JOINT MONGOOS & OCEANPREDICTION DCC MEDITERRANEAN AND BLACK SEA REGIONAL TEAM

WORKSHOP ON OCEAN FORECASTING AND ITS APPLICATIONS IN THE MEDITERRANEAN SEA: PRESENT STATUS, GAPS AND WAYS FORWARD

NOVEMBER 15TH AND 16TH, 2023

VENUE: NATIONAL SCHOOL OF MANAGEMENT OF TANGIER MOROCCO

OBJECTIVE OF THE WORKSHOP

The Intergovernmental Oceanographic Commission (IOC) "Ocean Decade implementation plan" states seven outcomes required for the 'ocean we want', being the fourth "a predicted ocean where society understands and can respond to changing ocean conditions". To facilitate the achievement of this goal, the IOC has endorsed Mercator Ocean International to implement the **OceanPrediction Decade Collaborative Center (DCC)**, a cross-cutting structure that will work to develop global-scale collaboration between Decade Actions related to ocean prediction.

At the same time, **MonGOOS** is the GOOS regional alliance for the Mediterranean, focused on promoting and developing operational oceanographic services in the region. To achieve its goals, OceanPrediction DCC is constructing a transversal community around ocean forecasting, structured around regional teams. The one for the Mediterranean and Black Sea will have as focal point the modelling working group of MonGOOS.

As a result of this collaborative framework, this workshop on ocean forecasting represents the first meeting of the Mediterranean and Black Sea OceanPrediction DCC Regional Team.

Considering the Mediterranean Sea is characterised by a large variety of complex processes occurring on a wide range of spatiotemporal scales. The modelling community has continuously progressed in developing numerical systems that can provide systematic information on the evolutions of essential ocean variables. A variety of models are implemented fot the area by means of different methods and parameterizations properly designed to deal with the representation of specific processes, leading to the development and consolidation of a wide range of scientific and societal applications.

This workshop has the main aim to provide a wide overview of the present status of the Mediterranean Sea predictions capabilities and applications to highlight gaps and ways forward.

WORKSHOP TOPICS

This Workshop invites contributions that address the Mediterranean Sea prediction capabilities and applications of the physical (hydrodynamics and wind waves) and biogeochemical components of the Mediterranean Sea from regional, local and coastal scales.

The sessions will focus on the presentation of the **actual status and recent advancements on model capabilities** in terms of: resolution, representation of physical processes and parameterizations, better use of external forcing fields (i.e. atmospheric data, rivers and boundaries), data assimilation, machine learning techniques, assessment of forecast uncertainties and forecast skill. Presentations dealing with downstream applications, including support to policies and directives, as well as contributions focusing on capacity development and ocean literacy are welcome. A session will be dedicated to the identification of **gaps and ways forward** to improve the Mediterranean Sea forecast capabilities through breakout brainstorming.

A session will provide students, early career researchers as well as expert attendees with hands-on **training on marine biogeochemistry data assimilation**, by means of the "Ensemble Assimilation Tool" developed by the Horizon 2020 SEAMLESS project (EU grant agreement No 101004032).

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REGISTRATIONS AND ABSTRACTS SUBMISSION

Registrations and Abstracts must be submitted at the following link: https://forms.gle/Y98StDXjUKcP2Z5q9

Each author may submit one abstract (max 1500 chr) to each session.

The workshop will be held in **hybrid mode**, except for the hands-on session

IMPORTANT DATES

09.10.23 Deadline registration & abstract submission

27.10.23 Acceptance Communication

The workshop will be preceded by the MonGOOS General Assembly on November 14th

ABOUT THE WORKSHOP

Chairs
Vanessa Cardin (OGS, Italy)
Karim Hilmi (IOC, Morocco)

Scientific Commitee
Vanessa Cardin (OGS, Italy)
Emanuela Clementi (CMCC, Italy)
Enrique Alvarez (MOi, France)
Stefano Ciavatta (MOi, France)

Local Organisers
Hinde Cherkaoui Dekkaki (UAE, Morocco)
Ahmed Maghni (UAE, Morocco)
Abdeslam Chraibi (UAE, Morocco)
Hicham Chairi (UAE, Morocco)
Karim Hilmi (INRH, Morocco)

MonGOOS Mission

The Mediterranean Operational Network for the Global Ocean Observing System (MonGOOS) aims to develop operational oceanography in the Mediterranean Sea.
Its strategy is based on 4 pillars: advancing marine science, promoting visibility and recognition of services, improving capacity building supporting knowledge transfer among partners, and increasing downstreaming for social benefits.

MonGOOS http://mongoos.eu

OceanPrediction DCC

The OceanPrediction Decade Collaborative Center, hosted by Mercator Ocean international, is a cross-cutting structure that will work at a global scale to develop collaboration between Decade actions and connect the world around Ocean forecasting.

OceanPrediction MEDITERRANEAN AND BLACK SEA

OGS National Institute of Oceanography and Applied Geophysics · cmcc Centro Euro-Mediterraneo sui Cambiamenti Climatici · MERCATOR OCEAN INTERNATIONAL · جامعة عبد المالك السعدي Université Abdelmalek Essaadi · INRH المعهد الوطني للبحث في الصيد البحري Institut National de Recherche Halieutique · ENCG Tanger · SEAMLESS

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PRACTICAL INFORMATION

HOW TO GET TO TANGIER

Directly by plane: Tangier airport is 14 km from the city center.
If you can't find direct flights to Tangier, you can look for other airports such as Casablanca or Rabat and then take the high-speed train (https://www.oncf-voyages.ma/)

VENUE

National School of Management of Tangier Morocco

OTHER USEFUL INFORMATION

All meals during the meeting will be provided by the organizers. Other expenses of the participants (hotel, travel, etc.) will not be covered.

Please note that you will need a passport to enter Morocco. It is strongly recommended to bring your own computer for the practical session.

SUGGESTED HOTELS

Hotel	Star	Person/night with BF	Location
Ibis Tanger City Center	***	50 €	
El Oumnia Puerto & Spa	****	92 €	
Pestana Tanger - City Center Hotel Suites	****	110 €	
Grand Hotel Villa de France	*****	118 €