

Mediterranean Oceanographic Network for the Global Observing System

MonGOOS WORKSHOP ON THE IMPORTANCE OF SCALES AND UNCERTAINTIES IN OCEAN TRANSPORT: PHYSICAL AND **BIOGEOCHEMICAL INTERACTIONS IN THE MEDITERRANEAN SEA**

November 22nd & 23rd, 2022 - Florence (IT)

14.30 - 14.45	WELCOME
	MonGOOS Co-chairs and Local Organizers
14.45 – 17.30	Session 1: Understanding ocean transports, mixing properties and multiscale
	processes from ocean observations
	Chairs: Vanessa Cardin, Carlo Brandini
14.45 – 15.00	Katrin Schroeder (CNR-ISMAR)
	Long-term time series of physical data collected in two of these choke points: the
	Sardinia Channel and the Sicily Channel
15.00 – 15.15	Pierre Garreau (IFREMER)
	High-resolution data revisited in the perspective of a planned SWOT
	calibration/validation experiment in the north-western Mediterranean Sea
15.15 – 15.30	Hrvoje Mihanović (Institute of Oceanography and Fisheries)
	Multiplatform approach to monitoring and research of exceptionally high
	salinities in the Adriatic Sea since 2017
15.30 – 15.45	Felipe de Luca Lopes de Amorim (OGS)
	The EMSO-E2M3A Southern Adriatic Regional Facility: Interconnectedness of a
	variety of processes at different spatial and temporal scales, their interaction and
	recurrence
15.45 – 16.00	Manuel Vargas-Yáñez (Instituto Español de Oceanografía)
	Latest results from RADMED project: Updated climatological fields, Water mass
	transports through the Balearic Channels, and changes in the mixed layer depth.
16.00 – 16.30	Coffee break
16.30 – 16.45	Alejandro Orfila (IMEDEA CSIC-UIB)
	Ageostrophic contribution by the wind and waves induced flow to the lateral
	stirring in the Mediterranean Sea
16.45 – 17.00	Antonio Guarnieri (INGV)
	Tracking our own trash: following the dispersal of floating litter from the Arno
	river using open source technology and a citizen science-based approach
17.00 – 17.15	Laura Ursella (OGS)
	Calibration and validation of HF coastal radar waves exploiting in situ
	observations and CMEMS data in the South-East Sicily
17.15 - 17.30	Dijana Klaric
	The New Croatian met-ocean buoys network moored at open sea
	area-oceanografic currents profiling
17.30 - 17.45	Asma Damghi (Abdelmalek Essaadi University)
	The implementation of the oceanographic platform "ZYPHIUS" of the marine
	observatory of Al Hoceima
17.45 – 18.30	Poster Session: 3' presentations + 2' questions
18.30	Ice Breaker - courtesy of LAMMA













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November 23rd Auditorium Centro Congressi al Duomo, Via de' Cerretani 54/R, Florence

00.00 40.00	Consider 2 Administration and delicer annual and in the second of the se
09.00 – 12.30	Session 2- Morning: Modeling approaches in representing ocean dynamics,
	transports and their uncertainties.
22.22.22.47	Chairs: Alejandro Orfila, Karim Hilmi
09.00 – 09.15	Luca Arpaia (CNR ISMAR)
	Surface layer insertion/removal with z-coordinates for accurate representation
	of free-surface flows in ocean models
09.15 – 09.30	Sara Morucci (ISPRA)
	Sea Level and Uncertainty Prediction
09.30 – 09.45	Katerina Spanoudaki (Foundation for Research and Technology Institute of
	Applied and Computational Mathematics)
	The Cretan Sea high-resolution local Digital Twin for the ILIAD Digital Twin of the
	Ocean
09.45 – 10.00	Riccardo Martellucci (OGS)
	Impact of the Medicane Apollo on a cyclonic vortex of the Ionian Sea
10.00 – 10.15	Emanuela Clementi (CMCC)
	The Copernicus Mediterranean Analysis and Forecasting Physical System: latest
	model upgrades and accuracy
10.15 – 10.30	Michele Bendoni (LaMMA)
	4D-Var Data Assimilation of HF-Radar Derived Surface Currents and their Impact
	on Surface Transport in the North-Western Mediterranean Sea
10.30 – 11.00	Coffee break
11.00 – 11.15	Aimie Moulin (CMCC)
	Assessment of wave-current interactions on the Mediterranean Sea dynamics
	through numerical experiments
11.15 – 11.30	Bethany McDonagh (CMCC - UniBO)
	Study of the effect of tides on vertical motion and mixing in the Mediterranean
	Sea using numerical experiments
11.30 – 11.45	Christian Ferrarin (CNR-ISMAR)
	Seamless ocean modelling in the Adriatic Sea
11.45 – 12.00	Florian Kokoszka (Stazione Zoologica di Napoli Anton Dohrn)
	Gulf of Naples Advanced Model (GNAM), A Multiannual Comparison with
	Coastal HF Radar Data, and Hydrological Measurements in a Coastal Tyrrhenian
	Basin: Insights about Perspective
12.00 – 12.15	George Zodiatis (ORION)
	Downscaling at near-coastal areas: MUSAN underwater park in Ayia Napa
12.15 – 12.30	Luca Repetti (Istituto Idrografico della Marina)
	The contribution of the Istituto Idrografico della Marina (IIM) to the marine
	monitoring: SWIM-LIG campaigns
12.45 – 14.00	Lunch break
14.00 - 15.15	Session 2- Afternoon: Modeling approaches in representing ocean dynamics,
	transports and their uncertainties.
	Chairs: Emanuela Clementi, Sara Morucci
14.00 – 14.15	Stefania Ciliberti (Nologin Consulting SLU)
	Advances in NOW services based on ocean modelling in the Western
	Mediterranean.
14.15 – 14.30	Chair Adil (Chouaib Doukkali University)













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	Hydrodynamics and water transport in Nador Lagoon(morocco) modelling
	approach
14.30 – 14.45	Andrea Cucco (CNR-IAS)
	Assessing the risk of oil spill impacts and potential biodiversity loss for coastal
	marine environment at the turn of COVID19 Pandemic event
14.45 – 15.00	Svitlana Liubartseva (CMCC)
	Oil spill modelling: progress under the FIRESPILL project
15.00 - 15.15	Fabio Giordano (OGS)
	High-resolution oceanographic modelling to assess the feasibility of marine
	energy production: a case study in the northern Adriatic
15.15 – 15.45	Coffee break
15.45 – 17.30	Session 3: Biological, biogeochemical and physical interactions.
15.45 – 16.00	Marta Balsells (Universitat Politècnica de Catalunya)
	Biological response to hydrodynamic factors in a shallow water microtidal
	estuary
16.00 - 16.15	Ginevra Rosati (OGS)
	Biogeochemical and physical drivers of MeHg dynamics in the Mediterranean
	Sea: insights from a coupled 3D model
16.15 – 16.30	Stefano Querin (OGS)
	The SHAREMED relocatable hydrodynamic-biogeochemical modelling system for
	short-term forecasts in the Mediterranean Sea
16.30 - 16.45	Ismael Hernández-Carrasco (CSIC-UIB)
	Dynamical coherence of oceanic structures and its impact on phytoplankton
	communities
16.45 – 17.00	Andrea Casaucao Aguilar (SOCIB)
	Interannual variability of the Balearic Islands front during the bluefin tuna
	spawning season
17.00 – 17.15	Diego Alvarez-Berastegui (CN-IEO-CSIC)
	Advances Connecting MONGOOS strategies and objectives with Mediterranean
	Fisheries Management Organizations
19.30	Social Dinner at Trattoria Zà Zà, - courtesy of OGS
	Piazza del Mercato Centrale, 26R, Florence









