European Commission

All-Atlantic Ocean Research Forum

FROM POLE TO POLE

6 - 7 February 2020 **#AtlanticAll**

Sara Garavelli, Trust-IT Services & Blue-Cloud Coordinator

Improving the knowledge of our oceans and seas and bringing them closer to citizens

Jointly organised by Blue-Cloud, AANChOR and AORAC-SA projects and the AtlantOS program

Research and Innovation

Blue-Cloud

blue-cloud.org

- Through a **smart federation** of data resources, computing facilities,storage resources and analytical tools Blue-Cloud aims to provide researchers with access to:
  - **Blue multi-disciplinary data** from observations, in-situ and remote sensing, data products and outputs of numerical models
  - A blue **Virtual Research Environment** (VRE) with various services to support its users in undertaking world class science
- Key facts:
  - Blue-Cloud will federate existing leading European blue data management infrastructures (SeaDataNet, EurOBIS, Euro-Argo, Argo GDAC, EMODnet, ELIXIR-ENA, EuroBioImaging, CMEMS, C3S, ICOS-Marine), and horizontal e-infrastructures (EUDAT, DIAS, D4Science)
  - Blue-Cloud will showcase the impact of cloud-based science in the Blue-Cloud framework via 5 demonstrators (Zoo- and Phytoplankton EOV products, plankton genomics, marine environmental indicators, fisheries, aquaculture)

Workshop objectives

- to contribute to the implementation of the Galway and the Belém Statements by better **understanding the international data/e-infrastructure landscape** and the **needed federation efforts to accelerate the establishment of a global "Blue-Cloud"** able to effectively and efficiently **bring data at the service of society.**
- **4 round tables**
  - **TOPIC 1 How citizens can contribute to data collection/ usage.** *T. Tanhua, GEOMAR & EuroSea Coordinator & T. Carvalho, IPMA*
  - **TOPIC 2 How to connect the different data infrastructures across the Atlantic.** *S. Garavelli, TRUST-IT & Blue-Cloud Coordinator & D. Schaap, MARIS & Blue-Cloud Technical Coordinator*
  - **TOPIC 3 Industry & Ocean Data.** *B. Williams, Fugro*
  - **TOPIC 4 Communicating "*Blue science*".** *S. Moret,TBA21–Academy*

T1 How citizens can contribute to data collection/ usage

- **Key Take-aways:**
  - **Trust is key**: Feedback to citizens are key – easy systems to upload and download data – overall, it has to be fun
  - **Science support:** Citizen science should work with adequate support from scientist – engagement from both sides – best practices needed
  - **Different levels**: Going from visual observations to sensor based observations – opportunities with better and inexpensive sensors

T3 Industry & Ocean Data

- **Key Take-aways:**
  - Industry can contribute to make more data available on a **voluntary basis** and there are already several examples where this is happening e.g Seabed 2030 initiative.
  - Policy makers need to engage with Academia and Industry to establish **fit for purpose measurements to be required by legislation** for collecting ocean data and forcing it to follow the **FAIR principles**.

T2 How to connect the different data infrastructures across the Atlantic

- **Key Take-aways:**
  - **Top-down coordination actions at international level** are needed to accelerate the establishment of a global *Blue-Cloud* with engagement and funding from regional authorities
  - Relevant stakeholders are invited to contribute to the **Blue-Cloud Roadmap 2030** to provide recommendations for the future funding programmes and extend the pool of marine data infrastructures federated by Blue-Cloud
  - **Simulate Disasters** to showcase the impact of local vs global science to maximize awareness of Blue-Cloud added value

T4 Communicating *"Blue Science"*

- **Key Take-aways:**
  - Integrate siloed communication frameworks (physically & digitally)
  - Communicate scientific process & uncertainty to elevate social value
  - Develop relationships with media & overlooked stakeholders such as youth
  - Fund, evaluate, and credentialize comm strategies across platforms & scales

Thank you!

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