



International Conference

# OPERATIONAL OCEANOGRAPHY

## Serving Sustainable Marine Development

3-5 October 2017, Bergen, Norway



## Call for Abstracts

Abstract submission is now open for the 8<sup>th</sup> EuroGOOS International Conference, Operational Oceanography Serving Sustainable Marine Development, to take place in Bergen, Norway, from 3 to 5 October 2017.

### Important information

- **Abstract submission** is online at <http://eurogoos.imr.no>
- Abstracts should pertain to one of the **conference themes and topics** detailed in this announcement
- **Deadline** for submitting abstracts: 30 May 2017; All authors will be notified of acceptance/rejection by 15 June 2017
- **Full papers** of approved abstracts should be delivered to EuroGOOS by 10 September 2017, for publication in the EuroGOOS 2017 Conference Proceedings

### The EuroGOOS conference

The EuroGOOS association ([www.eurogoos.eu](http://www.eurogoos.eu)) promotes, since 1994, the development of Operational Oceanography in Europe in the framework of the UNESCO-IOC International GOOS (Global Ocean Observing System) program.

Every three years the EuroGOOS conference provides a forum of interaction between marine scientists and technologists developing operational oceanography products, and the users of these services including decision and policy-makers as well as the private sector.

The EuroGOOS conference provides the opportunity to review the present ocean monitoring and forecasting capacities including relevant services, and to identify new challenges and the underpinning science and technology priorities. The conference facilitates dialogue, experience sharing and future planning with international partners and stakeholders, towards a more coordinated response to global challenges and societal needs related to seas and oceans.

### Conference format

The two and a half day meeting will include plenary, splinter and poster sessions as well as round tables with focused discussions. The main outcomes of the conference will be summarized during the last day and key messages will be formulated. Participants will be invited to submit abstracts for their presentations, while full papers will be published in the EuroGOOS conference proceeding series immediately prior to the conference.

## Key priorities of the 8th EuroGOOS conference

Major developments have taken place in operational oceanography in recent years particularly in the enhanced networking and cooperation among ocean observing and data aggregation initiatives and in the development of the Copernicus Marine Environment Monitoring Service (CMEMS) associated products and services for users. Marine research infrastructures have in some cases transitioned to full legal entities providing robust, timely and quality assured data to the operational oceanography and wider scientific community. The polar oceans will also receive more attention in the coming years through the Year of Polar Prediction and projects including the European Commission's INTAROS project focused on the Arctic observing system. In coastal seas, there is significant activity to raise the technology readiness of key observing technologies, to enhance predictions in coastal areas, to incorporate more routine collection of biogeochemical measurements, and to provide better services to users in all European sea basins including enhanced satellite products. Acoustic technologies have developed rapidly in recent years and are increasingly used in operational oceanography.

Reflecting these developments, the key priorities of the 2017 EuroGOOS conference will be to:

- Highlight the progress in linking and aligning European ocean observing stakeholders and initiatives towards building an integrated and sustained European Ocean Observing System (AtlantOS, INTAROS, and others);
- Highlight the progress made in integrating and aggregating European marine data to enhance its societal and economic potential (Copernicus Marine Service, EMODnet, SeaDataNet, and others);
- Identify community priorities regarding the evolution of the Copernicus Marine Environment Monitoring Service;
- Evaluate the role of marine research infrastructures in the operational oceanographic system;
- Emphasise new initiatives under way for polar seas (observation and predictive capabilities);
- Explore some of the new technologies for coastal operational oceanography;
- Elaborate the role of acoustic technologies in the ocean observing system;
- Evaluate the ongoing efforts to integrate ocean observing and data initiatives at a global level, meeting the societal, policy and economic needs.

## Themes and topics

### A. In-situ and remote sensing observations: towards a European Ocean Observing System (EOOS)

- Coordination of ocean observing capacities at regional and global scale;
- The business case for in-situ ocean observations;

- Use of research infrastructures to support operational oceanography;
- In-situ observations: present and emerging technologies, new biochemical observations;
- Use of acoustic technologies in operational oceanography;
- Data management: harmonization at European and global levels;
- Satellite remote sensing for operational oceanography: new products, new sensors, new missions;
- Preparatory steps for OceanObs 2019;
- Steps to build an integrated and sustained European Ocean Observing System (EOOS).

## **B. Copernicus: evolution of the service and user uptake**

- Present and future capacities of the Copernicus Marine Service;
- Research and development: towards improved and new products;
- Short and long term user requirements;
- The in-situ and remote sensing data components of Copernicus;
- Integration among the Copernicus services.

## **C. Ocean modelling and forecasting: extending and improving predictability**

- Global, regional, shelf and coastal forecasting systems;
- Reanalysis products;
- Polar prediction capabilities;
- Assessment of forecasting skill, metrics;
- Data assimilation: new sources, new schemes;
- Ecosystem models: present and future developments;
- Next generation ocean models: coupling atmosphere, ocean and biochemistry;
- Combining models and data for environmental assessments.

## **D. Meeting end-user needs and supporting marine development**

- New operational oceanography products and services for users;
- Building an interface with users through a structured collection of and dialogue on their requirements and a service assessment process;
- Promoting the use and uptake of operational oceanographic products.

## **Conference venue**

The EuroGOOS conference will take place in Bergen at the Scandic Bergen City Hotel (Håkonsgaten 2). All practical information is available on the conference website: <http://eurogoos.imr.no>

## **More information**

The conference is organised by the Institute of Marine Research and the Nansen Environmental Remote Sensing Centre in Bergen in collaboration with the EuroGOOS AISBL Office. For more information, please visit the conference website: <http://eurogoos.imr.no> or contact the organising committee at [eurogoos@eurogoos.eu](mailto:eurogoos@eurogoos.eu)