



Institute of oceanography and fisheries  
Split, Croatia



## 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> <i>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></i> <i><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</i> <i><sup>(2)</sup> Puertos del Estado, Avenida del Partenón 10, 28042, Madrid, Spain.</i>
10:10-10:30	<b>The CMEMS-Med-MFC-Currents operational system: last improvements and skill assessment.</b> <i>Emanuela Clementi<sup>(1)</sup>, Claudia Fratianni<sup>(1)</sup>, Jenny Pistoia<sup>(1)</sup>, Damiano Delrosso<sup>(1)</sup>, Massimiliano Drudi<sup>(1)</sup>, Alessandro Grandi<sup>(1)</sup>, Pierluigi Di Pietro<sup>(1)</sup>, Nadia Pinaridi<sup>(1,2,3)</sup></i> <i><sup>(1)</sup> INGV: Istituto Nazionale di Geofisica e Vulcanologia, Bologna, Italy</i> <i><sup>(2)</sup> University of Bologna, Italy.</i> <i><sup>(3)</sup> CMCC: Centro Euro-Mediterraneo sui Cambiamenti Climatici, Italy</i>
10:30-10:50	<b>The CMEMS-Med-MFC-Biogeochemistry operational system: implementation of NRT and Multi-Year validation tools.</b> <i>Salon S., Cossarini G., Bolzon G., Teruzzi A.</i> <i>OGS - Istituto Nazionale di Oceanografia e di Geofisica Sperimentale</i>
10:50-11:30	Coffee Break
11:30-11:50	<b>The wave forecasting component of the Mediterranean Monitoring and Forecasting Centre in the framework of the Copernicus Marine Environment Monitoring Service</b> <i>Ravdas M., A. Zacharioudaki, and G Korres</i> <i>Hellenic Centre for Marine Research</i>
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. Pinaridi<sup>(1,2)</sup>, F. Montagna<sup>(1)</sup>, R. Lecce<sup>(1)</sup>, S. Causio<sup>(1)</sup></i> <i><sup>(1)</sup> Centro Euro-Mediterraneo sui Cambiamenti Climatici</i> <i><sup>(2)</sup> Università di Bologna</i>
12:10-12:30	<b>The CYCOFOS new forecasting systems at regional and sub-regional scales</b> <i>George Zodiatis, George Galanis, Hari Radhakrishnan, Andreas Nikolaidis, George Emmanouil, Georgios Nikolaidis, Robin Lardner, Sarantis Sofianos, Stavros Stylianou and Marios Nikolaidis</i>

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>  <sup>(1)</sup> CNR - National Research Council of Italy, ISMAR - Marine Sciences Institute in Venice, Castello 2737/f, 30122, Venice, Italy  <sup>(2)</sup> 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. Verrì<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>
14:50-15:05	<p><b>Coupling of geophysical models</b>            Mathieu Dutoir Sikirić<sup>(1)</sup>, Aron Roland<sup>(2)</sup>, Luigi Cavaleri<sup>(3)</sup>, Luciana Bertotti<sup>(3)</sup>, Lucio Torrisi<sup>(4)</sup>  <sup>(1)</sup> Institut Rudjer Boskovic, Zagreb, Croatia  <sup>(2)</sup> BGS IT&amp;E GMBH, Darmstadt, Germany  <sup>(3)</sup> Institute of Marine Science, ISMAR-CNR, Venice Italy  <sup>(4)</sup> Italian Meteorological Service, CNMCA Rome, Italy</p>
15:05-15:20	<p><b>Primary production models and photosynthesis parameters</b>            Žarko Kovač<sup>(1)</sup>, Mira Morović<sup>(1)</sup>, Trevor Platt<sup>(2)</sup>, Shubha Sathyendranath<sup>(2)</sup>  <sup>(1)</sup> Institute of Oceanography and Fisheries, Split, Croatia  <sup>(2)</sup> Plymouth Marine Laboratory, Plymouth, United Kingdom</p>
15:20-15:45	<p><b>Regional Circulation along the French Coast, using two-way zooms in North-Western Mediterranean Sea</b>            Pierre Garreau, Valerie Garnier, Ivane Pairaud.  <i>Ifremer centre de Brest et Toulon France.</i></p>
15:15-15:45	<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.  <i>OGS - Istituto Nazionale di Oceanografia e di Geofisica Sperimentale            Laboratoire d'Océanographie de Villefranche (LOV)</i></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>(5)</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, Sorgente.  <i>National Research Council, Institute for Coastal Marine Environment, Oristano, 09170 Italy</i></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>, 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  <i>Institute of oceanography and fisheries, Split, Croatia</i></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 Hispanidad2, 11207, Algeciras, Spain</p>