SYMPOSIUM OP'24

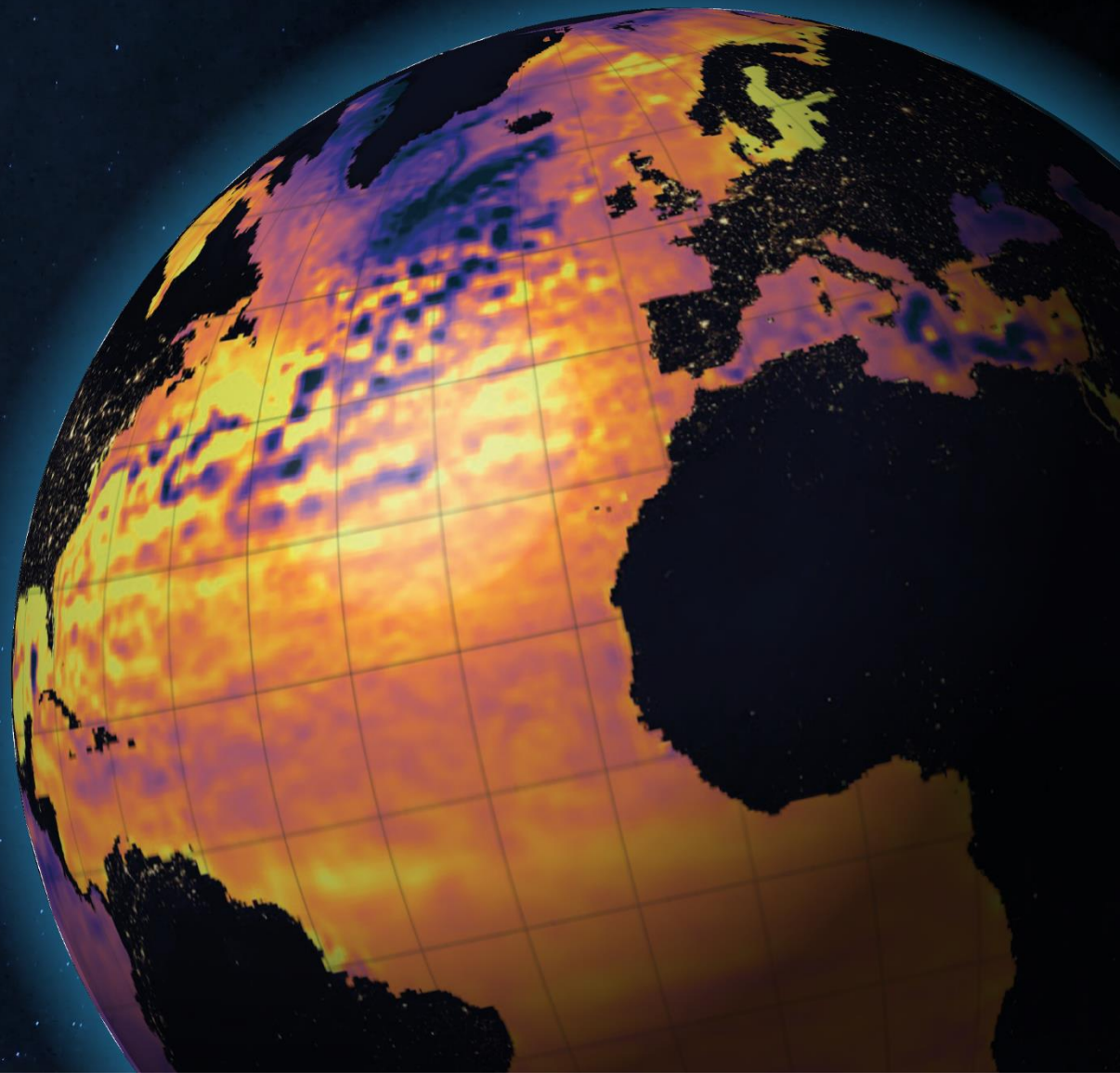
Ocean Predict

In partnership with unesco Intergovernmental Oceanographic Commission

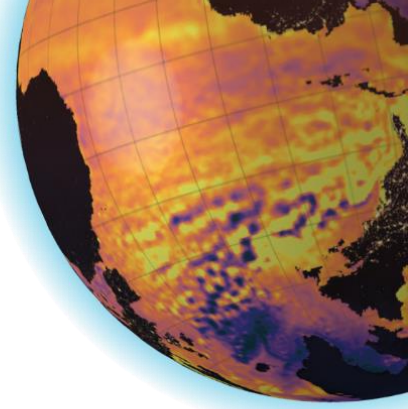
2021 2030 United Nations Decade of Ocean Science for Sustainable Development

Introducing the OceanPredict'24 Symposium

Eric Chassignet on behalf of the organizing and scientific committees



OP'24 KEY PRIORITIES

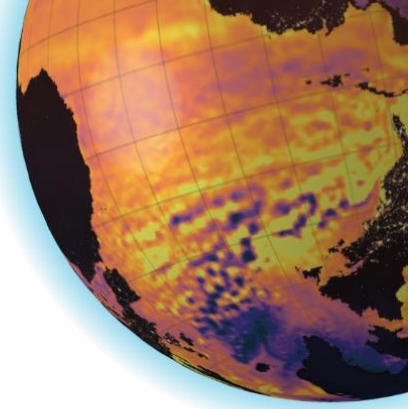


The goals are to

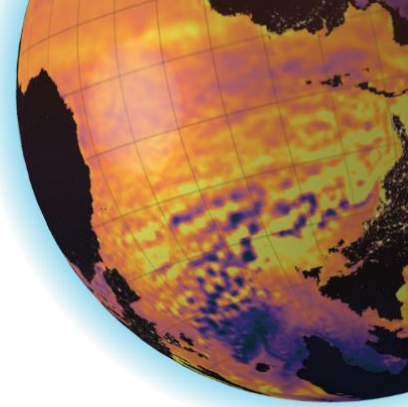
1. **accelerate the evolution of ocean prediction and operational oceanography;**
2. **identify the growing and changing needs of users and how to enhance service delivery**;
3. **align the objectives of the ocean prediction community with the goals of the UN Decade of Ocean Science for Sustainable Development** (UN Ocean Decade, 2021-2030) in collaboration with **Ocean Predict** and the **Ocean Prediction Decade Collaborative Center** and connecting with all relevant decade bodies and initiatives.

OP'24 will advance the **ForeSea programme** in its effort of international coordination and community building for future ocean prediction capacity.

OP'24 KEY OBJECTIVES

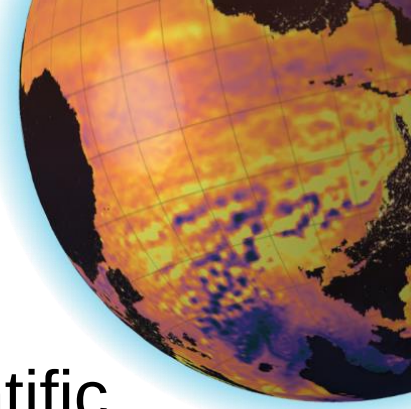


- Assessment of the science of ocean prediction worldwide and their contribution to societal benefits;
- Articulate the needs for and the benefits of ocean observations for ocean prediction and societal impact;
- Support the development and maturation of the full-length operational oceanography value chain, from observations to end users, by using best practices and coordinating the integration of existing and new partners (international science initiatives and intergovernmental organizations);
- Make ocean prediction science more impactful and relevant by collaborating with socioeconomic experts and stakeholders to quantify the impact and utility of ocean prediction for science and society, especially in coastal and polar areas;
- Encourage the participation of developing countries and early career scientists.



What are OceanPredict and ForeSea?

OceanPredict: The science behind ocean prediction



- OceanPredict is an international science programme for the scientific development, implementation, validation, and exploitation of operational global and regional ocean 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.

GODAE
GLOBAL OCEAN DATA ASSIMILATION EXPERIMENT

GODAE OceanView

OceanPredict
Advancing the science of ocean prediction

Ocean Predict

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OP'19 symposium in Halifax

OceanPredict task teams regularly exchange on ocean prediction science and on worldwide ocean forecasting centres latest developments

- Coupled prediction
- Marine ecosystems analysis and prediction
- Intercomparison and validation
- Coastal ocean and shelf seas
- Observing system evaluation
- Data assimilation

Science communication & outreach

OP newsletter
Decade actions

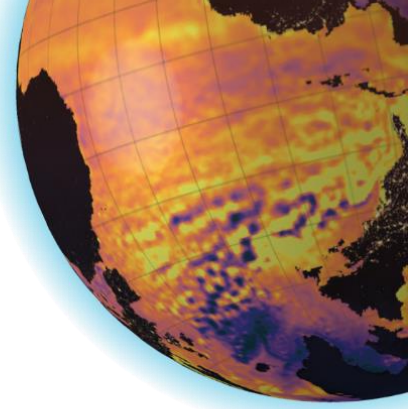
Ocean Prediction Capacity of the Future
ForeSea

OPOS ocean forecasting systems working group

Common practices in ocean forecasting -> operational standards for
OceanPrediction-Decade Coll. Centre OP-DCC

Ocean Prediction UN DECADE COLLABORATIVE CENTRE

ForeSea is OceanPredict's legacy for the UN decade

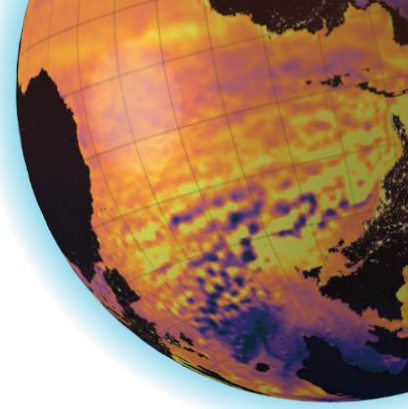


Ocean Prediction Capacity of the Future

ForeSea

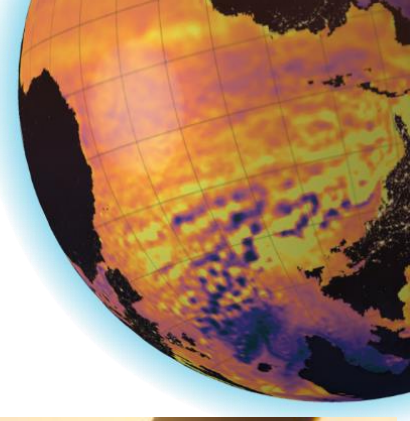
- Advancing the science, capacity, efficacy, use, and impact of ocean prediction systems
- Impactful, relevant, integrated and interconnected ocean prediction systems
- Contributing to a seamless end to end ocean information value chain

ForeSea: Transformative



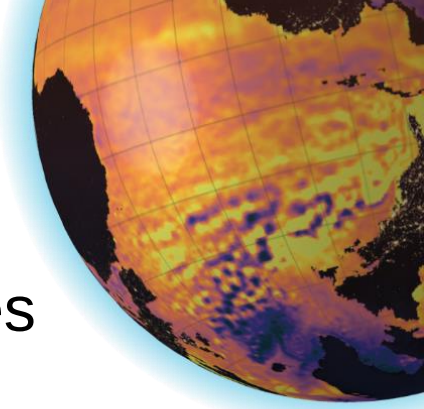
- **OceanPredict:**
  - International coordination mechanism across national centers to exchange on and improve ocean prediction system science
- **ForeSea's Vision:**
  - Strong international community building of the ocean prediction of the future that:
    - advances ocean prediction science, but also
    - increases capacity, efficacy, use, and societal impacts of the ocean predictions systems.
  - A collaborative and sustainable oceanography ecosystem responsive to user needs.

ForeSea: Transformative and beyond "business as usual"



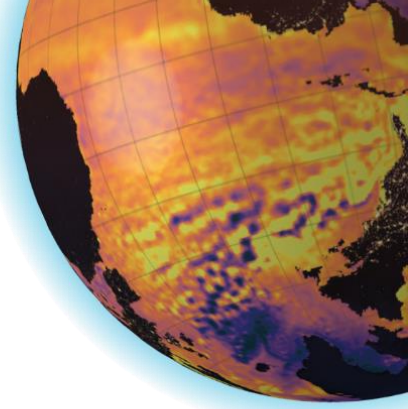
- Democratization of ocean information to enable more impactful engagement
- Creation of an effective and sustainable operational oceanography ecosystem environment responsive to user needs.
- Establishment of a framework for operational oceanography (collaboration with Ocean Prediction DCC) that enables scientists and stakeholders to engage and collaborate with
    - all components of the value chain and
    - the UN Decade programmes associated with these components
- Enhancement of communication of the impact and relevance of ocean prediction

OP'24 EXPECTED OUTCOMES



- Collection of a cohesive list of science-based actions and opportunities that support the relevant Programmes of UN Ocean Decade for Sustainable Development;
- Mechanisms to facilitate collaboration on ocean prediction between operational oceanographers around the world.
- Participation in the Symposium by a broad spectrum of ocean and atmospheric scientists and specialists, including from developing countries and early career scientists.
- Enhanced awareness by industry representatives, service providers and intermediate and end users of present capacity and providing a path for improved future engagement in operational oceanography.

Symposium OP'24 FORMAT



- The four-day symposium includes plenary, splinter, and poster sessions, as well as round tables with focused discussions.
- The plenary session for each theme includes inspirational keynote lectures focusing on science topics underpinning UN Ocean Decade activities and providing an overview of the research community's current focus and vision for the future. Associated splinter sessions will be focusing on the symposium themes and discuss the progress in operational oceanography at the research level.
- Town hall events on key topics with podium discussions and opportunities for active participation by the audience.
- Additional events (training sessions, poster sessions and social gatherings) will enable informal interaction throughout the week.

PERSONAL RECOMMENDATIONS

- Mingle
- Introduce yourself to at least five people you have never met each day
- Science is fun, so enjoy yourself!
- Do not forget to come to our group photo at 12:30 today right before lunch. Follow the crowd! One of our goal is to show that attendance is larger than at OP’19…

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SYMPOSIUM OP'24
ADVANCING OCEAN PREDICTION
SCIENCE FOR SOCIETAL BENEFITS
Thank you!
European Commission
Copernicus Marine Service
EU4oceanobs
INTERNATIONAL OCEAN GOVERNANCE
EU COMPONENT TO GLOBAL OCEAN OBSERVATIONS
esa
cnes
CENTRE NATIONAL D'ÉTUDES SPATIALES
Met Office
NERSC
MERCATOR OCEAN INTERNATIONAL
Australian Government
Bureau of Meteorology
Canada