

**Supplementary material to:**

**Major consequences of an intense Dense Shelf Water Cascading event  
on deep-sea benthic trophic conditions and meiofaunal biodiversity**

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**Table S1.** Pairwise comparisons illustrating differences in biopolymeric and bioavailable C sedimentary concentrations and values of the bioavailable fraction of biopolymeric C between the DSWC impacted sediments (April 2005) vs. all other sampling periods in the Cap de Creus canyon (ca. 1000 and ca.1800 m depth) and deep margin (>2100m depth). Grey lines indicate contrasts including DSWC. Bold numbers indicate significant contrasts ( $\alpha=0.05$ ).

Canyon	Depth	Contrast	Biopolymeric C		Bioavailable C		Bioavailable fraction	
			t	P	t	P	t	P
Cap de Creus	~1000 m	May 2004, <b>Apr 2005</b>	4.576	<b>0.011</b>	2.123	0.099	1.052	0.357
		May 2004, Oct 2005	1.321	0.257	6.506	0.003	4.739	0.007
		May 2004, Aug 2006	1.019	0.367	1.590	0.188	0.624	0.549
		May 2004, Apr 2008	2.652	0.059	13.726	0.000	19.938	0.000
		May 2004, Apr 2009	1.566	0.201	15.998	0.000	18.009	0.000
		<b>Apr 2005</b> , Oct 2005	4.656	<b>0.008</b>	13.531	<b>0.000</b>	9.349	<b>0.001</b>
		<b>Apr 2005</b> , Aug 2006	0.253	0.815	0.931	0.413	0.680	0.531
		<b>Apr 2005</b> , Apr 2008	3.037	<b>0.034</b>	24.276	<b>0.000</b>	26.927	<b>0.000</b>
		<b>Apr 2005</b> , Apr 2009	0.655	0.542	20.539	<b>0.000</b>	20.799	<b>0.000</b>
		Oct 2005, Aug 2006	4.157	0.014	12.273	0.000	8.246	0.001
		Oct 2005, Apr 2008	9.738	0.001	9.553	0.001	20.035	0.000
		Oct 2005, Apr 2009	6.409	0.003	12.892	0.000	16.862	0.001
		Aug 2006, Apr 2008	3.129	0.033	22.699	0.000	25.905	0.000
		Aug 2006, Apr 2009	0.911	0.412	19.945	0.000	20.369	0.000
	Apr 2008, Apr 2009	3.391	0.026	7.023	0.001	3.963	0.012	
	~1800 m	May 2004, <b>Apr 2005</b>	4.182	<b>0.014</b>	4.818	<b>0.008</b>	0.958	0.391
		May 2004, Oct 2005	3.105	0.036	0.595	0.593	4.807	0.006
		May 2004, Aug 2006	6.021	0.004	1.904	0.132	7.108	0.002
		May 2004, Apr 2008	5.478	0.006	2.996	0.039	4.507	0.012
May 2004, Apr 2009		4.278	0.014	6.625	0.003	4.320	0.014	
<b>Apr 2005</b> , Oct 2005		2.524	0.067	9.427	<b>0.001</b>	6.849	<b>0.004</b>	
<b>Apr 2005</b> , Aug 2006		3.459	<b>0.023</b>	5.119	<b>0.008</b>	8.464	<b>0.001</b>	
<b>Apr 2005</b> , Apr 2008		2.271	0.083	3.693	<b>0.022</b>	6.143	<b>0.003</b>	
<b>Apr 2005</b> , Apr 2009		0.335	0.752	4.036	<b>0.013</b>	4.261	<b>0.012</b>	
Oct 2005, Aug 2006		8.142	0.001	4.069	0.015	3.913	0.019	
Oct 2005, Apr 2008		6.414	0.004	6.227	0.003	0.196	0.844	
Oct 2005, Apr 2009		3.105	0.033	14.464	0.000	13.141	0.000	
Aug 2006, Apr 2008		1.777	0.148	1.838	0.139	3.527	0.026	
Aug 2006, Apr 2009		6.033	0.004	9.537	0.001	11.616	0.000	
Apr 2008, Apr 2009		4.000	0.017	8.883	0.001	10.706	0.001	
Deep margin	>2100 m	May 2004, <b>Apr 2005</b>	2.753	0.069	7.819	<b>0.002</b>	5.649	<b>0.005</b>
		May 2004, Oct 2005	4.028	0.023	1.954	0.137	2.410	0.064
		May 2004, Aug 2006	4.574	0.011	0.273	0.808	3.742	0.016
		May 2004, Apr 2009	3.592	0.029	0.063	0.957	4.154	0.015
		<b>Apr 2005</b> , Oct 2005	1.834	0.142	5.642	<b>0.008</b>	7.316	<b>0.002</b>
		<b>Apr 2005</b> , Aug 2006	6.611	<b>0.002</b>	6.361	<b>0.007</b>	0.234	0.830
		<b>Apr 2005</b> , Apr 2009	6.111	<b>0.004</b>	8.433	<b>0.001</b>	3.536	<b>0.023</b>
		Oct 2005, Aug 2006	6.946	0.006	1.258	0.265	4.792	0.008
		Oct 2005, Apr 2009	6.336	0.002	2.263	0.086	6.963	0.003

**Table S2.** Pairwise comparisons illustrating differences in meiofaunal abundance and biomass between the DSWC impacted sediments (April 2005) vs. all other sampling periods in the Cap de Creus canyon (ca. 1000 and ca. 1800 m depth) and deep margin (>2100m depth). Grey lines indicate contrasts including DSWC. Bold numbers indicate significant contrasts ( $\alpha=0.05$ ).

Canyon	Depth	Contrast	Abundance		Biomass	
			t	P	t	P
Cap de creus	~1000 m	Apr 2005, Oct 2005	13.744	<b>0.000</b>	2.788	<b>0.044</b>
		Apr 2005, Aug 2006	12.190	<b>0.001</b>	4.643	<b>0.010</b>
		Apr 2005, Apr 2008	8.142	<b>0.002</b>	1.670	0.178
		Apr 2005, Apr 2009	16.670	<b>0.000</b>	5.385	<b>0.003</b>
		Oct 2005, Aug 2006	0.101	0.920	0.920	0.412
		Oct 2005, Apr 2008	4.988	<b>0.007</b>	2.017	0.118
		Oct 2005, Apr 2009	2.515	0.065	0.802	0.478
		Aug 2006, Apr 2008	4.306	<b>0.012</b>	4.343	<b>0.010</b>
		Aug 2006, Apr 2009	2.166	0.103	0.336	0.752
		Apr 2008, Apr 2009	7.482	<b>0.002</b>	6.178	<b>0.003</b>
	~1800 m	Apr 2005, Oct 2005	2.693	0.058	3.910	<b>0.015</b>
		Apr 2005, Aug 2006	4.115	<b>0.013</b>	4.458	<b>0.013</b>
		Apr 2005, Apr 2008	2.565	0.061	1.903	0.132
		Apr 2005, Apr 2009	3.422	<b>0.026</b>	1.872	0.132
		Oct 2005, Aug 2006	2.510	0.068	0.459	0.666
		Oct 2005, Apr 2008	0.330	0.763	1.495	0.208
		Oct 2005, Apr 2009	1.656	0.175	0.526	0.631
		Aug 2006, Apr 2008	1.253	0.277	1.934	0.129
		Aug 2006, Apr 2009	0.368	0.731	0.847	0.450
		Apr 2008, Apr 2009	1.158	0.318	0.551	0.618
Deep margin	>2100 m	Apr 2005, Oct 2005	5.661	<b>0.006</b>	3.147	<b>0.036</b>
		Apr 2005, Aug 2006	4.744	<b>0.008</b>	6.068	<b>0.005</b>
		Apr 2005, Apr 2009	12.755	<b>0.000</b>	4.074	<b>0.018</b>
		Oct 2005, Aug 2006	0.031	0.977	0.001	1.000
		Oct 2005, Apr 2009	4.141	<b>0.012</b>	1.233	0.286
		Aug 2006, Apr 2009	3.232	<b>0.032</b>	1.522	0.197

**Table S3.** Results of the CAP analysis illustrating allocation success of nematode assemblages (observations) to sampling times (groups).

Area (depth m)	A priori groups	Classified groups					Total	% correct
		Apr 05	Oct 05	Aug 05	Apr 08	Apr 09		
<b>All depths</b>	Apr 05	6	0	0	0	0	6	100
	Oct 05	0	6	0	0	0	6	100
	Aug 05	0	0	6	0	0	6	100
	Apr 08	0	0	0	3	3	6	50
	Apr 09	0	0	0	1	5	6	83
	Total correct						26/30	87
Mis-classification error (%)								87
Trace statistic = $(\text{tr}(Q\_mHQ\_m)) = 3.6435$ (P=0.0002)								
First squared canonical correlation = $(\text{delta}_1^2) = 0.99422$ (P= 0.0002)								

Area (depth m)	A priori groups	Classified groups					Total	% correct
		Apr 05	Oct 05	Aug 05	Apr 08	Apr 09		
<b>Canyon (1000 m)</b>	Apr 05	3	0	0	0	0	3	100
	Oct 05	0	3	0	0	0	3	100
	Aug 05	0	0	3	0	0	3	100
	Apr 08	0	0	0	2	1	3	67
	Apr 09	0	0	0	0	3	3	100
	Total correct						14/15	93
Mis-classification error (%)								7
Trace statistic = $(\text{tr}(Q\_mHQ\_m)) = 3.8922$ (P=0.001)								
First squared canonical correlation = $(\text{delta}_1^2) = 0.99683$ (P=0.094)								

Area (depth m)	A priori groups	Classified groups					Total	% correct
		Apr 05	Oct 05	Aug 05	Apr 08	Apr 09		
<b>Canyon (1800 m)</b>	Apr 05	3	0	0	0	0	3	100
	Oct 05	0	3	0	0	0	3	100
	Aug 05	0	0	3	0	0	3	100
	Apr 08	0	0	0	3	0	3	100
	Apr 09	0	0	0	2	1	3	33
	Total correct						13/15	87
Mis-classification error (%)								13
Trace statistic = $(\text{tr}(Q\_mHQ\_m)) = 2.8762$ (P=0.001)								
First squared canonical correlation = $(\text{delta}_1^2) = 0.98859$ (P=0.003)								

Area (depth m)	A priori groups	Classified groups					Total	% correct
		Apr 05	Oct 05	Aug 05	Apr 08	Apr 09		
<b>Deep margin (&gt;2100 m)</b>	Apr 05	3	0	0	0	-	3	100
	Oct 05	0	0	3	0	-	3	0
	Aug 05	0	3	0	0	-	3	0
	Apr 09	0	0	0	3	-	3	100
	Total correct						6/12	50
Mis-classification error (%)								50
Trace statistic = $(\text{tr}(Q\_mHQ\_m)) = 1.9801$ (P=0.0004)								
First squared canonical correlation = $(\text{delta}_1^2) = 0.99829$ (P=0.0022)								

**Table S4.** Results of the SIMPER analysis illustrating species contributing cumulatively >50% to the dissimilarity among nematode assemblages during the 2005 cascading event (Apr 05) and all other sampling periods. Results are presented for the three different depth rangase (ca. 1000m and ca. 1800 m depth in the canyon and >2100 m in the deep margin). Species in red are those observed in sediments exposed to the 2005 cascading event but absent in samples collected after the event .

Contrast	Depth	Species	April 2005 Abundance	October 2005 Abundance	Contribution to dissimilarity (%)	Cumulative dissimilarity (%)		
Apr 05 vs. Oct 05	1000 m	<i>Amphimonhystrella sp1</i>	0	1	1.94	1.94		
		<i>Chromadora sp1</i>	0	1	1.94	3.89		
		<i>Desmoscolex sp1</i>	0	1	1.94	5.83		
		<i>Elzalia sp1</i>	0	1	1.94	7.77		
		<i>Halalaimus sp 1</i>	0	1	1.94	9.71		
		<i>Halalaimus sp 4</i>	0	1	1.94	11.66		
		<i>Halalaimus sp5</i>	0	1	1.94	13.6		
		<i>Hopperia sp1</i>	0	1	1.94	15.54		
		<i>Leptolaimus sp1</i>	0	1	1.94	17.49		
		<i>Oxystomina sp1</i>	0	1	1.94	19.43		
		<i>Pierrickia sp1</i>	0	1	1.94	21.37		
		<i>Platycoma sp1</i>	0	1	1.94	23.31		
		<i>Pselionema sp1</i>	0	1	1.94	25.26		
		<i>Richtersia sp 3</i>	1	0	1.94	27.2		
		<i>Sabatieria sp1</i>	0	1	1.94	29.14		
		<i>Sabatieria sp2</i>	0	1	1.94	31.09		
		<i>Sphaerolaimus sp1</i>	0	1	1.94	33.03		
		<i>Theristus sp1</i>	0	1	1.94	34.97		
		<i>Acantholaimus sp1</i>	0	0.67	1.33	36.31		
		<i>Acantholaimus sp8</i>	0	0.67	1.33	37.64		
		<i>Aegialolaimus sp3</i>	0	0.67	1.33	38.97		
		<i>Bathyeurystomina sp1</i>	0	0.67	1.33	40.31		
		<i>Bathyeurystomina sp2</i>	0	0.67	1.33	41.64		
		<i>Paracanthochus sp3</i>	0	0.67	1.33	42.97		
		<i>Prochromadorella sp1</i>	0	0.67	1.33	44.31		
		<i>Tricoma sp2</i>	0	0.67	1.33	45.64		
		<i>Adoncholaimus sp2</i>	0.67	0	1.32	46.96		
		<i>Cyartonema sp3</i>	0	0.67	1.29	48.25		
		<i>Daptonema sp1</i>	0	0.67	1.29	49.54		
		<i>Daptonema sp2</i>	0	0.67	1.29	50.83		
		Apr 05 vs. Aug 06	1000 m	<i>Acantholaimus sp5</i>	0	1	2.4	2.4
				<i>Amphimonhystrella sp1</i>	0	1	2.4	4.8
<i>Dichromadora sp1</i>	0			1	2.4	7.19		
<i>Halalaimus sp5</i>	0			1	2.4	9.59		
<i>Retrotheristus sp2</i>	0			1	2.4	11.99		
<i>Richtersia sp 3</i>	1			0	2.4	14.39		
<i>Sabatieria sp3</i>	0			1	2.4	16.79		
<i>Sphaerolaimus sp1</i>	0			1	2.4	19.18		

		<i>Spilophorella sp1</i>	0	1	2.4	21.58
		<i>Theristus sp3</i>	0	1	2.4	23.98
		<i>Bathyeurystomina sp2</i>	0	0.67	1.64	25.62
		<i>Halalaimus sp 1</i>	0	0.67	1.64	27.27
		<i>Oxystomina sp1</i>	0	0.67	1.64	28.91
		<i>Adoncholaimus sp2</i>	0.67	0	1.64	30.55
		<i>Actarjana sp1</i>	0	0.67	1.61	32.16
		<i>Crenopharynx sp1</i>	0	0.67	1.61	33.77
		<i>Hopperia sp1</i>	0	0.67	1.61	35.39
		<i>Sabatieria sp1</i>	0	0.67	1.61	37
		<i>Sphaerolaimus sp2</i>	0	0.67	1.61	38.61
		<i>Sphaerolaimus sp3</i>	0	0.67	1.61	40.22
		<i>Syringolaimus sp1</i>	0	0.67	1.61	41.84
		<i>Vasostoma sp2</i>	0	0.67	1.61	43.45
		<i>Acantholaimus sp4</i>	0	0.67	1.54	44.99
		<i>Desmoscolex sp2</i>	0	0.67	1.54	46.53
		<i>Linhystera sp3</i>	0	0.67	1.54	48.07
		<i>Metacyatholaimus sp2</i>	0	0.67	1.54	49.61
		<i>Pierrickia sp1</i>	0	0.67	1.54	51.14
<b>Apr 05 vs. Apr 08</b>	<b>1000 m</b>	<i>Aegialoalaimus sp1</i>	0	1	1.96	1.96
		<i>Amphimonhystrella sp1</i>	0	1	1.96	3.92
		<i>Amphimonhystrella sp2</i>	0	1	1.96	5.88
		<i>Halalaimus lineatus sp 1</i>	0	1	1.96	7.84
		<i>Halalaimus longicaudatus sp 4</i>	0	1	1.96	9.8
		<i>Microlaimus sp2</i>	0	1	1.96	11.76
		<i>Richtersia sp 3</i>	1	0	1.96	13.72
		<i>Sabatieria sp1</i>	0	1	1.96	15.68
		<i>Sabatieria sp2</i>	0	1	1.96	17.64
		<i>Sabatiera sp 5</i>	0	1	1.96	19.6
		<i>Sphaerolaimus sp2</i>	0	1	1.96	21.56
		<i>Acantholaimus sp3</i>	0	0.67	1.34	22.9
		<i>Acanthoncus sp2</i>	0	0.67	1.34	24.24
		<i>Aegialoalaimus sp2</i>	0	0.67	1.34	25.58
		<i>Marylynnia sp1</i>	0	0.67	1.34	26.92
		<i>Oxystomina sp4</i>	0	0.67	1.34	28.26
		<i>Quadricoma sp1</i>	0	0.67	1.34	29.61
		<i>Sabatieria sp3</i>	0	0.67	1.34	30.95
		<i>Sphaerolaimus sp1</i>	0	0.67	1.34	32.29
		<i>Syringolaimus filicaudatus sp4</i>	0	0.67	1.34	33.63
		<i>Theristus sp1</i>	0	0.67	1.34	34.97
		<i>Acantholaimus sp 6</i>	0.67	0	1.33	36.31
		<i>Adoncholaimus sp2</i>	0.67	0	1.33	37.64
		<i>Acantholaimus sp1</i>	0	0.67	1.24	38.88
		<i>Desmoscolex sp6</i>	0	0.67	1.24	40.12
		<i>Hopperia sp2</i>	0	0.67	1.24	41.35
		<i>Metalinhomoeus sp1</i>	0	0.67	1.24	42.59
		<i>Molgolaimus sp1</i>	0	0.67	1.24	43.83

		<i>Pierrickia sp3</i>	0	0.67	1.24	45.06
		<i>Syringolaimus sp4</i>	0	0.67	1.24	46.3
		<i>Actinonema sp1</i>	0.67	0	1.23	47.53
		<i>Dolicholaimus sp 4</i>	0.67	0	1.23	48.75
		<i>Halalaimus sp 2</i>	0.67	0	1.23	49.98
		<i>Innocuonema sp1</i>	0.67	0	1.23	51.21
<b>Apr 05 vs. Apr 09</b>	<b>1000 m</b>	<i>Acantholaimus macramphis (sp6)</i>	0	1	1.84	1.84
		<i>Aegialoalaimus sp1</i>	0	1	1.84	3.69
		<i>Desmoscolex sp4</i>	0	1	1.84	5.53
		<i>Doliolaimus sp1</i>	0	1	1.84	7.37
		<i>Elzalia sp2</i>	0	1	1.84	9.21
		<i>Halalaimus longicaudatus sp 4</i>	0	1	1.84	11.06
		<i>Leptolaimoides sp1</i>	0	1	1.84	12.9
		<i>Microlaimus sp2</i>	0	1	1.84	14.74
		<i>Oxystomina sp3</i>	0	1	1.84	16.59
		<i>Richtersia sp 3</i>	1	0	1.84	18.43
		<i>Richtersia sp9</i>	0	1	1.84	20.27
		<i>Sabatieria sp2</i>	0	1	1.84	22.11
		<i>Sabatieria sp3</i>	0	1	1.84	23.96
		<i>Sabatiera sp 5</i>	0	1	1.84	25.8
		<i>Spilophorella sp2</i>	0	1	1.84	27.64
		<i>Acantholaimus sp1</i>	0	0.67	1.3	28.94
		<i>Amphimonhystrella sp1</i>	0	0.67	1.3	30.24
		<i>Calligyus sp1</i>	0	0.67	1.3	31.54
		<i>Desmoscolex sp6</i>	0	0.67	1.3	32.84
		<i>Elzalia sp1</i>	0	0.67	1.3	34.13
		<i>Halalaimus lineatus sp 1</i>	0	0.67	1.3	35.43
		<i>Pareudesmoscolex sp1</i>	0	0.67	1.3	36.73
		<i>Sphaerolaimus sp1</i>	0	0.67	1.3	38.03
		<i>Amphimonhystrella sp2</i>	0	0.67	1.26	39.29
		<i>Daptonema sp1</i>	0	0.67	1.26	40.55
		<i>Leptolaimus sp5</i>	0	0.67	1.26	41.81
		<i>Sabatieria sp1</i>	0	0.67	1.26	43.08
		<i>Sphaerolaimus sp2</i>	0	0.67	1.26	44.34
		<i>Acantholaimus sp 6</i>	0.67	0	1.25	45.59
		<i>Adoncholaimus sp2</i>	0.67	0	1.25	46.84
		<i>Actinonema sp1</i>	0.67	0	1.16	48
		<i>Dolicholaimus sp 4</i>	0.67	0	1.16	49.16
		<i>Halalaimus sp 2</i>	0.67	0	1.16	50.32
<b>Apr 05 vs. Oct 05</b>	<b>1800 m</b>	<i>Aponema sp1</i>	0	1	2.72	2.72
		<i>Diploeltooides sp1</i>	0	1	2.72	5.44
		<i>Theristus sp1</i>	0	1	2.72	8.15
		<i>Theristus sp3</i>	0	1	2.72	10.87
		<i>Aegialoalaimus sp1</i>	0.33	1	2.05	12.92
		<i>Rhabdocoma sp2</i>	0	0.67	1.93	14.85
		<i>Acanthoncus sp1</i>	0	0.67	1.77	16.62
		<i>Cervonema sp1</i>	0	0.67	1.77	18.38

		<i>Megadesmolaimus sp1</i>	0	0.67	1.77	20.15
		<i>Terschellingia sp1</i>	0	0.67	1.77	21.91
		<i>Desmolaimus sp1</i>	0.67	0	1.76	23.68
		<i>Siphonolaimus sp2</i>	0.67	0	1.76	25.44
		<i>Sphaerolaimus sp2</i>	0.67	0	1.76	27.2
		<i>Acantholaimus sp1</i>	0	0.67	1.74	28.94
		<i>Amphimonhystrella sp1</i>	0	0.67	1.74	30.68
		<i>Daptonema sp1</i>	0	0.67	1.74	32.42
		<i>Halalaimus sp 1</i>	0	0.67	1.74	34.17
		<i>Longicyatholaimus sp1</i>	0	0.67	1.74	35.91
		<i>Pierrickia sp2</i>	1	0.33	1.74	37.65
		<i>Prochromadorella sp1</i>	0	0.67	1.74	39.39
		<i>Sabatieria sp1</i>	0	0.67	1.74	41.13
		<i>Syringolaimus sp1</i>	0	0.67	1.74	42.87
		<i>Campylaimus sp1</i>	0.67	0	1.62	44.49
		<i>Richtersia sp 3</i>	0.67	0	1.62	46.12
		<i>Halalaimus sp 2</i>	0.33	0.67	1.54	47.66
		<i>Amphimonhystrella sp3</i>	0.33	0.67	1.48	49.14
		<i>Theristus sp4</i>	0.33	0.67	1.46	50.6
<b>Apr 05 vs. Aug 06</b>	<b>1800 m</b>	<i>Aegialoalaimus sp4</i>	0	1	2.33	2.33
		<i>Calomicrolaimus sp4</i>	0	1	2.33	4.66
		<i>Halalaimus sp5</i>	0	1	2.33	6.99
		<i>Metadesmolaimus sp4</i>	0	1	2.33	9.32
		<i>Pierrickia sp2</i>	1	0	2.33	11.66
		<i>Quadricoma sp1</i>	0	1	2.33	13.99
		<i>Sabatiera sp 8</i>	0	1	2.33	16.32
		<i>Sphaerolaimus sp3</i>	0	1	2.33	18.65
		<i>Spilophorella sp1</i>	0	1	2.33	20.98
		<i>Actinonema sp1</i>	0.33	1	1.74	22.72
		<i>Amphimonhystrella sp1</i>	0	0.67	1.56	24.28
		<i>Chromadorella sp1</i>	0	0.67	1.56	25.84
		<i>Desmoscolex sp3</i>	0	0.67	1.56	27.4
		<i>Halalaimus sp 1</i>	0	0.67	1.56	28.96
		<i>Paralongicyatholaimus sp1</i>	0	0.67	1.56	30.52
		<i>Syringolaimus sp1</i>	0	0.67	1.56	32.08
		<i>Trefusia sp1</i>	0	0.67	1.56	33.64
		<i>Longicyatholaimus sp1</i>	0	0.67	1.54	35.18
		<i>Monhystera sp1</i>	0	0.67	1.54	36.73
		<i>Sabatieria sp1</i>	0	0.67	1.54	38.27
		<i>Sabatieria sp3</i>	0	0.67	1.54	39.81
		<i>Theristus sp3</i>	0	0.67	1.54	41.35
		<i>Desmolaimus sp1</i>	0.67	0	1.51	42.87
		<i>Siphonolaimus sp2</i>	0.67	0	1.51	44.38
		<i>Pierrickia sp1</i>	0.67	0	1.41	45.79
		<i>Richtersia sp 3</i>	0.67	0	1.41	47.19
		<i>Halalaimus sp 2</i>	0.33	0.67	1.36	48.55
		<i>Sphaerolaimus sp2</i>	0.67	0.33	1.28	49.84



		<i>Campylaimus sp1</i>	0.67	0.67	1.09	50.92
<b>Apr 05 vs. Apr 08</b>	<b>1800 m</b>	<i>Acantholaimus sp1</i>	0	1	1.99	1.99
		<i>Acanthoncus sp1</i>	0	1	1.99	3.98
		<i>Desmoscolex sp4</i>	0	1	1.99	5.98
		<i>Halalaimus lineatus sp 1</i>	0	1	1.99	7.97
		<i>Pierrickia sp2</i>	1	0	1.99	9.96
		<i>Prochromadorella sp1</i>	0	1	1.99	11.95
		<i>Sabatieria sp2</i>	0	1	1.99	13.94
		<i>Syringolaimus sp5</i>	0	1	1.99	15.94
		<i>Aegialolaimus sp2</i>	0	0.67	1.45	17.39
		<i>Desmoscolex sp2</i>	0	0.67	1.45	18.84
		<i>Endeolophos sp 1</i>	0	0.67	1.45	20.29
		<i>Sabatieria sp1</i>	0	0.67	1.45	21.75
		<i>Desmoscolex sp6</i>	0	0.67	1.34	23.08
		<i>Diploeltooides sp1</i>	0	0.67	1.34	24.42
		<i>Halalaimus longicaudatus sp 4</i>	0	0.67	1.34	25.75
		<i>Leptolaimus sp1</i>	0	0.67	1.34	27.09
		<i>Microlaimus sp2</i>	0	0.67	1.34	28.43
		<i>Pareudesmoscolex sp1</i>	0	0.67	1.34	29.76
		<i>Pselionema sp3</i>	0	0.67	1.34	31.1
		<i>Rhips sp 1</i>	0	0.67	1.34	32.44
		<i>Desmolaimus sp1</i>	0.67	0	1.29	33.73
		<i>Siphonolaimus sp2</i>	0.67	0	1.29	35.03
		<i>Sphaerolaimus sp2</i>	0.67	0	1.29	36.32
		<i>Aegialolaimus sp1</i>	0.33	0.67	1.23	37.55
		<i>Campylaimus sp1</i>	0.67	0	1.21	38.76
		<i>Pierrickia sp1</i>	0.67	0	1.21	39.98
		<i>Richtersia sp 3</i>	0.67	0	1.21	41.19
		<i>Amphimonhystrella sp1</i>	0	0.67	1.2	42.39
		<i>Daptonema sp4</i>	0	0.67	1.2	43.58
		<i>Leptolaimoides sp2</i>	0	0.67	1.2	44.78
		<i>Leptolaimus sp5</i>	0	0.67	1.2	45.97
		<i>Sabatiera sp 5</i>	0	0.67	1.2	47.17
		<i>Southerniella sp2</i>	0	0.67	1.2	48.37
<i>Spilophorella sp2</i>	0	0.67	1.2	49.56		
<i>Tricoma sp1</i>	0	0.67	1.2	50.76		
<b>Apr 05 vs. Apr 09</b>	<b>1800 m</b>	<i>Acanthoncus sp1</i>	0	1	2.11	2.11
		<i>Desmoscolex sp4</i>	0	1	2.11	4.22
		<i>Desmoscolex sp6</i>	0	1	2.11	6.33
		<i>Microlaimus sp2</i>	0	1	2.11	8.44
		<i>Pareudesmoscolex sp2</i>	0	1	2.11	10.55
		<i>Pierrickia sp2</i>	1	0	2.11	12.65
		<i>Prochromadorella sp1</i>	0	1	2.11	14.76
		<i>Spilophorella sp2</i>	0	1	2.11	16.87
		<i>Acantholaimus macramphis (sp6)</i>	0	0.67	1.49	18.36
		<i>Greffiiella sp2</i>	0	0.67	1.49	19.85
		<i>Pareudesmoscolex sp3</i>	0	0.67	1.49	21.34

		<i>Calomicrolaimus sp1</i>	0	0.67	1.44	22.78
		<i>Daptonema sp1</i>	0	0.67	1.44	24.21
		<i>Halalaimus longicaudatus sp 4</i>	0	0.67	1.44	25.65
		<i>Desmolaimus sp1</i>	0.67	0	1.37	27.02
		<i>Siphonolaimus sp2</i>	0.67	0	1.37	28.39
		<i>Sphaerolaimus sp2</i>	0.67	0	1.37	29.76
		<i>Acantholaimus sp1</i>	0	0.67	1.29	31.05
		<i>Amphimonhystrella sp1</i>	0	0.67	1.29	32.34
		<i>Desmodora sp1</i>	0	0.67	1.29	33.64
		<i>Desmoscolex sp2</i>	0	0.67	1.29	34.93
		<i>Halalaimus lineatus sp 1</i>	0	0.67	1.29	36.22
		<i>Leptolaimus sp5</i>	0	0.67	1.29	37.51
		<i>Molgolaimus sp1</i>	0	0.67	1.29	38.8
		<i>Sabatiera sp 5</i>	0	0.67	1.29	40.09
		<i>Tricoma sp1</i>	0	0.67	1.29	41.38
		<i>Campylaimus sp1</i>	0.67	0	1.28	42.66
		<i>Pierrickia sp1</i>	0.67	0	1.28	43.94
		<i>Richtersia sp 3</i>	0.67	0	1.28	45.22
		<i>Aegialolaimus sp1</i>	0.33	0.67	1.25	46.47
		<i>Theristus sp2</i>	0.33	0.67	1.12	47.59
		<i>Desmoscolex sp1</i>	0.33	0.33	0.99	48.58
		<i>Leptolaimoides sp1</i>	0.33	0.33	0.93	49.5
		<i>Pierrickia sp3</i>	0.33	0.33	0.86	50.37
<b>Apr 05 vs. Oct 05</b>	<b>&gt;2100 m</b>	<i>Halalaimus longisetosus</i>	0	10.67	9.01	9.01
		<i>Retrotheristus sp3</i>	0	7	5.93	14.94
		<i>Pierrickia sp2</i>	7	0	5.8	20.73
		<i>Desmoscolex sp2</i>	0	6.33	5.43	26.16
		<i>Acantholaimus sp4</i>	0	6	5.04	31.21
		<i>Aegialolaimus sp4</i>	0.33	5	3.87	35.07
		<i>Hopperia sp1</i>	4.67	0	3.65	38.72
		<i>Dichromadora sp2</i>	0	4	3.36	42.08
		<i>Longicyatholaimus sp2</i>	0	3.67	3.23	45.31
		<i>Halalaimus capitolatus</i>	0	3.67	3.11	48.43
		<i>Theristus sp4</i>	0	2.67	2.24	50.67
<b>Apr 05 vs. Aug 06</b>	<b>&gt;2100 m</b>	<i>Halalaimus longisetosus</i>	0	10.67	9.01	9.01
		<i>Retrotheristus sp3</i>	0	7	5.93	14.94
		<i>Pierrickia sp2</i>	7	0	5.8	20.73
		<i>Desmoscolex sp2</i>	0	6.33	5.43	26.16
		<i>Acantholaimus sp4</i>	0	6	5.04	31.21
		<i>Aegialolaimus sp4</i>	0.33	5	3.87	35.07
		<i>Hopperia sp1</i>	4.67	0	3.65	38.72
		<i>Dichromadora sp2</i>	0	4	3.36	42.08
		<i>Longicyatholaimus sp2</i>	0	3.67	3.23	45.31
		<i>Halalaimus capitolatus</i>	0	3.67	3.11	48.43
		<i>Theristus sp4</i>	0	2.67	2.24	50.67
<b>Apr 05 vs. Apr 09</b>		<i>Pierrickia sp2</i>	7	0	5.46	5.46
		<i>Microlaimus sp2</i>	0	5.67	4.52	9.99

<i>Desmoscolex sp6</i>	0	5	3.97	13.95
<i>Desmoscolex sp4</i>	0	4.67	3.74	17.69
<i>Hopperia sp1</i>	4.67	0	3.45	21.14
<i>Halalaimus longicaudatus sp 4</i>	0	3.67	2.93	24.07
<i>Molgolaimus sp1</i>	0	3.33	2.65	26.72
<i>Theristus sp2</i>	0.33	3.33	2.37	29.09
<i>Halalaimus lineatus sp 1</i>	0	3	2.37	31.47
<i>Pareudesmoscolex sp1</i>	0	3	2.36	33.83
<i>Theristus sp1</i>	0	2.67	2.15	35.98
<i>Calligyus sp3</i>	0	2.33	1.87	37.85
<i>Prochromadorella sp1</i>	0	2.33	1.86	39.72
<i>Acantholaimus sp1</i>	0	2.33	1.85	41.57
<i>Greffella sp2</i>	0	2	1.6	43.17
<i>Acantholaimus sp2</i>	0	2	1.6	44.78
<i>Spilophorella sp2</i>	0	1.67	1.35	46.12
<i>Pareudesmoscolex sp2</i>	0	1.67	1.33	47.45
<i>Aegialolaimus sp2</i>	0	1.67	1.33	48.78
<i>Synonchus sp2</i>	1.67	0	1.31	50.09

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