

2nd Marine Ecosystem Analysis and Prediction (MEAP) virtual meeting

10 March 2021

Agenda

- Welcome
- Talk: "Implementing Darwin in ROMS: Initial results from regional simulations with a complex ecosystem model" by Jann Paul Mattern
- Talk: "An overview of the EU H2020 SEAMLESS project", Stefano Ciavatta
- The MEAP-TT contribution to the UN Decade of Ocean for Sustainable Development
- The new OceanPredict website
- Next events
- AOBs

The OceanPredict & MEAP-TT contribution to the UN Decade of Ocean for Sustainable Development

7. Title: **ForeSea** - The Ocean Prediction Capacity of the Future

ForeSea's vision is for strong international coordination and community building of an ocean prediction capacity for the future. The overarching goal are:

- (1) improve the science, capacity, efficacy, use, and impact of ocean prediction systems
- (2) build a seamless ocean information value chain, from observations to end users, for economic and societal benefit.

These transformative goals aim to make ocean prediction science more impactful and relevant.

GOAL 14: Life below Water: ForeSea provides physical and biogeochemical descriptions of present and forecasted water properties at all depths, enabling end users, scientists, policy makers and other stakeholders to use this crucial information for informed decision making, planning and sustaining blue growth in a healthy ocean

The OceanPredict & MEAP-TT contribution to the UN Decade of Ocean for Sustainable Development

Activities

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6. Development of an integrated description of the **4D biogeochemical state of the ocean** based on satellite and in situ observations that informs society on key issues related to ocean health and the management of marine resources (to be carried out jointly with the development of a global BGC Argo array) (Theme 1 and 2)

7. **Biogeochemical (BGC) nowcasts and ecological forecasting** as area for transformative progress addressing from stakeholder needs ranging from carbon accounting to ecosystem health (Theme 1 and 2)

8. **Maximizing the impact and value of observations** - see supporting document in section 41 on the proposed project entitled "*Synergistic Observing Networks for Impactful and Relevant Ocean Predictions (SynObs)*"

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10. Advancing use of ocean prediction technologies in weather and climate predictions, including use of earth system models (ESMs), **coupled data assimilation techniques, and machine learning/AI** (Theme 2)

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12. Integrated short-term and sub-seasonal to seasonal predictions in the **coastal zones** (including probabilistic products) that can assist institutional and private services towards sustainable management of marine resources, preparedness and response to hazards, marine safety and search and rescue operations (collaboration with **CoastPredict**) (Theme 1 and 2)



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About



A science network to accelerate, strengthen and increase the impact of ocean prediction

OceanPredict is a science programme for the coordination and improvement of global and regional ocean analysis and forecasting systems. It provides a platform for communication and knowledge exchange run by scientists and experts in operational oceanography from around the world to accelerate, strengthen and increase the impact of ocean prediction.

History & motivation

Ocean prediction is an essential component in the provision of routine oceanographic information for decision making purposes (defined as operational oceanography). GODAE, GODAE OceanView and now OceanPredict deliver the support and expertise for a coordination and leadership in consolidating and improving global

Strategy

Our oceans are under threat from many different stressors, mostly man-induced, and we need to protect and preserve it for future generations. To operate in the ocean and make use of its resources in a sustainable and efficient manner, describing and predicting the ocean is essential.

About

- History & Motivation
- Strategy
- Partners
- Organisational Structure

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Please send feedback to Kirsten: kirsten.wilmer-becke@metoffice.gov.uk

Next events

- 3rd MEAP-TT virtual meeting: June 2021
- vEGU21: Gather Online | 19–30 April 2021: CMEMS session on Wed 28 April, 9h-15h.
- Joint ECMWF/ OceanPredict Workshop on Advances in Ocean Data Assimilation
ECMWF, Reading, UK17-20 May 2021
- The second international Operational Satellite Oceanography Symposium (OSOS-2), on 25-27 May 2021
- AMEMR conference, Plymouth, UK: 12-15 July 2021 – deadline abstracts: 5 January 2021
“Connecting Models, Data and Analyses: Using computational techniques to improve the extraction of knowledge from our models.”