



WORKSHOP Workshop and GENERAL ASSEMBLY 2021

“MONGOOS: 10 Years of Operational Oceanography in the Mediterranean Sea - Towards a Full Ocean Data Integration”

26-28 October 2021
Digital event

The Mediterranean Sea is being impacted by several acute stressors such as frequent extreme events and geohazards, the vulnerability of the ecosystems, the over-exploitation of biological resources and of seabed, the severe pollution events and limited remediation actions and the uneven protection of coastal infrastructures and populations, all amplified by the ongoing climate changes. A strong knowledge base and predictive capacities are therefore required to achieve an economic, environmental and societal sustainability of Blue Growth in the Mediterranean area and to advance the knowledge about its role in the Earth system, its impact in our well-being and in the ecosystems. To achieve this goal, ocean science relies on an increasing amount of data from disparate sources (i.e. multi-platform, interdisciplinary in-situ data, satellite and modelling products), where their integration is crucial for improving the knowledge and for an ultimate deliver of the science-based solutions for different stakeholders.

It is now ten years since the Mediterranean Oceanographic Network for the Global Ocean Observing System (MONGOOS) was established to further develop operational oceanography in the Mediterranean Sea. This workshop has the aim to capitalize these ten-years of achievements to meet challenges of the UN Decade of Ocean Science for Sustainable Development that will contribute to shape the future of the oceans.

The **OBJECTIVE OF THE WORKSHOP** is to integrate science-based knowledge and to promote solution-oriented research in the Mediterranean Sea. Established in 2012, this year’s workshop marks the 10th anniversary of MONGOOS.

PROGRAMME - The workshop is a 2-day online event, organised around oral presentations, poster exhibitions and informal discussions. The workshop language is English.

Registration and further information will be available from the 1st of September.

The General Assembly will take place on 28 October 2021 [CET (Paris): 9.00-13.30H | 14.30-16.30 H]

Link to register <https://forms.gle/WTroL2VygQAMRnxu8> - **Deadline 22 October 2021**

ORGANIZING COMMITTEE

Emma Reyes (SOCIB)
IVICA VILIBIC (Ruđer Bošković Institute)
Pablo Lorente (Puertos del Estado)
Vanessa Cardin (OGS, Italy)
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CONTACTS

If you have any questions related to the workshop please do not hesitate to contact us at mongoos_workshop2021@inogs.it





MONGOOS: 10 Years of Operational Oceanography in the Mediterranean Sea

Towards a Full Ocean Data Integration

A virtual and free workshop to integrate science-based knowledge and to promote solution-oriented research in the Mediterranean Sea.

PRELIMINARY PROGRAMME

| | | 26 October 2021 | 27 October 2021 | 28 October 2021 |
|--------------------------------|--------|--------------------------|--------------------------|---|
| | | Workshop – Day 1 | Workshop – Day 2 | General Assembly |
| | | Session 1 | Session 3 | Title / Chair |
| 09:00 – 11.00 (Paris time) | Part 1 | Welcome (15 min) | Talks by attendees | Welcome |
| | | Talks by attendees | | Keynote invited talk |
| | | | | |
| | | Session 2– Title / Chair | Session 4– Title / Chair | Title / Chair |
| 11:30 – 13.30 CET (Paris Time) | Part 2 | Talks by attendees | Talks by attendees | Invited presentations Working groups Challenges Next workshop announcement |
| | | | Poster session (45 min) | |
| | | | Discussion (45 min) | |

Notes:

- Each day of the workshop includes 2 sessions of 2 hours duration per day.
- Each talk time slot will include 12 min presentation + 3 min for questions & discussion

Session 1 (Oral) – Multi-platform, integrated, fit-for-purpose and sustained ocean observations in the Mediterranean Sea

Topics to be covered:

- Climate changes and variability in the Mediterranean Sea
- Innovative sensors, low-cost new platform, algorithms, and methodologies for ocean observation.
- Observations, observing networks, multiplatform measurements, and monitoring programmes in the Mediterranean Sea
- Coastal Marine Protected Areas as living laboratories in the Mediterranean Sea

- Human and natural coastal environmental threats in the Mediterranean Sea
- Mesoscale and sub-mesoscale variability in the Mediterranean Sea.
- Data management, harmonization strategies and challenges.

Session 2 (Oral) –Basin-wide and coastal modelling systems in the Mediterranean and their applications

Topics to be covered:

- Model-data integration through data assimilation.
- Multi-model intercomparison exercises in the Mediterranean Sea.
- From regional to coastal models in the Mediterranean Sea.
- Model coupling and predictions to address complex interactions.
- Ensemble forecasting and other techniques for uncertainty quantification.

Session 3 (Oral) - Science-based downstream services and user-uptake in the Mediterranean

Topics to be covered:

- Policy-related (e.g. MSFD, European Green Deal, etc) use cases.
- Living and non-living marine resources (Aquaculture & Fisheries; Renewable Energy; Oil and gas; Tourism and sport activities, etc)
- Maritime safety and pollution (Ports & Navigation; Marine Plastic & Pollution; HAB early warning)
- Climate Change risk tools (Ocean Health, Climate Adaptation, Coastal Risk Tools, Marine & Terrestrial heat waves prediction, etc)
- Multi-hazard early warning systems

Session 4 (Oral) Ocean literacy, citizen science, education, public outreach: A way towards healthier Mediterranean Sea

Topics to be covered:

- Marine Education programs in the Mediterranean Sea
- Citizen's Science, local and indigenous knowledge in the Mediterranean Sea
- Success stories of Ocean Literacy activities in the Mediterranean Sea
- Public engagement and outreach

Poster Session