

7th EuroGOOS conference

1st Announcement

OPERATIONAL OCEANOGRAPHY FOR SUSTAINABLE BLUE GROWTH



Lisbon, Portugal

28-30 October 2014

Celebrating 20 years of EuroGOOS



THE EuroGOOS CONFERENCE

The EuroGOOS association (www.eurogoos.eu) promotes 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 for interaction between marine scientists & technologists that develop Operational Oceanography products & services and the users & stakeholders including the private sector, decision & policy

makers. The conference provides the opportunity to review the present ocean monitoring and forecasting capacities, including relevant services, as well as to identify new challenges and the underpinning science and technology priorities. It facilitates the 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.

KEY-PRIORITIES OF THE 7TH EuroGOOS CONFERENCE

Operational Oceanography has been developing fast during the past two decades and mature services are already provided to end-users in specific areas, especially those related to the physical state of the ocean (short term forecast, safety, navigation, response to emergencies). However, the interaction with intermediate and end users for developing new services is in its infancy, espe-

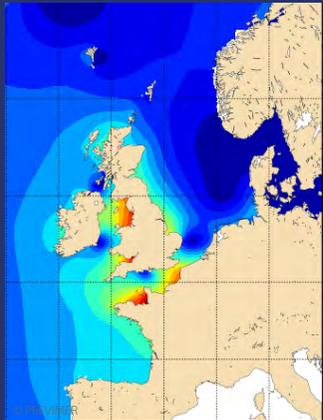
cially for those contributing to Sustainable Blue Growth that represents today a key priority for Europe. At the same time, monitoring and forecasting the biogeochemical state of the ocean is a key user requirement but represents a major scientific and technological challenge. Therefore, the key priorities of the 2014 conference will be to:

- 1 Identify new operational services and methods of interaction with users with emphasis on sustained economic growth.
- 2 Highlight the challenges of monitoring and forecasting the biogeochemical state of the seas and oceans and prioritize the required RTD with emphasis on the needs of relevant directives such as the Marine Strategy Framework Directive (MSFD) and its regional implementation.
- 3 Develop new strategies and plans for key European initiatives (Copernicus Marine Service, EOOS-European Ocean Observing System) and their links to the Global programs (GOOS, GODAE-Global Ocean Data Assimilation Experiment).



MEETING END-USER NEEDS & SUPPORTING BLUE GROWTH

- ▶ New Operational Oceanography products and services for end users:
 - ...▶ Marine Resources: Oil and gas exploration, Marine renewable energy, Aquaculture, Fisheries
 - ...▶ Marine Safety: Ship routing, Response to disasters and pollution events, Coastal defence, Search and Rescue
 - ...▶ Marine Environment: Regular environmental assessments, MSFD, Eutrophication, HABs
 - ...▶ Climate and weather applications: Long term ocean reanalysis, Seasonal forecasting, Coupled Ocean Atmosphere model
- ▶ Developing a structured dialogue with users:
 - ...▶ Establishing and updating Users Requirements
 - ...▶ Mechanisms for regular service assessment and feedback



COPERNICUS: TOWARDS A EUROPEAN CENTRE FOR OCEAN MONITORING AND FORECASTING

- ▶ 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

IN-SITU AND REMOTE SENSING OBSERVATIONS: TOWARDS A EUROPEAN OCEAN OBSERVING SYSTEM (EOOS)



- ▶ In-situ observations: present and emerging capacities; new biochemical observations
- ▶ Calibration and quality assurance methods
- ▶ Data management: harmonization at European and Global levels
- ▶ Co-ordination of national capacities at regional and global scales: filling the gaps
- ▶ Satellite remote sensing for Operational Oceanography: new products, new sensors, new missions
- ▶ Progress since OceanObs 2009
- ▶ Key elements of EOOS; design and roadmap

THEMES & TOPICS



OCEAN MODELLING & FORECASTING: EXTENDING & IMPROVING PREDICTABILITY



- ▶ Global, Regional, Shelf and Coastal forecasting systems
- ▶ Reanalysis products
- ▶ 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 its biogeochemistry; optimizing for new computing systems
- ▶ Combining models and data for Rapid Environmental Assessments

CONFERENCE FORMAT

The two and a half day meeting will include plenary, splinter and poster sessions as well as round table discussions. The main outcome 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 (more information will be provided in the 2nd announcement).

MORE INFORMATION

The Conference is organised by Instituto Hidrográfico Portugal in collaboration with EuroGOOS AISBL Office.

A second Announcement and call for Abstracts will be issued in January 2014.

For more information, please contact eurogoos@eurogoos.eu