



International Conference

OPERATIONAL OCEANOGRAPHY

Serving Sustainable Marine Development

3-5 October 2017, Bergen, Norway



Tuesday 03/10/2017

08:00-9:00	Registration and welcome coffee Opening and welcome
09:00-9:30	Erik Buch, EuroGOOS (10') Norwegian Ministry TBC (10') Directors of NERSC and IMR (10')
09:30-09:50	Ocean observations for society: European Commission perspective, Marco Weydert, EC DG R&I
09:50-10:10	Towards an integrated European Ocean Observing System, Glenn Nolan, EuroGOOS
10:10-11:00	Coffee break and poster session European ocean observing projects
11:00-12:00	AtlantOS, Johannes Karstensen, GEOMAR, Germany (20') Odyssea, Ghada El Serafy, Deltares, the Netherlands (20') INTAROS, Stein Sandven, NERSC, Norway (20')
12:00-12:20	Copernicus Marine Service , Antonio Reppucci
12:20-12:40	Global Ocean Observing System: status and forward look , Albert Fischer
12:40-13:40	Lunch and poster session Polar Session
13:40-15:20	Frontiers in Arctic Marine Monitoring, Martina Loebl (20') Copernicus Marine Service Arctic Marine Forecasting Centre, Laurent Bertino (20') State of play in European remote sensing, Johnny Johannessen (20') Legacy of Nansen, Marit Reigstad (20') Southern Ocean Observing System, Sebastiaan Swart (20')
15:20-16:00	Coffee break and poster session
16:00-16:20	Euro-Argo evolution and polar focus , Claire Gourcuff
16:20-16:40	Acoustics: The key to observing the ocean under the Arctic sea ice , Hanne Sagen, NERSC, Norway
16:40-17:10	Poster session teaser
17:10-17:30	Kostas Nittis Medal award and winner's flash talk
19:00-20:00	Reception

Wednesday 04/10/2017

	Session 1.1 Observations: Networks, in-situ requirements and sensors	Session 2.1. Process, modelling and Copernicus Services	Session 3.1 Modelling, data assimilation and services
09:00-12:30	Chair Stein Sandven , NERSC, Norway/Chair EuroGOOS Arctic ROOS Rapporteur Julien Mader , AZTI, Spain/Chair EuroGOOS HF Radar Task Team and co-Chair EuroGOOS IBI-ROOS	Chair Henning Wehde , IMR, Norway/co-Chair EuroGOOS NOOS Rapporteur Manuel Ruiz , IEO, Spain/co-Chair EuroGOOS IBI-ROOS	Chair Bernd Brugge , BSH, Germany/EuroGOOS Executive Board Rapporteur Sebastien Legrand , RBINSn Belgium/co-Chair EuroGOOS NOOS
9:00	'Towards an integrated EU data system within AtlantOS'. S Pouliquen , V Harscoat and AtlantOS WP7 partners	'Tracking mesoscale eddies from combined use of satellite altimetry and Argo profiling floats'. Roshin. P. Raj. , Johnny. A. Johannessen., Jan Even. Ø. Nilsen., Laurent. Bertino	'Ensemble-based data assimilation of observations into NEMO-Nordic'. Lars Axell and Ye Liu
9:15	'JERICO-RI: The integrated coastal component of the European Ocean Observing System'. Farcy P. , Durand D., Puillat I., Petihakis G., Tintoré J.	'Cross-shelf exchanges in the Bay of Biscay'. Anil Akpinar , Guillaume Charria, Frédéric Vandermeersch, Tanguy Szekely	'Last improvements in the data assimilation scheme for the Mediterranean Analysis and Forecast system of the Copernicus Marine Service'. Jenny Pistoia , Emanuela Clementi, Damiano Delrosso, Gelsomina Mattia, Claudia Fratianni, Massimiliano Drudi, Alessandro Grandi, Davide Padeletti, Pierluigi Di Pietro, Nadia Pinaridi and Andrea Storto
9:30	'Deployment of new observing systems thanks to the JERICO-RI'. Puillat I. , Petihakis G., Delauney L., Grémare A., Carlier A., Rubio A., Lazure P., Karlson	'Operational Wave Height Monitoring Using Navigation Buoys and Marine Radars in the Baltic Sea'. Tarmo Kõuts , Sander Rikka, Leo Käärmann and Aivar Usk	'Towards seamless modelling in the Baltic Sea'. Jun She and Jens Murawsky
9:45	'COAST-HF - A fixed-platform network along French coasts'. Guillaume Charria and Christine David-Beausire	'Numerical modeling of long-range acoustic propagation under the sea-ice'. Gaute Hope , Hanne Sagen, Halvor Hobæk	'The SAMOA project: downscaling operational oceanography for improving Harbour operations'. Enrique Alvarez Fanjul , Marcos García Sotillo, Begoña Pérez Gómez, José María García Valdecasas, Susana Pérez Rubio, Isabel Martínez Marco, Yolanda Luna, Elena Padorno, Gabriel Díaz Hernandez, Javier López Lara, Raúl Medina, Manel Grifoll, Manuel Espino, Marc Mestres, Laura Rafols, Agustín Sánchez Arcilla
10:00	'The Coastal Observing System for Northern and Arctic Seas (COSYNA): Challenges and Solutions for an Integrated Measurement and Modelling Approach'. Holger Brix , Burkard Baschek, Sebastian Grayek, Wilhelm Petersen, Rüdiger Röttgers, Johannes Schulz-Stellenfleth, Emil V. Stanev, Joanna Staneva	'The IEO coastal observatory: understanding variability of coastal circulation and ecosystem response off North and North West Iberia'. Manuel Ruiz-Villarreal , Luz García-García, Marcos Cobas, Lucía Lado, Martinho Marta-Almeida	'TOWARDS A NEW SEA LEVEL FORECAST SYSTEM IN PUERTOS DEL ESTADO'. I. Pérez González , B. Pérez Gómez, M. García Sotillo and E. Álvarez Fanjul
10:15-10:30	Q&A and Discussion	Q&A and Discussion	Q&A and Discussion
10:30-11:00	Coffee break and poster session		
11:00	'Toward integrated marine observing system in Croatia'. Vlado Dadić , Jadranka Šepić, Damir Ivanković, Stipe Muslim, Hrvoje Mihanović and Ivica Vilibić	'Relocatable ocean modelling for downscaling to the shelf and coastal areas'. Francesco Trotta , Nadia Pinaridi, Simona Masina, Giovanni Coppini, Dototeaciro Iovino, Stefania Angela Cili-berti, Rita Lecci, Andrea Storto, Cipollone Anrea, Sergio Creti, Giuseppe Turrisi, Fabio Montagna, Macchia Francesca.	'The Copernicus Marine Service User Uptake programme, a way to show the value added chain till the end users'. Edmée Durand , Sylvain Cailleau, Geneviève Chabot, Corinne Derval, Dominique Obaton, Armelle de Nuccé

11:15	'The POSEIDON system, an integrated observing infrastructure at the Eastern Mediterranean as a contribution to the European Ocean Observing System'. Perivoliotis L., Petihakis G., Korres M., Ballas D., Frangoulis C., Pagonis P., Ntoumas M., Pettas M., Chalkiopoulos A., Sotiropoulou M., Bekiari M., Kalampokis A., Ravdas M., Bourma E., Christodoulaki S., Zacharioudaki A., Kassis D., Potiris M., Triantafyllou G., Papadopoulos A., Tsiaras K., Velanas S.	'Performance and quality assessment of the global ocean eddy-permitting physical reanalysis GLORYS2V4'. G. Garric, L. Parent, E. Greiner, M. Drévilion, M. Hamon, JM Lellouche, C. Régnier, C. Desportes, O. Le Galloudec, C. Bricaud, Y. Drillet, F. Hernandez, C. Dubois and P-Y. Le Traon	'CMEMS Baltic Monitoring and Forecasting Centre: High-resolution wave forecasts in the seasonally ice-covered Baltic Sea'. Laura Tuomi, Tero Siili, Olga Vähä-Piikkiö, Victor Alari
11:30	'FerryBoxes within Europe: State-of-the-art and Integration in the European Ocean Observation System (EOOS)'. Wilhelm Petersen, Franciscus Colijn, Patrick Gorringer, Seppo Kaitala, Bengt Karlson, Andrew King, Urmas Lips, Kai Sørensen, George Petihakis, Loic Petit De La Villeon, Henning Wehde	'A North Sea-Baltic Sea regional coupled models: Atmosphere, wind waves and ocean'. Joanna Staneva, Corinna Schrum and HZG-GCOAST team	'The new CMEMS IBI-WAV forecasting system: skill assessment using in situ and HF radar data". P. Lorente, S. Piedracoba, M.G. Sotillo, L. Aouf, R. Aznar, A. Amo-Baladrón, M. de Alfonso, E. Barrera, A. Pascual, E. Alvarez-Fanjul
11:45	'Future scenarios for the growing European HF Radar network'. Julien Mader, Anna Rubio, Carlo Mantovani, Lorenzo Corgnati, Antonio Novellino, Guillaume Charria, Louis Marié, Emma Reyes, Céline Quentin, Annalisa Griffa, Patrick Gorringer, Joaquin Tintoré, Patrick Farcy	'Ocean forecasting from regional to coastal scales: two-way nesting and seamless modeling'. Emil V. Stanev, S. Grayek, S. Grashorn, J. Pein, and B. Jacob	'Sea ice monitoring system based on satellite data to support safe navigation in Arctic Seas'. Anton Korosov, Mohamed Babiker, Jeong-Won Park, Morten W. Hansen
12:00	'CMEMS Present and Future Requirements for Satellite and In-Situ Observations'. Antonio Reppucci, Pierre-Yves Le Traon	'A two-way nested high resolution coastal simulation in a tidally dominated area: preliminary results'. Ioannis Mamoutos, Tomasz Dabrowski, Kieran Lyons	'Satellite data based automated arctic sea ice monitoring system'. L. Bobylev, V. Volkov, E. Kazakov, D. Demchev
12:15-12:30	Q&A and Discussion	Q&A and Discussion	Q&A and Discussion
12:30	Lunch and poster session (1.5 hours)		
14:00 - 17:00	Session 1.2 Observations: Networks, in-situ requirements and sensors Chair Patrick Farcy, Ifremer, France/EuroGOOS Executive Boars Rapporteur Wilhelm Petersen, HZG, Germany/co-Chair EuroGOOS FerryBox Task Team	Session 2.2. Process, modelling and Copernicus Services Chair George Petihakis, HCMR, Greece/EuroGOOS vice-Chair Rapporteur Enrique Alvarez Fanjul, Puertos del Estado, Spain/EuroGOOS MONGOOS co-Chair	Session 3.2 Data and services Chair Sylvie Pouliquen, Ifremer, France/Chair EuroGOOS DATAMEQ Working Group Rapporteur Antonio Novellino, DLTM, Italy
14:00	'Assessment of Baltic Sea observations for operational oceanography'. Jun She	'Ocean forecasting for the German Bight: from regional to coastal scales'. Emil V. Stanev, Johannes Schulz-Stellenfleth, Joanna Staneva, Sebastian Grayek, Sebastian Grashorn, Arno Behrens, Wolfgang Koch, and Johannes Pein	'Stress testing the EU monitoring capacity for the Blue economy'. Nadia Pinardi and the EMODnet Checkpoint partners
14:15	'New sources of in-situ marine data to support EC Marine Strategy Framework Directive Implementation in the Black Sea'. Atanas Palazov, Violeta Slabakova and Veselka Marinova	'Performance and quality assessment of the current Copernicus Marine Service global ocean monitoring and forecasting real-time system'. J.-M. Lellouche, O. Le Galloudec, E. Greiner, G. Garric, C. Régnier, M. Clavier, M. Drévilion, F. Gasparin, O. Hernandez and Y. Drillet	'EMODnet Physics: tackling new challenges'. A. Novellino, P. Gorringer, D. Schaap, P. Thijsse, S. Pouliquen, L. Rickards, G. Manzella
14:30	'Novel, multi-platform acoustic and optical sensors and data services developed in the NeXOS project'. Lars Golmen, Eric Delory, Oliver Zielinski, Joaquin del Rio, Nils Roar Hareide and Jay Pearlman	'Overview of CMEMS BAL MFC Service and Developments'. Laura Tuomi, Vibeke Huess, Frank Janssen, Anette Jönsson, Priidik Lagemaa and Jun She	'The new services provided by the Copernicus Marine In Situ thematic centre'. S Pouliquen, L Petit de la Villéon and CMEMS INSTAC partners
14:45	'Acoustic tomography as a component the Atlantic Ocean Observing System: Opportunities and Challenges'. Brian Dushaw	'A 1/24 degree resolution Mediterranean analysis and forecast modeling system for the Copernicus Marine Environment Monitoring Service'. Emanuela Clementi, Jenny Pistoia, Damiano Delrosso, Gelsomina Mattia, Andrea Storto, Stefania Ciliberti, Claudia Fratianni, Massimiliano Drudi, Alessandro Grandi, Davide Padeletti, Pierluigi Di Pietro, Nadia Pinardi	'Comparison of CORA and EN4 in-situ datasets validation methods, toward a better quality merged dataset.'. T. Szekely, R.Killick, J.Gourrion, A.Piron, G. Reverdin, S Pouliquen
15:00	'New acoustic profiling instrumentation with measurements of pCO2 and pH tested in the Southern Adriatic'. Cardin Vanessa, Bensi Manuel, Dorgeville Emilie, Giani Michele, Siena Giuseppe, Tengberg Anders, Brunetti Fabio, Ursella Laura, Kuchler Stefano, Bubbi Alessandro, Mansutti Paolo, Arena Franco.	'High resolution operational analysis and forecasts for the Mediterranean Sea biogeochemistry'. Salon, S., Cossarini, G., Lazzari, P., Teruzzi A., Di Cerbo, P., Bolzon, G., Feudale, L., Solidoro, C., Crise, A.	'Virtual access activity in JERICO-NEXT: guiding users to relevant services and data.'. Véronique Créach, Antonio Novellino, Kate Collingridge and Michelle Devlin
15:15 - 15:30	Q&A and Discussion	Q&A and Discussion	Q&A and Discussion
15:30-16:00	coffee break and poster session		
16:00	'Current and emerging in situ biogeochemical observations using the FerryBox platform in Subarctic and Arctic Norwegian waters'. Andrew L. King, Marit Norli, Anna Birgitta Ledang, Pierre Jaccard, Emanuele Reggiani, Sabine Marty, Richard Bellerby, Lars Golmen, and Kai Sørensen	'Modeling in the Mediterranean Sea: the MonGOOS contribution'. Georg Umgiesser, Pierre Garreau, Agustín S. Arcilla, Emanuela Clementi, Salon S, Ravdas M., I. Federico, George Zodiatis, Christian Ferrarin, G. Verri, Cossarini G, MG Sotillo, A. Cucco, Baptiste Moure, Ivica Vilibić, Simone Sammartino, Giovanni Coppini and Alvarez Fanjul, E.	'Operational oceanography to serve sustainable development in Baltic-North Sea'. Jun She
16:15	'Novel biogeochemical sensors: Operation of a newly developed total alkalinity analyser (TA) in combination with a FerryBox for better quantification of the carbon dynamics in the North Sea'. Wilhelm Petersen, Yoana G. Voynova, Martina Gehrung, Steffen Aßmann	'Downscaling the Copernicus CMEMS Med MFC in the Eastern Mediterranean: The new CYCOFOS forecasting systems at regional and sub-regional scales'. George Zodiatis, George Galanis, Andreas Nikolaidis, Hari Radhakrishnan, George Emmanouil, Georgios Nikolaidis, Robin Lardner, Sarantis Sofianos, Stavros Stylianou, Marios Nikolaidis and Vasileios Vervatis	'HNS-MS: Improving Member States preparedness to face an HNS pollution of the Marine System'. Sébastien Legrand, Stéphane Le Floch, Laurent Aprin, Valérie Partenay, Eric Donnay, S. Ovidio, N. Youdjou, Ronny Schallier, Florence Poncet, Sophie Chataing, Emmanuelle Poupon, Yann-Hervé Hellouvy.
16:30	'GlobCurrent – A Pre-operational monitoring system for surface current and upper ocean dynamics based on sensor synergy'. J.A. Johannessen, B. Chapron, F. Collard, M.-H. Rio, J.-F. Piollé, L. Gaultier, G. Quartly, J. Shutler, R. Escola, R. P. Raj, C. Donlon, R. Danielson, A. Korosov, F. Nencioli, M. Roca, and M. Hansen	'North-West European Shelf Monitoring and Forecasting Centre: system evolution since the beginning of CMEMS'. M. Tonani, N. Mc Connell, R. King, E. O'Dea, M. Martin, P. Sykes, A. Ryan, A. Saulter, S. Kay	'Offshore aquaculture site selection along the Spanish, Norwegian and Irish Atlantic coasts'. Trine Dale, Manuel Ruiz-Villarreal, Tomasz Dabrowski and Caroline Cusack

16:45	'Euro-Argo in work and new potential of gliders in the Baltic Sea BOOS'. Pekka Alenius, Kimmo Tikka, Urmas Lips, Laura Tuomi, Tero Purokoski, Petra Roiha, Simo Siiriä	'Evolution of the IBI MFC Services along the CMEMS Phase I (2015-2018): Success stories and Future Challenges'. Sotillo M.G., Cailleau S., Aouf L., Toledano C., Dabrowski T., Rey P., Aznar R., Levier B., Rainaud R., Barrera E., Bowyer P., Rodríguez A., Lorente P., Reffray G., Pascual A., Dalphiné A., Villasuso J., Amo-Baladrón A., Benkiran M., Feijo A., García-Valdecasas J.M., Lopez I., Álvarez-Fanjul E.	'Societal benefits from observing and modelling systems – pilot actions in Ireland in the framework of the AtlantOS project'. Tomasz Dabrowski, Caroline Cusack, Kieran Lyons, Eleanor O'Rourke.
16:45-17:00	Q&A and Discussion	Q&A and Discussion	Q&A and Discussion
17:00-18:00	Conference conclusions - meeting with rapporteurs		
19:00-21:00	Conference dinner		

Thursday 05/10/2017

09:00-09:20	Key-note: Peter Haugan, Chair Intergovernmental Oceanographic Commission of UNESCO/UiB, Norway
09:20-09:35	Overview of new technologies: Jerico Next experience, George Petihakis, HCMR, Greece
09:35-09:50	Animal-borne instruments, Lars Boehme, St.Andrews University, UK/Chair EuroGOOS ABI Task Team
09:50-10:05	Future challenges in ocean forecast, Nadia Pinardi, Univesity of Bologna, Italy
10:05-10:20	European Ocean Observing System: Atlantic roadmap in the AtlantOS project, Kate Larkin, European Marine Board
10:20-10:50	Coffee break
10:50-11:05	Oceanographic services: Operational Oceanography Special Interest Group, TBC, IMAREST, UK
11:05-11:20	Science for society and outreach, Dorothy Dankel, UiB, Norway
11:20-12:00	Reports from parallel & poster sessions: Glenn Nolan and conference rapporteurs
12:00-12:40	Panel discussion Operational oceanography serving the sustainable marine development - state of art Moderator Johnny Johannessen, NERSC, Norway George Petihakis, Lars Boehme, Nadia Pinardi, Kate Larkin, Dorothy Dankel
12:40-12:55	Key conference messages, George Petihakis, EuroGOOS vice-Chair
12:55-13:00	Closing