ALL-ATLANTIC OCEAN RESEARCH ALLIANCE

Creating an Atlantic Ocean Community by Implementing the Galway and Belém Statements

AA-DATA2030 Report:

Webinar Series

"Showcasing selected infrastructures & services available to the All-Atlantic community"

BUILDING AN ALL ATLANTIC
OCEAN COMMUNITY
Implementing the Belém Statement

Report Identifier

Report name	**AA-DATA2030 Report: Webinar Series "Showcasing selected infrastructures & services available to the All-Atlantic community"**
Related Project title	AANChOR - All AtlaNtic Cooperation for Ocean Research and innovation
Related WP	WP5 – Common Standards for Information and Data Sharing
Joint Pilot Action name	All-Atlantic Data Enterprise 2030 (AA-DATA2030)
Related JPA Task	Task 1. Showcasing selected infrastructures & services available to the All-Atlantic Ocean community
Authors	WP5 management team

Disclaimer

Responsibility for the information and views presented in this report rest solely with the authors and do not necessarily represent those of the All-Atlantic Ocean Research Alliance, the European Union or the partners in the AANChOR Coordination and Support Action. Neither the authors or the aforementioned bodies accept any responsibility whatsoever for loss or damage occasioned or claimed to have been occasioned, in part or in full, as a consequence of any person acting or refraining from action, as a result of a matter contained in this report.

Copyright

AANChOR is a Coordination & Support Action project aimed to support the implementation of the Belém Statement. It has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 818395.

P a g e 1 | 15

ALL-ATLANTIC JOINT PILOT ACTIONS

Following a year-long collaborative process among more than 70 stakeholders at the Atlantic level, the All-Atlantic Ocean Research Alliance Multi-Stakeholder Platform, divided into 5 sub-multi-stakeholders platforms, identified more than 1000 initiatives towards strengthening marine research and innovation collaboration at the Atlantic level, 56 gaps and 79 needs/recommendations to achieve the All-Atlantic Ocean Research Alliance ambition, guided by a total of 20 Strategic Objectives, 20 Operational Objectives, and 10 Key Performance Indicators.

Based on these findings and on the idea of collaboration, alignment, and use of existing resources, they have developed six ambitious and long-term collaborative Joint Pilot Actions:

- **All-Atlantic Training Platform (AA-TP)**
- **All-Atlantic Aquaculture Technology and Innovation Platform (AA-ATiP)**
- **All-Atlantic Marine Biotechnology Initiative (AA-BIOTECMAR)**
- **All-Atlantic Data Enterprise 2030 (AA-DATA2030)**
- **All-Atlantic Blue Schools Network (AA-BSN)**
- **All-Atlantic Marine Research Infrastructure Network (AA-MARINET)**

This report was developed by the **All-Atlantic Data Enterprise 2030 (AA-DATA2030)** Joint Pilot Action, that aims at creating a one-stop, user-friendly transatlantic platform for gathering natural, social, and social-scientific data: The All-Atlantic Ocean Data Space (AAODS). AA-DATA2030 is supporting transatlantic information and data sharing in the spirit of 'open science' and the FAIR/CARE/TRUST principles. The establishment of the All-Atlantic Ocean Data Space will ensure that, in the future, all stakeholders have free access and can also contribute to relevant data, thus safeguarding sustainable stewardship of the Atlantic Ocean

This report is a deliverable in scope of JPA All-Atlantic Data Enterprise 2030, Task 1. Showcasing selected infrastructures & services available to the All-Atlantic Ocean community. The task, aimed to facilitate the use of: (1) the All-Atlantic metadata portal on GEOSS, (2) the EMODnet and/or Copernicus platforms to access and contribute to data products, and (3) the Blue-Cloud platform to share analysis pipelines and computer power. This report corresponds to AA-DATA2030 D1.1, D1.2, D1.3 and D1.4.

CONTENTS

1. Summary

Joint Pilot Action **All-Atlantic Data Enterprise 2030 (AA-DATA2030)** co-organized a series of three webinars aiming to showcase selected data infrastructures and services to stakeholders in Europe, South-America, and Africa to facilitate the use of: (1) the All-Atlantic metadata portal on GEOSS, (2) the EMODnet/ Copernicus platforms to access and contribute to data products, and (3) the Blue-Cloud platform to share analysis pipelines and computer power.

The webinars addressed the three pilot actions of AA-DATA2030, which involve distinct groups of service providers.

AA-DATA2030 decided to increase the impact of Task 1 by organizing a fourth webinar i.e. Showcasing Data Infrastructures and Operators in Africa, thus bringing a more geographically balanced approach to the task.

BUILDING AN ALL ATLANTIC
OCEAN COMMUNITY
Implementing the Belém Statement

AANChOR is a Coordination & Support Action project aimed to support the implementation of the Belém Statement. It has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 818395.

P a g e 4 | 15

2. Webinar 1 (Deliverable 1.1): Joint AtlantOC-AA-DATA2030 Ocean Hour: All-Atlantic Ocean Data space (AAODS), 12 October 2021| 14:30 – 15:30 UTC

The *Joint AtlantOS–AA-DATA2030 Ocean Hour* (https://www.youtube.com/watch?v=LLlCMlp-HiA) provided an opportunity for community engagement as part of the framework of the All-Atlantic Ocean Observing System. Importantly, it was an hour to share ideas, progress in specific topics, use cases, projects, programs, and to stimulate the growth of communities of practice.

These discussions are vital to advance information products with significant societal relevance for which quality-checked data are paramount. These include observational data sets as well as results from numerical models and other relevant sources. In all cases, standards and interoperability are key. Thus, the webinar questioned (1) how to best use data, (2) what standards and incentives are needed and (3) how to establish close collaboration between ocean observing networks and integrated service providers.

The Joint AtlantOS-AA-DATA2030 Ocean Hour: All-Atlantic Ocean Data Space (AAODS) had 85 registrations from Atlantic Ocean stakeholders, engaged in the establishment of an All-Atlantic data space.

ALL-ATLANTIC DATA ENTERPRISE 2030

Atlant**OS** Program

BUILDING AN ALL ATLANTIC OCEAN COMMUNITY
Implementing the Belém Statement

Joint AtlantOS-AA-Data2030 Ocean Hour
- All-Atlantic Ocean Data Space (AAODS) -

MEETING INFORMATION

October 12, 2021
14:30 - 15:30 PM (UTC)
Register:
https://us02web.zoom.us/webinar/register/WN_DsNImOyvTcyecvVwFk2Vbw

MEETING GOAL

The development of information products with significant societal relevance requires input from many observational data sets as well as results from numerical models and other relevant sources. Standards and interoperability are key. Thus, we need to address (1) how to best use our data, (2) what standards and incentives are needed and (3) how to establish close collaboration between ocean observing networks and integrated service providers?

UPCOMING OCEAN HOUR

November 9, 2021
"Deep Ocean Observing in the Atlantic Ocean"

OVERALL AIM

The Ocean Hour will provide an opportunity for community engagement as we develop the All-Atlantic Ocean Observing System. We will share ideas, progress in specific topics, use cases, projects, programs, and address issues in developing e.g. communities of practice.

PROGRAMME

Time (UTC)	Topic	Speaker
14:30 – 14:35	Welcome	Brad de Young
14:35 – 14:45	All-Atlantic Data Enterprise 2030 – Setting up an Atlantic Data Space for the Ocean	Olga Sato
14:45 – 14:55	Implementation ideas & next steps for the All-Atlantic metadata portal	Tina Dohna
14:55 – 15:30	Open floor / Panel discussion	Conor Delaney Jeff Cullis Marjolaine Krug Pat Hogan Othman Dekkaki Olga Sato Tina Dohna
15:30 – 16:00	Networking (wonder.me) - optional	
	Moderator: Pier Luigi Buttigieg	

SPEAKER INFORMATION

Prof. Olga Sato
University of São Paulo,
Brazil

Dr. Conor Delaney
EMODnet Secretariat
Belgium

Othman Cherkaoui Dekkaki
All-Atlantic Ocean Youth Ambassador, Mohammed V University, Morocco

Dr. Pat Hogan
National Oceanic & Atmospheric Administration, NCEI
United States

Dr. Tina Dohna
MARUM – Center for Marine Environmental Science,
Germany

Jeff Cullis
Canadian Integrated Ocean Observing System - Atlantic, Canada

Dr. Marjolaine Krug
Department of Forestry, Fisheries, and the Environment
South Africa

Dr. Pier Luigi Buttigieg
Helmholtz Metadata Collaboration (Earth and Environment) | GEOMAR, Germany

For more information visit atlantos-ocean.org
For questions please contact atlantos.program@gmail.com

BUILDING AN ALL ATLANTIC OCEAN COMMUNITY
Implementing the Belém Statement

AANChOR is a Coordination & Support Action project aimed to support the implementation of the Belém Statement. It has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 818395.

P a g e 6 | 15

3. Webinar 2 (Deliverable 1.2): BLUE-CLOUD: An open science platform for collaborative marine research across the Atlantic and beyond, 14 December 2021|15:00 – 17:30 CET

The second webinar, *Blue-Cloud: An Open Science platform for collaborative marine research across the Atlantic and beyond* (https://www.youtube.com/watch?v=UQ3pzDNssyo), aimed at showcasing the Blue-Cloud Data Discovery and Access Service as a unique search facility for data across regions and providers. Blue-Cloud deploys a web platform featuring an unprecedented wealth of multidisciplinary data repositories, analytical tools, and computing facilities to explore and demonstrate the potential of cloud-based Open Science, in the context of key European and international initiatives such as the EU Green Deal, the UN Ocean Decade and the 2030 Sustainable Development Goals. The project coordinates leading European marine research infrastructures and e-Infrastructures, allowing researchers to combine, reuse, and share quality data across disciplines and countries.

The webinar introduced four Virtual Labs available for the All-Atlantic community that demonstrate the Blue-Cloud framework i.e., *Zoo & Phytoplankton EOV Products*, *Plankton Genomics*, *Marine Environmental Indicators*, and *Global Record of Stocks and Fisheries/Aquaculture Monitor*. The panel discussion was based on the joint policy brief *Nourishing Blue Economy and Sharing Ocean Knowledge* (Horizon Results Booster) in the context of AA-DATA2030 Joint Pilot Action.

This webinar had 92 registrations from stakeholders of the Atlantic community and beyond.

Agenda of the webinar (all times CET)

- 15:00 - Welcome and introduction - Sara Pittonet Gaiarin, Trust-IT Services

- 15:10 - The Blue-Cloud Data Discovery and Access Service as a unique search facility for data across regions and providers - Peter Thijsse, MARIS (download slides)

- 15:40 - The Blue-Cloud Hackathon: 7-9 February 2022 - Julia Vera, Seascape Belgium (download slides)

- 15:50 - Introducing the Virtual Labs that demonstrate the Blue-Cloud framework, now available for third party users

    o Zoo & Phytoplankton EOV Products - Patricia Cabrera, VLIZ (download slides)

    o Plankton Genomics - Alexandre Schickele, LOV (watch video)

    o Marine Environmental Indicators - Massimiliano Drudi, CMCC (download slides)

 BUILDING AN ALL ATLANTIC OCEAN COMMUNITY Implementing the Belém Statement

AANChOR is a Coordination & Support Action project aimed to support the implementation of the Belém Statement. It has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 818395.

P a g e 7 | 15

- o Global Record of Stocks and Fisheries / Aquaculture Monitor - Anton Ellenbroek, FAO NFISI ([download slides](#))

- *16:25 - Break*

- 16:35 - Panel discussion - Nourishing Blue Economy and Sharing Ocean Knowledge

  - o Discussion based on the [joint policy brief](#) developed within the Horizon Results Booster, in the context of the AA-DATA2030 Joint Action Plan

  - o Moderator: Obakeng Molelu, Coastal and Marine Resource Development-COMRED (Kenya)

  - o Toste Tanhua, EuroSea

  - o Stéphane Pesant, AtlantECO

  - o Dr Georgios Kazanidis, iAtlantic

  - o Ivo Grigorov, Mission Atlantic

  - o Franck Le Gall, ASTRAL

  - o Rocío Castaño-Primo, TriAtlas

- 17:15 - Q&A and conclusions

- 17:30 - End

4. Webinar 3 (Deliverable 1.3): EU Marine data services for the All-Atlantic and global Ocean data spaces, 11 May 2022|15:00-17:00 CEST

The webinar *EU Marine Data Services for the All-Atlantic and Global Ocean Data Spaces* was supported by the European Commission, co-organised by EMODnet and Copernicus Marine Service, in collaboration with AA-DATA2030 (https://www.youtube.com/watch?v=MCi4BG33Qvs). The resulting recommendation states:

> *"Regional marine data services provide a vital resource for the UN Ocean Decade, offering integrated and standardised marine data, information and knowledge that underpins evidence-based ocean governance, conservation and management, scientific research, operations at sea and more. However, such data services are fully dependent on the data collection and data sharing efforts of ocean observation, marine monitoring and wider data collection initiatives. The EU marine data services EMODnet and Copernicus Marine Service and the wider community call upon all stakeholders to:*
>
> o *increase efforts to coordinate data collection e.g., in Europe through the European Ocean Observing system (EOOS);*
> o *increase the sharing of data (in situ observations e.g., marine environmental, human activity, other) with national, regional e.g., EMODnet, Copernicus Marine Service, and international data services;*
> o *build upon existing partnerships to expand the cross-regional dialogue to share best practices, know-how and work towards a global community of connected and interoperable regional marine data services, to serve the All-Atlantic and Global Ocean Data Spaces.*
>
> *Such efforts are the foundation for a future interoperable EU marine data space, All-Atlantic Data Enterprise 2030 and Global Ocean Data Ecosystem that can offer user-friendly transparent and accessible ocean data, information and knowledge for the benefit of all."*

This webinar was an approved satellite activity of the UN Ocean Decade laboratory "A transparent and accessible ocean" and had 353 registrations from all around the world.

AANChOR is a Coordination & Support Action project aimed to support the implementation of the Belém Statement. It has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 818395.

P a g e 9 | 15

A 2 HOUR ONLINE WEBINAR

Click on the replay icon to watch

Click on the PDF icon to download

❯ Opening	03:00 PM	**Welcome** Meeting Chair (3')		*Zoi Konstantinou* (EC DG MARE)	
		Opening addresses European Commission (3')		*Nicolas Segebarth* (EC DG RTD)	
		All Atlantic Ocean Data Enterprise (3')		*Olga Sato* USP (Brazil), AANCHOR CSA	
❯ Part1 Overview of the EU Marine Data Space: COPERNICUS Marine and EMODnet EC Marine Data Services	03:10 PM	**Copernicus Marine Service and EMODnet: service overview & key takeaways** (15')		*Laurence Crosnier* (Copernicus Marine Service/ MOi) & *Kate Larkin* (EMODnet)	
	03:25 PM	**Online demonstration of EU marine data services** - EMODnet (5') - Copernicus Marine Service (5')		*Conor Delaney* (EMODnet) & *Fabrice Messal* (Copernicus Marine Service/MOi)	
	03:35 PM	**Q&A** (5')		**Online Chat Q** (potential use of Sli.do throughout)	

BUILDING AN ALL ATLANTIC OCEAN COMMUNITY Implementing the Belém Statement

AGENDA
11 MAY 2022
3:00 - 5:00 PM (CET)

EU Marine Data Services for the All Atlantic and Global Ocean Data Spaces
Services and benefits offered by EU Marine Data Services
COPERNICUS Marine and EMODnet

A 2 HOUR ONLINE WEBINAR

Part2 | **03:40 PM**
Towards an All Atlantic Data Space 2030: Benefits of EU marine data services for Atlantic community

Data sharing and Use:
EMODnet – Copernicus Marine Service Use cases, data sharing and testimonials for the Atlantic Ocean Basin: Brazil, South Africa, USA, Canada, Europe
4 x 5'

1.Joint Copernicus Marine - EMODnet use case, BSO: Use of Global Ocean Model, satellite-derived and in situ data by the Brazilian Sea Observatory - *Guilherme Augusto Stefanelo Franz, Universidade Federal do Paraná,*

2.EMODnet use case, FUGRO: Use of EMODnet Bathymetry and context for Seabed 2030 - *Marco Filippone*

3.Joint EMODnet –Copernicus Marine use case: Use case for OSPAR Regional Sea Convention intermediate assessments of ecological status of the North-East Atlantic - *Helen Lillis, JNCC, EMODnet Seabed Habitats Coordinator*

4.Joint Copernicus Marine - EMODnet use case, OKEANOS: Tracking whales in the North Atlantic - *Sergi Pérez-Jorge, PhD, IMAR-Okeanos.*

04:00 PM | **Q&A** (5')

Online Chat Q (potential use of Sli.do throughout)

04:05 PM | **Panel Discussion:**
How does the marine community currently share data and what is the role of marine data services in achieving the All Atlantic Data Space 2030 and the global ocean data ecosystem? What are the next steps for regional engagement across the Atlantic Ocean Basin?

Exchange of experiences, best practice and user needs from Atlantic marine data initiatives, wider marine community

45' (5 panelists with 1 key structured Question each & Audience Q&A)

Panel Chair(s): *Othman Cherkaoui Dekkaki*, All Atlantic Ocean Youth Ambassador (AAOYA) & *Antonio Repucci*, (Copernicus Marine Service/ MOi)

Sylvie Pouliquen, IFREMER (France) / Copernicus Marine INSTAC

Jose Angel Alvarez Perez, Universidade do Vale do Itajaí – UNIVALI (Brazil)

Sissy Iona, HCMR (Greece)/ EMODnet Data Ingestion

Thierry Schmitt, SHOM (France), IHO/EMODnet Bathymetry

Anton Ellenbroek FAO

04:50 PM | Joint Pilot Action on the All Atlantic Ocean Data Enterprise 2030 (3')

Olga Sato, USP, AANCHOR CSA

Closing words, Meeting Chairs (5')

Zoi Konstantinou (EC, DG MARE)

End of meeting

In collaboration with

Approved satellite activity

---

5. Webinar 4 (Extra deliverable): Showcasing data infrastructures and operators in Africa, 24 May 2022 | 14:00 – 16:30 (South African Time)

AA-DATA2030 decided to increase the impact of Task 1 by organizing a fourth webinar i.e. *Showcasing Data Infrastructures and Operators in Africa* (https://www.leibniz-zmt.de/de/all-atlantic-data-2030.html).

This resolution (made after AANChOR WP5 Deliverable - D5.4 *Proposed Joint Actions Addressing Common Standards for Information and Data Sharing* had been approved) aimed to achieve a more balanced approach by pursuing wider participation in the establishment of the All-Atlantic data space.

Besides exhibiting important data operators in Africa, the webinar hosted a panel discussion, which addressed two burning questions: a) How do the African marine data services also benefit the All-Atlantic Community and what are the next steps for regional engagement across the Atlantic Ocean Basin? b) What are examples of experiences, best practices and user needs from Atlantic marine data initiatives, including Africa and the wider All-Atlantic Community?

The webinar *Showcasing Data Infrastructures and Operators in Africa* was a side-event of the Scientific Event under the *All-Atlantic Ocean Research Alliance 2022 Forum* (https://allatlantic2022.com), was co-organized by CSIR and ZMT, and had 51 registrations from around the Atlantic community.

ALL ATLANTIC DATA 2030

AFRICAN DATA INFRASTRUCTURES & STAKEHOLDER FORUM

Registration:

PROGRAMME DAY 1 (May 24) | 14:00- 16:30

WEBINAR "Showcasing Data Infrastructures and Operators in Africa"

TIME (SOUTH AFRICAN SUMMER TIME)	AGENDA
13:45 - 14:00	**ARRIVAL / JOINING THE WEBINAR**
14:00 - 14:05	**WELCOME** • Lucy Scott (Intergovernmental Oceanographic Commission - IOC)
14:05 - 15:05	**PART 1: OVERVIEW OF THE AFRICAN MARINE DATA SPACE** **Online Demonstration of African Marine Data Services** **Moderator: Lucy Scott (IOC)** • Belko Diallo (West African Science Service Centre on Climate Change and Adapted Land Use - WASCAL) | Burkina Faso • Tshikana Rasehlomi (Marine Information Management System - MIMS, Department of Forestry, Fisheries and the Environment) | South Africa • Claire Davis-Reddy (South African Earth Observation Network - SAEON) | South Africa • Péricles Silva (Sea Institute) | Cabo Verde • Carmen dos Santos (University of Namibe) | Angola • Igbo Juliet Kelechi (Nigerian Institute For Oceanography And Marine Research - NIOMR) | Nigeria
15:05 - 15:15	**Q&A (QUESTIONS OF CLARITY)**

BUILDING AN ALL ATLANTIC OCEAN COMMUNITY
Implementing the Belém Statement

AANChOR is a Coordination & Support Action project aimed to support the implementation of the Belém Statement. It has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 818395.

P a g e 13 | 15

ALL ATLANTIC DATA 2030

AFRICAN DATA INFRASTRUCTURES & STAKEHOLDER FORUM

Registration:

PROGRAMME DAY 1 (May 24) | 14:00- 16:30

WEBINAR "Showcasing Data Infrastructures and Operators in Africa"

TIME (SOUTH AFRICAN SUMMER TIME)	AGENDA
13:45 - 14:00	**ARRIVAL / JOINING THE WEBINAR**
14:00 - 14:05	**WELCOME** • Lucy Scott (Intergovernmental Oceanographic Commission - IOC)
14:05 - 15:05	**PART 1: OVERVIEW OF THE AFRICAN MARINE DATA SPACE** **Online Demonstration of African Marine Data Services** **Moderator: Lucy Scott (IOC)** • Belko Diallo (West African Science Service Centre on Climate Change and Adapted Land Use - WASCAL) | Burkina Faso • Tshikana Rasehlomi (Marine Information Management System - MIMS, Department of Forestry, Fisheries and the Environment) | South Africa • Claire Davis-Reddy (South African Earth Observation Network - SAEON) | South Africa • Péricles Silva (Sea Institute) | Cabo Verde • Carmen dos Santos (University of Namibe) | Angola • Igbo Juliet Kelechi (Nigerian Institute For Oceanography And Marine Research - NIOMR) | Nigeria
15:05 - 15:15	**Q&A (QUESTIONS OF CLARITY)**

AA-DATA2030 Contact Details

Main contact: Olga T. Sato, Instituto Oceanográfico (IOUSP), Praça do Oceanográfico, 191, São Paulo, SP 05508-120 Brasil

Email: olga.sato@usp.br

Web: https://allatlanticocean.org/jointaction/all-atlantic-data-enterprise-2030-

All-Atlantic Ocean Contact Details

Coordination: FCT – Fundação para a Ciência e a Tecnologia

Email: info@allatlanticocean.org

Web: http://www.AllatlAnticOcean.org/

Twitter: **@AllAtlanticO**

Facebook: **@AllAtlanticOcean**

YouTube: **All-Atlantic Ocean Research Alliance**

BUILDING AN ALL ATLANTIC OCEAN COMMUNITY
Implementing the Belém Statement