



## WORKSHOP

“Advances in Oceanographic Modelling in the Mediterranean Sea “

SPLIT 15, November 2016

Location: Hotel Cornaro, Split, Croatia

Time	Title
9:00-9:30	Welcome Speeches

### Review of existing operational systems

Time	Title
9:30-9:50	<b>The South Eastern Levantine Israeli Prediction System (SELIPS)</b> <i>Ron Goldman, Isaac Gertman</i>
09:50-10:10	<b>Downscaling the CMEMS products for an operational forecasting system in Spanish harbors (SAMOA project).</b> Agustín S-Arcilla <sup>1</sup> , Manel Grifoll <sup>1</sup> , Pablo Cerralbo <sup>1</sup> , Marc Mestres <sup>1</sup> , Manuel Espino <sup>1</sup> , Marcos G-Sotillo <sup>2</sup> , Enrique-Álvarez Fanjul <sup>2</sup> <sup>1</sup> Maritime Engineering Laboratory (LIM). Polytechnic University of Catalunya - BarcelonaTech (UPC). Carrer Jordi Girona 1-3, 08034 Barcelona, Spain. E-mail: agustin.arcilla@upc.edu <sup>2</sup> Puertos del Estado, Avenida del Partenón 10, 28042, Madrid, Spain.
10:10-10:30	<b>The CMEMS-Med-MFC-Currents operational system: last improvements and skill assessment.</b> <i>Emanuela Clementi (1), Claudia Fratianni (1), Jenny Pistoia (1), Damiano Delrosso (1), Massimiliano Drudi (1), Alessandro Grandi (1), Pierluigi Di Pietro (1), Nadia Pinardi (1,2,3)</i> (1) INGV: Istituto Nazionale di Geofisica e Vulcanologia, Bologna, Italy (2) University of Bologna, Italy (3) CMCC: Centro Euro-Mediterraneo sui Cambiamenti Climatici, Italy
10:30-10:50	<b>The CMEMS-Med-MFC-Biogeochemistry operational system: implementation of NRT and Multi-Year validation tools.</b> Salon S., Cossarini G., Bolzon G., Teruzzi A. OGS - Istituto Nazionale di Oceanografia e di Geofisica Sperimentale
10:50-10:30	Coffee Break
10:30-11:50	<b>The wave forecasting component of the Mediterranean Monitoring and Forecasting Centre in the framework of the Copernicus Marine Environment Monitoring Service</b> Ravdas M <sup>1</sup> , A. Zacharioudaki <sup>1</sup> , and G Korres <sup>1</sup> <sup>1</sup> Hellenic Centre for Marine Research
11:50-12:10	<b>Downscaling the CMEMS products: the Southern Adriatic Northern Ionian coastal Forecasting System for the Apulia region</b> <i>I. Federico<sup>1</sup>, G. Coppini<sup>1</sup>, N. Pinardi<sup>1,2</sup>, F. Montagna<sup>1</sup>, R. Lecci<sup>1</sup>, S. Casio<sup>1</sup></i> <sup>1</sup> Centro Euro-Mediterraneo sui Cambiamenti Climatici <sup>2</sup> Università di Bologna
12:10-12:30	<b>"The CYCOFOS new forecasting systems at regional and sub-regional scales"</b> George Zodiatis <sup>1</sup> , George Galanis <sup>1,2</sup> , Hari Radhakrishnan <sup>1</sup> , Andreas Nikolaidis <sup>1</sup> , George Emmanouil <sup>1,2</sup> , Georgios Nikolaidis <sup>1</sup> , Robin Lardner <sup>1</sup> , Sarantis Sofianos <sup>2</sup> , Stavros Stylianou <sup>1</sup> and Marios Nikolaidis <sup>1</sup> <sup>1</sup> Oceanography Center, University of Cyprus <sup>2</sup> University of Athens

Time	Title
12:30-14:00	Lunch

## Simulation of processes and technical advances in numerical modelling in the region

Time	Title
14:00-14:25	<p><b>The effect of lagoons upon Adriatic Sea tidal dynamics</b>  Christian Ferrarin<sup>1</sup> &amp; Georg Umgiesser<sup>1,2</sup>  1 - CNR - National Research Council of Italy, ISMAR - Marine Sciences Institute in Venice, Castello 2737/f, 30122, Venice, Italy  2 - Open Access Center for Marine Research, Klaipėda University, H. Manto 84, 92294 Klaipėda, Lithuania</p>
14:25-14:50	<p><b>Estuarine dynamics for ocean modeling: the case study of the Ofanto estuary</b>  G. Verri<sup>(1,2)</sup>, N. Pinardi<sup>(1,2)</sup>, J. Tribbia<sup>(3)</sup>, F. Bryan<sup>(3)</sup>, Y. Tseng<sup>(3)</sup>, G. Coppini<sup>(1)</sup>  <sup>1</sup> Centro Euro-Mediterraneo sui Cambiamenti Climatici, Italy  <sup>2</sup> Department of Physics and Astronomy, University of Bologna, Italy  <sup>3</sup> National Center for Atmospheric Research, Boulder, USA</p>
14:50-15:15	<p><b>Regional Circulation along the French Coast, using two-way zooms in North-Western Mediterranean Sea.</b>  Pierre Garreau, Valerie Garnier, Ivane Pairaud.  Ifremer centre de Brest et Toulon France.</p>
15:15-15:40	<p><b>Development of a multi-data assimilation scheme to integrate Bio-Argo floats data with Ocean Colour satellite data into the CMEMS MFC-Biogeochemistry.</b>  Cossarini G., Salon S., D'Ortenzio F., Mariotti L.  OGS - Istituto Nazionale di Oceanografia e di Geofisica Sperimentale  Laboratoire d'Océanographie de Villefranche (LOV)</p>
15:45-16:15	<b>Coffee break</b>
16:15-16:40	<p><b>Local circulation modelling in Mediterranean Spanish coastal areas: Validation strategies and evaluation of potential added value with respect to regional solutions.</b>  MG Sotillo<sup>1</sup>, JC Sanchez<sup>2</sup>, Manel Grifoll<sup>3</sup>, P Rodríguez-Rubio<sup>4</sup>, A Amo-Baladrón<sup>1</sup>, Simone Sammartino<sup>2</sup>, P Lorente<sup>1</sup>, Pablo Cerralbo<sup>3</sup>, E Alvarez Fanjul<sup>1</sup>  <sup>1</sup> Puertos del Estado, Madrid, Spain. <sup>2</sup> Universidad de Málaga, Málaga, Spain.  <sup>3</sup> LIM/UPC, Barcelona, Spain <sup>4</sup> Autoridad Portuaria Bahía de Algeciras, Algeciras, Spain</p>
16:40-17:05	<p><b>Multi-scale ocean modeling: the role of tidal dynamics in the Messina Strait, Western Mediterranean Sea</b>  A. Cucco, G. Quattrocchi, A. Olita, L. Fazioli, and Sorgente. National Research Council, Institute for Coastal Marine Environment, Oristano, 09170 Italy</p>
17:05-17:30	<p><b>Balearic Rissaga Forecasting System: recent progress and study of meteotsunami propagation under synthetic gravity wave forcing</b>  Baptiste Mourre<sup>1</sup>, Matjaz Licer<sup>1,2</sup>, Charles Troupin<sup>1</sup>, Andreas Kriemeyer<sup>1</sup> and Joaquin Tintoré<sup>1,3</sup> <sup>1</sup> SOCIB, Spain <sup>2</sup> National Institute of Biology, Piran, Slovenia <sup>3</sup> IMEDEA, UIB-CSIC, Spain</p>
17:30-17:55	<p><b>Modelling of meteorological tsunamis: state-of-the-art, perspectives and challenges"</b>  Ivica Vilibić, Jadranka Šepić, Clea Denamiel. Institute of oceanography and fisheries, Split, Croatia</p>
17:55-18:20	<p><b>High resolution surface dynamics of Algeciras Bay (Strait of Gibraltar) by Lagrangian particle tracking system.</b>  Simone Sammartino<sup>1</sup>, José Carlos Sánchez Garrido<sup>1</sup>, Marcos García Sotillo<sup>2</sup>, Cristina Naranjo<sup>1</sup>, Pablo Rodríguez Rubio<sup>3</sup>, Jesús García Lafuente<sup>1</sup>, Francisco de los Santos Ramos<sup>3</sup>, Enrique Álvarez Fanjul<sup>2</sup>  <sup>1</sup> Physical Oceanography Group, University of Málaga, Campus de Teatinos s/n ,29071, Málaga, Spain <sup>2</sup> Puertos del Estado, Avenida del Partenón 10, 28042, Madrid, Spain <sup>3</sup> Bay of Algeciras Port Authority, Avda. de la Hispanidad<sup>2</sup>, 11207, Algeciras, Spain</p>

## Fifth MONGOOS meeting

Split 16 - 17, November 2016

Location: Hotel Cornaro, Split, Croatia

### November 16, 2016

#### **9:00 - 12:00 Session on internal affairs**

9:00 - 9:30 Welcome Speech 1, IOF director (15 minutes)  
Welcome Speech 2, DHMZ Director (15 minutes)

9:30 - 10:30 Status of operational oceanography in Croatia

IOF - Towards Croatian operational oceanography (V. Dadic)  
HHI - Croatian tide gauge operational tidal network (N. Leder)  
CIM(IRB) – Long term monitoring of the Northern Adriatic (R. Precali)  
AMGA- Could data provided by a yo-yo profiler be useful for Operational Oceanography (Z. Pasaric)  
DHMZ - Meteorological and hydrological Service of Croatia for Marine Meteorology (D. Klaric)

10:30 - 11:00 MonGOOS status and 2016 activities  
Giovanni Coppini and Enrique Alvarez (MonGOOS Co-chairs)

#### **11:00 -11:30 Coffee Break**

11:30 - 12:30 Presentation of new candidatures and partners:

- ETT (associated partner) - Giuseppe Manzella
- National Institute of Oceanography and Fisheries (presentation) – via webex
- ARPA-emr (associated partner)

12:30 -13:00 Modeling working group (Pierre Garreau)

#### **13:00-14:00 Lunch**

14:00 -14:30 Data working group activities  
Leonidas Perivoliotis (MonGOOS Data Working Group leader)

14:30 - 15:00 Northern African Integration WG  
Web presentation by Karim Hilmi (WG leader) or deputy – via webex

15:00 - 15:30 MonGOOS working group on Products and Open discussion on future of MEDESS oils spill system  
Giovanni Coppini (MonGOOS Co-chair)

**15:30 - 18:30 Session on ongoing projects (10 minutes presentations)**

1. MEDOS. Alessandro Crise
2. EMODNET Physics, ETT. Giuseppe Manzella
3. EMODNET Med-Sea check-point, Nadia Pinardi

**16:00 -16:30 Coffe Break**

4. CMEMS MED-MFC: Giovanni Coppini
5. Jerico-Next: Leonidas Perivoliotis
6. RITMARE: Alessandro Crisse
7. CEASELESS: Agustín Sanchez-Arcilla
8. FixO3: Vanessa Cardin
9. Danubius RI: Georg Umgiesser
10. EUCISE-2020: George Zodiatis

**18:30            Closure of first day**

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### November 17, 2016

#### *External Relationships (10 minutes presentations + 10 minutes discussion)*

- 08:30 - 08:50 EuroGOOS,  
Erik Buch
- 08:50 - 09:10 AfricaGOOS  
Mika Odido – Via webex
- 09:10 - 09:30 Unep-Map PAP/RAC  
Marco Prem
- 09:30 - 09:50 Ocean Literacy  
Francesca Santoro – Via webex
- 09:50 - 10:10 REMPEC  
Gabino González -Via webex

#### **10:10 - 10:40 Coffe break**

#### *WMO-JCOMM Session*

- 10:40 - 11:00 WMO: WIGOS/WIS presentation  
Champika Gallage
- 11:00 - 11:20 JCOMM presentation  
Nadia Pinardi
- 11:20 - 11:40 MonGOOS DDR  
Nadia Pinardi
- 11:40 - 12:00 Open discussion

#### **The MONGOOS science plan session**

- 12:00 – 12:30 Status of development of the science plan  
Sarantis Sofianos

#### **12:30 - 13:30 Partner activity: recent developments and future plans (10 minutes presentations)**

- Salvatore Marullo (ENEA): Long-term changes in the Northwestern Atlantic and Mediterranean SST from 1982 to 2015: A contribution of the Operational Oceanography to the determination of the present-day Climate.
- Rosa Balbin (IEO): The Spanish Institute of Oceanography Observing System in the Mediterranean Sea: new components
- Pierre Garreau (Ifremer): Deriving surface currents from marine traffic, a new operational tool
- Jure Jerman (ARSO): Recent development of Slovenian Operational Oceanography

#### **13:30 Closure**