Project	AtlantOS – 633211
Deliverable number	7.8
Deliverable title	Integration in GEOSS
Description	Integration and usage of the GEOSS Common service registry in AtlantOS.
Work Package number	7
Work Package title	Data flow and data integration
Lead beneficiary	UniHB
Lead authors	Ketil Koop-Jakobsen and Christoph Waldmann
Contributors	WP7
Submission data	31.03.2018
Due date	31.03.2018
Comments	N/A

Last updated: 22 March 2018

Stakeholder engagement relating to this task*

WHO are your most important stakeholders?	☐ Private company If yes, is it an SME ☐ or a large company ☐? x National governmental body x International organization x NGO ☐ others Please give the name(s) of the stakeholder(s): GEOSS
WHERE is/are the company(ies) or organization(s) from?	x Your own country x Another country in the EU x Another country outside the EU Please name the country(ies): GEOSS is global and have representations in many countries
Is this deliverable a success story? If yes, why? **If not, why?**	x Yes, because we established a connection to GEOSS and made AtlantOS resources discoverable through GEOSS. GEOSS was very forthcoming in regard to collaborating with AtlantOS ☐ No, because …..
Will this deliverable be used? **If yes, who will use it?** **If not, why will it not be used?**	x Yes, to continue the integration with GEOSS. The deliverables highlight also the impediments that we currently face in order to integrate better with GEOSS ☐ No, because …..

Contents

Executive summary

The Horizon2020 project *AtlantOS* works towards facilitating a better link between the data providers involved in AtlantOS and GEOSS, as a global integrator of earth observations, and to make data providers as a community discoverable through GEOSS. A primary goal was to provide the data networks with the necessary information on GEOSS. In order to do so a workshop was held in a full-day event at the AtlantOS 3rd general assembly in a collaborative effort between AtlantOS and GEOSS and the H2020 projects COOP+ and ENVRI+. A team of three persons from GEOSS involved with technical as well as political aspects of GEOSS was invited to give lecturers and hands-on exercises at the workshop. The workshop gave the participating data providers a firsthand impression of the latest developments of the *GEOSS platform* (FKA: GEOSS common infrastructure). In connection to this workshop, GEO finalized the first edition of a comprehensive reference work called *"The GEOSS Platform – Manual n.1 – All you need to know to become a GEO Data Provider"*. This manual provides thorough guidance for data providers to the world of GEOSS and how to register and access data, and we recommend it to all data-providers in AtlantOS.

AtlantOS was registered with the GEOSS Yellow-Pages to make AtlantOS as a project and the related data resources directly discoverable in the GEOSS Portal. New features in the GEOSS portal have recently been introduced in order to specifically serve communities like AtlantOS. AtlantOS is currently in the process of exploring the possibility of making the data resources, which are declared and available in the AtlantOS catalog setup within WP7, available through a Mirror site in the GEOSS Portal. GEOSS has finalized an interoperability test showing that there are no impediments from a technical viewpoint.

AtlantOS and GEOSS have identified prioritized areas of interest, where both parties will benefit from an improved collaboration. AtlantOS can provide inputs to GEOSS for various Societal Benefit Areas (SBAs). In particular, input on maritime transport (risk assessment) is highlighted by GEOSS as an area where input is particularly needed. Both in regard to community usage of the GEOSS portal and in regard to SBAs, GEOSS is using AtlantOS as an demonstrator for the community approach, and AtlantOS have been invited to participate an upcoming GEOSS meeting to present our experience collaborating with GEOSS.

Introduction

The **Global Earth Observation System of Systems** (**GEOSS**) provides an overall framework for access to global earth observations for users, stakeholders and decision makers, globally. By offering services to make global earth observing systems' data and information freely discoverable and accessible through the **GEOSS Platform**, the benefit of these data for societies is maximized, providing critical information about the global processes driving our earth system. The scope of the Horizon2020 funded EU Projects **AtlantOS** has a well-defined common objective to strengthen the contributions to GEOSS, and thereby Europe's role in coordinated earth observations for the benefit of society.

The **AtlantOS** vision is to improve and innovate Atlantic Ocean Observations by implementing the Framework of Ocean Observing, thus creating a more systematic, cost effective and user-driven international Integrated Atlantic Ocean Observing system. GEOSS plays a central role in these efforts as a junction node where regional observations are integrated to build comprehensive transatlantic datasets. The AtlantOS community works towards improving the trans-Atlantic integration and harmonization of ocean observation resources by adapting existing observational architectures to the new requirements. These integrative efforts have enormous potential to operationalize and mobilize the existing data sources. AtlantOS aims to harmonize existing workflows and processing procedures to improve the performance of data management structures, taking full advantage of new developments in the GEOSS Platform.

One of the goals of WP7 is to delineate the role of GEOSS for the AtlantOS community and to explore and discuss the discovery, access and dissemination of project resources through the GEOSS Platform. In order to facilitate better use of the GEOSS by AtlantOS partners a workshop was organized in order to provide the data provider representatives in AtlantOS with essential knowledge and hands-on experiment to make resources available through GEOSS.

In the following sections, we give an overview of the information that was made available to the AtlantOS data providers through the GEOSS workshop and the actions that AtlantOS WP7 has initiated to facilitate a better integration with GEOSS.

GEOSS – Information for data-providers

GEO and GEOSS are closely linked entities. GEO is an intergovernmental organization working with earth observations from a global perspective and for the societal benefit of all member and non-member states. GEO constitutes a partnership between 105 countries (with more joining) that share a common vision of advancing our knowledge and understanding of the earth system through access to global earth observations in a centralized, free and open system. Furthermore, entities such as WMO, WHO, Unesco, the World Bank and POGO cooperate closely with GEO. A central and ongoing part of GEO's mission is to build the *Global Earth Observation System of Systems (GEOSS)*, ensuring that global earth observations can be accessed and used by everyone.

*"GEOSS is a set of coordinated, independent earth observation, information and processing systems that interact and provide access to diverse information for a broad range of users in both public and private sectors. **GEOSS links these systems to strengthen the monitoring of the state of the earth**. It facilitates the sharing of environmental data and information collected from the large array of observing systems contributed by countries and organizations within GEO. Further, GEOSS ensures that these data are accessible, of identified quality and provenance, and interoperable to support the development of tools and the delivery of information services. Thus, GEOSS increases our understanding of earth processes and enhances predictive capabilities that underpin sound decision-making: it provides access to data, information and knowledge to a wide variety of users." (http://www.earthobservations.org/geoss.php)*

While GEOSS' focus is not on the collection of earth observation data per se, it acts as a centralized global access point to earth observation data available in other databases, research infrastructures, academic institutions, etc. Registration by the original data providers with GEOSS enables discoverability of and access to this data through the GEOSS Portal. This provides a one-stop-shop for users to existing data across borders, scientific disciplines, and Societal Benefit Areas. This results in better accessibility and discoverability of resources from earth observation programs and initiatives facilitating better informed decision-making on a global scale, which is a prerequisite for dealing with the global environmental challenges. In this way, GEOSS provide a comprehensive and sustainable single internet access point for earth Observation data.

GEOSS – Data and Resources

GEOSS was designed to meet the need to make high quality data readily available in a timely and sustainable manner. Hence, GEOSS facilitates a fast transfer of data between the data provider and the user with minimal delay. Other resources, such as analytical tools, can also be discoverable through GEOSS. From the beginning, GEOSS has been operated with a set of data sharing principles, ensuring open and free access to the resources available. These principles have been implemented by GEO and are required of all member states, who provide a letter endorsing the implementation plan for GEOSS, and thereby also the GEOSS data sharing principles.

GEOSS Data Sharing Principles:
1. There will be full and open exchange of data, metadata and products shared within GEOSS, recognizing relevant international instruments and national policies and legislation;
2. All shared data, metadata and products will be made available with minimum time delay and at minimum cost
3. All shared data, metadata and products being free of charge or no more than the cost of production will be encouraged for research and education

(www.earthobservations.org/geoss_dsp.shtml)

These data sharing principles are in full agreement with the scope of the [AtlantOS data management plan](#)

GEOSS and the Ocean

AtlantOS has a marine focus. GEO and GEOSS are concerned with all kinds of environmental data, whether it be atmospheric, terrestrial, or aquatic. However, the strong role of the ocean on our earth system has led to a special focus on ocean observations and a need to extract information from the available data. The "Oceans and Society: Blue Planet" initiative within GEO aims to ensure the sustained development and use of ocean and coastal observations for the benefit of society. Through the GEO Blue Planet initiative, GEO has generated an initiative with specific focus on ocean observations, where GEO, in collaboration with various ocean data providers, facilitate coordination and capacity building for ocean observations. A network of scientists, marine observers and user group representatives, including international organizations, NGOs, governmental and academic institutions, collaborate to bridge the gap between data and services and deliverable information that can be directly applied for informed decision-making toward reaching sustainable development.

The GEOSS Platform (form. GEOSS Common Infrastructure)

In 2017, the GEOSS Common Infrastructure (GCI) changed its name to the GEOSS Platform and new features for communities were presented. Following essential new features in the platform, which are of relevance for the data providers involved in AtlantOS are presented. For full overview and detailed descriptions we refer to the GEOSS Platform manual .
The GEOSS Platform provides the technological tools to implement the Global Earth Observation System of Systems (GEOSS). The GEOSS Platform facilitates users to search, access and use data, information, tools and other services from various providers around the world through the Global Earth Observation System of Systems.

**The platform consists of 4 components:**

The **GEOSS Portal** is the main entry for users of environmental data and it offers a single Internet access point for all the resources regarding environmental observations including data, imagery and analytical software packages. The Portal connects the users to existing databases and Portals.

GEO DAB is a broker-component that facilitates access and interconnects the heterogeneous and remotely distributed resources contributing to GEOSS. GEO DAB *broker* services through the Application Program Interfaces (APIs), which enable data providers to share resources without changing standards and formats.

The **GEOSS Service Status Checker** is a quality assuring component of the GEOSS platform. The status checker monitor and diagnose the web services made available through GEOSS and inform data providers as well as users on the health status and reliability of the services provided by the GEOSS Platform.
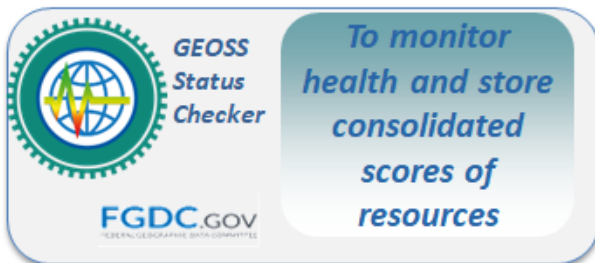
The **"Yellow Pages"** are an inventory of all the data providers in GEOSS, providing a description of the individual data providers, their logo and link to webpage. The yellow pages is also the first entry point to GEOSS, where new data providers can begin the administrative registration process of their data. After this first initial registration the GEO Secretariat leads the data providers through all following steps until the data link is fully established.

GEOSS - new features for communities

GEOSS is moving towards a more user-centric approach to data and resource sharing, which better accommodate specific user communities and their needs in terms of specific interests (eg. geographical or temporal), filtering options (displaying only selected data) and functionalities. AtlantOS is exploring these opportunities. In order to accommodate larger scientific communities like AtlantOS, recent developments of the GEOSS platform includes new features allowing communities to customize their entry to the GEOSS platform and thereby be discoverable as communities, displaying their scopes as well as their data and other resources.

GEOSS View is a feature allowing communities to define and install data filters and to display specifically defined resources relating to the communities' focus. The filtering and display of resources can also be used to ensure that data format and access follow certain criteria. This allows communities like AtlantOS, to generate a filtered display of resources coming exclusively from the partners of these communities. Furthermore, it provides the opportunity to generate thematic and spatial filters, allowing communities like AtlantOS, for example, to specifically target only Ocean data.

GEOSS Mirror is a GEOSS Portal site customization for communities as well as SBAs, Flagships, and Initiatives. It allows the community to configure a community customized entry point through the GEOSS Portal: www.geoPortal.org/community/<NameOfTheCommunity>
The customisation allows display of specific text relevant to the community, as well as text as usage of "Views" (see above) to filter and display resources relevant to the community.

GEOSS Widget allows communities to generate widgets to display essential resources. This is accomplished by publishing Portal code parts (widgets) wrapped up in API.

For more detailed information, we refer to the manual, *"The GEOSS Platform – Manual n.1 – All you need to know to become a GEO Data Provider"*, which was finalized in connection to the AtlantOS GEOSS workshop.

AtlantOS – Actions for integration with GEOSS

The workshop and its outcome

In order to facilitate better use of the GEOSS by AtlantOS partners a workshop was organized in order to provide the data provider representatives in AtlantOS with essential knowledge and hands-on experiment to make resources available through GEOSS. Key-personnel from GEOSS came to the workshop to give lectures and hold hands-on exercises:

1. *Guido Colangeli* (ESA) - GEOSS Portal Technical Coordinator
2. *Mattia Santoro* (CNR-IIA) - Responsible for GEOSS Discovery and Access Broker
3. *Douglas Cripe* (GEO Secretariat) - Work Programme Coordinator GEO Secretariat.

The workshop was organized in a collaborative effort between the H2020 projects, AtlantOS COOP+ and ENVRI+, and held in connection to the AtlantOS 3rd general assembly (See Agenda Appendix 1).

By providing this opportunity for the data providers involved in AtlantOS, we initiated a link between the data providers and GEOSS, which can last beyond the life-time of project. Furthermore, a link between AtlantOS will support GEOSS in its role as a global integrator of environmental data. The workshop also ensures that the projects fulfill their obligations to comply with the requirements of the Horizon2020 data pilot, making data fast and freely available.

The workshop gave data-providers insight into the many new functionalities of the GEOSS platform (as described above) and provided them with the knowledge and tools necessary to register and make data and services available through GEOSS. Altogether, this will facilitate a better use of GEOSS as integrator of trans-atlantic data for AtlantOS, linking data providers together across continents as well as across scientific disciplines. In addition, the workshop was used to discuss future challenges for example on how GEOSS can incorporate the large and growing volume of omics data that is available. Omics data is not in the scope of AtlantOS, but omics data is represented in the data resources provided by data providers involved in AtlantOS and future collaborative initiatives under the AtlantOS framework should focus on the implementation of these data resources. Integrating these type of data with other earth observations, such as the EOVs also generated by AtlantOS data providers could provide new opportunities for modeling and forecasting of many of the most pressing marine environmental challenges that societies are facing today.

In connection to this workshop, GEO finalized the first edition of a comprehensive reference work, providing guidance for data providers and users to GEOSS. The work is called **"[The GEOSS Platform – Manual n.1 – All you need to know to become a GEO Data Provider](#)"**. The contents of this manual formed the basis for the workshop presentations and provides essential information for all aspects of the GEOSS infrastructure, from registration as a data provider, to brokering of data resources, and to the display of data on the GEOSS Portal. AtlantOS encourages all its data providers to make use of this manual (https://www.earthobservations.org/documents/gci/201711_gci_manual_01.pdf)

An overview of the workshop agenda as available as Appendix 1.

Registration with the yellow-pages.

AtlantOS used the hands-on component of the workshop to register directly with the GEOSS Yellow-Pages. Hence, AtlantOS as a project is now discoverable, through a search in GEOSS leading to a description of the scope of AtlantOS and other project information. Furthermore, AtlantOS data resources from providers involved in AtlantOS will shortly be discoverable through a community search in the GEOSS Portal.

Making use of new features in GEOSS

AtlantOS will make use of the new opportunities in the GEOSS portal in order to generate a larger visibility as a community within GEOSS. AtlantOS has initiated the development of a mirror site, which will describe the scope of AtlantOS and link to the data resources. The data resources consists of metadata records on data services for the data providers involved in AtlantOS created in a catalog setup within WP7, named AtlantOS and implemented with the GeoNetwork component of the **Sextant** Spatial Data Infrastructure. It is the resources from this catalog that we seek to integrate in GEOSS. AtlantOS is currently in the process of exploring the possibility of making the resources in this catalog, available through a mirror site in the GEOSS Portal. In this way, the data networks involved in AtlantOS, which are available in the AtlantOS catalog, will be discoverable in GEOSS and the AtlantOS mirror, when the brokering is complete.

The set-up of a mirror is currently in its initial stage where we have filed the forms applying for the construction of a mirror site. The need for a mirror site also depends on the amount of AtlantOS resources available. GEOSS has finalized an interoperability test showing that there are no impediments from a technical viewpoint (See Appendix 3).

Improving the AtlantOS community interaction with GEOSS

It is a goal for AtlantOS to make better use of the latest development in the GEOSS platform to improve the dissemination of the projects' resources. The challenge for AtlantOS is that the data providers participating in the AtlantOS project administer a lot of data from Ocean research, but that only a fraction of these concerns the observations from Atlantic Ocean and are registered in the metadata records of the AtlantOS catalog. If the Atlantic Ocean data comprise only a fraction of the total data resources that a data provider participating in AtlantOS can provide to users, it is therefore of outmost importance that the data provider registers all its resources handled in its data system.

AtlantOS can accommodate GEOSS beyond just submitting our data resources. GEOSS primarily exert its effort on eight defined Societal Benefit Areas (SBAs), which are environmental fields, which have a marked impact on societies worldwide. These include: Biodiversity and Ecosystem Sustainability, Disaster Resilience, Energy and Mineral Resources Management, Food Security and Sustainable Agriculture, Infrastructure and Transport Management, Public Health

Surveillance,Sustainable Urban Development, and Water Resources Management. AtlantOS base its work on bringing existing Atlantic Ocean Research Infrastructures together to foster international and interdisciplinary approaches to environmental observations. Many of these infrastructures can provide valuable information in regard to specific GEOSS SBAs. AtlantOS deals with various natural and anthropogenic environmental impacts, but is limited to the marine environment. AtlantOS can therefore provide input to GEOSS on *Biodiversity and Ecosystem Sustainability*, *Disaster Resilience*, *Energy and Mineral Resources Management* and *Infrastructure and Transport Management*. In particular, maritime transport (risk assessment), as part of the SBA Infrastructure and Transport management, was highlighted by the GEOSS as an area with need of further development and input. The AtlantOS community could contribute significantly to meet this need.

Future Plans

AtlantOS will continue its collaboration with GEOSS. GEOSS is using AtlantOS as a demonstrator for the community approach, which is also shown in the news about the AtlantOS published by GEOSS on their webpage (Appendix 2). Furthermore, AtlantOS has been invited to participate in an upcoming 3rd GEO Data Providers Workshop (May 2018) to present our experience collaborating with GEOSS. In order to further engage GEOSS in the plans for improvement of ocean observations in the Atlantic Ocean, connection to GEOSS is considered in the implementation document of the AtlantOS Blueprint for an integrated Atlantic Ocean Observing System.

Appendix 1 - Workshop Agenda

Agenda GEOSS Workshop Friday Nov. 24th 2017. PLOCAN Gran Canaria, Spain:

Collaborative workshop coordinated by the EC funded projects: AtlantOS, COOP+ and ENVRIplus
Workshop Coordination Team:
Christoph Waldmann (UniHB) **-** COOP+/AtlantOS WPs Lead
Tina Dohna (UniHB) **-** COOP+ *Ketil Koop-Jakobsen* (UniHB) – AtlantOS
Robert Huber (UniHB) – ENVRIplus

Workshop GEO/GEOSS Team:
 Guido Colangeli (ESA) - GEOSS Portal Technical Coordinator
Mattia Santoro (CNR-IIA) - Responsible GEOSS Discovery and Access Broker
Douglas Cripe (GEO Secretariat) - Work Programme Coordinator GEO Secretariat

09:00 – 9:45 **SESSION 1: GEOSS GCI – General Introduction (Chair: Koop-Jakobsen)**
    Welcome introduction (Koop-jakobsen)
    09:00-09:15 Intro to GEO/ GEOSS and connection to GCI 15 (**Douglas Cripe**)
    09:15-0945: Presenting the GEOSS GCI and GEOSS Portal in its current status –Focus on new
    developments (**Guido Colangeli/Mattia Santoro**)

9:45 – 11:15 Session 2: GEOSS GCI - How to connect as a data provider (Chair Waldmann)
    09:45-10:15 Presentation of new simplified registration process - how to register with the "Yellow
    pages" *Guido Colangeli*
    10:15-10:45 How to arrange for Data Brokering process through the GEODAB. *Mattia Santoro*
    10:45-11:15 GEOSS Data Management Principles *Douglas Cripe*
    11:15 - 11:35 Coffee Break
    11.35-12:30 Presentation of a Simple Case-study on registration and use of the GEOSS
    GCI including Interoperability test case overview of solutions implemented by data providers
    Mattia Santoro
     12:30 – 13:30 Lunch *(provided)*

13:30 – 15:30 **Session 3: GEOSS ATLANTOS/COOP+ COMMUNITY approach (Chair: T.Dohna)**
    13:30-14:15 Flagship, initiatives, and community activities (*Douglas Cripe***)**
    14:15-15:00 Presentation: GEOSS Portal Mirrors, GEOSS Portal Widgets, GEOSS Views (*Guido
    Colangeli***)**
    15:00-15:30 Discussion: How can AtlantOS/COOP+ be visible as a community within GEOSS.
    Making AtlantOS/COOP+ hubs within GEOSS (a Portal within GCI showing AtlantOS/COOP+
    resources). This shall include a demonstration of what can be displayed, the functionality, and the
    requirements to set it up. This shall include a discussion on sustainability - what happens after
    projects end**.**
    **15:50-16:10 Accommodating 'Omics' Data and interoperability with other data in GEOSS (Tina
    Dohna)**
    **16:10:16:30 Discussion follows on omics but open to all aspects– Discussion: On the needs for
    Genetic data in GEOSS.**

16:30 – 17:30 Session 4: GCI Hands on experience (*Guido Colangeli, Mattia Santoro, Douglas Cripe***)**
    Hands-on exercise on how to connect with GCI – establishing the entry point.
    GEOSS representatives will guide the participants through the registration process in front of their
    laptops.

Appendix 2 - Workshop news report

AtlantOS registered in GEOSS - News - Earth Online - ESA https://earth.esa.int/web/guest/news/-/asset_publisher/G2mU/content/a...

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News

Year   Mission   Instrument

Go

AtlantOS registered in GEOSS
05 December 2017

The AtlantOS (Optimising and Enhancing the Integrated Atlantic Ocean Observing Systems) 3rd General Assembly at PLOCAN (Oceanic Platform of Canarias) in Gran Canaria provided an excellent opportunity to present the new inclusive and user-centric approach of the GEOSS Platform.

The assembly, which took place in November, allowed the participants of the workshop to get registered in GEOSS, benefitting from the new simplified registration process that was demonstrated through a hands-on approach, and to explore the GEOSS Platform opportunities and resources with guidance from GEOSS representatives from ESA, CNR-IIA and the GEO secretariat.

Data from AtlantOS, a large scale EU Horizon 2020 research and innovation project contributing to the Trans-Atlantic Research Alliance and GEO, can now be found directly from the GEOSS Portal, the front-end of the GEOSS Platform. For example the AtlantOS data products from multibeam EM122 data: METEOR cruise M127 can be found using AtlantOS as a search parameter.

These data are located in the Tropical Atlantic and regard cleaned multibeam raw data that have been quality assured and processed using QPS Qimera. Data products include ungridded soundings, bathymetric grids (150 m resolution), an area shapefile, a backscatter image (100 m resolution) as well as the ship track.

"We were very encouraged by the many questions and lively discussions during the workshop, which we feel reflect the incredible evolution that the GEOSS Platform has achieved. We hope to contribute to this momentum through further workshops and by binding the AtlantOS, ENVRI+ and COOP+ community activities further into GEOSS and GEO Secretariat activities" said Tina Dohna, from the MARUM University of Bremen, one of the co-organisers of the Workshop.

The scope of the workshop was primarily to explain how to register in GEOSS and offer individual data providers the opportunity to do so. Participants were also informed about this sustainable approach that spans beyond the life-time of the individual projects.

Data providers and users that are interested in becoming part of the GEOSS community and would like to benefit from the latest GEOSS Platform developments are invited to contact the GEO Secretariat to learn more of GEOSS and upcoming events.

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Upcoming Events

42nd COSPAR Scientific Assembly
ESA advanced training course on remote
Proba-V Symposium 2018
MicroRad 2018
2nd Mapping Water Bodies (MWBS 2018)

Next

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Fezzan Region, Libya

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GEO GROUP ON EARTH OBSERVATIONS   GEOSS Portal   esa

Data providers   AtlantOS

AtlantOS

AtlantOS

The vision of AtlantOS is to improve and innovate Atlantic observing by using the Framework of Ocean Observing to obtain an international, more sustainable, more efficient, more integrated, and fit-for-purpose system. Hence, the AtlantOS initiative will have a long lasting and sustainable contribution to the societal, economic and scientific benefit arising from this integrated approach. This will be achieved by improving the value for money, extent, completeness, quality and ease of access to Atlantic Ocean data required by industries, product supplying agencies, scientist and citizens.

The Sustainable Development Goals:

The Societal Benefit Areas:

1 of 2   06/12/2017, 13:37

Appendix 3 – report on GEOSS interoperability test for the AtlantOS Catalog

sdfav

19/02/2018

GEO DAB/SEXTANT-ATLANTOS Brokering Test Report

Version 1
Roberto Roncella, Mattia Santoro
IIA-CNR

GEO DAB/SEXTANT-ATLANTOS Interoperability Test

SEXTANT GeoNetwork URL: https://sextant.ifremer.fr/geonetwork

Tests were executed on the 16 of February 2018.

Discoverability Tests **OK**

GEO DAB harvested metadata records from GeoNetwork. Total records found: 6228 (ATLANTOS records: 28).

Note 1: Most of the records have the thumbnails. E.g. the record with id *fa750a0c-23de-4d4c-a004-e4dbc4028cc9* available at

https://sextant.ifremer.fr/geonetwork/srv/eng/csw?service=CSW&request=GetRecordById&version=2.0.2&elementSetName=full&outputschema=http://www.isotc211.org/2005/gmd&id= fa750a0c-23de-4d4c-a004-e4dbc4028cc9

has the following thumbnail information:

http://sextant.ifremer.fr/geonetwork/srv/api/records/fa750a0c-23de-4d4c-a004-e4dbc4028cc9/attachments/CH10.jpg

Accessibility /Visualization Tests **OK**

GEO DAB is able to download and visualize resources.

Note 2: Most of the records provide several access information. E.g. The record with identifier *589bfa51-2219-4cc8-a19e-83f3c3f27bb4* available at**:**

http://sextant.ifremer.fr/geonetwork/srv/eng/csw?service=CSW&request=GetRecordById&version=2.0.2&elementSetName=full&outputschema=http://www.isotc211.org/2005/gmd&id=589bfa51-2219-4cc8-a19e-83f3c3f27bb4

provides the following Online resource:

19/02/2018

EGO Web Site
http://www.ego-network.org/

GDAC FTP
ftp://ftp.ifremer.fr/ifremer/glider/v2/

EGO gliders NetCDF format reference manual
http://doi.org/10.13155/34980

EGO gliders data processing chain
http://doi.org/10.17882/45402

Note 3: At the moment of the test, several records provide a Web Map Service URL. E.g. the dataset with identifier *3df904de-e47d-4bf9-85a0-7c0942aff8b6* available at:

http://sextant.ifremer.fr/geonetwork/srv/eng/csw?service=CSW&request=GetRecordById&version=2.0.2&elementSetName=full&outputschema=http://www.isotc211.org/2005/gmd&id=3df904de-e47d-4bf9-85a0-7c0942aff8b6

provides the following Web Map Service URL:

Web Map Service URL: http://www.ifremer.fr/services/wms/odatis
Layer Name: BioARGO