Towards a European Ocean Observing System (EOOS)

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What is EOOS?

An inclusive community framework for enhancing coordination and connection of Europe’s ocean observing capability:

- From physics to biogeochemistry and biology;
- From automated monitoring to citizen science;
- Driven by stakeholders, for stakeholders/users;
- Building and aligning with existing efforts;
- European capability across the global Ocean.
Why EOOS?
International and European Policy Drivers

Integrated Maritime Policy
Bioeconomy
Marine Strategy
Common Fisheries Policy
World Ocean Assessment
Convention on Biological Diversity

Blue Growth
G7

EurOCEAN Declarations 2010, 2014
UN Ocean Decade

Global climate targets

World Ocean Assessment
Convention on Biological Diversity

Marine Strategy
Common Fisheries Policy

EurOCEAN Declarations

G7

UN Ocean Decade

World Ocean Assessment
Why EOOS?

What does Europe need to untap further potential in ocean observing?

- Better Coordinated and Sustained *in situ* Ocean Observing across all actors and implementers;
- Ocean Variables Relevant to Society;
- Integrated Ecosystem Approach.
EOOS added value: sustainable ocean observing

Focus on *in situ* observations, linked to satellite observations and modelling capabilities.

- Align, integrate existing efforts
- Connect across sectors to identify synergies, collaborations
- Promote systematic and collaborative approach (towards a regular process)
By 2030, EOOS will build a coordinated and connected European ocean observation community that puts user needs at its centre, promoting European leadership, driven by stakeholders, and serving the needs of science, society, and innovation.
How?
Connecting communities
Aligning coordination initiatives

How?
Community co-design
Strategy and Implementation
Plan 2018-2022:

- Forum
- Public Consultation
- Conference
Upcoming EOOS stakeholder event

EOOS
European Ocean Observing System

CONFERENCE
Evolving the European Ocean Observing System (EOOS)
Connecting communities for end-to-end solutions

21 - 23 November 2018
Brussels, Belgium

REGISTER NOW!
www.eeosconference2018.eu/registration

*Call for Posters and Exhibits until 13 August 2018*

www.eeos-ocean.eu

This event is co-organised by the Secretariats of

With the financial support of:
Towards a regular EOOS cycle

1. Determine EOOS Requirements
2. Map existing capability
3. First EOOS cycle
4. Dialogue, co-define and business case for observing system updates
5. Implementation and track performance
6. Review and determine requirements (emerging priorities)
7. Evaluate and Assess capability
8. Community Recommendations
9. Following EOOS cycles
10. Co-define observing system updates
11. Implement and track updates
European Marine Board (EMB) Working Group

Science and Technology Foresight report Contribution to EOOS implementation (EOOS pilot project 2.1)


Figure Credit: Stefi Klein Miloslavich

http://marineboard.eu/
Key messages and Recommendations (not exhaustive list):

• Take stock of existing and emerging marine biodiversity and ecosystems research and related biological ocean observation infrastructure;

• International context: Essential Ocean Variables (EOVs) and Essential Biodiversity Variables (EBVs), support collaboration between GEO BON and GOOS frameworks, and consider additional variables where necessary;

• Engage communities including Citizen Science to increase public confidence in science, harness human resource to fill data gaps, promote value and benefits of ocean observation and emotional connectivity with the marine environment;

• Enhance biological ocean observing capacity towards an integrated ecosystem approach, enabling sustainable management of human activity in the marine environment, and contributing to the Sustainable Development Goals (SDGs).

http://marineboard.eu/
The AtlantOS H2020 project is producing a European Strategy for Atlantic Ocean Observing:

- European contribution to Atlantic Ocean Observing Blue Print (AtlantOS legacy);
- Atlantic Basin Strategy contribution to EOOS;
- Strong links with EOOS through AtlantOS Executive Board, Steering Group and Consortium partnership.

www.atlantos-h2020.eu/
www.atlanticblueprint.net/

This project has received funding from the European Union’s Horizon 2020 research and innovation program under grant agreement No 633211
Communication, dialogue and stakeholder interaction: Where next?

4TH GEO BLUE PLANET SYMPOSIUM
Our Future is Blue: Linking Ocean and Coastal Information with Societal Needs
July 2018

European Maritime Day
May 2018

EOOS CONFERENCE
Evolving EOOS: Connecting Communities for End-to-End Solutions
November 2018

GEO GROUP ON EARTH OBSERVATIONS
October 2018

EEOCEAN
Spring 2019
Thank you!

For more information, visit poster sessions:

- **EOOS** (poster 48)
- **EMB WG biological ocean observations** (poster 104)
- **H2020 AtlantOS project** (posters 37, 63, 88.....)

And visit the EOOS website: [www.eoos-ocean.eu](http://www.eoos-ocean.eu)