

# 9th MONGOOS WORKSHOP 24-25 NOVEMBER 2020



## WORKSHOP

### ***New ocean observation approaches for a blue Mediterranean Sea: physical and biogeochemical systems, data and model assimilation***

<https://zoom.us/j/4687334290?pwd=ZkxUZWhRK2tCMlE5MDUyakxRekcyQT09>

ID de réunion : 468 733 4290

Code secret : xV1zgp

### ***MONGOOS Workshop virtual meeting rules***

- *All speakers have 12 min for presentation and 3 minutes for the questions.*
- *All participants must switch off their microphone and camera during the conference. Questions are welcome at the end of presentations (activating microphone and camera): please write in chat your intention to ask a question (or raise hand on Zoom) and the moderator will give you the floor*

### **Tuesday 24<sup>th</sup> November (9h-13h)**

#### **9:00-9:15 Introduction & objectives of the workshop (V. Cardin & L. Coppola)**

#### **Session 1: Physical and biogeochemical approaches for integrated observing systems – Part 1 (moderator A.Orfila)**

9:15-9:30 Climatological distribution of dissolved inorganic nutrients in the Western Mediterranean Sea (1981-2017) M. Belgacem (CNR-ISMAR), J. Chiggiato, K. Schroeder, A.Barth, C.Troupin, B.Pavoni

9:30-9:45 Characterization of the AW and LIW in the Mediterranean Sea from Argo floats Fedele G. (OGS), Mauri E., Notarstefano G. and P.M. Poulain

9:45-10:00 Long term monitoring program of changes in the deep sea: examples from two Mediterranean channels S. Ben Ismail (INSTM), K. Schroeder, J. Chiggiato, M. Borghini, S. Sparnocchia

10:00-10:15 Mediterranean 3D chlorophyll and temperature reconstruction from satellite data through a deep neural network M. Sammartino (CNR-ISMAR), B. Buongiorno Nardelli, S. Marullo, R. Santoleri



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10:15-10:30 Evolution of dissolved oxygen, nutrients and carbonate system variables in the North-Western Mediterranean Sea using a machine learning method M.Fourrier (LOV, Sorbonne Univ.), L.Coppola, F.D'Ortenzio

10:30-10:45 Artificial neural network for a better wave prediction R. Goldman (IOLR)

*Break 10:45-11:00*

### **Session 2: Physical and biogeochemical approaches for integrated observing systems - Part 2 (moderator V.Cardin)**

11:00-11:15 Regional impact of the wind and waves on the Mediterranean Sea surface currents V. Morales-Márquez (IMEDEA)

11:15-11:30 The Atlantic forcing of the Mediterranean coastal ecosystem of Morocco Makaoui Ahmed, I. Bessa (INRH), A. Agouzouk, M. Idrissi, Y. Belebchir, K. Hilmi, O. Ettahiri

11:30-11:45 The coastal Crete downscaled forecasting system K. Spanoudaki (FORTH), G. Zodiatis, N. Kampanis, M-L. Quarta, M. Folegani, G. Galanis, M. Nikolaidis, A. Nikolaidis

11:45-12:00 Marine numerical and observational environment in Slovenia M. Licer (NIB), M. Jeromel, B. Čermelj, A. Fettich

12:00-12:15 Experiments with new low-cost drifters suitable for areas affected by river and oil plumes Y. Androulidakis (Thessaloniki Univ.), Y. Krestenitis, V. Kourafalou, V. Poulakas

12:15-12:30 The Al Hoceima Odyssey Marine Observatory in the Moroccan Mediterranean Sea Nibani H (ODYSSEA), K. Hilmi, A. Rabhi, M. ElBekkali, A. Rhait, L. Beguery and G. Sylaios

### **Wednesday 25<sup>th</sup> November (9h-13h)**

#### **Session 3: New progress towards sustainable observations of biology (moderator L.Coppola)**

9:00-9:15 Biodiversity of the meso-zooplankton population along the Moroccan Mediterranean Coast M. Reda Benallal (Hassan II University, NIRF), O. Ettahiri, Y. Goliat, L. Somoue, S. Charib, H. Abdelouahab, M. Idrissi, T. Baibai, A. Agouzouk, A. Makaoui, K. Hilmi, A. Errhif

9:15-9:30 Ecological study of Phytoplankton in the Moroccan coast of the Mediterranean Sea H. Idmoussi (Hassan II University, NIRF), L. Somoue, A. Makaoui, O. Ettahiri, K. Hilmi, A. Errhif

9:30-9:45 Observing the biology of the ocean through an integrated genomic and imaging approach L.Guidi (CNRS), F.Not, J-O.Irisson, F.Lombard

9:45-10:00 Fixed point open ocean observatories support the analysis of long-term zooplankton patterns L. Ursella, (OGS) R. Bozzano, V.Cardin, S. Pensieri, J.Sheinbaum



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### *Break 10:00-10:15*

#### **Session 4 Session 4: Data integration and physical-biogeochemical model capabilities (moderator G.Coppini)**

10:15-10:30 EMODnet chemistry online data extraction, visualization and analysis with webODV S. Mieruch (AWI), R. Schlitzer, A.Giogetti, C. Altobelli

10:30-10:45 HF radar monitoring of low-lying Ebro Delta during the record-breaking Storm Gloria P. Lorente (PdE), E. Reyes, M. García-León, J. Lin-Ye, M.G. Sotillo, E. Álvarez-Fanjul

10:45-11:00 Beam attenuation coefficient measurements in the Eastern Mediterranean Sea V. C. Metheniti (NKUA), A. P. Karageorgis, N. Kampanis, S. Sofianos

11:00-11:15 Biophysical Machine Learning models for the Mediterranean Sea G. Sylaios (DUTH), D. Effrosynidis, A. Arampatzis

### *Break: 11.15-11.30*

11:30-11:45 ISPRA monitoring and forecasting system: what's going on ? S. Morucci (ISPRA), A. Bonometto, G. Nardone, E. Coraci, F. Crosato, M. Picone, A. Orasi, M. Ferla

11:45-12:00 IBISAR: one year of supporting emergency response at sea E. Reyes (SOCIB), A. Révelard, B. Mourre, P. Rotllán, I. Hernández, A. Rubio, P. Lorente, C. De Lera Fernandez, J. Mader, E. Álvarez-Fanjul, J. Tintoré

12:00-12:15 Recent applications of the WMOP data-assimilative modelling system B. Mourre (SOCIB), J. Hernández-Lasheras, A. Santana, E. Aguiar, M. García Jove, A. Révelard, E. Reyes, L. F. Ruiz-Orejón, N. Zarokanellos, E. Cutolo, I. Ruiz Parrado and J. Tintoré

12:15-12:30 The CMEMS Mediterranean systems latest upgrades: description and skill assessment E. Clementi (CMCC), R. Escudier, A. Aydogdu, J. Pistoia, A. Chiara Goglio, M. Drudi, A. Grandi, V. Lyubartsev, R. Lecci, S. Masina, G. Coppini, N. Pinardi

