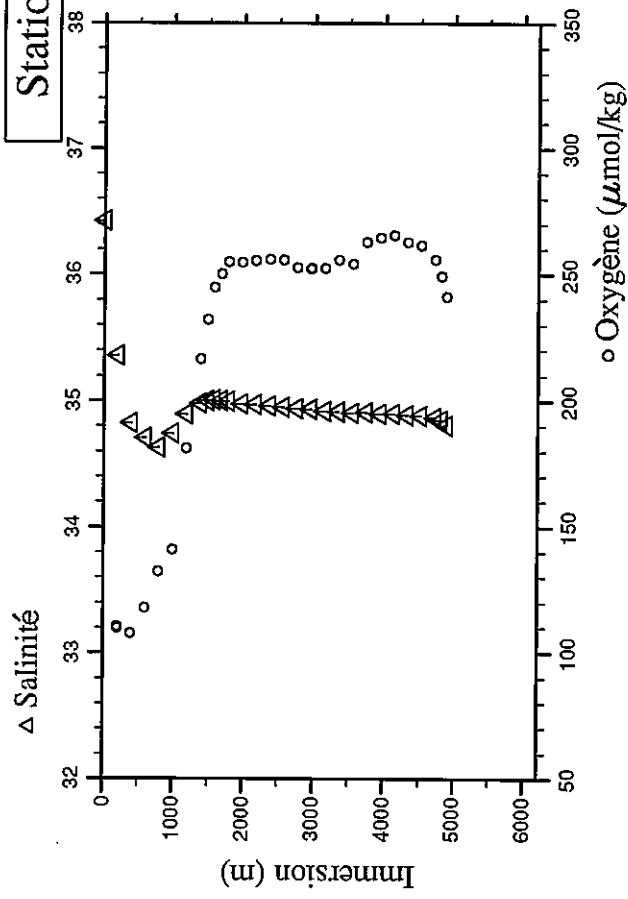
PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg. cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
6.1	6.1	25.453	24.1903	36.271	206.8	0.00	0.015	1.5	1.8171	1.0270	2015.08	2382.9	8.392
61.3	60.9	25.451	24.4280	36.278	206.2	0.00	0.015	1.4	1.8158	1.0202	2022.60	2384.0	8.388
110.9	110.2	22.145	26.1837	37.015	163.0	3.19	0.169	1.9	1.8718	1.0284	2126.33	2425.6	8.263
202.3	201.1	13.812	27.6414	35.657	108.4	21.58	1.301	8.6	1.0293	0.5567	2185.73	2348.1	8.009
301.5	299.6	10.099	28.3312	35.051	107.0	27.66	1.780	13.9	0.5238	0.2980	2199.98	2320.9	7.907
401.1	398.4	8.734	28.8662	34.862	101.2	31.56	2.000	16.9	0.2788	0.1603	2213.19	2313.7	7.857
600.8	596.5	6.923	29.9216	34.694	117.9	33.38	2.190	22.1	0.1338	0.0782	2216.74	2309.7	7.840
800.9	794.8	5.497	30.9936	34.643	132.1	34.31	2.300	27.7	0.0688	0.0371	2223.19	2313.4	7.831
1000.4	992.3	5.080	32.0265	34.732	146.8	32.13	2.168	27.8	0.0108	0.0059	2217.09	2321.7	7.861
1200.6	1190.3	4.994	33.0969	34.926	181.4	26.49	1.773	22.4	0.0398	0.0215	2196.64	2327.8	7.930
1399.8	1387.2	4.594	34.1048	34.996	219.3	22.19	1.462	18.2	0.1117	0.0684	2178.11	2328.6	7.983
1500.2	1486.3	4.293	34.6069	35.008	239.1	20.37	1.336	16.3	0.1472	0.0919	2177.35	2325.2	8.003
1600.0	1584.8	4.110	35.0785	35.001	244.7	19.98	1.303	16.1	0.1304	0.0801	2164.74	2327.2	8.007
1699.8	1683.3	3.932	35.5510	35.001	254.0	19.11	1.235	15.0	0.2219	0.1309	2160.89	2325.5	8.015
1801.3	1783.4	3.764	36.0242	34.996	255.5	19.03	1.235	15.8	0.1321	0.0831	2161.29	2326.0	8.019
1999.7	1978.9	3.457	36.9468	34.983	258.2	19.14	1.240	17.7	0.0987	0.0567	2162.14	2327.1	8.021
2197.9	2174.0	3.202	37.8589	34.968	259.0	19.13	1.244	20.0	0.0535	0.0332	2163.99	2328.3	8.022
2399.1	2371.9	3.002	38.7713	34.958	255.5	19.85	1.298	24.2	0.0124	0.0049	2169.46	2333.2	8.017
2599.2	2568.5	2.831	39.6752	34.949	253.9	20.30	1.326	27.4	0.0085	0.0010	2173.54	2336.7	8.016
2799.9	2765.6	2.637	40.5829	34.937	252.4	20.56	1.353	30.9	0.0073	0.0029	2174.83	2342.8	8.014
2999.4	2961.3	2.484	41.4762	34.928	251.3	20.86	1.375	34.0	0.0070	0.0020	2179.86	2345.2	8.013
3000.4	2962.3	2.483	41.4803	34.930	251.4	20.93	1.369	34.2	0.0094	0.0010	2179.86	2342.3	8.013
3298.7	3254.5	2.294	42.8056	34.917	252.0	21.23	1.390	37.5	0.0066	0.0068	2183.56	2346.8	8.010
3599.9	3549.2	2.143	44.1340	34.911	260.2	20.01	1.319	33.2	0.0799	0.0430	2182.54	2340.3	8.016
3798.1	3743.0	2.049	45.0043	34.904	263.2	19.67	1.296	32.5	0.0886	0.0498	2174.67	2338.6	8.017
3998.8	3939.0	1.980	45.8771	34.902	263.5	19.67	1.295	33.1	0.0906	0.0557	2173.85	2338.7	8.017
4398.7	4134.0	1.925	46.7416	34.896	263.2	19.70	1.304	34.1	0.1036	0.0616	2171.36	2336.8	8.013
4398.8	4329.1	1.869	47.6008	34.890	262.2	20.00	1.323	36.2	0.0978	0.0616	2175.42	2342.3	8.012
4598.2	4523.3	1.801	48.4559	34.885	259.1	20.60	1.368	40.2	0.0785	0.0518	2179.32	2346.5	8.009
4798.8	4718.5	1.611	49.3247	34.860	251.9	22.33	1.491	52.1	0.0415	0.0274	2195.11	2354.9	7.992
4897.0	4814.0	1.359	49.7654	34.828	244.1	24.14	1.635	66.9	0.0299	0.0186	2211.42	2362.0	7.973
4999.9	4914.0	1.222	50.2174	34.813	241.1	25.06	1.703	73.1	0.0271	0.0156	2217.14	2364.2	7.965

Station 218



Station : 219 Campagne : CITHER 2  
 Date : 17-03-94 Heure : 9 h 25 mn  
 Position : N 10 29.67 W 48 49.08  
 Dernier niveau à : 4975  
 Nb prélèvements : 32

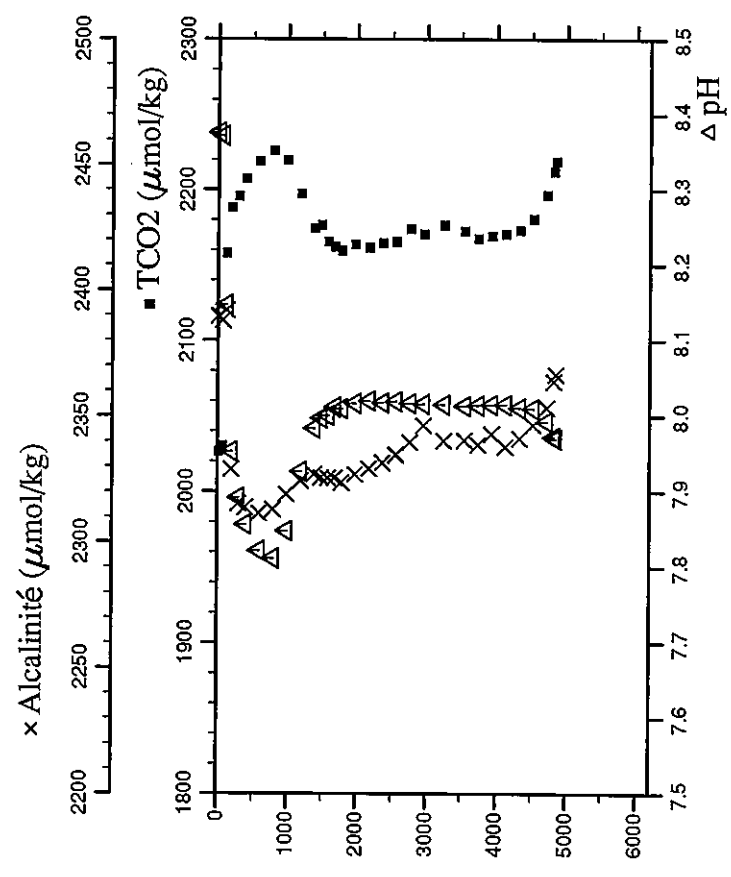
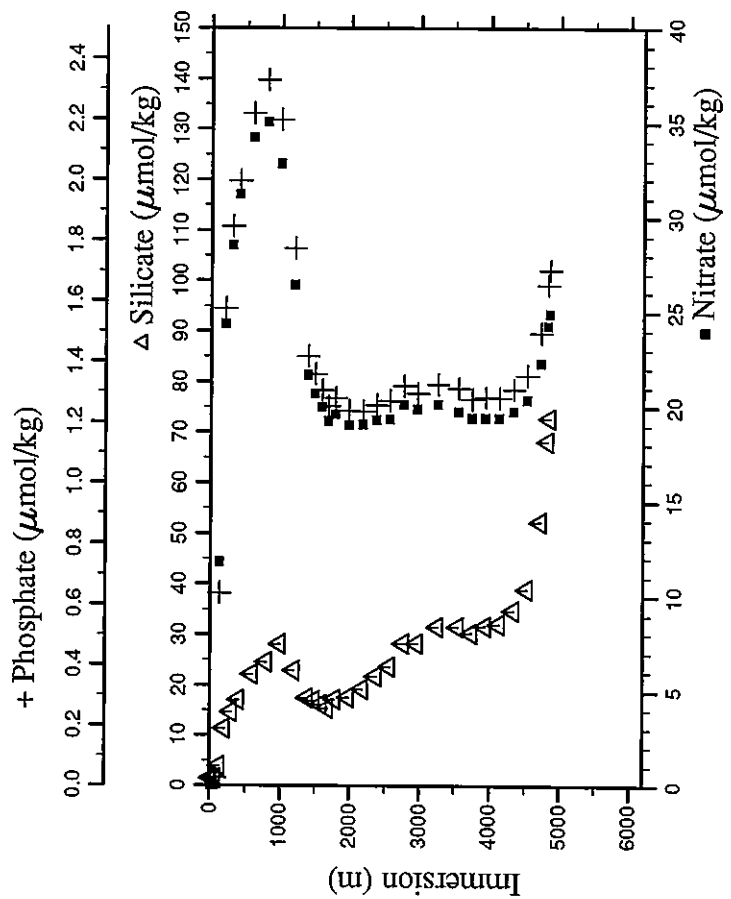
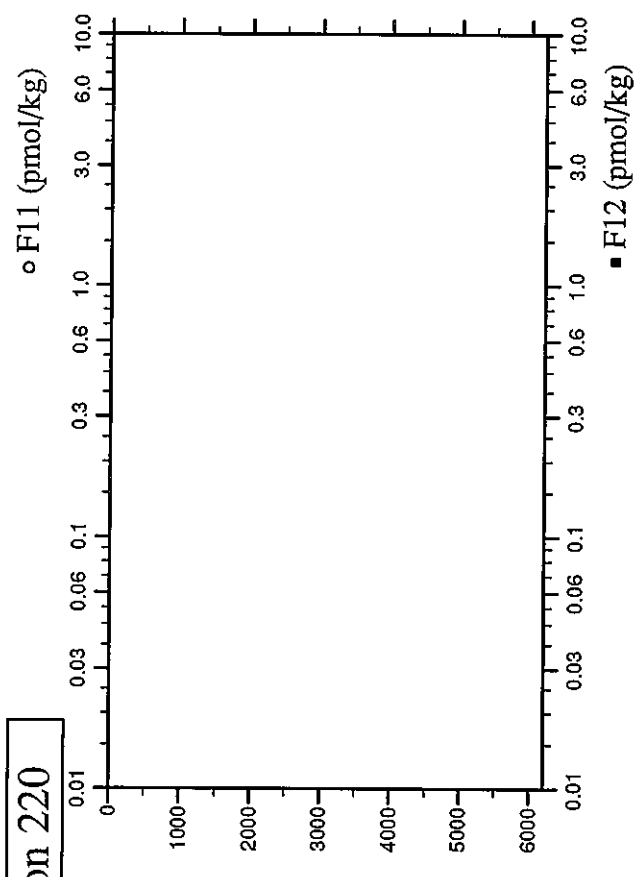
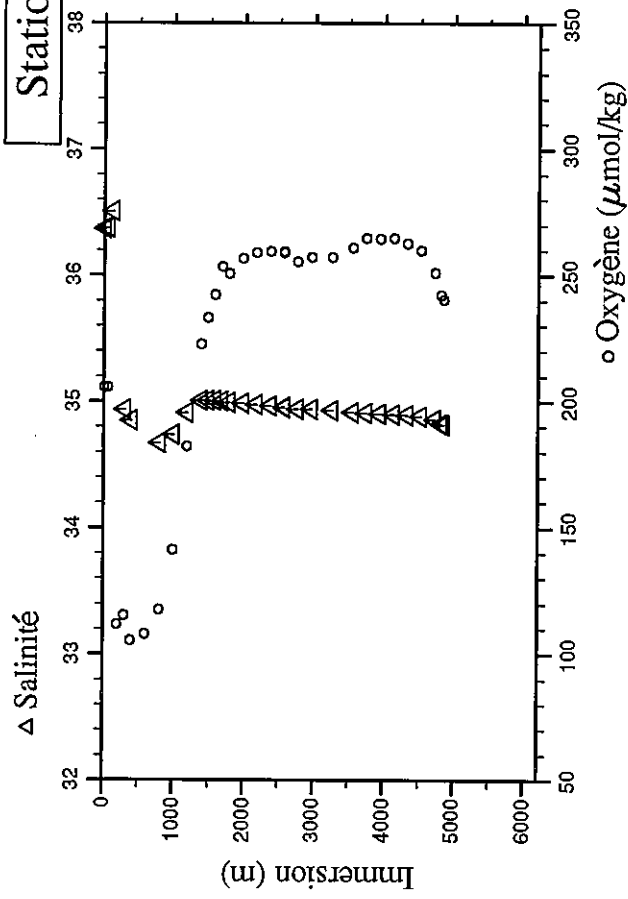
PRESSION CHIMIE	IMMERSION metres	TEMP. POT. SONDE deg.cels.	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI-NITE	pH
dbar				um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
4.8	4.8	25.498	24.2863	36.427	205.2	r 0.04	0.050	1.8	1.8034	1.0152			8.371
100.8	100.2	23.380	25.5142	36.683	r 164.8	r 3.36	0.229	2.5	1.7731	0.9867			8.274
201.3	200.1	12.352	27.6962	35.357	r 110.5	r 23.71	1.508	10.8	0.9133	0.5060			7.988
201.7	200.5	12.347	27.6920	35.367	r 109.7	r 23.55	1.509	10.8	0.9242	0.5041			7.984
399.2	396.6	8.580	28.8491	34.822	107.7	31.55	2.006	17.6	0.3109	0.1788			7.876
600.7	596.4	7.013	29.9174	34.705	117.9	33.63	2.179	22.8	0.1446	0.0841			7.845
799.8	793.7	5.549	30.9737	34.633	132.3	34.63	2.286	28.6	0.0365	0.0186			7.835
1000.2	992.1	5.119	32.0263	34.741	141.1	33.02	2.199	29.0	0.0093	0.0000			7.855
1199.6	1189.4	4.900	33.0768	34.893	181.2	27.11	1.807	24.3	0.0597	0.0342			7.929
1399.7	1387.1	4.607	34.0910	34.983	216.6	22.65	1.499	19.7	0.1013	0.0596			7.978
1499.2	1485.4	4.408	34.5800	35.001	232.1	21.24	1.381	17.6	0.1591	0.0948			7.999
1598.9	1583.8	4.182	35.0646	35.006	244.7	20.05	1.301	16.5	0.2002	0.1182			8.010
1699.3	1682.8	3.956	35.5413	35.000	250.0	19.75	1.283	16.7	0.1489	0.0870			8.014
1798.8	1780.9	3.776	36.0096	34.995	254.9	19.41	1.253	16.9	0.1486	0.0879			8.018
1998.7	1977.9	3.417	36.9429	34.978	254.6	19.76	1.289	16.9	0.0318	0.0195			8.021
2198.2	2174.3	3.209	37.8542	34.969	255.5	19.88	1.294	22.4	0.0203	0.0127			8.021
2399.4	2372.2	3.031	38.7693	34.960	255.9	19.89	1.301	24.3	0.0225	0.0098			8.019
2598.3	2567.7	2.877	39.6655	34.952	255.7	20.20	1.315	26.9	0.0131	0.0088			8.016
2799.7	2765.4	2.729	40.5707	34.942	252.6	20.70	1.357	30.8	0.0051	0.0029			8.017
2988.7	2950.8	2.580	41.4174	34.935	252.0	20.94	1.363	33.1	0.0068	-0.0010			8.017
2999.2	2961.1	2.562	41.4655	34.937	252.4	21.01	1.367	33.4	0.0048	0.0000			8.015
3197.9	3155.9	2.408	42.3528	34.923	252.3	21.24	1.392	36.4	0.0064	0.0020			8.015
3398.9	3352.7	2.305	43.2407	34.916	255.6	21.02	1.368	36.4	0.0134	0.0059			8.016
3599.2	3548.6	2.165	44.1243	34.905	254.2	21.33	1.393	39.2	0.0192	0.0088			8.011
3798.1	3743.0	2.076	44.9997	34.908	262.9	19.97	1.299	32.8	0.0763	0.0508			8.019
3998.9	3939.1	1.993	45.8756	34.902	264.7	19.82	1.296	32.8	0.0952	0.0616			8.018
4199.0	4134.4	1.932	46.7413	34.898	265.7	19.87	1.298	33.6	0.1098	0.0645			8.018
4399.9	4330.2	1.883	47.6041	34.891	262.9	20.25	1.324	36.1	0.0928	0.0586			8.016
4597.2	4522.4	1.817	48.4497	34.884	261.4	20.75	1.354	39.5	0.0825	0.0518			8.012
4798.3	4718.1	1.695	49.3129	34.870	256.0	21.90	1.444	47.9	0.0507	0.0362			8.002
4898.3	4815.3	1.567	49.7488	34.852	249.4	23.05	1.533	57.1	0.0352	0.0264			7.989
4975.4	4890.3	1.207	50.1157	34.810	241.2	25.55	1.709	75.0	0.0056	-0.0010			7.968





Station : 220 Campagne : CIPHER 2  
 Date : 17-03-94 Heure : 15 h 16 mn  
 Position : N 10 2.45 W 49 4.63  
 Dernier niveau à : 4933  
 Nb prélèvements : 32

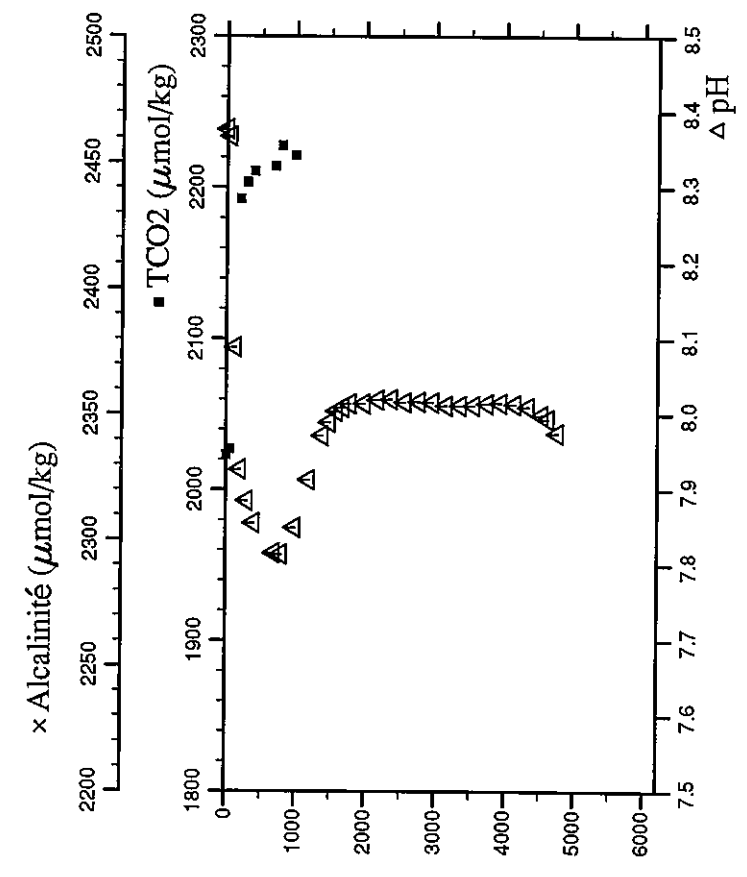
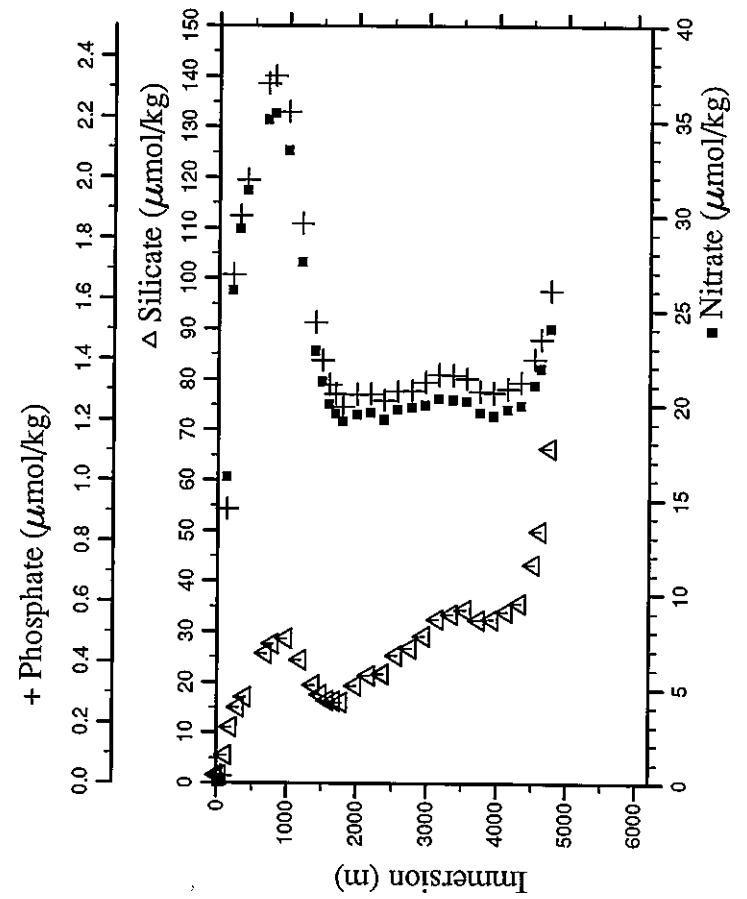
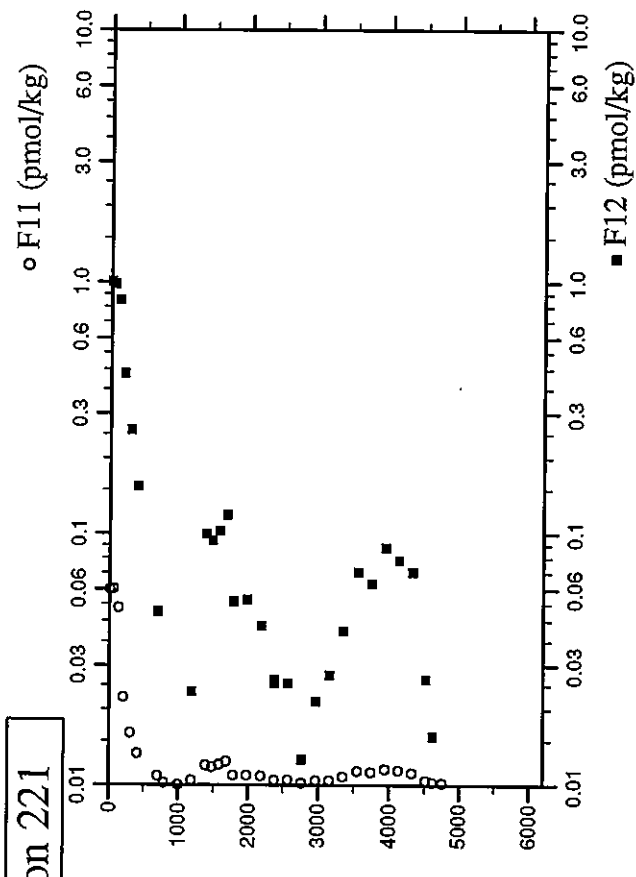
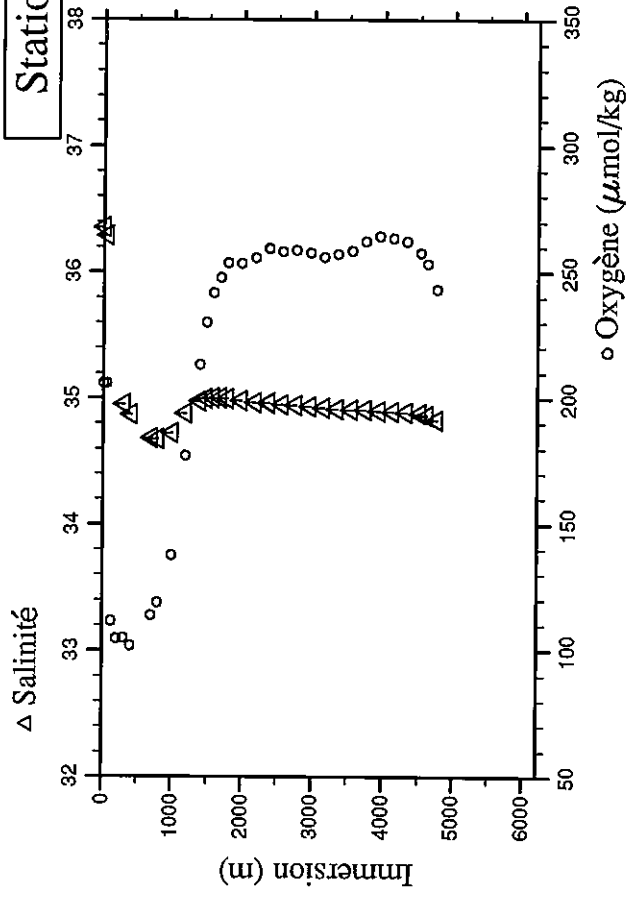
PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT., NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
10.4	10.3	25.628	24.2279	36.371	205.6	0.04	0.027	1.5			2026.43	2389.6	8.376
65.4	65.0	25.507	24.5015	36.376	205.7	0.04	0.027	1.5			2030.32	2387.9	8.372
126.1	125.3	19.435	26.6052	36.506	123.9	11.84	0.637	3.9			2157.64	2391.8	8.147
201.4	200.2	11.693	27.7513	35.251	111.8	24.38	1.574	11.3			2187.92	2328.9	7.953
299.5	297.6	9.496	28.3370	34.938	115.3	28.53	1.847	14.7			2195.29	2315.2	7.892
400.3	397.7	8.680	28.8621	34.851	105.5	31.23	1.996	17.1			2207.16	2313.7	7.857
801.2	795.4	7.057	29.9350	34.732	108.0	34.23	2.220	22.2			2218.90	2311.2	7.822
1000.0	992.0	5.835	30.9697	34.673	117.7	35.04	2.329	24.6			2226.04	2312.8	7.812
1200.7	1190.5	5.070	32.0333	34.738	141.3	32.86	2.197	28.2			2219.70	2318.8	7.848
1398.9	1386.3	4.945	33.0893	34.912	182.3	26.45	1.775	22.9			2197.17	2324.2	7.927
1498.6	1484.8	4.670	34.0946	35.005	222.5	21.71	1.419	17.5			2174.52	2326.9	7.984
1599.2	1584.1	4.218	34.5796	35.006	233.1	20.72	1.359	16.9			2176.38	2325.6	7.997
1698.9	1682.4	4.007	35.5358	35.005	242.1	20.00	1.306	16.2			2165.45	2325.2	8.001
1799.1	1781.3	3.781	36.0076	35.003	253.5	19.24	1.252	15.4			2162.21	2325.2	8.012
2000.3	1979.5	3.525	36.9401	34.993	250.6	19.63	1.281	17.2			2159.62	2323.4	8.010
2198.6	2174.8	3.258	37.8541	34.987	256.6	19.06	1.239	17.6			2163.84	2326.7	8.017
2398.4	2371.3	3.011	38.7697	34.975	259.0	19.07	1.237	19.3			2161.39	2329.1	8.020
2598.5	2567.9	2.840	39.6745	34.964	259.5	19.32	1.258	21.8			2164.57	2331.5	8.018
2799.0	2768.2	2.840	39.6748	34.955	259.5	19.35	1.273	23.7			2164.57	2334.8	8.019
2998.9	2960.9	2.681	40.5739	34.953	259.1	19.36	1.270	23.7			2165.24	2334.5	8.019
3298.6	3254.5	2.575	41.4643	34.943	255.3	20.13	1.321	28.3			2174.03	2339.4	8.017
3599.4	3548.9	2.378	42.7972	34.939	257.3	19.91	1.296	28.3			2170.63	2346.2	8.016
3798.4	3743.4	2.184	44.1273	34.915	257.1	20.14	1.324	31.6			2176.49	2340.1	8.015
3995.5	3935.9	2.081	45.0022	34.910	261.0	19.77	1.312	31.6			2172.42	2340.4	8.013
4198.3	4133.7	2.001	45.8614	34.905	264.8	19.43	1.277	30.3			2167.48	2338.5	8.014
4398.5	4328.9	1.934	46.7382	34.900	264.5	19.43	1.282	31.7			2169.42	2342.7	8.015
4596.5	4521.8	1.875	47.5998	34.894	262.8	19.44	1.281	32.1			2170.38	2337.8	8.015
4798.2	4718.0	1.810	48.4483	34.886	269.9	19.75	1.309	34.8			2173.02	2341.1	8.011
4900.7	4817.7	1.607	49.3234	34.862	251.2	20.37	1.354	39.0			2180.74	2346.4	8.010
4930.7	4846.9	1.332	49.7847	34.826	242.3	22.31	1.494	52.3			2196.83	2353.2	7.993
		1.261	49.9196	34.818	240.3	24.28	1.653	68.2			2212.35	2363.6	7.973
						24.93	1.703	72.7			2219.15	2366.4	7.970



Δ pH

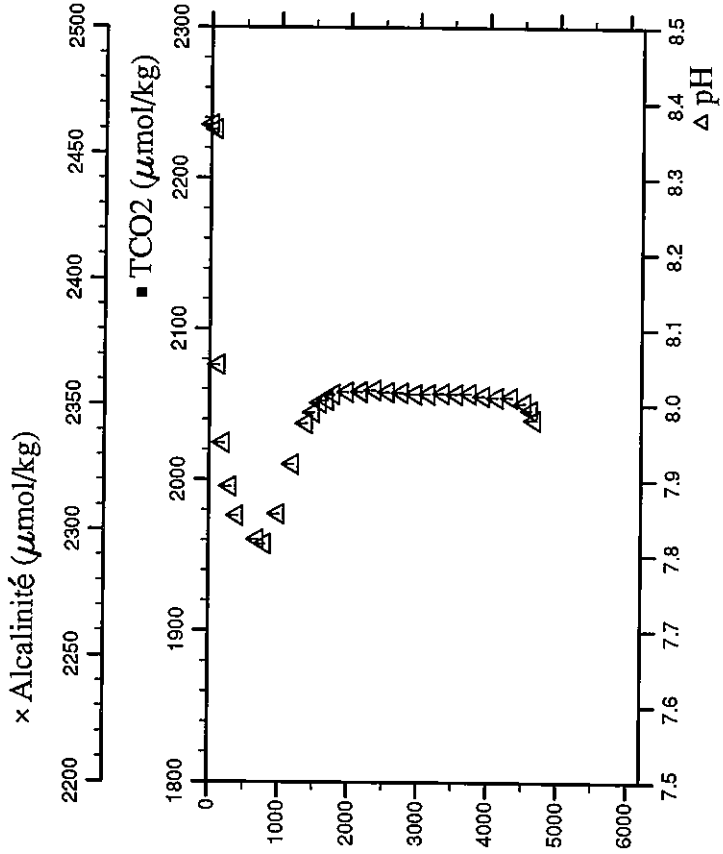
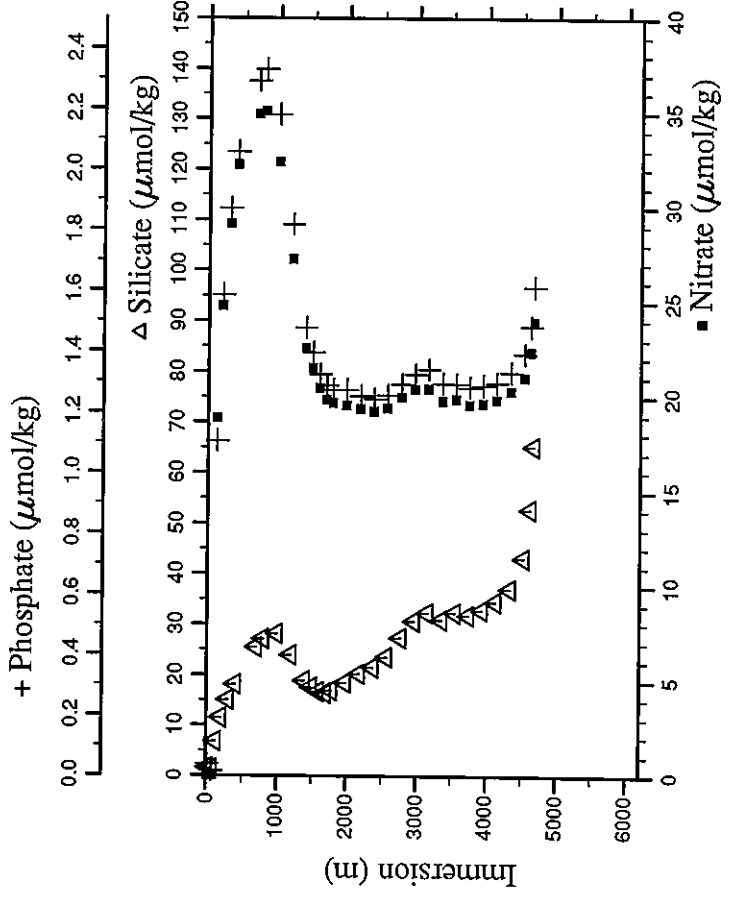
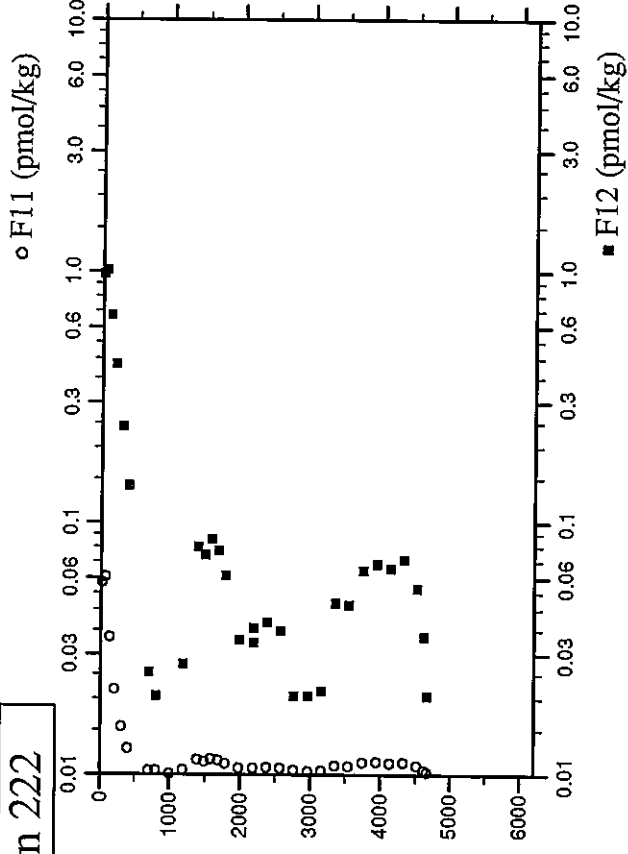
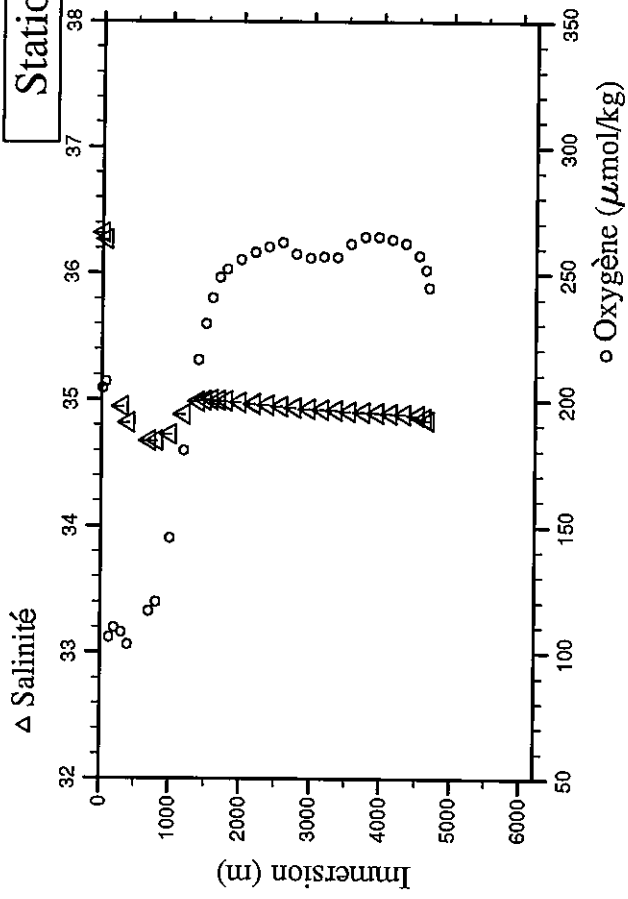
Station : 221 Campagne : CITHER 2  
 Date : 17-03-94 Heure : 21 h 10 mn  
 Position : N 9 36.52 W 49 19.97  
 Dernier niveau à : 4842  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP.POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.7	7.7	25.754	24.1663	36.356	205.8	0.04	0.027	1.6	1.8189	1.0055	2023.06		8.377
50.5	50.2	25.454	24.3907	36.291	205.8	0.04	0.024	1.6	1.8220	0.9792	2026.76		8.368
125.6	124.9	17.862	26.8078	36.209	111.4	16.18	0.905	5.5	1.6464	0.8474	2169.43 d		8.089
200.5	199.3	11.151	27.7741	35.181	104.7	26.04	1.678	11.1	0.8149	0.4319	2192.51		7.927
299.4	297.5	9.632	28.3193	34.951	104.9	29.29	1.873	15.0	0.8149	0.2580	2203.65		7.885
401.3	398.6	8.830	28.8558	34.870	101.9	31.32	1.993	17.1	0.2922	0.1544	2210.89		7.856
700.3	695.2	6.208	30.4690	34.682	113.7	35.04	2.311	25.7	0.0860	0.0489	2214.09		7.816
800.5	794.5	5.744	30.9855	34.678	119.0	35.40	2.336	27.6	0.0176	0.0068	2227.59		7.814
1000.3	992.3	5.133	32.0124	34.724	137.6	33.41	2.216	28.6	0.0000	-0.0020	2221.40		7.850
1200.1	1189.9	4.896	33.0708	34.880	177.2	27.54	1.848	24.4	0.0450	0.0235			7.913
1399.8	1387.2	4.643	34.0819	34.978	213.1	22.85	1.521	19.5	0.1876	0.0997			7.972
1498.7	1484.9	4.429	34.5739	34.996	230.0	21.21	1.398	17.6	0.1691	0.0938			7.990
1599.2	1584.1	4.226	35.0585	35.003	241.8	20.02	1.316	16.4	0.1896	0.1026			8.004
1699.0	1682.6	4.028	35.5305	35.000	247.7	19.53	1.287	16.3	0.2208	0.1182			8.009
1799.6	1781.8	3.850	36.0042	34.997	253.7	19.11	1.245	16.1	0.0892	0.0537			8.014
2000.7	1979.9	3.490	36.9417	34.980	253.4	19.50	1.284	19.4	0.0928	0.0547			8.014
2201.0	2177.1	3.251	37.8624	34.967	255.6	19.59	1.265	21.4	0.0821	0.0430			8.019
2400.0	2372.9	3.054	38.7703	34.963	259.4	19.25	1.265	21.8	0.0450	0.0254			8.020
2400.5	2373.4	3.060	38.7721	34.964	259.3	19.21	1.265	21.7	0.0508	0.0264			8.020
2599.1	2568.6	2.851	39.6736	34.950	258.1	19.75	1.295	25.3	0.0489	0.0254			8.016
2798.0	2763.8	2.688	40.5704	34.944	258.8	19.87	1.297	26.7	0.0205	0.0127			8.017
3000.1	2962.1	2.569	41.4704	34.935	257.6	20.00	1.324	29.2	0.0410	0.0215			8.016
3198.9	3156.9	2.416	42.3579	34.927	256.0	20.35	1.351	32.5	0.0459	0.0274			8.012
3398.9	3352.8	2.311	43.2410	34.918	257.1	20.28	1.348	33.5	0.0772	0.0410			8.012
3600.2	3549.7	2.193	44.1291	34.911	258.4	20.20	1.338	34.4	0.1319	0.0704			8.012
3797.3	3742.3	2.098	44.9939	34.908	262.4	19.59	1.295	32.4	0.1182	0.0635			8.014
3999.4	3939.7	2.006	45.8775	34.902	264.4	19.41	1.292	32.5	0.1525	0.0880			8.015
4199.8	4135.2	1.941	46.7436	34.896	263.5	19.76	1.303	34.0	0.1407	0.0782			8.013
4398.5	4329.0	1.881	47.5985	34.891	262.4	19.96	1.325	35.7	0.1166	0.0704			8.010
4598.0	4523.3	1.757	48.4594	34.878	257.8	21.04	1.402	43.4	0.0410	0.0264			7.999
4699.1	4621.7	1.653	48.8984	34.864	253.4	21.93	1.468	50.0	0.0235	0.0156			7.994
4840.7	4759.4	1.392	49.5249	34.831	243.2	24.02	1.629	66.4	0.0207	0.0098			7.975



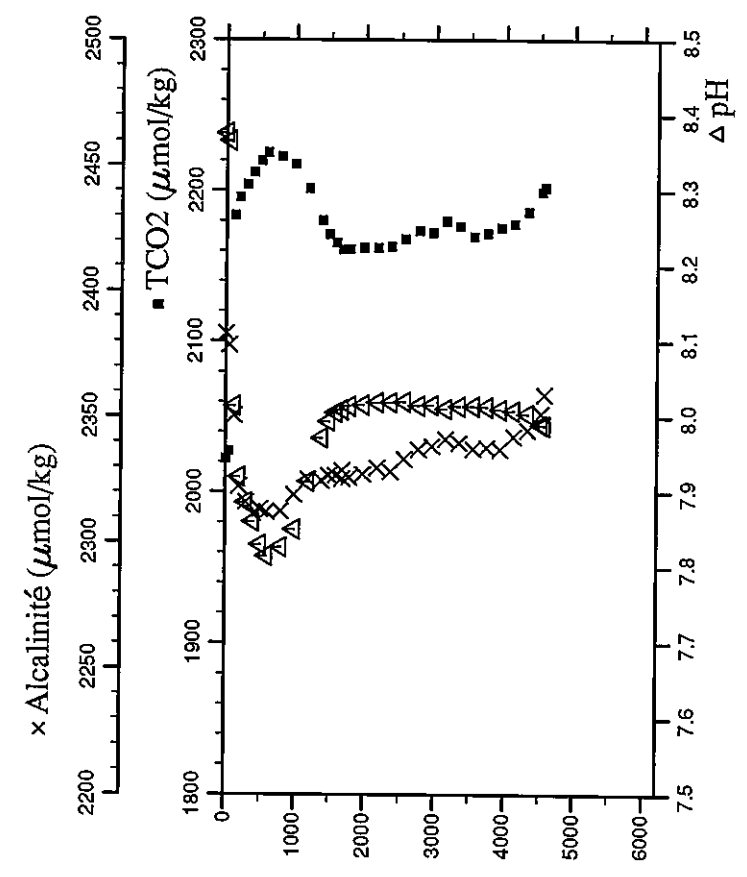
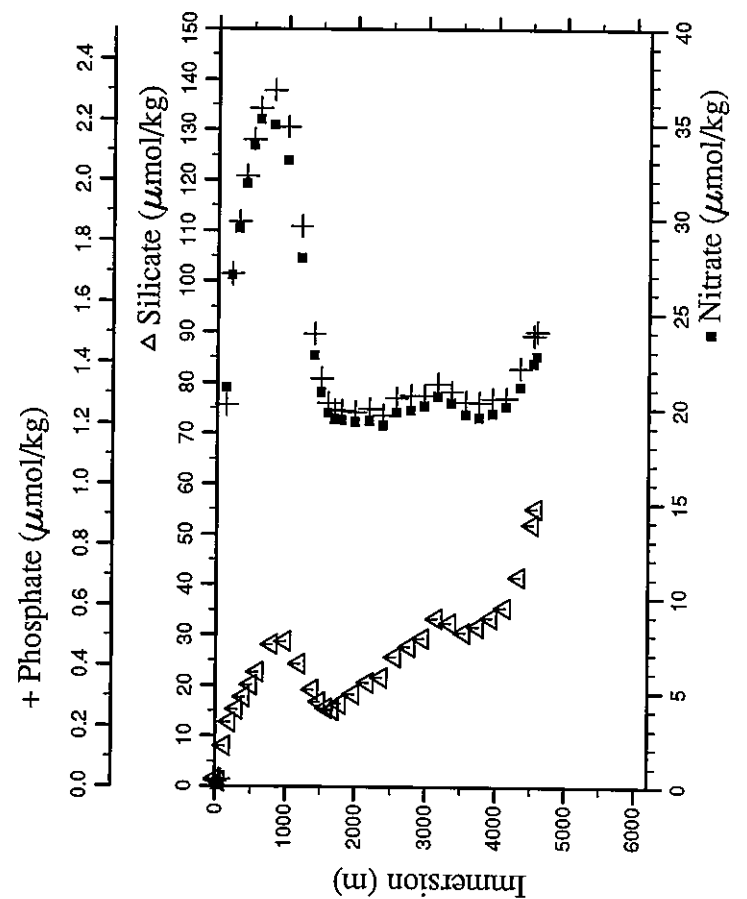
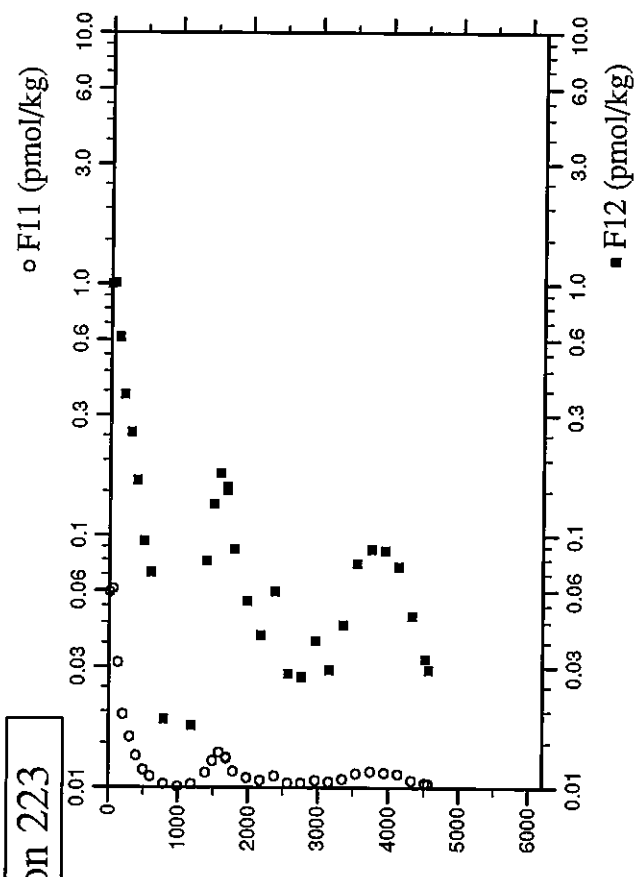
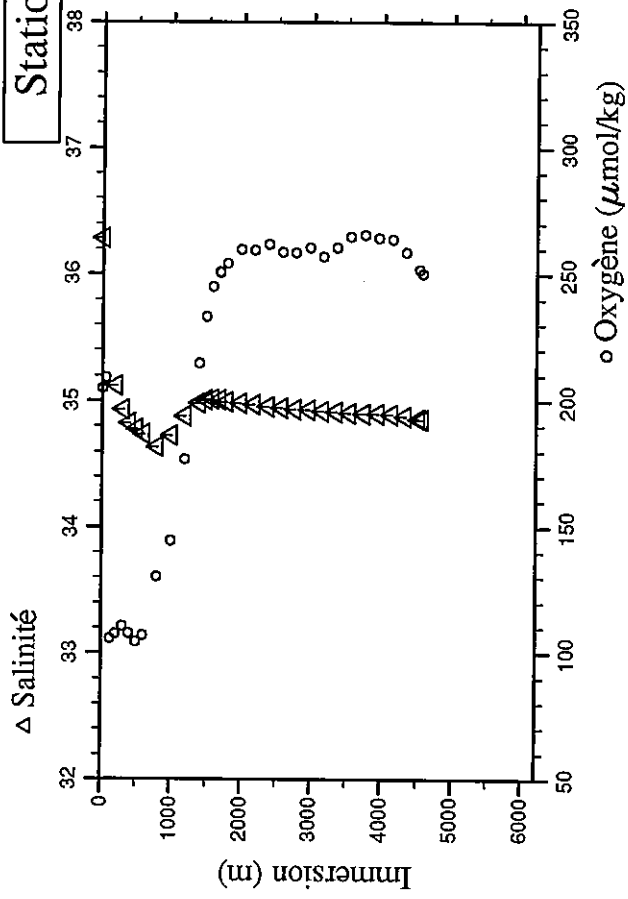
Station : 222 Campagne : CITHIER 2  
 Date : 18-03-94 Heure : 3 h 6 mn  
 Position : N 9 10.59 W 49 35.16  
 Dernier niveau à : 4744  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT. NITE	ALCALI- NITE	PH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
12.0	11.9	26.032	24.0668	36.317	204.5	0.00	0.039	1.6	1.7735	0.9831			8.371
65.8	65.4	24.939	24.5979	36.267	207.2	0.00	0.015	1.3	1.8296	1.0085			8.365
126.6	125.8	16.308	26.9532	35.934	106.0	18.88	1.104	6.8	1.2731	0.6689			8.052
200.8	199.6	11.760	27.7725	35.286	109.7	24.79	1.585	11.5	0.7825	0.4279			7.949
301.4	299.5	9.461	28.3573	34.944	107.9	29.12	1.872	15.1	0.4383	0.2404			7.891
400.8	397.4	8.373	28.8843	34.819	103.1	32.25	2.058	18.1	0.2379	0.1407			7.852
700.7	695.7	6.183	30.4692	34.678	116.4	34.93	2.294	25.5	0.0403	0.0254			7.821
800.7	794.7	5.731	30.9854	34.675	119.9	35.08	2.331	27.1	0.0358	0.0205			7.815
1000.0	992.0	4.990	32.0365	34.729	145.3	32.37	2.182	28.2	0.0075	0.0049			7.855
1199.9	1189.7	4.884	33.0743	34.884	180.0	27.24	1.819	23.9	0.0447	0.0274			7.921
1400.8	1388.2	4.678	34.0866	34.986	215.7	22.59	1.478	18.8	0.1394	0.0801			7.975
1499.8	1486.0	4.395	34.5812	34.995	229.9	21.51	1.396	17.6	0.1226	0.0743			7.990
1600.2	1585.1	4.210	35.0617	35.001	240.2	20.47	1.326	16.7	0.1449	0.0860			8.002
1701.4	1685.0	3.962	35.5485	34.996	248.2	19.85	1.290	16.5	0.1319	0.0772			8.006
1800.3	1782.5	3.780	36.0145	34.993	251.5	19.70	1.275	17.0	0.1003	0.0616			8.013
1999.6	1978.9	3.493	36.9380	34.981	255.4	19.55	1.274	18.5	0.0609	0.0342			8.017
2200.3	2176.5	3.214	37.8660	34.972	258.5	19.40	1.252	20.2	0.0592	0.0381			8.018
2201.0	2177.2	3.216	37.8697	34.966	258.3	19.40	1.255	20.2	0.0589	0.0332			8.019
2399.1	2372.0	3.002	38.7730	34.961	260.5	19.25	1.245	21.5	0.0692	0.0401			8.017
2599.4	2568.9	2.829	39.6797	34.952	262.4	19.41	1.258	23.6	0.0634	0.0371			8.016
2798.9	2764.8	2.675	40.5757	34.942	257.6	19.99	1.293	27.4	0.0423	0.0205			8.014
3000.1	2962.1	2.517	41.4761	34.931	256.1	20.39	1.326	30.7	0.0332	0.0205			8.014
3199.8	3157.8	2.390	42.3640	34.927	256.6	20.43	1.341	32.3	0.0369	0.0215			8.015
3398.5	3352.4	2.272	43.2455	34.919	256.5	19.81	1.296	30.9	0.0842	0.0479			8.014
3598.3	3547.9	2.132	44.1290	34.909	261.7	19.89	1.294	32.4	0.0782	0.0469			8.015
3800.6	3745.6	2.028	45.0183	34.906	264.6	19.59	1.283	31.8	0.1129	0.0645			8.015
3999.8	3940.2	1.952	45.8847	34.901	264.5	19.67	1.288	32.8	0.1190	0.0684			8.012
4197.3	4132.9	1.903	46.7374	34.894	263.6	19.87	1.298	34.5	0.1103	0.0655			8.010
4398.5	4329.0	1.845	47.6022	34.891	262.0	20.30	1.332	37.0	0.1175	0.0713			8.002
4597.6	4522.9	1.754	48.4581	34.880	257.2	21.00	1.392	43.2	0.0843	0.0547			7.993
4699.7	4622.3	1.619	48.9045	34.861	251.6	22.36	1.484	52.8	0.0453	0.0352			7.980
4742.5	4664.0	1.432	49.1048	34.837	244.6	23.96	1.614	65.2	0.0279	0.0205			



Station : 223 Campagne : CITHER 2  
 Date : 18-03-94 Heure : 8 h 58 mn  
 Position : N 8 44.43 W 49 50.09  
 Dernier niveau à : 4644  
 Nb prélèvements : 32

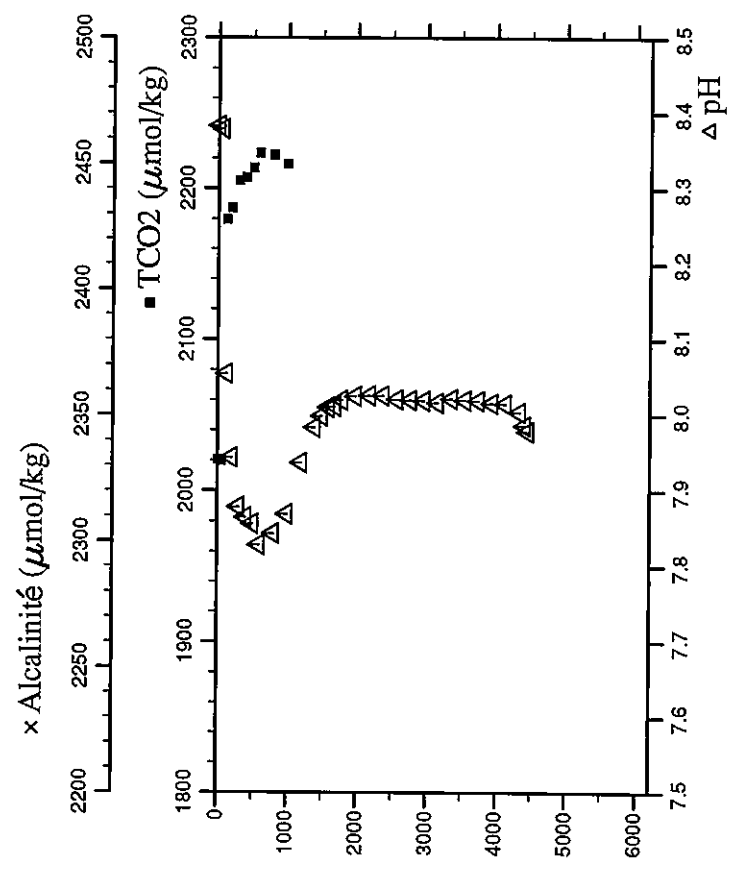
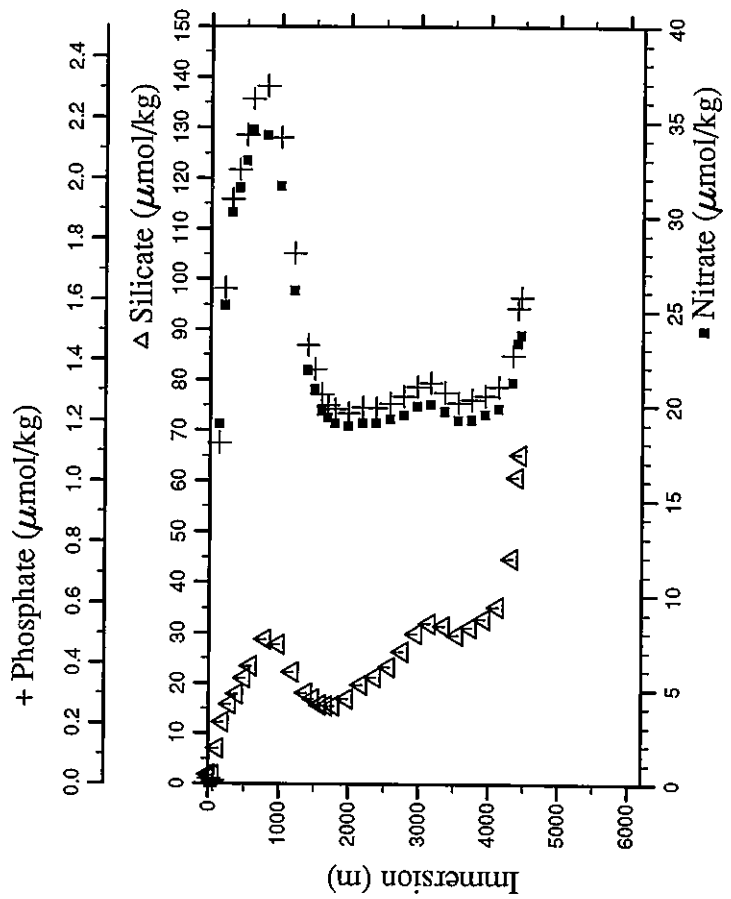
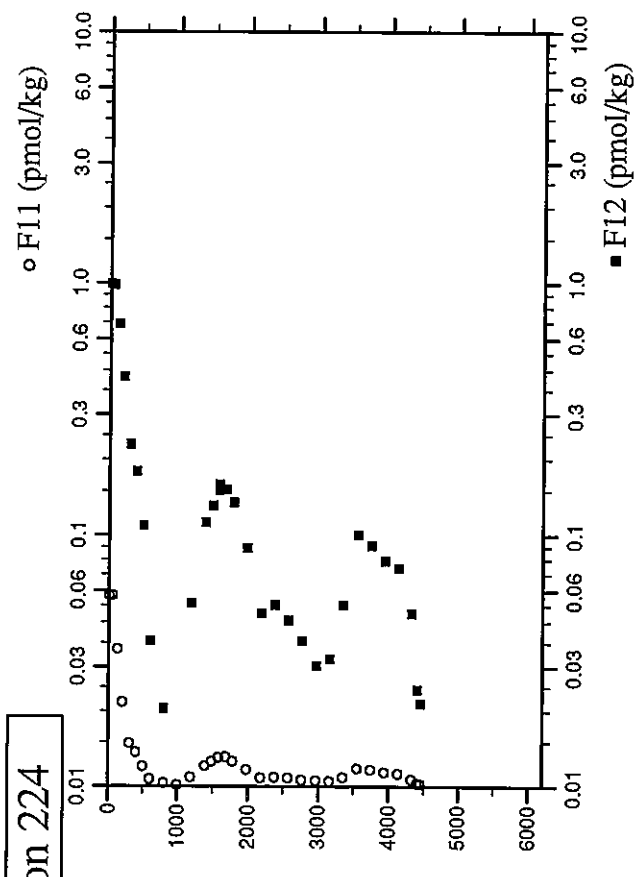
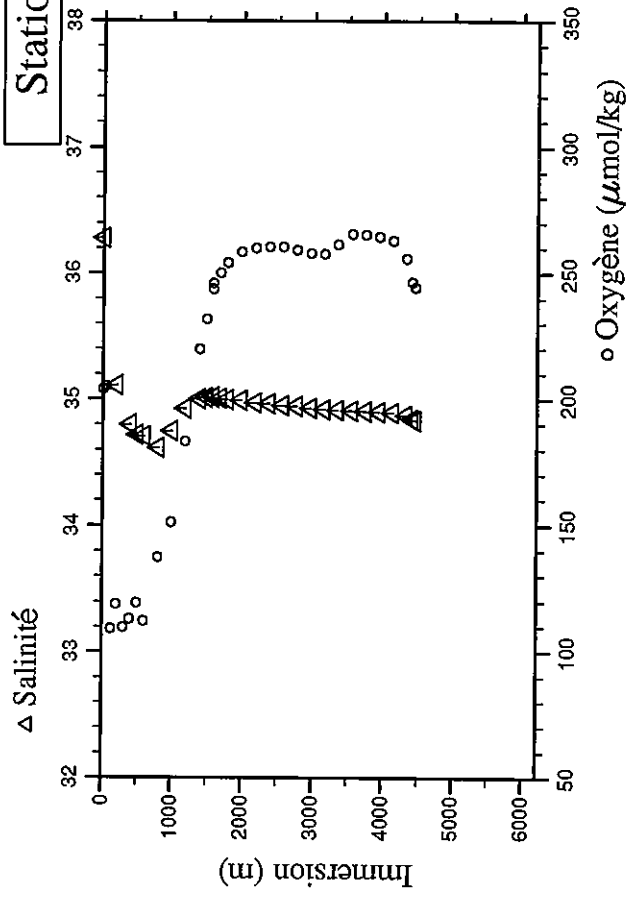
PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.1	5.1	25.794	24.0852	36.282	204.7	0.04	0.018	1.4	1.8052	0.9958	2022.29	2383.0	8.376
51.9	51.6	24.756	24.5589	36.230	209.2	0.04	0.025	0.9	1.8357	1.0124	2027.28	2378.4	8.366
124.2	124.2	15.027	27.0928	35.719	105.6	21.09	1.262	8.1	1.1528	0.6133	2183.50	2350.4	8.014
199.9	198.7	10.737	27.8124	35.118	107.5	26.99	1.692	12.7	0.6705	0.3635	2195.53	2322.3	7.920
301.3	299.4	9.397	28.3616	34.933	110.4	29.47	1.864	15.3	0.4640	0.2570	2203.88	2315.9	7.886
400.9	398.3	8.473	28.8773	34.826	107.8	31.83	2.013	17.7	0.2942	0.1652	2211.93	2311.2	7.861
500.4	497.0	7.753	29.4081	34.778	104.4	33.86	2.135	20.1	0.1596	0.0948	2219.48	2313.1	7.830
599.5	595.3	7.021	29.9372	34.740	107.0	35.22	2.239	22.7	0.1047	0.0713	2225.13	2312.1	7.815
799.1	793.1	5.550	30.9741	34.634	130.3	34.92	2.297	28.1	0.0297	0.0186	2222.51	2312.4	7.827
999.4	991.4	4.999	32.0255	34.725	144.6	33.04	2.176	28.8	0.0065	0.0039	2217.73	2318.9	7.851
1199.9	1189.7	4.875	33.0721	34.881	176.9	27.89	1.849	24.3	0.0320	0.0176	2201.34	2325.1	7.914
1399.7	1387.2	4.667	34.0792	34.981	214.8	22.79	1.494	19.2	0.1380	0.0792	2180.33	2324.6	7.972
1499.4	1485.6	4.507	34.5730	35.009	233.0	20.85	1.348	16.8	0.2427	0.1329	2170.86	2326.5	7.994
1599.0	1583.9	4.277	35.0567	35.013	245.1	19.76	1.267	15.5	0.3227	0.1769	2165.22	2326.5	8.006
1700.1	1683.7	4.070	35.5346	35.007	250.5	19.45	1.244	15.2	0.2791	0.1563	2165.22	2325.4	8.010
1700.3	1683.9	4.069	35.5354	35.007	250.9	19.41	1.244	15.3	0.2703	0.1505	2160.93	2328.7	8.009
1798.6	1780.8	3.810	36.0040	34.992	254.2	19.40	1.243	16.5	0.1530	0.0879	2161.13	2325.9	8.014
1999.0	1978.3	3.448	36.9442	34.983	259.7	19.29	1.239	18.4	0.0894	0.0547	2161.90	2327.0	8.016
2199.7	2175.9	3.158	37.8700	34.969	259.5	19.36	1.249	20.6	0.0649	0.0401	2162.00	2329.5	8.019
2399.3	2372.3	2.941	38.7824	34.958	261.9	19.13	1.228	21.6	0.1064	0.0596	2162.68	2328.0	8.019
2598.7	2568.2	2.767	39.6828	34.948	258.7	19.79	1.284	25.7	0.0453	0.0283	2167.84	2333.1	8.020
2798.3	2764.2	2.597	40.5820	34.938	258.6	19.90	1.294	27.8	0.0427	0.0274	2173.37	2337.1	8.015
2998.7	2960.8	2.461	41.4772	34.931	260.4	20.13	1.293	29.4	0.0643	0.0381	2172.16	2338.2	8.016
3197.6	3155.7	2.318	42.3639	34.922	257.0	20.64	1.332	33.3	0.0539	0.0293	2180.02	2341.0	8.011
3397.7	3351.7	2.205	43.2491	34.914	260.5	20.29	1.306	32.5	0.0774	0.0440	2176.58	2339.6	8.014
3597.6	3547.2	2.072	44.1355	34.906	264.8	19.70	1.272	30.6	0.0772	0.0440	2176.58	2337.3	8.014
3798.6	3743.7	1.977	45.0164	34.902	265.7	19.51	1.269	31.7	0.1339	0.0880	2171.94	2337.8	8.013
3998.7	3939.1	1.916	45.8856	34.899	264.4	19.74	1.284	33.5	0.1277	0.0870	2175.69	2337.0	8.010
4198.6	4134.2	1.875	46.7465	34.893	263.7	20.09	1.284	35.5	0.1378	0.0752	2178.04	2342.1	8.008
4398.0	4328.6	1.784	47.6058	34.881	258.8	21.13	1.383	41.6	0.0668	0.0479	2186.33	2344.7	8.004
4598.6	4524.0	1.613	48.4760	34.860	251.8	22.37	1.490	52.0	0.0432	0.0323	2199.21	2351.2	7.990
4643.6	4567.8	1.571	48.6710	34.855	250.4	22.76	1.503	55.2	0.0384	0.0293	2202.45	2358.9	7.989





Station : 224 Campagne : CITHER 2  
 Date : 18-03-94 Heure : 14 h 35 mn  
 Position : N 8 18.50 W 50 5.06  
 Dernier niveau à : 4527  
 Nb prélèvements : 32

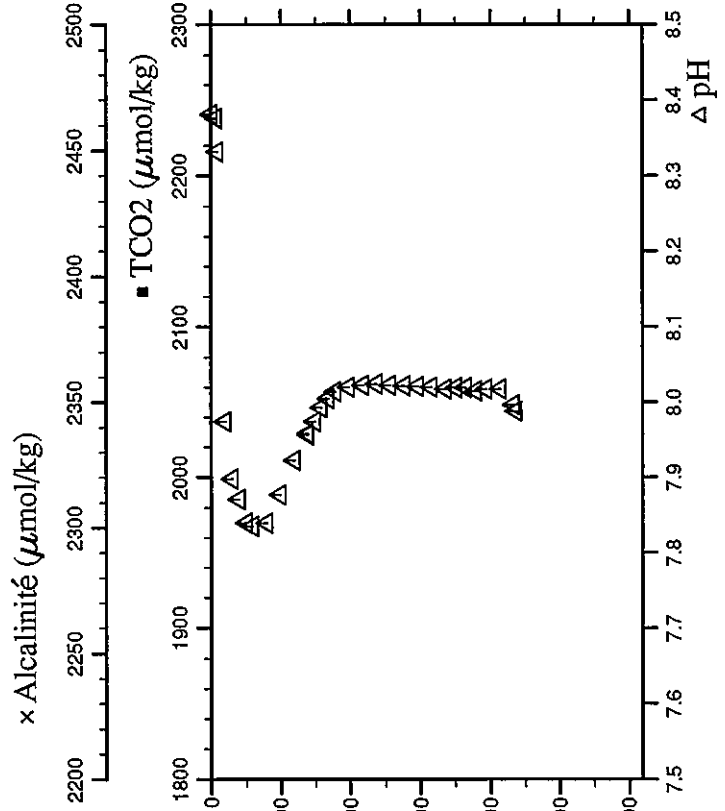
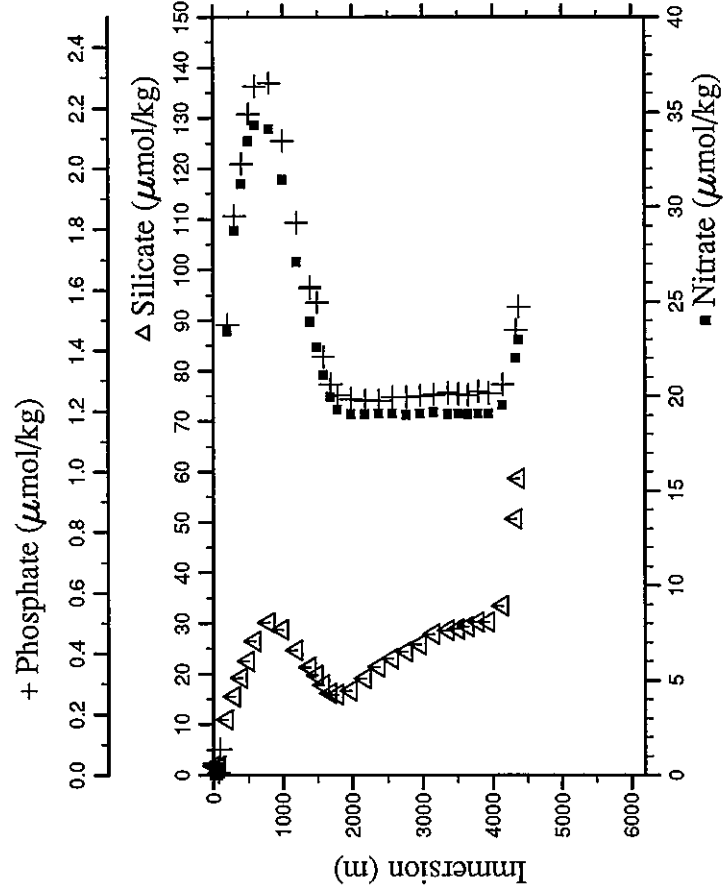
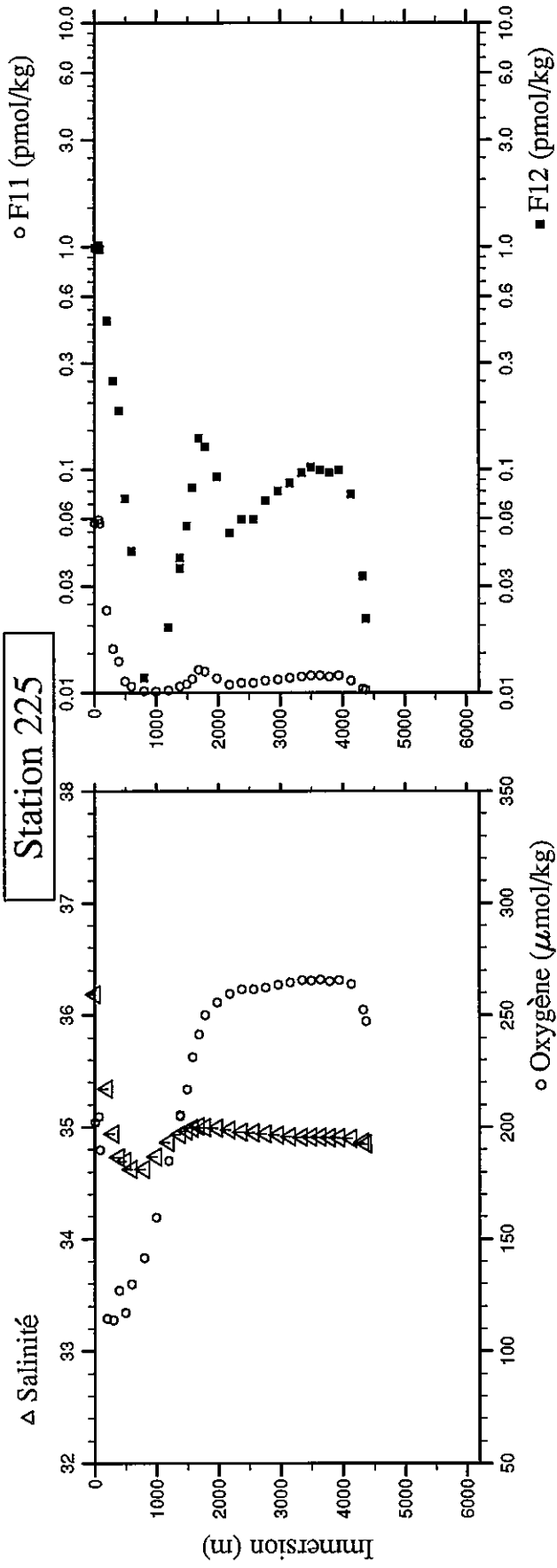
PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT. NITE	ALCALI- um/kg	pH
dbar	metres	deg. cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.0	7.0	26.285	23.9339	36.276	203.7	0.04	0.018	1.8	1.7711	0.9912	2020.46		8.383
55.8	55.5	25.983	24.2340	36.277	205.0	0.04	0.012	1.7	1.7740	0.9824	2019.72		8.379
125.7	125.0	16.091	26.9485	35.860	109.3	19.00	1.125	7.1	1.2793	0.6858	2179.28		8.055
200.7	199.5	10.836	27.7875	35.111	119.0	25.29	1.637	12.3	0.7860	0.4252	2187.20		7.944
301.3	299.4	9.144	28.3697	34.917	109.8	30.21	1.932	15.8	0.4009	0.2387	2205.26		7.879
400.7	398.1	8.287	28.8854	34.800	113.1	31.49	2.028	17.9	0.3168	0.1789	2207.56		7.865
501.1	497.7	7.261	29.4374	34.717	119.4	32.92	2.143	21.0	0.1877	0.1095	2213.77		7.857
601.0	596.8	6.669	29.9720	34.705	112.3	34.55	2.261	23.5	0.0679	0.0381	2223.57		7.829
800.8	794.8	5.225	31.0131	34.618	137.5	34.27	2.304	28.8	0.0310	0.0205	2222.22		7.844
1000.8	992.8	5.020	32.0464	34.746	151.3	31.61	2.135	27.8	0.0133	0.0098	2216.08		7.869
1199.8	1189.6	5.086	33.0744	34.924	183.2	26.07	1.752	22.3	0.0845	0.0538			7.937
1400.3	1387.8	4.723	34.0891	35.002	219.8	21.86	1.451	18.1	0.1932	0.1124			7.984
1499.6	1485.9	4.525	34.5709	35.010	231.8	20.85	1.369	16.9	0.2355	0.1310			7.999
1600.2	1585.2	4.254	35.0629	35.015	243.8	19.71	1.287	15.8	0.2673	0.1505			8.011
1600.4	1585.3	4.262	35.0633	35.011	246.1	19.73	1.287	15.7	0.2682	0.1584			8.010
1700.4	1684.0	4.078	35.5344	35.006	250.1	19.36	1.251	15.5	0.2722	0.1515			8.012
1799.0	1781.2	3.905	35.9970	34.998	254.1	19.06	1.239	15.6	0.2354	0.1349			8.020
1999.3	1978.6	3.586	36.9301	34.992	258.4	18.91	1.226	16.9	0.1535	0.0890			8.025
2200.4	2176.6	3.223	37.8660	34.974	260.1	19.07	1.244	19.8	0.0799	0.0489			8.026
2400.0	2373.0	3.005	38.7765	34.964	260.6	19.07	1.242	21.3	0.0867	0.0528			8.026
2599.7	2509.2	2.821	39.6813	34.953	260.6	19.28	1.258	23.3	0.0792	0.0459			8.021
2799.2	2765.1	2.639	40.5807	34.944	259.3	19.48	1.281	26.3	0.0640	0.0381			8.020
2999.6	2961.7	2.468	41.4805	34.933	257.9	19.95	1.313	29.9	0.0526	0.0303			8.017
3198.5	3156.6	2.332	42.3667	34.923	257.8	20.08	1.326	31.9	0.0484	0.0323			8.022
3398.7	3352.7	2.197	43.2545	34.915	261.6	19.69	1.294	31.4	0.0869	0.0528			8.020
3600.4	3550.0	2.074	44.1466	34.912	265.7	19.23	1.259	29.7	0.1684	0.1007			8.019
3798.0	3743.2	2.001	45.0105	34.906	265.3	19.27	1.270	31.2	0.1590	0.0909			8.016
3997.1	3937.6	1.931	45.8763	34.901	264.6	19.52	1.282	32.8	0.1324	0.0792			8.015
4198.4	4134.0	1.869	46.7461	34.893	263.1	19.84	1.312	35.3	0.1210	0.0743			8.004
4399.4	4330.0	1.719	47.6182	34.877	256.0	21.21	1.416	44.8	0.0649	0.0489			7.986
4480.1	4408.6	1.457	47.9897	34.846	246.5	23.30	1.572	60.8	0.0306	0.0244			7.979
4526.2	4453.5	1.418	48.1882	34.835	244.6	23.74	1.608	65.3	0.0244	0.0215			



Station : 225 Campagne : CIPHER 2  
 Date : 18-03-94 Heure : 20 h 24 mn  
 Position : N 7 52.37 W 50 20.13  
 Dernier niveau à : 4444  
 Nb prélèvements : 32

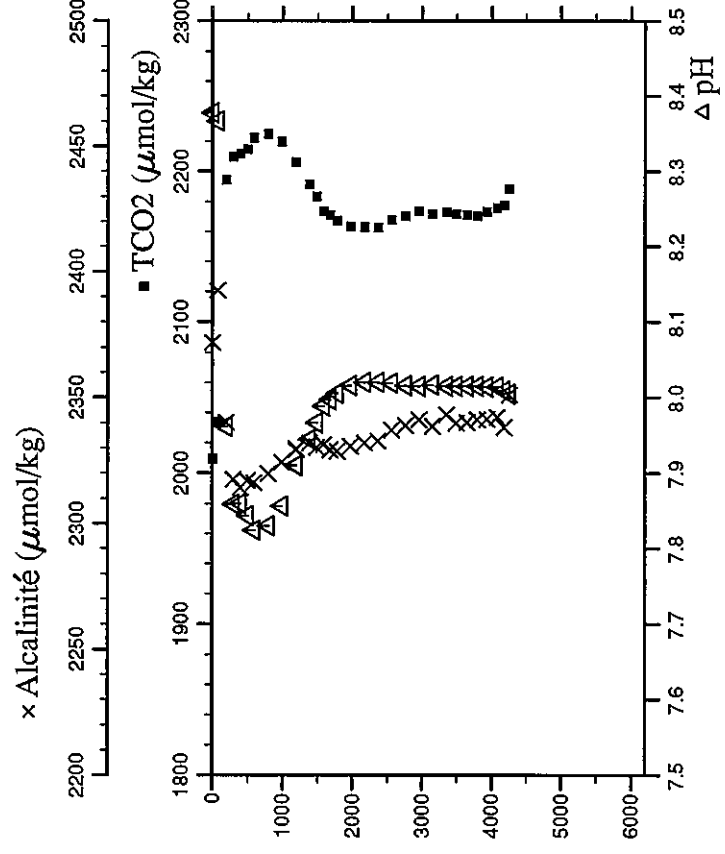
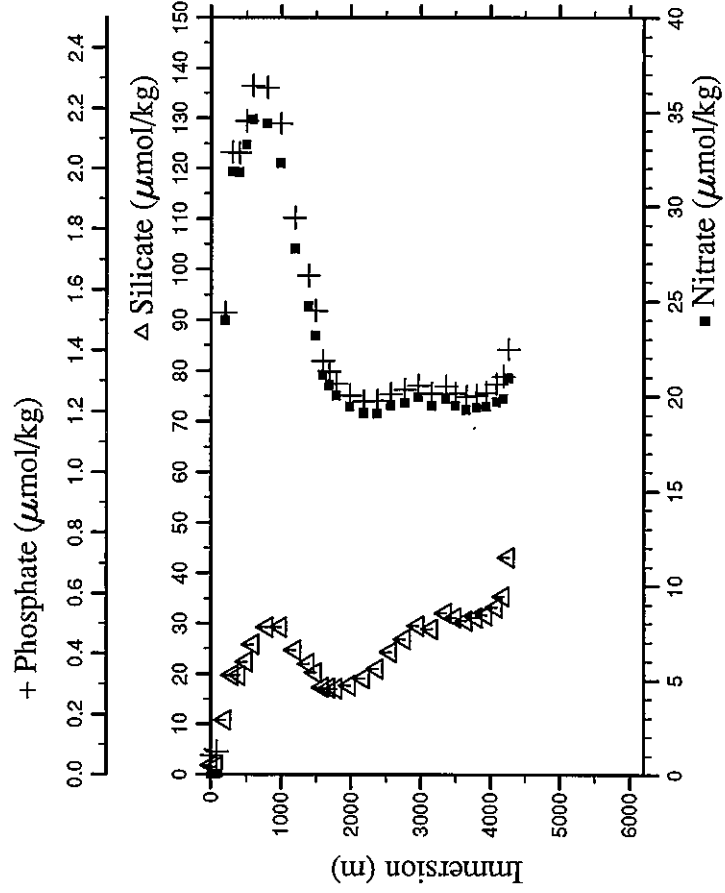
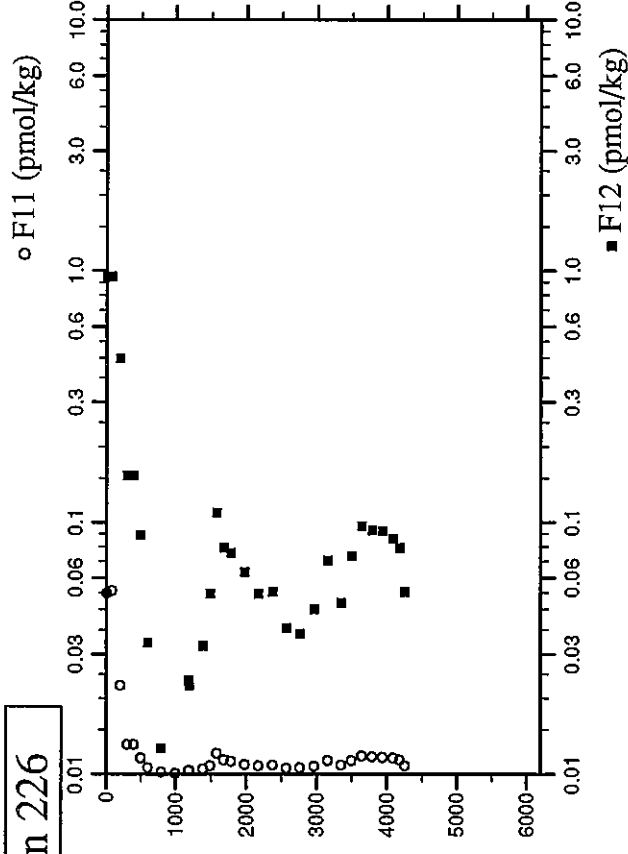
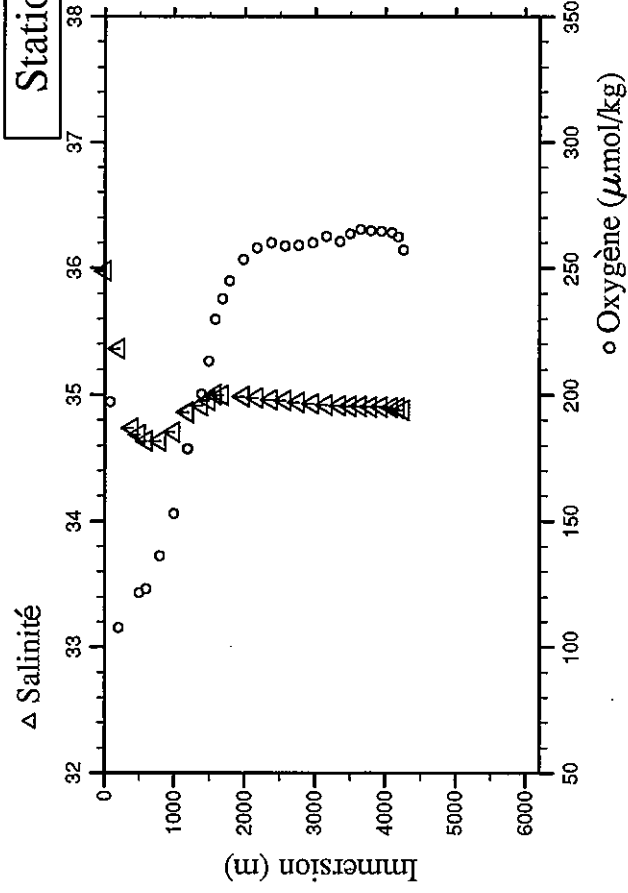
PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg. cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.9	7.9	26.520	23.7964	36.185	202.1	0.00	0.038	1.8	1.7690	0.9874			8.381
70.1	69.7	25.766	24.3998	36.326	204.6	0.00	0.009	1.5	1.8054	1.0146			8.376
90.8	90.3	24.341	25.0137	36.467	189.8	0.42	0.086	1.8	1.7692	0.9735			8.332
202.2	201.0	11.915	27.7776	35.345	114.6	23.43	1.486	11.0	0.8605	0.4652			7.974
300.8	298.9	9.319	28.3764	34.940	113.8	28.73	1.845	15.6	0.4607	0.2493			7.898
400.9	398.3	7.666	28.9320	34.732	126.9	31.19	2.016	19.2	0.3305	0.1838			7.871
500.3	496.9	6.937	29.4688	34.697	117.1	33.47	2.180	22.6	0.1218	0.0743			7.840
600.7	596.5	5.857	30.0222	34.624	129.8	34.30	2.272	26.5	0.0686	0.0430			7.835
801.4	795.4	5.003	31.0564	34.628	141.5	34.11	2.283	30.2	0.0187	0.0117			7.840
1000.0	992.0	4.739	32.0784	34.739	159.6	31.43	2.091	28.8	0.0112	0.0098			7.877
1200.8	1190.6	4.594	33.1035	34.865	185.0	27.10	1.822	24.7	0.0272	0.0196			7.923
1394.6	1382.2	4.558	34.0392	34.936	204.9	23.94	1.607	21.4	0.0644	0.0362			7.958
1394.8	1382.4	4.558	34.0401	34.937	205.3	23.97	1.610	21.3	0.0647	0.0401			7.957
1500.6	1486.9	4.472	34.5493	34.965	216.7	22.56	1.561	19.7	0.0915	0.0557			7.974
1598.5	1583.5	4.337	35.0276	34.990	231.3	21.13	1.380	17.8	0.1420	0.0831			7.993
1701.1	1684.7	4.268	35.5100	35.008	241.5	19.97	1.289	16.2	0.2409	0.1378			8.005
1798.5	1780.8	4.003	35.9813	34.998	250.0	19.28	1.252	15.9	0.2226	0.1261			8.014
1999.8	1979.2	3.697	36.9160	34.993	255.8	19.06	1.241	16.7	0.0827	0.0518			8.023
2199.9	2176.2	3.318	37.8545	34.979	259.4	19.06	1.236	19.1	0.1048	0.0596			8.024
2397.7	2370.7	2.981	38.7693	34.958	261.4	19.10	1.237	21.4	0.1048	0.0518			8.023
2597.7	2567.3	2.796	39.6763	34.950	261.4	19.07	1.247	23.1	0.1241	0.0723			8.022
2797.6	2763.6	2.629	40.5766	34.940	262.4	19.03	1.246	24.5	0.1401	0.0802			8.021
2999.1	2961.2	2.471	41.4792	34.932	263.6	19.07	1.251	25.9	0.1568	0.0870			8.020
3198.2	3156.4	2.264	42.3740	34.918	264.7	19.16	1.255	27.9	0.1698	0.0968			8.018
3398.3	3352.3	2.167	43.2584	34.912	265.5	19.04	1.261	28.6	0.1824	0.1026			8.019
3549.2	3500.0	2.118	43.9207	34.911	265.3	19.09	1.257	28.9	0.1795	0.0997			8.019
3696.5	3644.0	2.080	44.5621	34.908	265.8	19.05	1.254	29.4	0.1824	0.0968			8.015
3847.9	3792.0	2.050	45.2198	34.903	265.1	19.09	1.265	30.3	0.1707	0.0997			8.015
3999.4	3939.9	2.020	45.8747	34.903	265.5	19.10	1.259	30.3	0.1771	0.0997			8.018
4199.9	4135.5	1.917	46.7476	34.899	263.9	19.53	1.289	33.5	0.1278	0.0772			8.018
4399.1	4329.7	1.641	47.6246	34.865	252.4	21.99	1.469	50.6	0.0455	0.0332			7.996
4441.5	4371.1	1.524	47.8170	34.851	247.3	22.99	1.545	58.7	0.0309	0.0215			7.988

Station 225



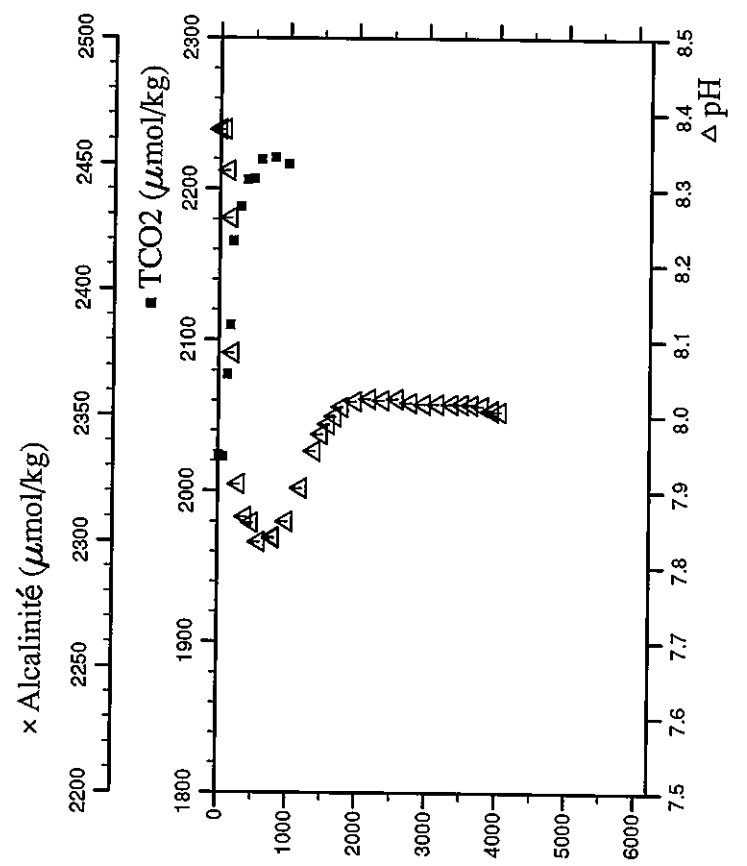
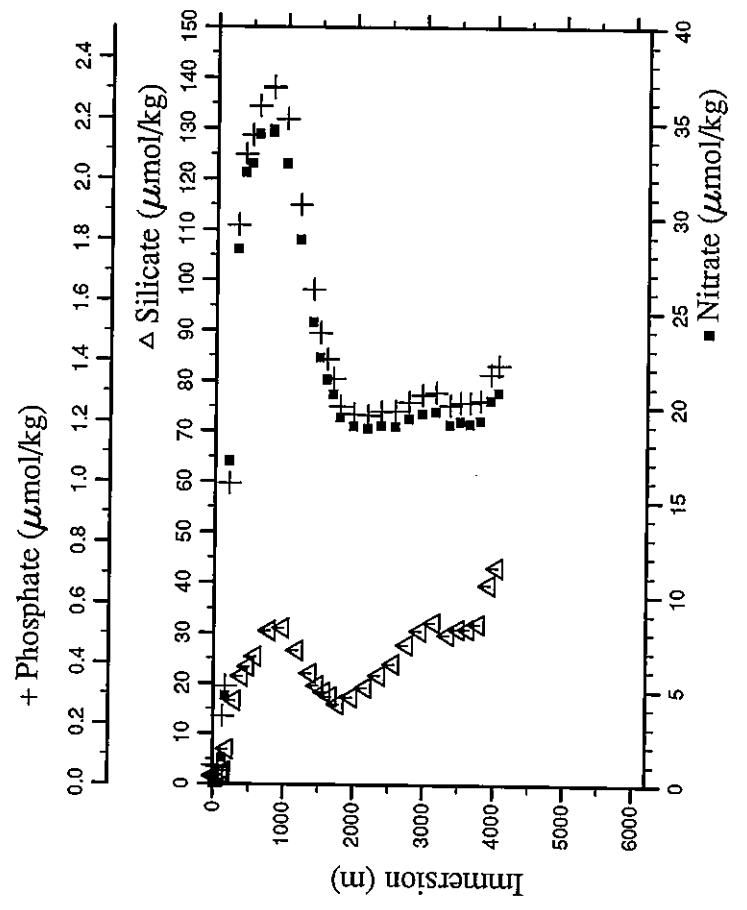
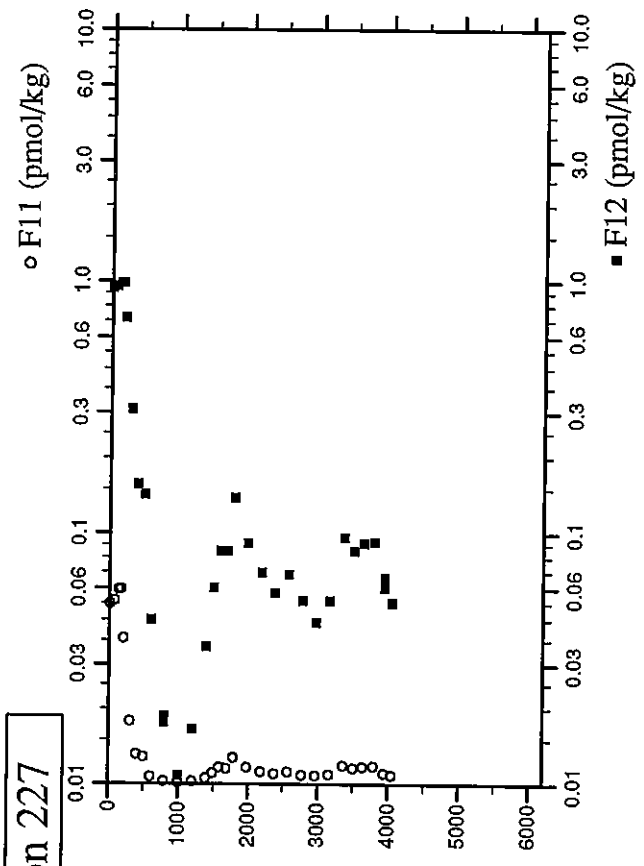
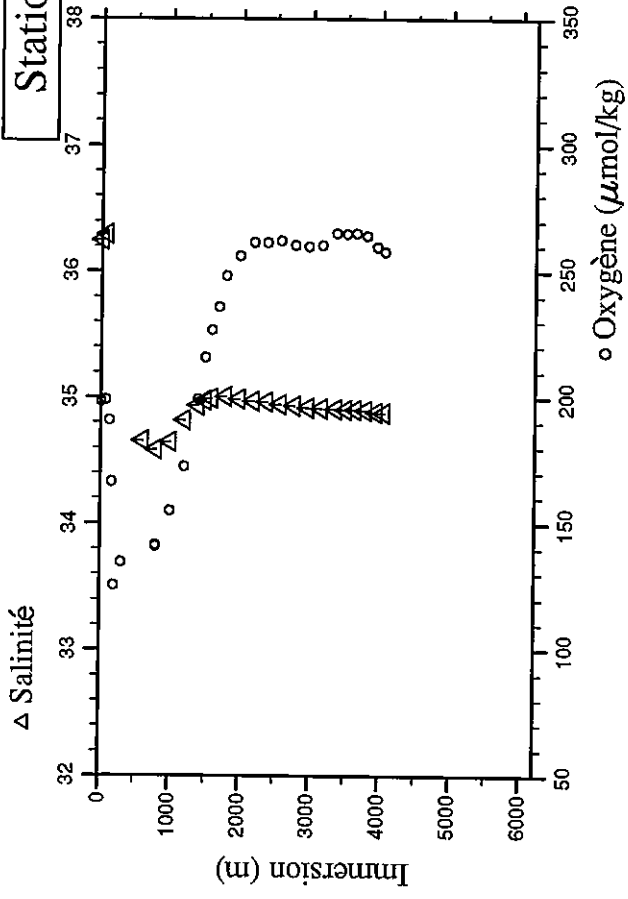
Station : 226 Campagne : CITHR 2  
 Date : 19-03-94 Heure : 2 h 40 mn  
 Position : N 7 26.62 W 50 34.88  
 Dernier niveau à : 4322  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION metres	TEMP. POT. SONDE	deg.cels.	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	um/kg	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT.	ALCALI- NITE	pH
dbar					um/kg	um/kg	um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.2	5.2	27.355		23.3625	35.977	198.5	r	0.04	0.065	1.8	1.6775	0.9408	2009.50	2371.9	8.378
80.1	79.6	26.874		24.1034	36.343	197.3	r	0.04	0.077	1.6	1.6995	0.9474	2034.03	2392.5	8.367
202.2	201.0	11.959		27.7768	35.365	107.7		24.00	1.524	10.8	0.8235	0.4476	2194.36	2340.1	7.962
300.8	298.9	9.512		28.3774	34.736	122.0	r	31.84	2.054	19.7	0.2729	0.1535	2209.56	2317.5	7.859
400.0	397.4	7.606		28.9412	34.736	122.0	r	31.81	2.051	19.7	0.2723	0.1535	2211.74	2314.0	7.860
501.3	497.9	6.834		29.4765	34.686	121.8		33.26	2.158	22.4	0.1512	0.0890	2214.73	2316.9	7.844
601.7	597.5	6.013		30.0147	34.636	123.1		34.62	2.274	25.9	0.0587	0.0332	2222.22	2316.0	7.824
798.5	792.5	5.210		31.0186	34.636	136.3		34.38	2.268	29.3	0.0190	0.0127	2224.60	2319.8	7.830
1000.1	992.1	4.777		32.0481	34.709	152.9		32.28	2.149	29.3	0.0076	0.0068	2219.66	2324.2	7.857
1200.4	1190.3	4.795		33.0741	34.864	178.6		27.77	1.838	24.7	0.0338	0.0235	2206.17	2329.2	7.911
1200.9	1190.8	4.794		33.0762	34.862	178.7		27.77	1.835	24.7	0.0367	0.0225	2329.5	2329.5	7.910
1400.4	1387.9	4.543		34.0531	34.918	200.3		24.76	1.647	22.1	0.0483	0.0323	2191.42	2331.8	7.945
1499.6	1485.9	4.481		34.5356	34.957	213.3		23.20	1.530	20.3	0.0812	0.0518	2183.29	2330.0	7.967
1601.2	1586.2	4.465		35.0292	35.002	229.8		21.12	1.366	17.4	0.1940	0.1095	2173.46	2331.1	7.989
1700.1	1683.8	4.188		35.5079	34.995	237.9		20.58	1.331	17.2	0.1353	0.0792	2170.82	2329.1	7.997
1800.6	1782.9	3.997		35.9848	34.985	245.1	r	20.04	1.292	17.1	0.1210	0.0753	2166.92	2328.7	8.006
1999.5	1978.9	3.659		36.9169	34.987	253.3		19.47	1.253	17.7	0.0915	0.0635	2163.17	2330.6	8.016
2199.4	2175.7	3.358		37.8457	34.979	258.0		19.12	1.234	19.1	0.0797	0.0518	2163.03	2331.9	8.020
2399.6	2372.6	3.069		38.7670	34.963	259.9		19.09	1.235	21.0	0.0851	0.0528	2162.47	2332.7	8.020
2597.4	2567.0	2.836		39.6693	34.954	258.7		19.52	1.257	24.3	0.0550	0.0381	2167.47	2337.0	8.019
2797.6	2763.6	2.628		40.5748	34.942	259.0		19.67	1.272	26.9	0.0611	0.0362	2169.98	2338.8	8.016
2999.1	2961.3	2.453		41.4802	34.932	260.1		19.95	1.285	29.5	0.0707	0.0450	2173.48	2341.1	8.015
3200.1	3158.3	2.308		42.3773	34.922	262.5		19.49	1.259	28.9	0.0823	0.0704	2171.55	2338.6	8.017
3398.4	3352.5	2.189		43.2547	34.916	260.6		19.88	1.283	32.1	0.0823	0.0479	2172.51	2343.0	8.015
3547.8	3498.7	2.102		43.9143	34.908	263.5		19.49	1.260	31.2	0.1264	0.0733	2171.39	2339.7	8.015
3699.5	3647.0	2.054		44.5785	34.908	265.3		19.30	1.248	30.5	0.1672	0.0968	2170.90	2340.1	8.015
3850.2	3794.2	2.024		45.2326	34.906	264.9		19.38	1.254	31.2	0.1621	0.0929	2169.95	2341.1	8.015
3998.7	3939.3	1.997		45.8744	34.904	264.7		19.46	1.262	31.7	0.1587	0.0919	2173.13	2341.2	8.014
4146.5	4083.5	1.946		46.5156	34.901	264.1		19.70	1.290	33.2	0.1498	0.0860	2175.61	2342.1	8.014
4249.2	4183.7	1.878		46.9621	34.893	262.4		19.86	1.315	35.4	0.1324	0.0792	2177.37	2338.0	8.009
4321.8	4254.5	1.749		47.2849	34.878	257.2		20.95	1.404	43.1	0.0772	0.0528	2188.29	2350.9	8.005



Station : 227 Campagne : CITHER 2  
 Date : 19-03-94 Heure : 8 h 37 mn  
 Position : N 7 0.60 W 50 50.40  
 Dernier niveau à : 4116  
 Nb prélèvements : 32

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
8.7	8.7	27.598	23.5015	36.249	198.1	0.04	0.062	1.6	1.6741	0.9367	2023.90		8.379
71.6	71.2	27.180	23.9343	36.292	198.9	0.04	0.056	1.6	1.7028	0.9542	2022.78		8.379
125.1	124.4	24.508	25.2990	36.670	r	1.40	0.225	2.0	1.8046	0.9793	2077.32		8.324
161.1	160.1	22.411	26.2378	36.695	r	4.69	0.325	2.6	1.8133	0.9802	2109.94		8.262
201.5	200.3	15.496	27.4594	35.971	r	17.08	0.994	6.9	1.3539	0.7151	2165.41		8.083
301.0	299.1	8.597	28.3867	34.792	r	28.31	1.849	16.6	0.5844	0.3090	2188.38		7.909
400.6	398.0	7.064	28.9613	34.662	r	32.35	2.082	21.4	0.2777	0.1565	2205.99		7.866
500.2	496.8	6.634	29.4614	34.609	r	32.80	2.146	23.3	0.2526	0.1418	2207.14		7.858
601.5	597.3	6.262	29.9948	34.656	r	34.36	2.240	25.4	0.0701	0.0450	2219.86		7.833
799.1	793.1	4.979	31.0108	34.586		34.61	2.304	30.6	0.0257	0.0186			7.838
799.6	793.6	4.987	31.0161	34.584		34.49	2.299	30.4	0.0259	0.0176	2220.71		7.840
999.4	991.4	4.620	32.0184	34.646		32.80	2.198	31.1	0.0155	0.0108	2216.68		7.860
1201.2	1191.1	4.698	33.0546	34.821		28.82	1.917	26.6	0.0240	0.0166			7.904
1401.3	1388.8	4.646	34.0546	34.936		24.44	1.636	22.0	0.0566	0.0352			7.953
1499.8	1486.1	4.553	34.5394	34.975		22.58	1.493	19.6	0.1018	0.0606			7.975
1599.7	1584.7	4.469	35.0146	34.992		21.42	1.405	18.3	0.1544	0.0851			7.989
1699.1	1682.8	4.264	35.4920	34.981	r	20.65	1.343	17.5	0.1430	0.0851			7.999
1798.0	1780.3	4.131	35.9618	35.006		19.41	1.250	16.0	0.2438	0.1378			8.012
1999.3	1978.7	3.697	36.9149	34.987		18.94	1.225	17.3	0.1576	0.0909			8.019
2199.8	2176.1	3.280	37.8579	34.973		18.83	1.221	19.3	0.1125	0.0694			8.023
2401.4	2374.4	2.965	38.7879	34.965		18.98	1.234	21.7	0.0995	0.0577			8.021
2600.3	2569.9	2.705	39.6970	34.946		18.94	1.236	23.9	0.1160	0.0684			8.018
2799.7	2765.7	2.521	40.5962	34.934		19.37	1.265	27.7	0.0879	0.0538			8.016
3001.0	2963.2	2.363	41.4991	34.923		19.64	1.290	30.5	0.0802	0.0440			8.016
3198.6	3156.8	2.205	42.3816	34.914		19.72	1.298	32.2	0.0932	0.0538			8.016
3401.3	3355.3	2.096	43.2801	34.909		19.06	1.255	29.8	0.1735	0.0958			8.016
3552.2	3503.0	2.044	43.9419	34.904		19.21	1.264	30.9	0.1500	0.0851			8.016
3697.6	3645.2	2.026	44.5736	34.904		19.10	1.264	30.9	0.1632	0.0909			8.015
3849.0	3793.1	1.981	45.2325	34.901		19.25	1.269	32.0	0.1709	0.0919			8.013
3997.7	3938.3	1.815	45.8903	34.885		20.34	1.356	39.7	0.1019	0.0665			8.008
3998.2	3938.8	1.815	45.8923	34.886		20.34	1.356	39.7	0.1015	0.0606			8.007
4111.6	4049.5	1.764	46.3840	34.881		20.76	1.386	43.1	0.0827	0.0528			8.006

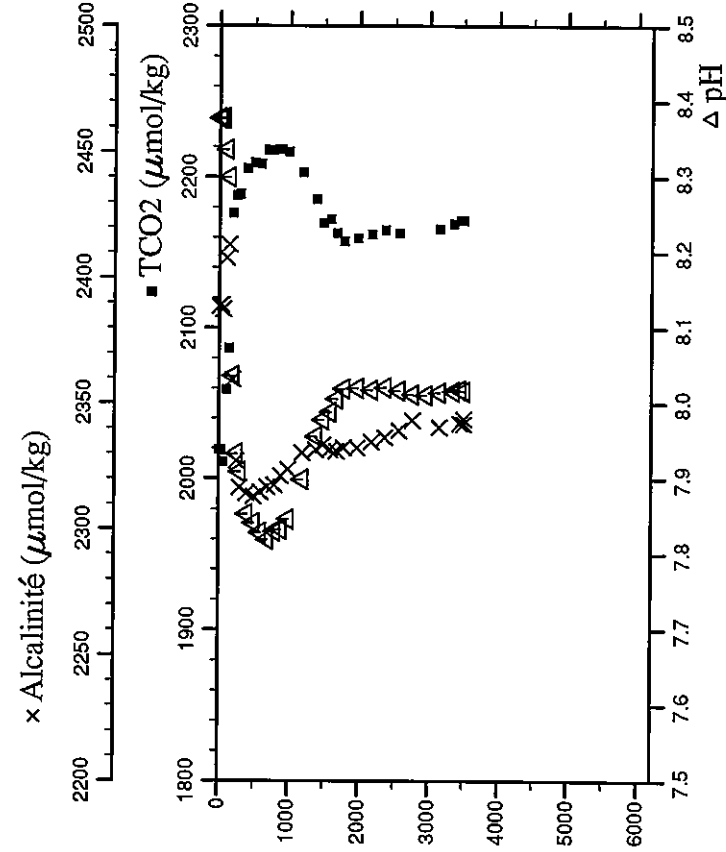
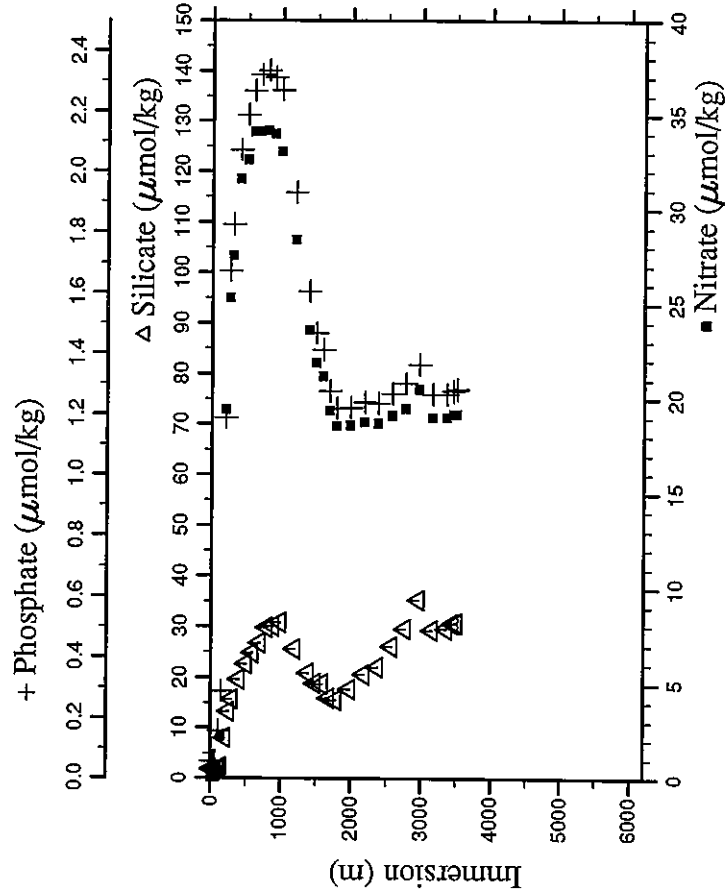
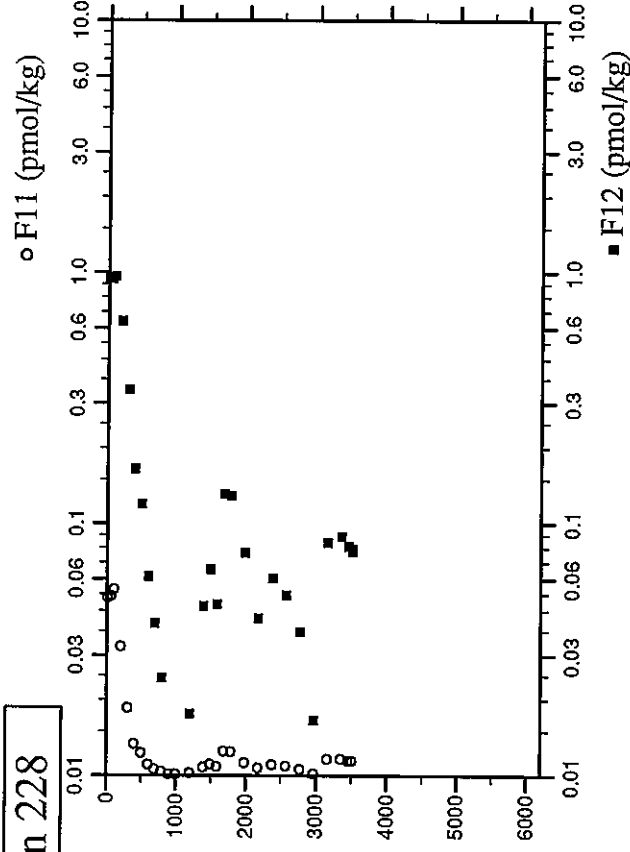
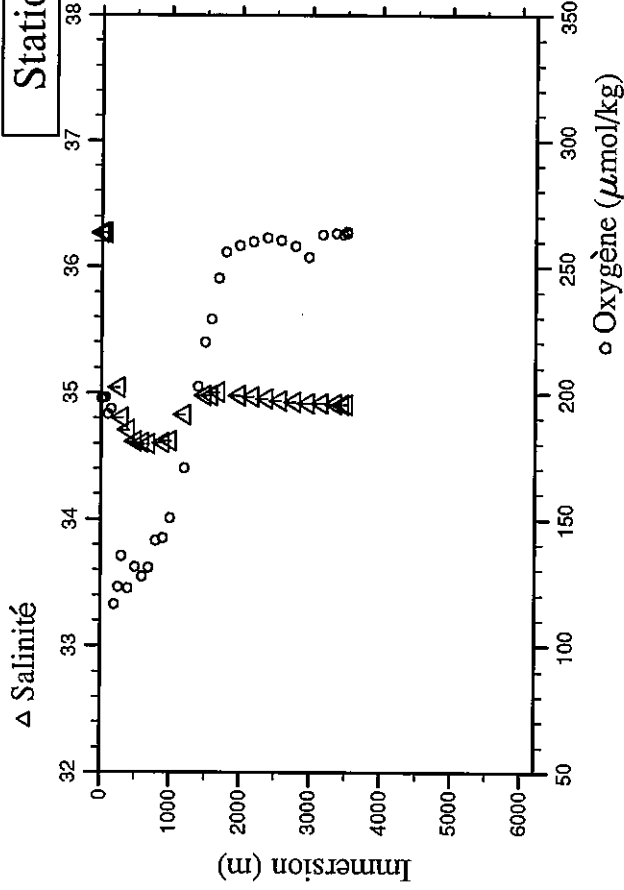




Station : 228 Campagne : CITHER 2  
 Date : 19-03-94 Heure : 14 h 31 mn  
 Position : N 6 34.58 W 51 5.35  
 Dernier niveau à : 3554  
 Nb prélèvements : 32

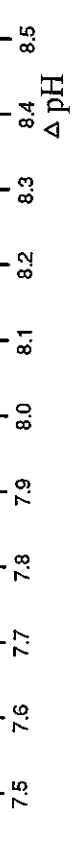
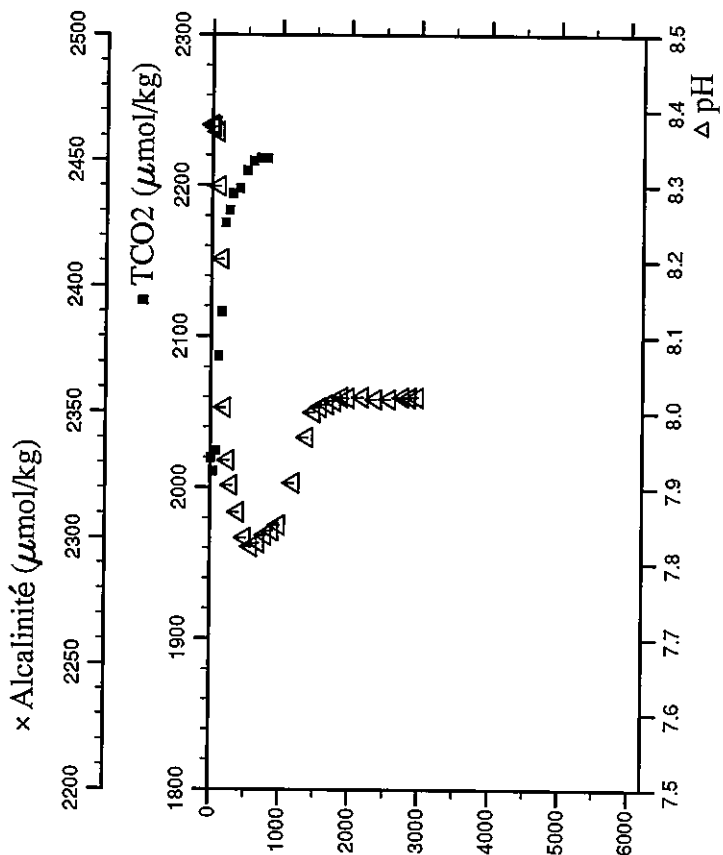
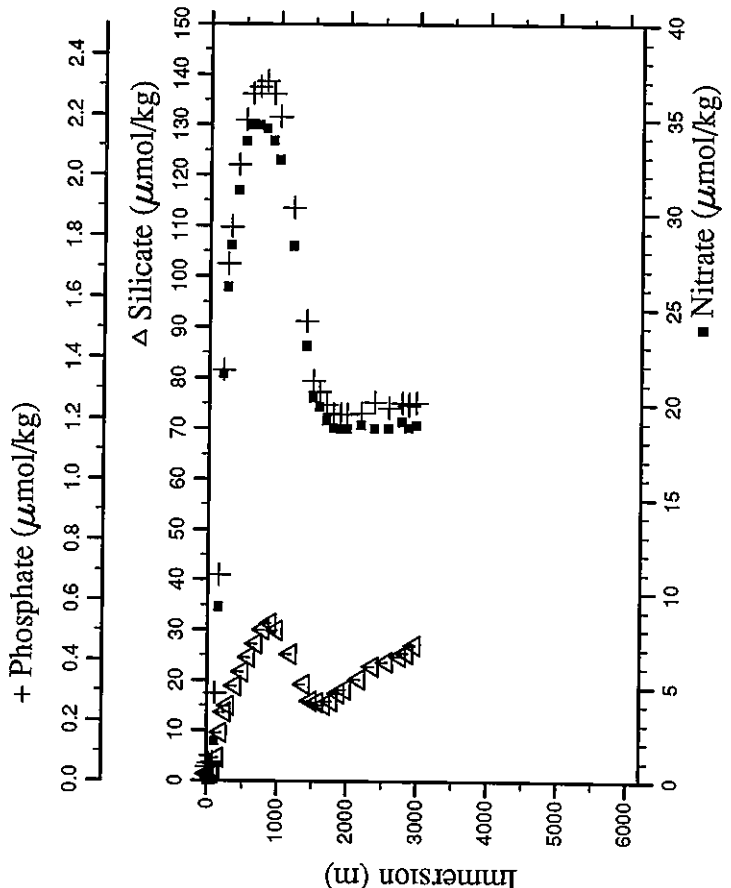
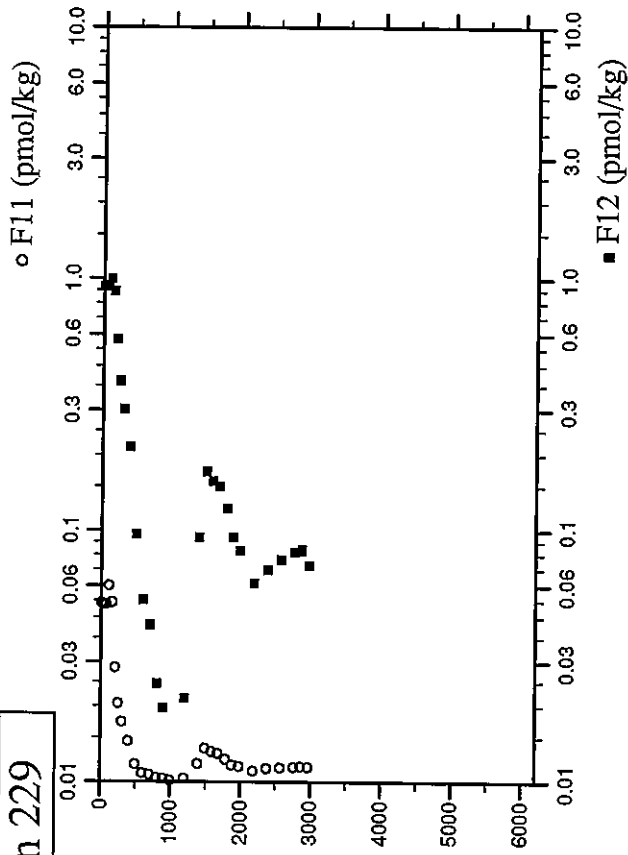
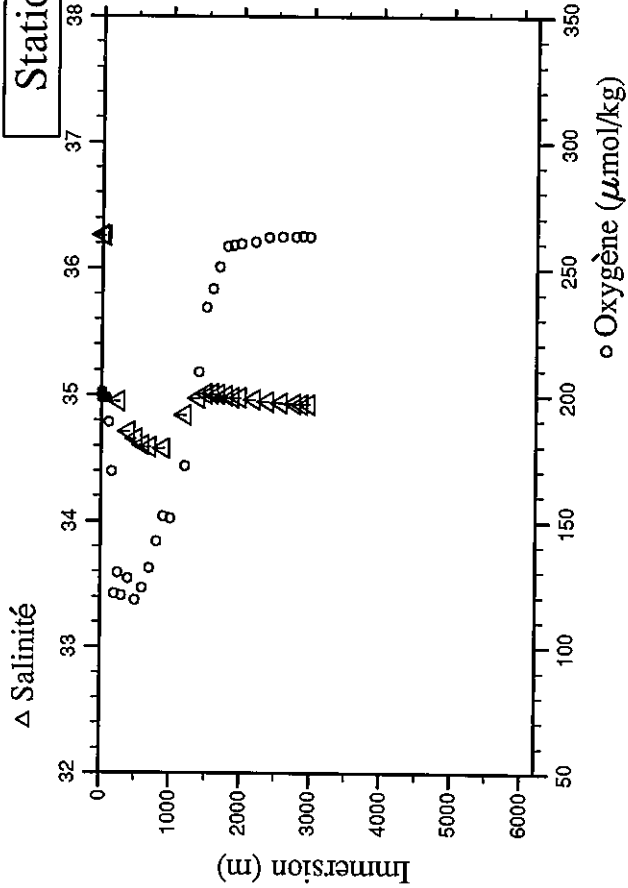
PRESSION CHIMIE	IMMERSTON	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
6.1	6.1	27.780	23.4465	36.268	197.6	0.04	0.059	1.8	1.6440	0.9396	2019.37	2388.7	8.378
31.7	31.5	27.712	23.5756	36.271	198.3	0.04	0.056	1.6			2018.91	2389.1	8.377
59.9	59.6	27.693	23.7006	36.269	198.1	0.04	0.056	1.6	1.6642	0.9425	2011.25	2387.4	8.378
102.8	102.2	25.401	24.8306	36.543	191.7	0.39	0.157	1.8	1.7226	0.9658	2059.17	2407.7	8.336
142.7	141.9	23.274	25.6601	36.601	193.6	2.21	0.288	2.2			2086.48	2413.1	8.300
200.1	198.9	14.606	27.5453	35.764	116.3	19.43	1.187	8.0	1.1971	0.6400	2176.01	2359.3	8.036
253.6	252.0	10.224	28.0819	35.043	123.2	25.31	1.673	13.3			2187.74	2326.8	7.933
300.7	298.8	8.795	28.3566	34.804	135.4	27.55	1.826	15.7	0.6242	0.3393	2188.68	2316.4	7.909
401.1	398.5	7.593	28.9266	34.708	122.7	31.60	2.070	19.6	0.2925	0.1643	2205.57	2314.2	7.853
501.9	498.5	6.625	29.4560	34.616	131.1	32.62	2.187	22.7	0.2101	0.1193	2209.29	2312.9	7.841
601.2	597.0	6.103	29.9703	34.606	127.3	34.09	2.268	24.9	0.1057	0.0616	2208.80	2314.7	7.829
696.9	691.9	5.711	30.4589	34.596	130.9	34.14	2.320	26.7	0.0628	0.0401	2217.93	2316.6	7.819
798.6	792.6	5.078	30.9892	34.568	141.5	34.16	2.336	29.8	0.0387	0.0244	2217.90	2317.5	7.830
899.0	892.1	4.906	31.4925	34.604	142.6	34.00	2.312	30.0	0.0157	0.0088	2218.57	2321.0	7.833
1000.0	992.0	4.619	32.0028	34.621	150.4	33.05	2.270	30.8	0.0122	0.0039	2216.84	2323.5	7.846
1201.0	1190.9	4.820	33.0500	34.830	170.3	28.40	1.932	25.6	0.0254	0.0176	2203.31	2330.0	7.899
1400.6	1388.1	4.700	34.0557	34.944	202.5	23.61	1.605	20.9	0.0780	0.0469	2185.22	2331.4	7.956
1500.3	1486.6	4.532	34.5517	34.983	220.0	21.91	1.467	18.8	0.1083	0.0655	2169.71	2333.2	7.978
1601.0	1586.0	4.276	35.0423	34.983	229.2	21.17	1.411	18.7	0.0835	0.0479	2172.30	2331.5	7.988
1700.9	1684.6	4.158	35.5238	35.005	245.6	19.39	1.276	16.0	0.2259	0.1310	2162.83	2330.8	8.006
1800.0	1782.3	3.821	36.0111	35.004	255.9	18.58	1.220	15.6	0.2195	0.1290	2157.45	2332.2	8.019
1999.3	1978.7	3.460	36.9448	34.984	258.5	18.62	1.221	17.7	0.1222	0.0763	2159.52	2332.1	8.020
2199.1	2175.4	3.096	37.8751	34.970	259.9	18.78	1.240	20.7	0.0713	0.0420	2162.12	2334.5	8.018
2399.3	2372.4	2.878	38.7901	34.956	261.4	18.70	1.236	22.1	0.1011	0.0606	2164.81	2336.2	8.021
2600.0	2569.6	2.596	39.7084	34.941	260.4	19.13	1.268	26.1	0.0882	0.0518	2162.87	2338.9	8.017
2799.7	2765.7	2.439	40.6058	34.931	258.3	19.48	1.301	29.6	0.0626	0.0372	2169.99	2343.2	8.012
3000.5	2962.7	2.319	41.4994	34.919	253.9	20.52	1.364	35.2	0.0218	0.0166	2175.59	2347.4	8.011
3199.3	3157.6	2.205	42.3853	34.919	262.9	19.02	1.266	29.3	0.1533	0.0841	2165.96	2340.4	8.014
3399.2	3353.3	2.189	43.2588	34.917	263.3	19.02	1.266	29.6	0.1555	0.0890	2169.41	2345.9	8.016
3498.5	3450.5	2.139	43.6964	34.912	262.7	19.18	1.277	30.5	0.1413	0.0810	2171.45	2341.8	8.018
3551.7	3502.5	2.139	43.9268	34.912	264.0	19.19	1.283	30.7	0.1384	0.0772	2171.45	2343.6	8.016
3551.9	3502.7	2.138	43.9285	34.912	263.3	19.19	1.280	30.6	0.1396	0.0792	2171.48	2341.6	8.016

Station 228



Station : 229 Campagne : CITHER 2  
 Date : 19-03-94 Heure : 18 h 54 mn  
 Position : N 6 19.23 W 51 14.21  
 Dernier niveau à : 3003  
 Nb prélèvements : 32

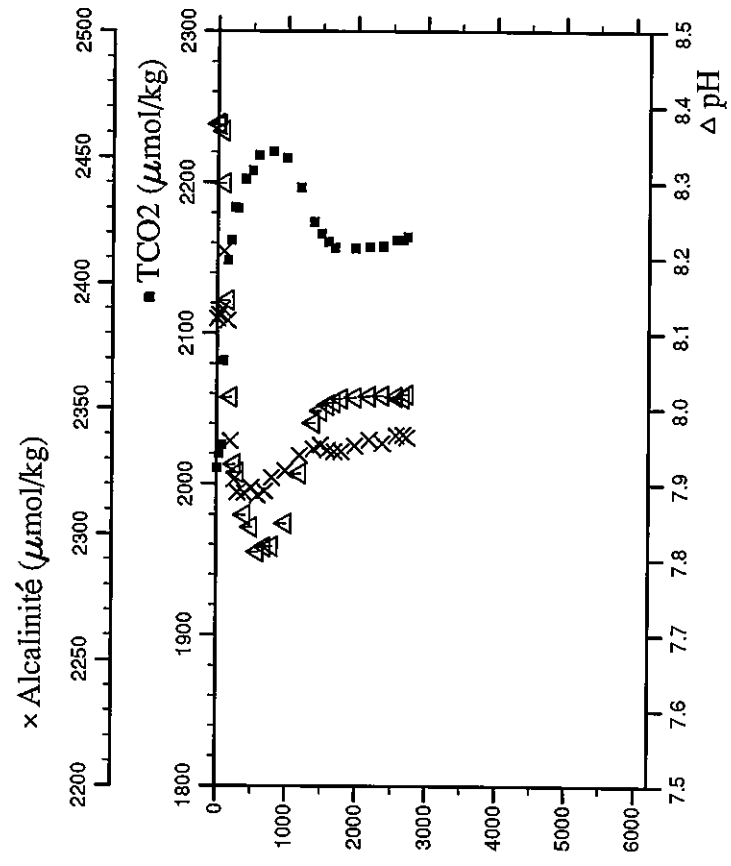
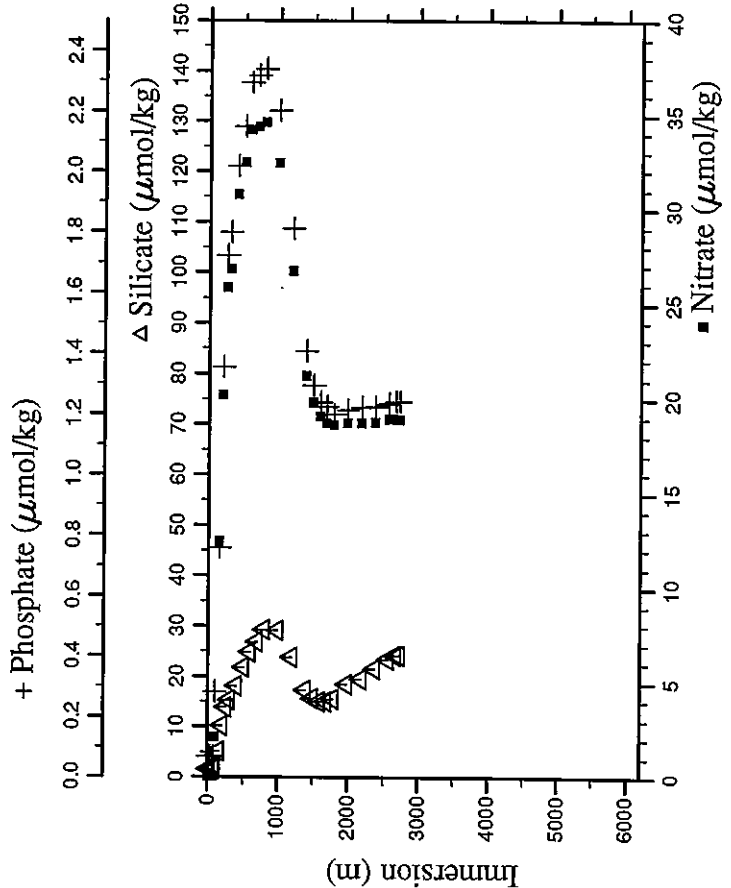
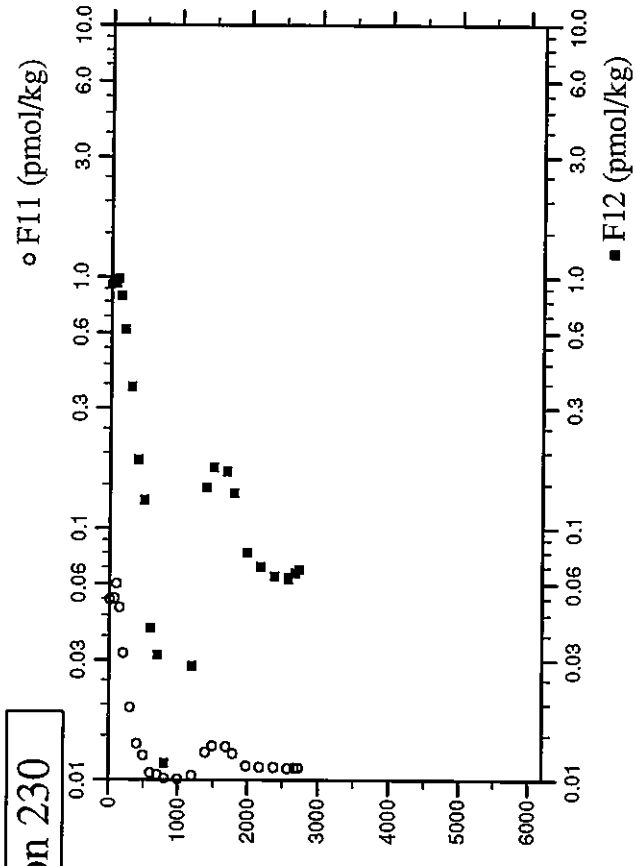
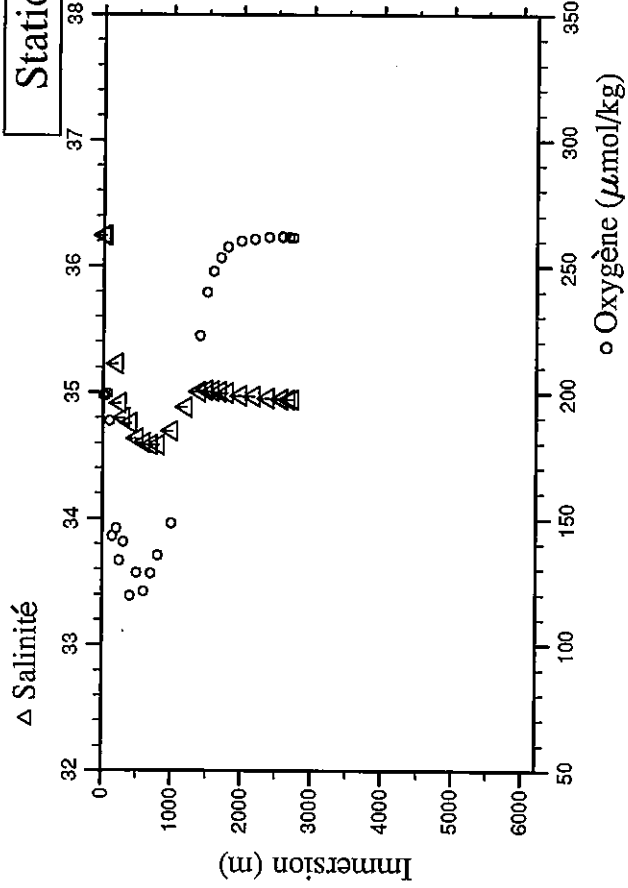
PRESSION CHIMIE	IMMERSTION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
6.7	6.7	27.807	23.4352	36.261	199.8	0.04	0.048	1.3	1.6559	0.9319	2019.67		8.380
6.7	6.7	27.809	23.4339	36.262	200.0	0.04	0.048	1.3					
6.8	6.8	27.810	23.4340	36.261	201.2	0.04	0.048	1.3					
31.6	31.4	27.705	23.5704	36.257	198.9	0.04	0.057	1.3	1.6523	0.9310	2010.88		8.378
76.2	75.8	27.411	23.8617	36.285	199.1	0.04	0.062	1.4	1.6438	0.9271	2024.25		8.371
110.1	109.5	23.529	25.4692	36.604	189.2	2.09	0.291	2.0	1.8155	0.9932	2086.85		8.299
151.0	150.1	18.699	26.5801	36.099	169.7	9.22	0.684	4.6	1.6650	0.8901	2116.37		8.202
199.7	198.5	13.048	27.6554	35.473	121.3	21.57	1.358	9.6	1.0601	0.5718	2175.31		8.006
251.8	250.2	9.774	28.0858	34.949	129.6	26.09	1.709	13.6	0.7283	0.3911	2183.81		7.936
300.4	298.5	9.351	28.3409	34.899	120.5	28.32	1.830	14.9	0.5561	0.3031	2194.74		7.903
400.1	397.5	7.777	28.8992	34.713	127.4	31.20	2.035	18.8	0.3763	0.2142	2198.25		7.868
500.5	497.1	6.977	29.4305	34.658	118.7	33.78	2.184	21.7	0.1623	0.0968	2209.91		7.834
600.8	596.6	6.211	29.9593	34.607	123.5	34.68	2.271	24.6	0.0812	0.0528	2216.33		7.822
702.1	697.0	5.667	30.4812	34.589	131.4	34.66	2.293	27.2	0.0648	0.0421	2218.55		7.827
802.4	796.4	5.017	31.0166	34.570	142.0	34.47	2.312	30.1	0.0351	0.0245	2217.77		7.837
902.2	895.2	4.672	31.5180	34.578	151.9	33.82	2.269	31.3	0.0302	0.0196			7.843
1001.5	993.5	4.759	32.0303	34.659	151.1	32.82	2.193	29.9	0.0163	0.0059			7.851
1201.0	1190.9	4.857	33.0534	34.846	172.0	28.28	1.893	25.2	0.0304	0.0215			7.907
1400.2	1387.8	4.816	34.0568	34.977	209.1	23.03	1.519	19.3	0.1654	0.0939			7.967
1501.5	1487.8	4.583	34.5789	35.013	234.6	20.30	1.324	15.9	0.3118	0.1711			8.000
1594.2	1579.3	4.287	35.0327	35.010	241.9	19.84	1.288	15.7	0.2821	0.1574			8.007
1693.7	1677.5	4.083	35.5048	35.005	250.5	19.11	1.247	15.2	0.2612	0.1496			8.011
1797.9	1780.2	3.732	36.0135	34.996	258.8	18.76	1.217	15.9	0.2092	0.1222			8.015
1897.7	1878.6	3.461	36.4906	34.983	259.2	18.69	1.215	17.5	0.1561	0.0939			8.020
1998.7	1978.1	3.354	36.9540	34.980	259.8	18.69	1.215	17.5	0.1440	0.0831			8.019
2200.1	2176.4	3.087	37.8815	34.968	260.5	18.88	1.219	20.3	0.1056	0.0616			8.020
2399.8	2372.9	2.771	38.8036	34.949	262.2	18.70	1.256	22.8	0.1239	0.0694			8.018
2600.0	2569.6	2.679	39.6998	34.943	262.5	18.70	1.235	23.7	0.1352	0.0763			8.018
2799.2	2765.2	2.572	40.5897	34.937	262.5	19.06	1.254	24.8	0.1402	0.0821			8.020
2899.5	2863.7	2.491	41.0396	34.933	262.8	18.75	1.245	25.5	0.1437	0.0831			8.019
2900.3	2864.4	2.490	41.0438	34.933	262.7	18.75	1.251	25.5	0.1430	0.0841			8.020
3005.9	2968.0	2.428	41.5146	34.929	262.6	18.87	1.253	27.0	0.1358	0.0724			8.020



Station : 230 Campagne : CITHER 2  
 Date : 19-03-94 Heure : 23 h 22 mn  
 Position : N 6 9.33 W 51 21.47  
 Dernier niveau à : 2772  
 Nb prélèvements : 27

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg. cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.1	5.1	27.621	23.4749	36.244	198.7	0.04	0.068	1.6	1.6667	0.9339	2010.77	2385.9	8.377
31.5	31.3	27.606	23.5911	36.243	198.6	0.04	0.071	1.6			2020.08	2387.4	8.376
74.8	74.4	27.115	23.9903	36.288	r	0.04	0.068	1.6	1.6815	0.9407	2026.00	2389.5	8.368
100.8	100.2	23.480	25.4117	36.563	r	2.13	0.283	2.2	1.8191	0.9815	2081.88	2412.5	8.299
150.6	149.7	17.855	26.8869	36.181	r	12.49	0.759	5.1	1.5984	0.8441	2148.34	2385.1	8.144
200.7	199.5	12.044	27.6478	35.224		20.21	1.354	10.2	1.1782	0.6159	2161.67	2337.1	8.015
251.2	249.7	9.609	28.0860	34.918		25.85	1.723	13.9			2183.42	2321.8	7.926
301.3	299.4	8.755	28.3561	34.797		26.84	1.799	15.3	0.6730	0.3657	2182.67	2316.7	7.915
403.1	400.5	8.049	28.9018	34.757		30.78	2.017	18.1	0.3366	0.1868	2202.47	2316.3	7.859
500.4	497.0	6.863	29.4293	34.636		32.46	2.149	21.8	0.2295	0.1291	2207.68	2318.4	7.843
601.8	597.6	6.140	29.9661	34.598		34.20	2.296	24.9	0.0668	0.0401	2217.83	2315.4	7.810
702.1	697.0	5.655	30.4783	34.584		34.37	2.318	26.9	0.0493	0.0313	2202.24	2317.2	7.817
800.9	794.9	5.143	30.9985	34.585		34.60	2.339	29.3	0.0157	0.0117	2220.56	2322.6	7.818
1001.9	993.9	4.873	32.0330	34.696		32.43	2.203	29.2	0.0103	0.0088	2216.42	2325.4	7.848
1202.2	1192.1	4.851	33.0901	34.886	r	26.76	1.812	23.8	0.0452	0.0284	2196.69	2331.5	7.914
1400.0	1387.6	4.750	34.0907	35.008		21.22	1.407	17.3	0.2599	0.1457	2173.76	2334.0	7.981
1500.1	1486.4	4.439	34.5917	35.015		19.83	1.296	15.7	0.3188	0.1740	2166.26	2335.5	7.997
1601.4	1586.4	4.202	35.0771	35.012		19.10	1.241	15.1			2160.62	2333.5	8.005
1699.6	1683.3	4.003	35.5416	35.005		18.75	1.226	15.0	0.3081	0.1682	2156.96	2332.8	8.008
1799.3	1781.6	3.760	36.0169	34.996		18.64	1.199	15.6	0.2462	0.1379	2142.45	2332.8	8.013
1999.0	1978.4	3.314	36.9608	34.976		18.73	1.214	18.5	0.1338	0.0802	2156.54	2335.1	8.015
2199.2	2175.6	3.163	37.8686	34.972		18.74	1.224	19.5	0.1200	0.0704	2157.42	2337.5	8.017
2397.4	2370.5	2.906	38.7782	34.957		18.78	1.225	21.5	0.1192	0.0645	2157.60	2336.1	8.018
2597.2	2566.9	2.749	39.6785	34.947		18.95	1.233	23.4	0.1077	0.0636			
2598.4	2568.1	2.749	39.6843	34.951		18.96	1.235	23.4	0.1094	0.0626	2161.85	2339.2	8.016
2698.6	2666.5	2.692	40.1334	34.944		18.96	1.243	24.2	0.1140	0.0665	2162.07	2339.4	8.014
2757.7	2724.5	2.675	40.3946	34.945		18.93	1.243	24.2	0.1124	0.0684	2164.26	2338.6	8.019

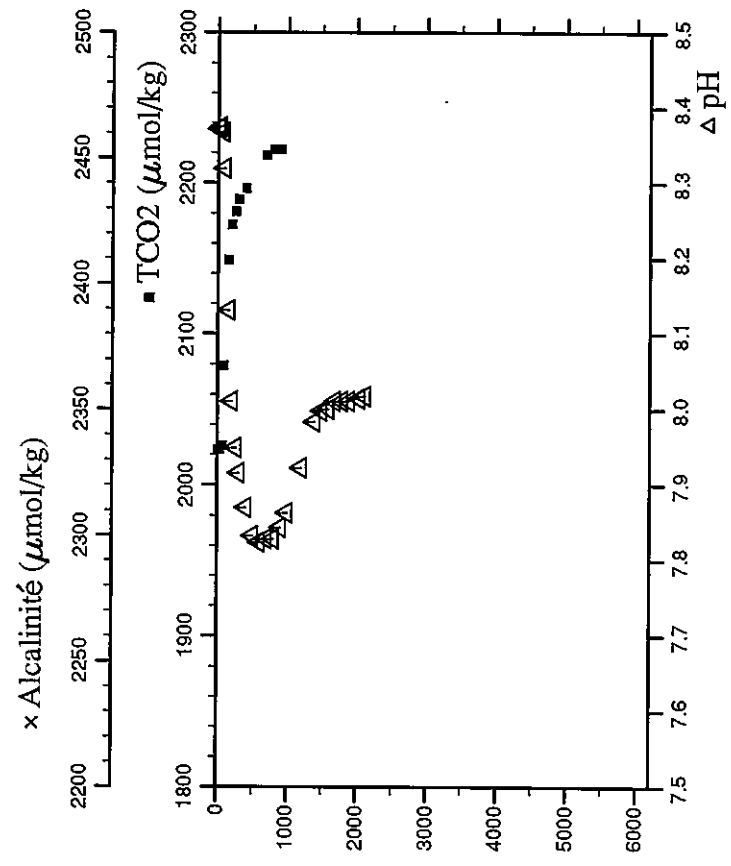
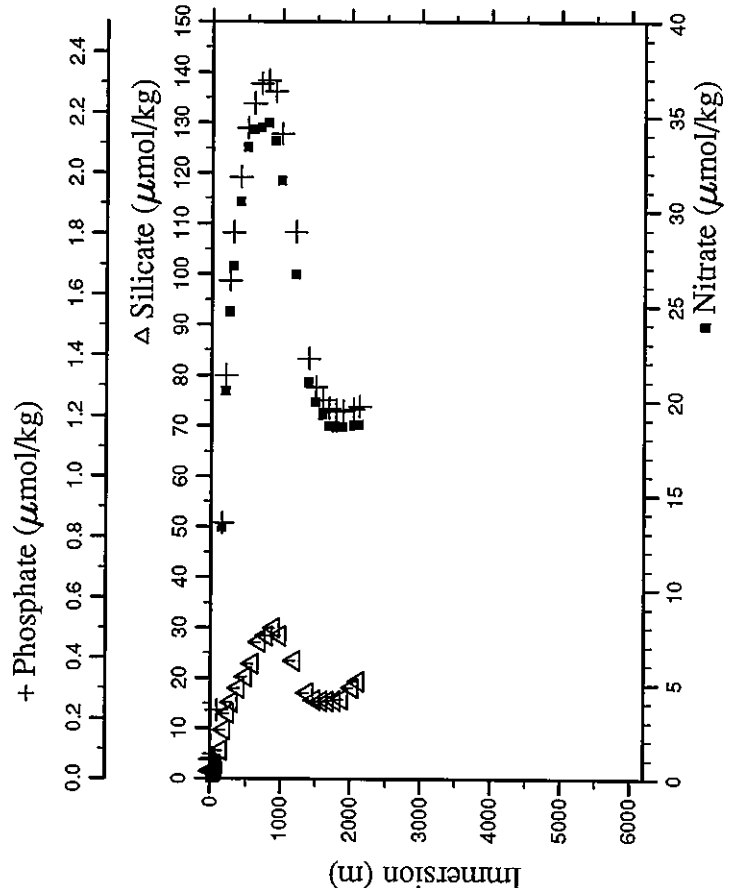
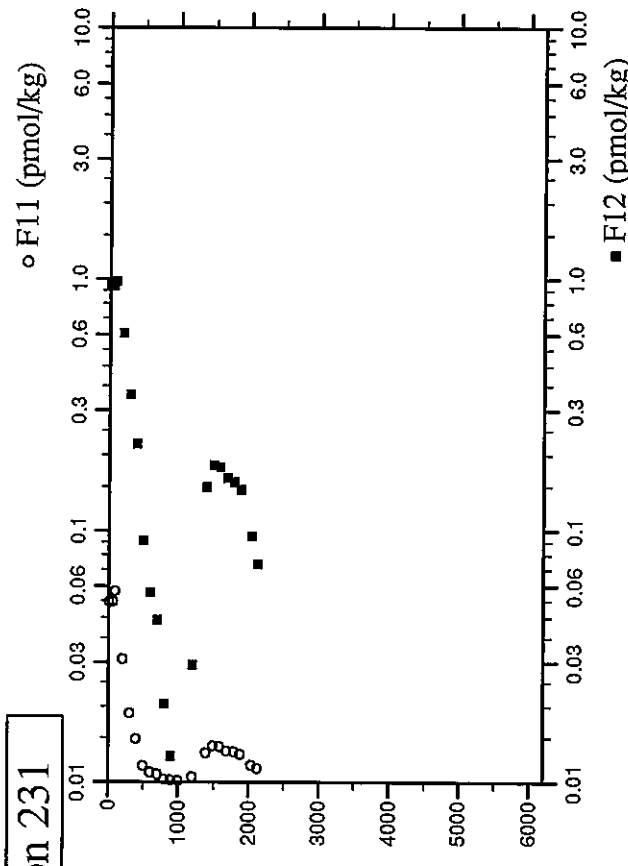
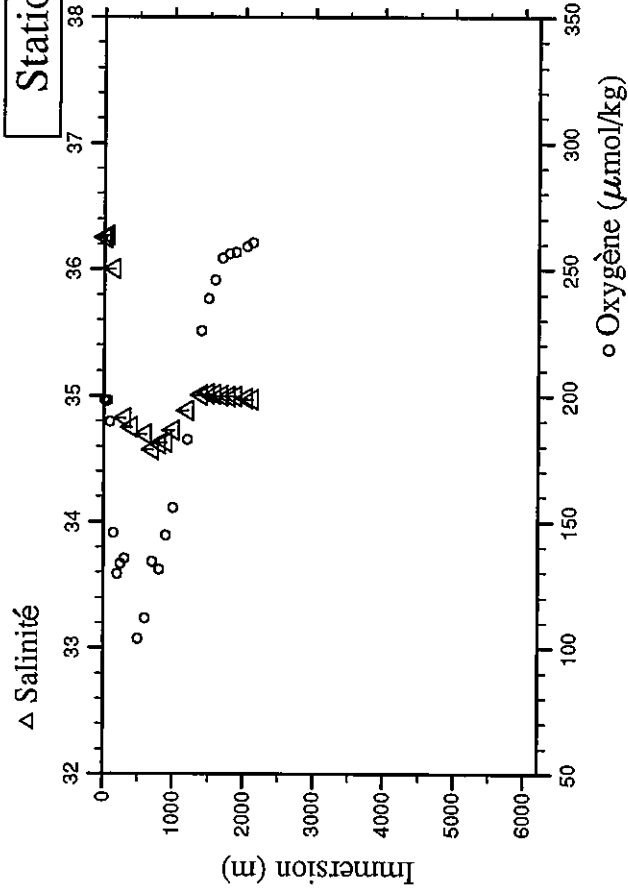
Station 230



Station : 231 Campagne : CITHER 2  
 Date : 20-03-94 Heure : 4 h 3 mn  
 Position : N 6 1.09 W 51 24.55  
 Dernier niveau à : 2135  
 Nb prélèvements : 25

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THERA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
3.8	3.8	27.491	23.5183	36.251	198.5	0.04	0.065	1.6	1.6689	0.9388	2022.86		8.372
31.1	30.9	27.496	23.6306	36.250	198.0	0.04	0.068	1.6			2023.29		8.374
67.0	66.6	27.363	23.8372	36.266	198.2	0.04	0.068	1.6	1.6762	0.9339	2025.98		8.368
89.4	88.9	24.789	25.0159	36.618	189.9	1.06	0.227	1.9	1.7679	0.9727	2079.11		8.319
150.7	149.8	16.819	26.9890	36.006	145.7	13.33	0.846	5.6			2149.00		8.131
199.6	198.4	12.775	27.6375	35.400	129.4	20.50	1.334	9.7	1.1400	0.6080	2172.14		8.011
251.3	249.8	10.286	28.0566	35.010	133.5	24.67	1.644	13.0			2181.20		7.949
300.6	298.7	8.906	28.3511	34.826	135.4	27.10	1.804	15.2	0.6361	0.3452	2189.07		7.916
400.6	398.0	8.056	28.8891	34.754	124.5	30.48	1.986	18.0	0.3965	0.2200	2196.53		7.870
500.4	497.0	7.737	29.4105	34.770	103.6	33.36	2.149	20.2	0.1479	0.0909	2224.43	d	7.833
600.5	596.3	6.807	29.9413	34.698	111.7	34.30	2.229	22.8	0.0897	0.0567	2219.87	d	7.824
699.9	694.8	5.586	30.4719	34.574	134.2	34.42	2.296	27.1	0.0747	0.0440	2218.26		7.829
801.1	795.1	5.410	30.9926	34.621	131.0	34.64	2.307	28.4	0.0260	0.0205	2222.09		7.829
900.9	894.0	4.878	31.5224	34.633	144.6	33.68	2.271	29.9	0.0174	0.0127	2222.12		7.844
1000.9	993.0	4.797	32.0640	34.727	155.5	31.59	2.131	28.4	0.0123	0.0098			7.863
1202.2	1192.1	4.784	33.1001	34.886	182.7	26.63	1.806	23.4	0.0466	0.0293			7.923
1401.2	1388.7	4.695	34.1053	35.009	225.8	20.98	1.388	17.1	0.2718	0.1486			7.984
1500.8	1487.1	4.463	34.5922	35.015	238.5	19.92	1.296	15.7	0.3338	0.1819			7.998
1599.6	1584.6	4.225	35.0657	35.012	245.7	19.26	1.252	15.4	0.3294	0.1789			8.001
1698.8	1682.5	3.896	35.5505	35.000	254.4	18.67	1.225	15.4	0.2878	0.1613			8.011
1799.9	1782.2	3.804	36.0124	34.997	256.2	18.68	1.219	15.6	0.2821	0.1564			
1800.1	1782.4	3.812	36.0138	34.998	256.1	18.61	1.214	15.6	0.2815	0.1555			8.011
1900.1	1881.0	3.747	36.4675	34.996	256.7	18.66	1.218	15.8	0.2545	0.1457			8.011
2050.1	2028.8	3.374	37.1810	34.982	259.1	18.70	1.223	18.1	0.1583	0.0948			8.014
2137.4	2114.7	3.224	37.5862	34.973	260.5	18.75	1.231	19.4	0.1246	0.0733			8.018

Station 231

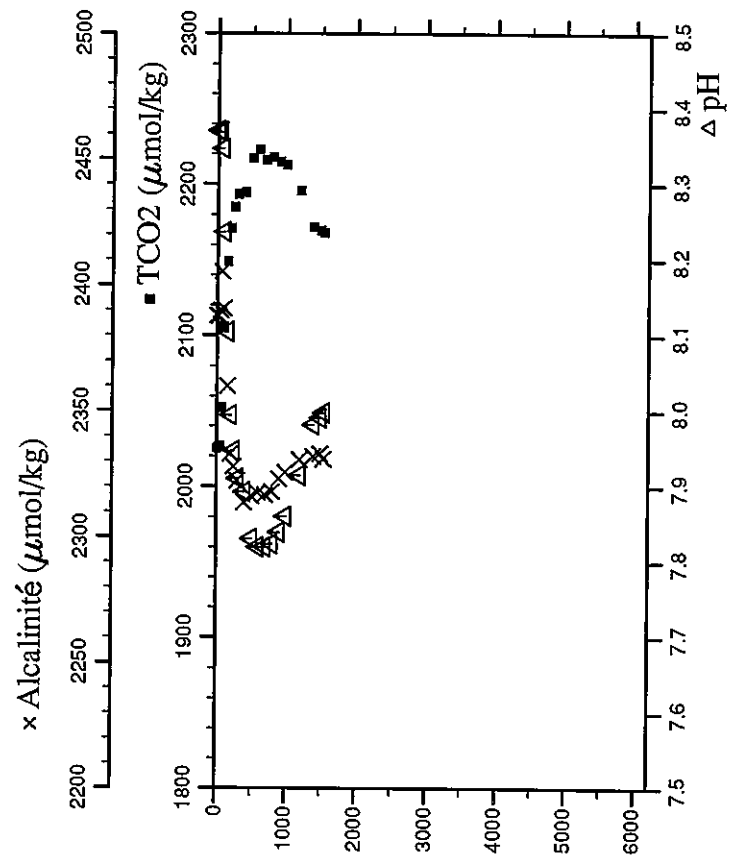
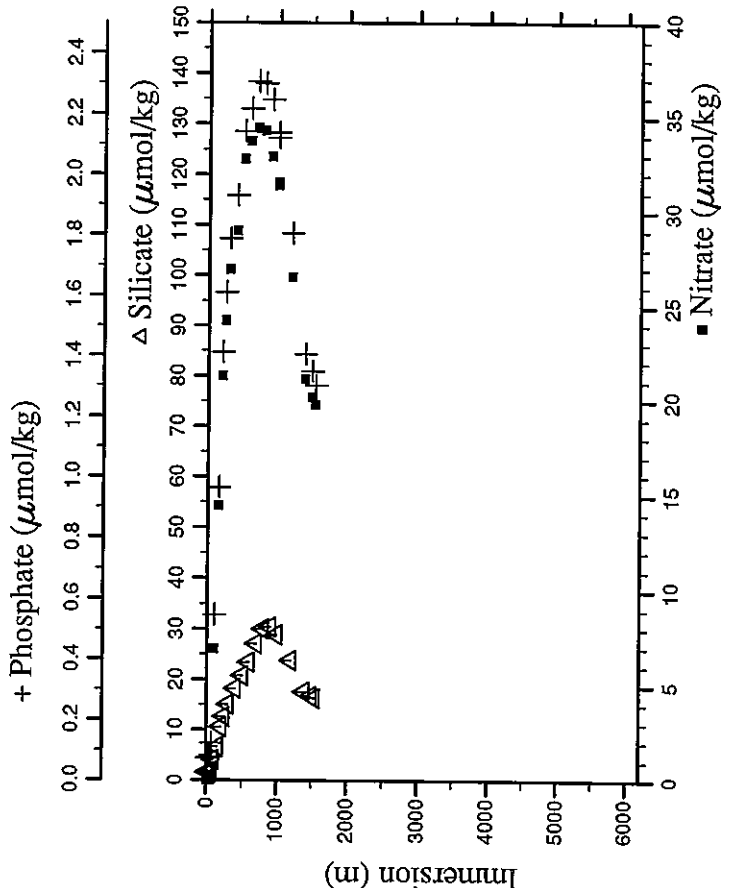
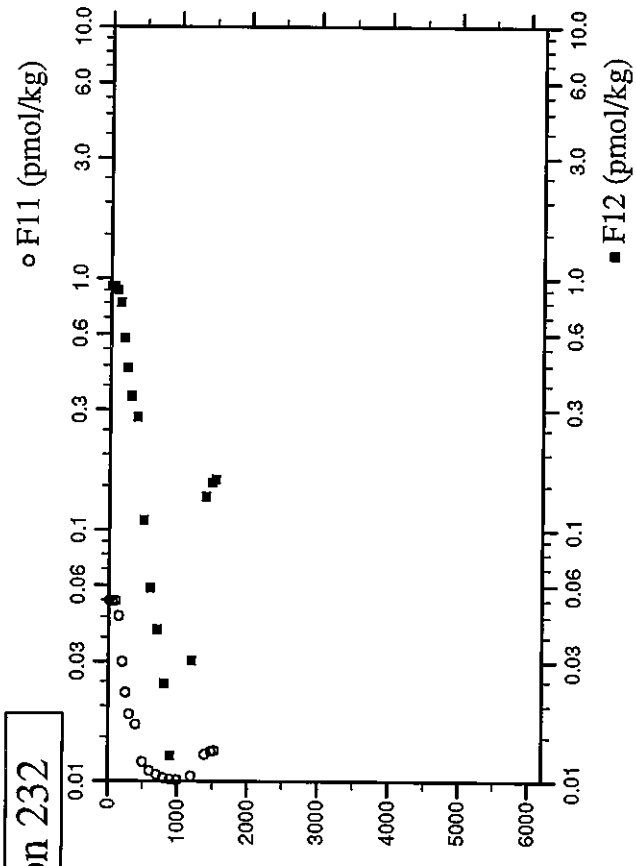
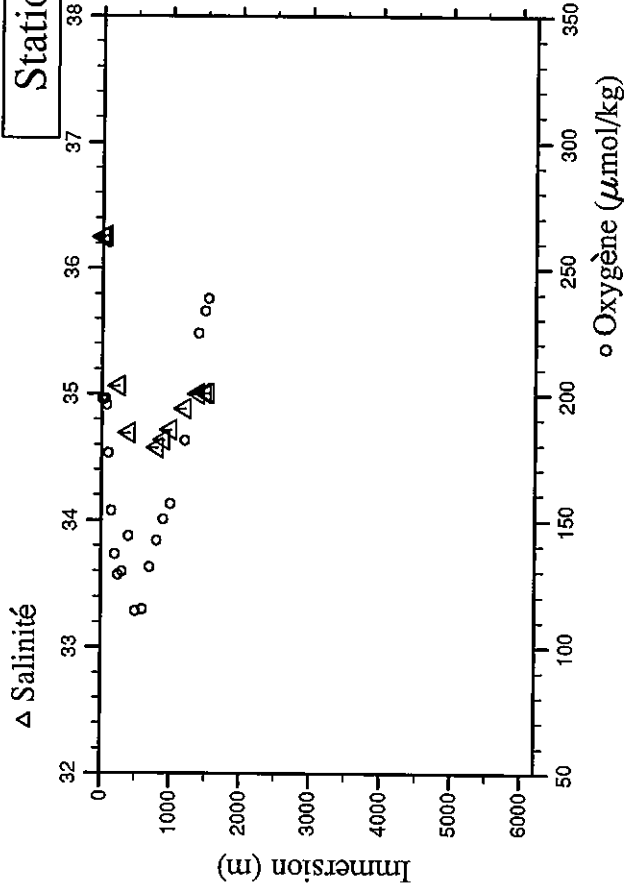




Station : 232 Campagne : CITHER 2  
 Date : 20-03-94 Heure : 7 h 21 mn  
 Position : N 5 57.93 W 51 26.89  
 Dernier niveau à : 1542  
 Nb prélèvements : 21

PRESSION CHIMIE	IMMERSION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
6.7	6.7	27.425	23.5478	36.249	198.0	0.00	0.074	1.6	1.6730	0.9329	2025.10	2387.8	8.371
26.9	26.7	27.431	23.6329	36.250	197.7	0.00	0.074	1.5			2026.25	2387.5	8.370
51.7	51.4	27.400	23.7565	36.258	198.2	0.00	0.080	1.5	1.6683	0.9261	2026.72	2389.9	8.369
73.4	73.0	25.796	24.5666	36.506	195.7	0.24	0.124	1.8			2052.23	2405.4	8.347
100.0	99.4	20.649	25.9703	36.222	176.6	6.95	0.548	4.1	1.6745	0.8978	2105.88	2390.7	8.237
149.0	148.1	15.734	27.1109	35.710	153.8	14.49	0.965	6.7	1.5310	0.7993	2149.07	2359.8	8.105
200.9	199.7	11.846	27.6923	35.204	136.7	21.33	1.411	10.6	1.1085	0.5778	2170.83	2332.8	7.995
249.5	248.0	10.614	28.0131	35.062	128.5	24.26	1.612	12.6	0.8295	0.4410	2184.99	2327.7	7.947
300.8	298.9	9.269	28.3566	34.897	129.8	26.97	1.789	15.1	0.6242	0.3393	2193.40	2322.2	7.911
400.2	397.6	7.752	28.8842	34.690	143.7	29.02	1.930	18.2	0.5271	0.2797	2194.86	2313.6	7.893
500.8	497.4	7.356	29.4162	34.719	114.2	32.82	2.143	20.8	0.1825	0.1095	2216.97	2316.1	7.831
601.7	597.5	6.683	29.9583	34.697	115.1	33.75	2.217	23.4	0.0948	0.0587	2223.12	2317.5	7.820
700.0	694.9	5.653	30.4776	34.589	131.6	34.43	2.305	27.1	0.0608	0.0401	2216.37	2316.7	7.820
801.2	795.2	5.015	31.0090	34.574	142.0	34.30	2.300	30.0	0.0331	0.0245	2217.83	2317.8	7.824
900.9	894.0	4.744	31.5416	34.634	150.3	32.96	2.247	30.4	0.0174	0.0127	2214.83	2322.9	7.840
1000.4	992.5	4.749	32.0597	34.719	156.5	31.44	2.122	28.9	0.0141	0.0098	2212.67	2325.5	7.861
1000.5	992.6	4.749	32.0601	34.717	156.4	31.58	2.139	28.9	0.0089	0.0088			
1200.8	1190.7	4.830	33.0846	34.886	181.6	26.57	1.806	23.8	0.0494	0.0303	2195.79	2330.6	7.915
1400.7	1388.3	4.653	34.1031	35.004	224.2	21.15	1.406	17.6	0.2507	0.1359	2171.71	2331.9	7.982
1498.9	1485.2	4.481	34.5725	35.007	233.1	20.20	1.348	16.7	0.2801	0.1545	2169.49	2332.9	7.991
1542.7	1528.5	4.334	34.7911	35.007	238.2	19.81	1.301	16.3	0.2883	0.1584	2168.15	2330.9	7.998

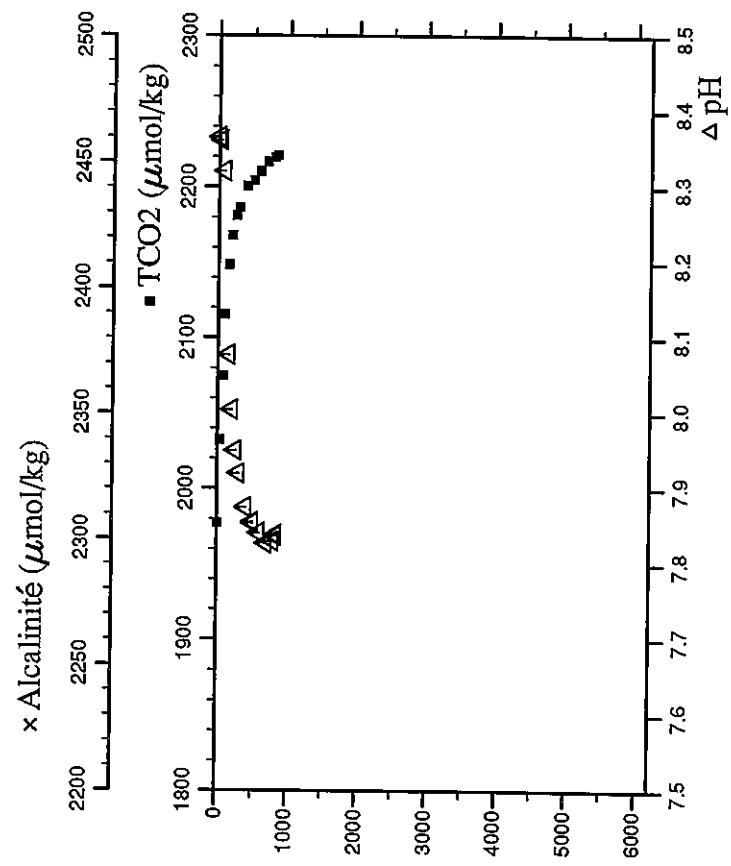
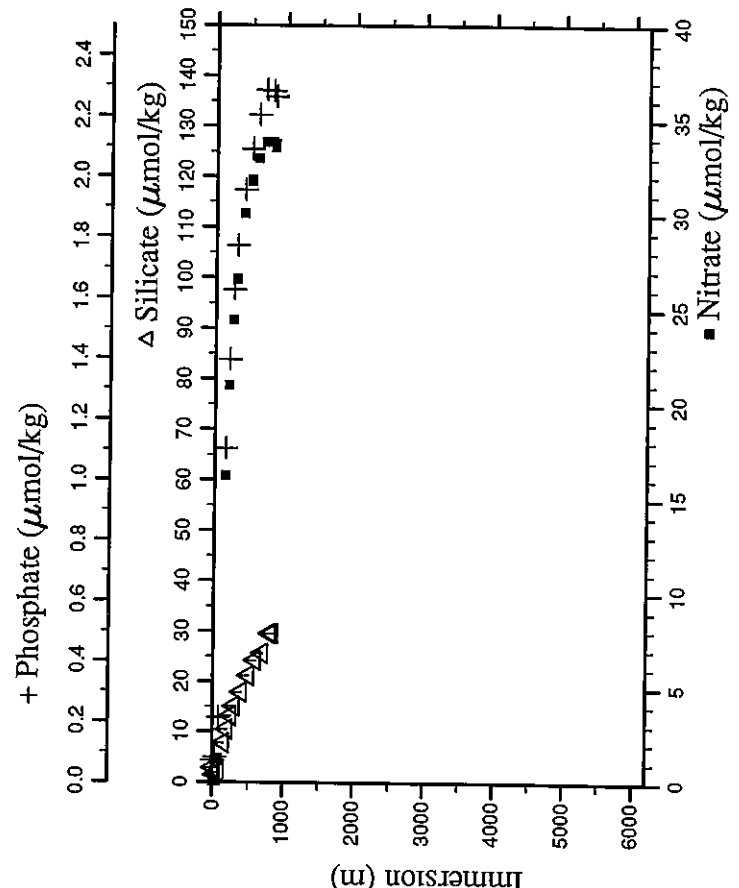
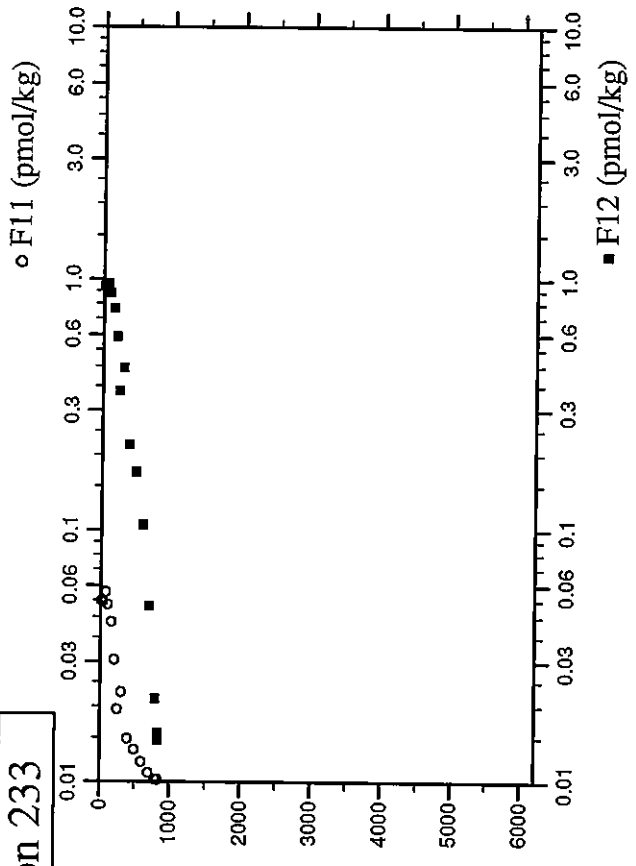
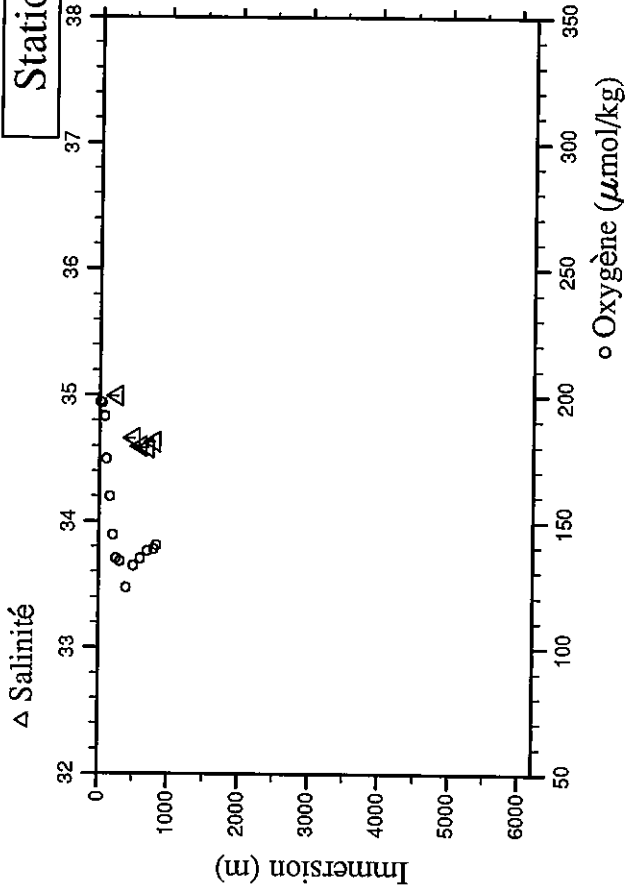
Station 232



Station : 233 Campagne : CITHER 2  
 Date : 20-03-94 Heure : 10 h 16 mn  
 Position : N 5 55.02 W 51 28.42  
 Dernier niveau à : 842  
 Nb prélèvements : 16

PRESSION CHIMIE	IMMERSTION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
7.4	7.4	27.383	22.6744	35.162	r 197.3	0.04	0.073	2.8	1.6731	0.9386	1977.21		8.366
30.5	30.3	27.277	23.6576	36.201	r 197.0	0.04	0.083	1.4	1.6701	0.9271	2032.52		8.362
74.5	74.1	25.180	24.8652	36.623	r 191.6	1.24	0.215	2.0	1.7565	0.9600	2074.71		8.321
99.7	99.1	19.824	26.0892		174.9				1.6382	0.8754	2115.50		
151.4	150.5	13.696	27.2475	35.402	r 159.8	16.24	1.105	7.8	1.4790	0.7605	2148.67		8.078
200.3	199.1	11.772	27.6642	35.152	r 144.5	20.97	1.397	10.5	1.1307	0.5905	2168.11		8.005
251.4	249.9	10.227	28.0344	34.993	135.1	24.43	1.629	13.1	0.6722	0.3588	2181.26		7.951
301.5	299.6	9.264	28.3407	34.871	r 134.2	26.57	1.772	15.1	0.8321	0.4420	2186.18		7.920
400.3	397.7	8.266	28.8859	34.778	r 123.7	30.04	1.957	17.8	0.3966	0.2191	2200.77		7.875
500.9	497.5	7.093	29.4179	34.662	132.3	31.84	2.093	21.1	0.3009	0.1692	2204.21		7.854
502.6	499.2	7.094	29.4249	34.663	132.4	31.72	2.090	21.1	0.3012	0.1702			7.856
600.6	596.4	6.264	29.9411	34.594	135.1	32.96	2.205	24.2	0.1842	0.1047	2210.13		7.841
700.9	695.8	5.514	30.4922	34.585	138.1	33.81	2.286	25.6	0.0875	0.0499	2216.65		7.828
799.8	793.8	5.177	31.0211	34.629	139.0	33.83	2.283	29.5	0.0286	0.0215	2219.46		7.830
835.8	829.5	5.101	31.2085	34.667	r 140.6	33.53	2.265	29.6	0.0272	0.0156	2220.81		7.837
837.3	831.0	5.100	31.2156	34.661	r 140.5	33.72	2.263	29.6	0.0220	0.0147			7.839

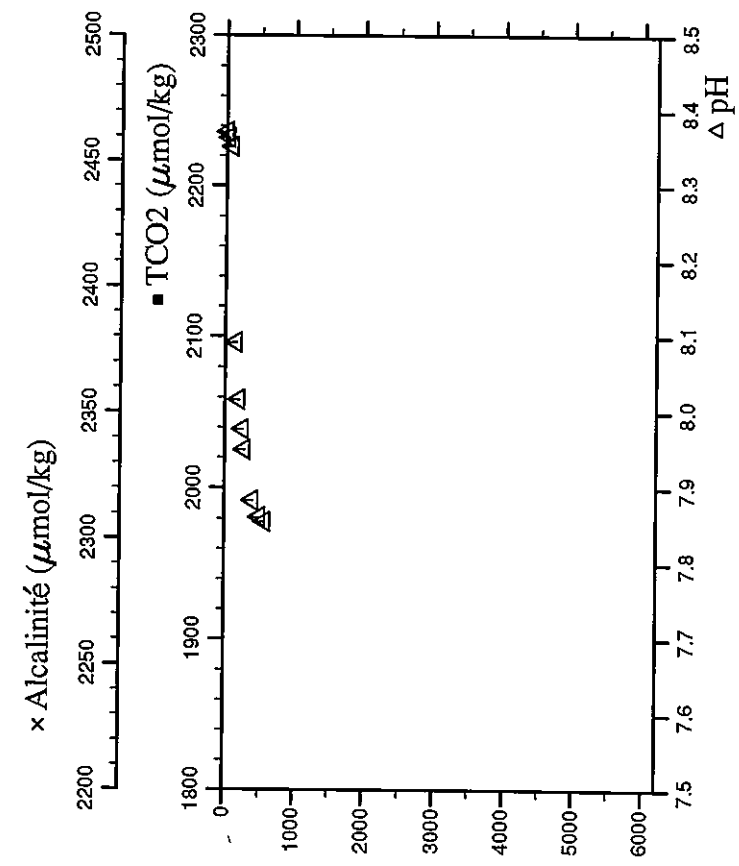
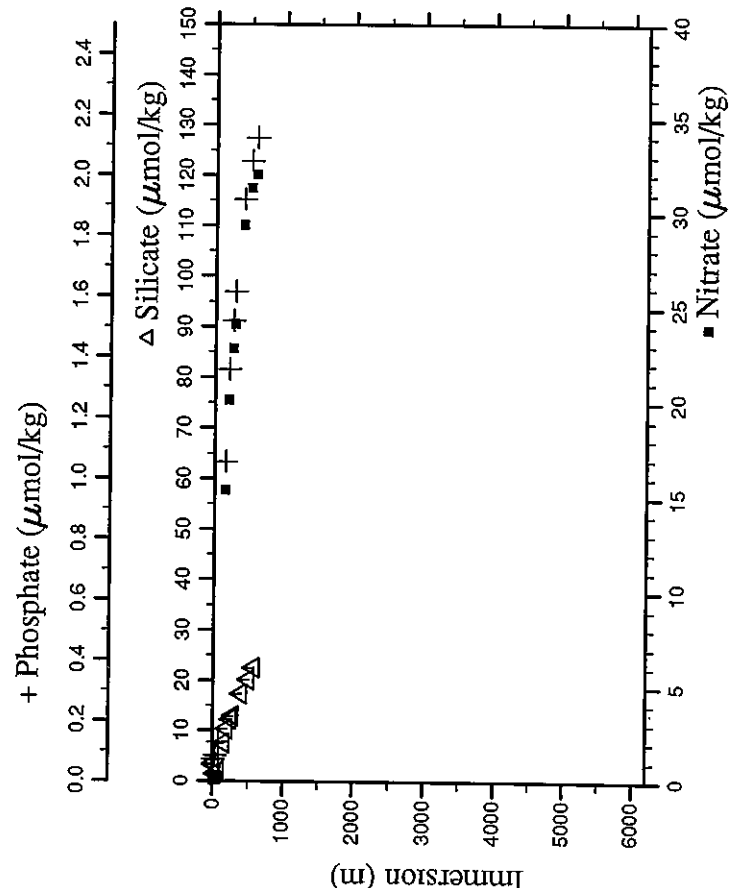
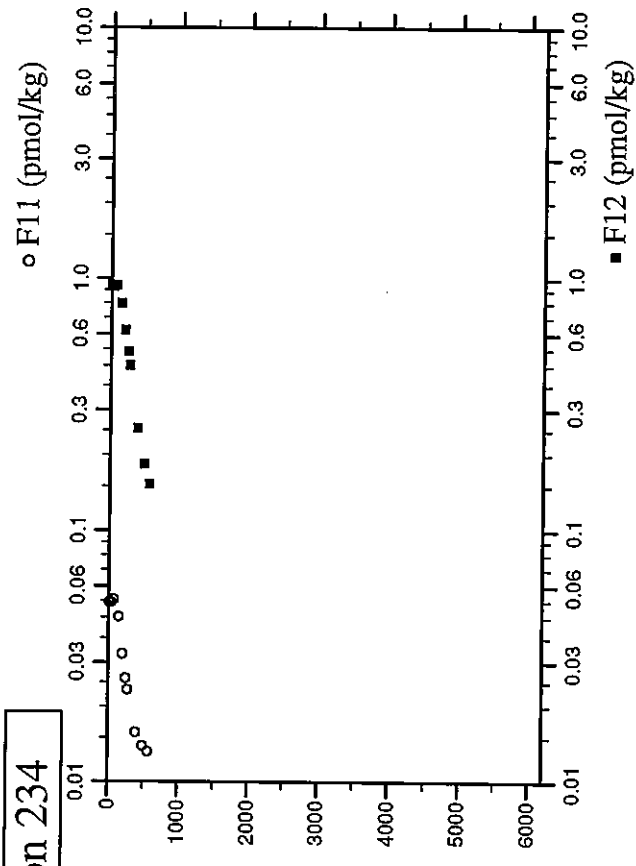
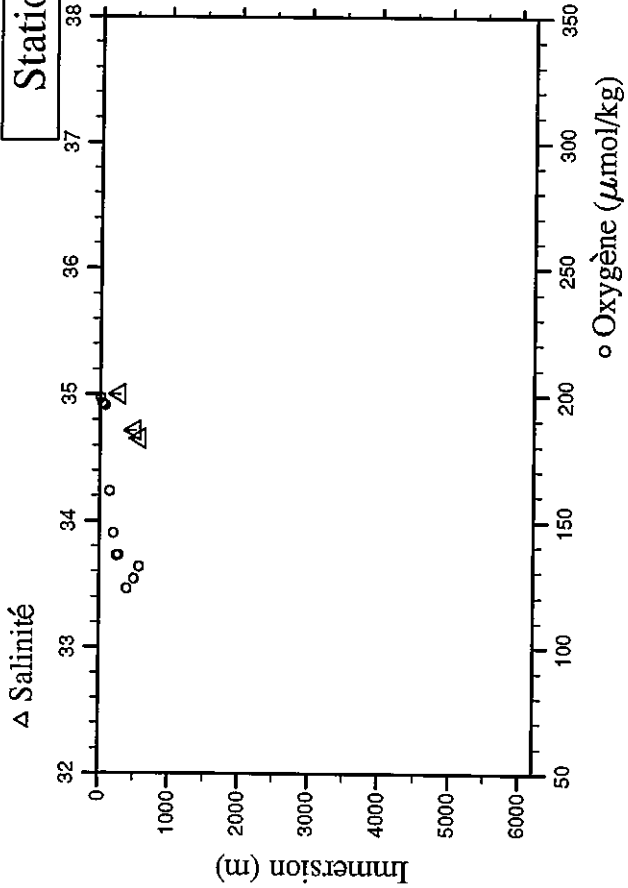
Station 233



Station : 234 Campagne : CITHER 2  
 Date : 20-03-94 Heure : 12 h 42 mn  
 Position : N 5 53.33 W 51 28.96  
 Dernier niveau à : 576  
 Nb prélèvements : 13

PRESSION CHIMIE	IMMERSTION	TEMP.POT. SONDE	SIGMA THERA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG.TOT. NITE	ALCALI- NITE	pH
dbar	metres	deg.cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
5.0	5.0	27.378	22.3836	34.700	198.8	0.04	0.073	3.3	1.6710	0.9399			8.372
5.2	5.2	27.378	22.3823		0.12	0.073	0.073	3.5					8.372
34.7	34.5	27.328	23.6650	36.194	196.4	0.04	0.086	1.5	1.6695	0.9271			8.364
74.9	74.5	26.869	24.0841	36.439	195.7	0.28	0.130	1.9	1.6938	0.9377			8.352
150.7	149.8	14.138	27.2120	35.462	161.8	15.39	1.056	7.6	1.5314	0.7946			8.092
201.6	200.4	12.026	27.6531	35.214	145.2	20.12	1.359	10.4	1.1877	0.6208			8.017
251.2	249.7	11.158	27.9755	35.129	136.3	22.84	1.519	12.3	0.9658	0.5123			7.978
279.0	277.3	10.295	28.1562	35.000	136.5	24.14	1.615	12.9	0.8580	0.4508			7.951
400.6	398.0	8.609	28.8597	34.824	123.1	29.37	1.920	17.3	0.4614	0.2543			7.884
500.7	497.3	7.575	29.3854	34.715	126.9	31.33	2.047	20.1	0.3343	0.1829			7.862
577.1	573.1	6.959	29.7800	34.657	131.8	32.03	2.124	22.5	0.2787	0.1526			7.856

Station 234



Station : 235 Campagne : CITHER 2  
 Date : 20-03-94 Heure : 16 h 13 mn  
 Position : N 5 53.23 W 51 30.25  
 Dernier niveau à : 240  
 Nb prélèvements : 8

PRESSION CHIMIE	IMMERSTION	TEMP. POT. SONDE	SIGMA THETA	SALINITE CHIMIE	OXYGENE CHIMIE	NITRATE	PHOSPHATE	SILICATE	F11	F12	CARBONE INORG. TOT.	ALCALI- NITE	pH
dbar	metres	deg. cels.			um/kg	um/kg	um/kg	um/kg	pmol/kg	pmol/kg	um/kg	um/kg	
3.6	3.6	27.271	22.2657	34.527	r 199.6	0.18	0.077	3.9	1.6736	0.9400	1944.53	2286.4	8.374
26.1	26.0	27.461	23.5911	36.219	r 198.1	0.04	0.074	1.6	1.6872	0.9515	2023.76	2386.0	8.371
51.3	51.0	26.909	23.9436	36.298	195.5	0.20	0.109	1.8	1.6718	0.9358	2033.32	2393.0	8.356
76.6	76.2	24.006	25.0182	36.387	187.9	2.80	0.296	2.9	1.7003	0.9319	2071.87	2400.3	8.306
101.5	100.9	18.929	26.2866	36.058	166.1	9.29	0.662	4.8	1.6670	0.9301	2121.18	2381.7	8.195
152.7	151.8	16.688	26.9689	35.940	r 153.1	12.78	0.840	6.1	1.6103	0.8413	2144.44	2373.6	8.142
186.1	185.0	13.614	27.4370	35.447	152.0	17.25	1.146	8.5	1.4124	0.7370			8.075
193.3	192.1	13.434	27.4988	35.411	r 151.1	17.70	1.178	8.7	1.3705	0.7096	2155.32	2345.7	8.062

Station 235

