

Programme Agenda

Day 1 - 21/02/2019

Room: Big Hall

Registration

08:00 - 08:30

ESA Welcome

Chairs: Arino, Olivier (ESA/ESRIN), Rio, Marie-Hélène (ESA/ESRIN)

08:30 - 09:00

08:30 **ESA Opening**

Arino, Olivier, ESA-ESRIN, Italy

08:45 **UCM Context and Objectives**

Rio, Marie-Hélène, ESA/ESRIN, Italy

Introduction

Chairs: Maximenko, Nikolai A. (IPRC, University of Hawaii), Pascual, Ananda (IMEDEA(CSIC-UIB))

09:00 - 10:15

09:00 **In-situ Observations of Ageostrophic and Submesoscale Ocean Currents**

Lumpkin, Rick, NOAA/AOML, United States of America

09:15 **Surface Currents In High Resolution Ocean Circulation Models : Current Status And Observational Requirements.**

Le Sommer, Julien (1); Brodeau, Laurent (2); Albert, Aurélie (1); Molines, Jean-Marc (1); Ajayi, Adekunle (1); Leroux, Stéphanie (2); Brankart, Jean-Michel (1); Brasseur, Pierre (1); Verron, Jacques (1,2); Penduff, Thierry (1); Barnier, Bernard (1), 1: CNRS, France; 2: Ocean Next, France

09:30 **The Globcurrent project: Achievements and Roadmap**

Johannessen, Johnny A. (1); Chapron, Bertrand (2); Collard, Fabric (3); Rio, Marie-Helene (4); Gaultier, Lucile (3); Nocioli, Francesco (4); Quartly, Graham (5); Donlon, Craig (6), 1: NERSC, Norway; 2: Ifremer, France; 3: OceanDataLab, France; 4: ESA/ESRIN, Italy; 5: Plymouth Marine Laboratory, United Kingdom; 6: ESA/ESTEC, Neatherlands

Programme Agenda

09:45 **Preparing for Future Fine-scale Ocean Observations of Surface Topography and Surface Currents**

Morrow, Rosemary, LEGOS - CNRS/CNES/IRD/University of Toulouse, France

10:00 **SKIM, a Candidate Satellite Mission Exploring Global Ocean Currents and Waves**

Ardhuin, Fabrice, LOPS, France

Coffee Break

10:15 - 10:45

Ocean current needs for Downstream Applications

Chairs: Jeans, Gus (Oceananalysis Ltd), Ellenbroek, Anton (FAO of the UN)

10:45 - 12:00

10:45 **Industry User Requirements for Ocean Current Information**

Jeans, Gus, Oceananalysis Ltd, United Kingdom

11:00 **The Use Of Ocean Currents For Oil Spill Monitoring (Oil Transport & Weathering Modeling)**

Gouriou, Vincent, Cedre, France

11:15 **Current Matters; Developing Communities Of Practice For Fisheries And Aquaculture Spatial Data Management.**

Ellenbroek, Anton (1); Taconet, Marc (1); Pagano, Pasquale (2), 1: FAO of the UN Italy; 2: CNR-ISTI Italy

11:30 **EMEC - Metocean Data Requirements, Collection and Challenges**

Darbinyan, David, The European Marine Energy Centre Ltd, United Kingdom

11:45 **Optimizing ship routing**

Dol, Mélanie (1); Dussauze, Morgan (1); Collard, Fabrice (2); Gaultier, Lucile (2); Rapp, Jocelyn (3), 1: ACTIMAR, France; 2:

OceanDataLab, France; 3: CMA CGM, France

2^o recommendations slide for poster's authors

Chairs: Jeans, Gus (Oceananalysis Ltd), Ellenbroek, Anton (FAO of the UN)

12:00 - 12:10

Drift at Ocean Surface: Environmental and Maritime Safety Case Studies.

Programme Agenda

Presenting author: Dufau, Claire

Sutton, Marion; Mercier, Franck; Granier, Nicolas; Lucas, Marc; Dufau, Claire, Collecte Localisation Satellites (CLS), France

Mercator Ocean - Highly Qualified and Customized Oceanographic Service for Traditional Shareholders Downstream Applications

Landes, Veronique; Tressol, Marc; Durand, Edmée, Mercator Ocean International, France

Evaluation of the Interannual Variability in Stochastic Maps of Potential Oil Leakages within Exploratory Offshore Areas in the Equatorial Margin of Brazil

Santi Coimbra De Oliveira, André Luis; Montenegro Cabral, Marcelo; Ferreira Garço, Henery; De Castro Pellegrini, Júlio Augusto, Prooceano, Brazil

Session 2 Discussion

12:10 - 12:30

Lunch Break

12:30 - 13:30

Ocean currents needs for Scientific studies (Physical/Biological/Ecological/Environmental)

Chairs: Jönsson, Bror (PML CBIOMES Group), Brandt, Peter (GEOMAR Helmholtz Centre for Ocean Research Kiel)

13:30 - 15:15

13:30 Applications of and Requirements for Using Physical Velocity Fields When Studying Ocean Biogeochemistry and Ecosystem Dynamics

Jonsson, Bror Fredrik (1); Salisbury, Joe (2); Clayton, Sophie (3), 1: Plymouth marine laboratory, United Kingdom; 2: University of New Hampshire; 3: Old Dominion University

13:45 Testing Ocean Circulation Products With An Ecosystem Model And Biological And Fisheries Data

Lehodey, Patrick (1); Conchon, Anna (2); Titaud, Olivier (1); Senina, Inna (1), 1: Collecte Localisation Satellite, France; 2: Mercator Ocean, France

Programme Agenda

- 14:00 Perspectives and Future Requirements of Lagrangian Altimetry for Ecological and Environmental Studies**
d'Ovidio, Francesco; Baudena, Alberto; Fifani, Gina; Cotté, Cédric; Ser-Giacomi, Enrico; Sergi, Sara, Sorbonne Universités, LOCEAN-IPSL, France
- 14:15 The Large Impact of the Small Scales: How Submesoscale Features Determine the Global Distribution of Microplastic Litter and Other Floating Material**
van Sebille, Erik, Utrecht University
- 14:30 Pathways and Impacts of Marine Debris From the 2011 Tsunami in Japan, Studied Through Synthesis of Numerical Modeling and Data Analysis.**
Maximenko, Nikolai A. (1); Hafner, Jan (1); Kamachi, Masafumi (2); MacFadyen, Amy (3); Murray, Cathryn Clarke (4), 1: IPRC, University of Hawaii, United States of America; 2: Japan Agency for Marine-Earth Science and Technology, Japan; 3: National Oceanic and Atmospheric Administration, United States of America; 4: Fisheries and Oceans Canada
- 14:45 Importance of Surface Current Measurements in the Equatorial Belt for the Understanding of Ocean and Climate Dynamics with Focus on the Atlantic Ocean**
Brandt, Peter, GEOMAR Helmholtz Centre for Ocean Research Kiel, Germany
- 15:00 Constraining The Momentum Transfer in Ice Covered Oceans: Winds, Waves, Sea Ice Drift, and Surface Currents with EE9 Satellite Mission SKIM.**
Tsamados, Michel; Heorton, Harry, CPOM, Earth Sciences, UCL, United Kingdom

Coffee Break

15:15 - 15:45

2¹ recommendations slide for poster's authors

Chairs: Jönsson, Bror (PML CBIOMES Group), Brandt, Peter (GEOMAR Helmholtz Centre for Ocean Research Kiel)

15:45 - 16:15

Improving observations in the Agulhas Current through the Gliders in the Agulhas (GINA) initiative

Krug, Marjolaine (1,2,3); Swart, Sebastiaan (4); Maja, Tumelo (2,3), 1: Council for Scientific and Industrial Research (CSIR), Natural Resources and the Environment, Cape Town, South Africa; 2: Department of Oceanography, University

Programme Agenda

of Cape Town (UCT), South Africa; 3: Nansen-Tutu Centre for Marine Environmental Research, Department of Oceanography, University of Cape Town, South Africa; 4: University of Gothenburg, Department of Marine Science

Seasonal, Interannual and Decadal Variability of the Sicily Channel Dynamics

Menna, Milena (1); Poulain, Pierre-Marie (1,2); Ciani, Daniele (3); Doglioli, Andrea (4); Rio, Marie-Helene (5); Notarstefano, Giulio (1); Gerin, Riccardo (1); Santoleri, Rosalia (3); Gauci, Adam (6); Drago, Aldo (6), 1: OGS, Italy; 2: CMRE, Italy; 3: ISMAR, CNR, Italy; 4: MIO, France; 5: ESA-ESRIN, Italy; 6: Physical Oceanography Research Group, Malta

Evaluation of the GlobCurrent Ocean Surface Current Products in Australia

Cancet, Mathilde (1); Griffin, David (2); Cahill, Madeleine (2); Chapron, Bertrand (3); Johannessen, Johnny (4); Donlon, Craig (5), 1: NOVELTIS, France; 2: CSIRO, Australia; 3: IFREMER, France; 4: NERSC, Norway; 5: ESA/ESTEC, The Netherlands

Developing Multi-Satellite Ocean State Products For The Marine Resources Management: Results From The OSMOSIS Project

Guinehut, Stephanie (1); Rio, Marie-Helene (3); Buongiorno-Nardelli, Bruno (2); Lehodey, Patrick (1); Matthieu, Pierre-Philippe (3); Mulet, Sandrine (1); Santoleri, Rosalia (2); Senina, Inna (1); Stum, Jacques (1), 1: CLS, France; 2: ISAC-CNR, Italy; 3: ESA, Italy

Geostrophic Currents in Polar Oceans - Combining Satellite Altimetry Measurements with Model Simulations

Müller, Felix Lucian; Passaro, Marcello; Dettmering, Denise; Seitz, Florian, Deutsches Geodätisches Forschungsinstitut der Technischen Universität München (DGFI-TUM), Germany

Needs in near-surface currents observations in the Equatorial and Tropical Pacific Ocean

Cravatte, Sophie E. (1); Ardhuin, Fabrice (4); Brandt, Peter (5); Maes, Christophe (2); Marin, Frederic (1); Renault, Lionel (1); Reverdin, Gilles (3), 1: IRD, LEGOS, France; 2: IRD, LOPS, IUEM, Brest, France; 3: CNRS, LOCEAN, Paris, France; 4: CNRS, LOPS, IUEM, Brest, France; 5: GEOMAR, Germany

Near-surface current shear from in situ measurements in the Tropical Atlantic and Pacific Oceans.

Reverdin, Gilles (1); Herbert, Gaele (2); Cravatte, Sophie (3); Habasque, Jérémie (4); Bourls, Bernard (5), 1: CNRS, LOCEAN, Paris, France; 2: IFREMER, LOPS, Brest, France; 3: LEGOS, IRD/UPS/CNRS, Toulouse, France; 4: IRD, LEMAR, Brest, France; 5: IRD, IMAGO, Brest, France

Combining GlobCurrent Ocean Current Products with Tidal Currents to Monitor Marine Litter in the North Atlantic Ocean

Programme Agenda

Lux, Muriel; Sahuc, Etienne; Cancet, Mathilde; Denisselle, Matthieu, NOVELTIS, France

Distributing and Visualizing Drifter Data in COSMO

Ballabrera, Joaquim; García, Emilio; Jiménez Madrid, José Antonio; Pérez, Fernando; Isern-Fontanet, Jordi, Institut de Cincies del Mar, Spain

Monitoring the Algerian Basin through Glider Observations, Satellite Altimetry and Numerical Simulations during the ABACUS Project

Aulicino, Giuseppe (1); Cotroneo, Yuri (2); Ruiz, Simon (3); Pascual, Ananda (3); Sanchez Roman, Antonio (3); Fusco, Giannetta (2); Torner Tomas, Marc (4); Budillon, Giorgio (2); Tintoré, Joaquin (4), 1: Universit Politecnica delle Marche, Italy; 2: Universit degli studi di Napoli Parthenope, Italy; 3: Instituto Mediterráneo de Estudios Avanzados, Spain; 4: Balearic Islands Coastal Observing and Forecasting System, Spain

Evaluation of New Air-sea Surface Fluxes Product Of Esa Program (TIE-OHF) And Geostrophic Surface Currents Of GlobCurent Project In The North-western Mediterranean (GULF OF LION)

Ludos-herve, Ayina (1); Bertrand, Chapron (2); Piolle, Jean-Francois (2), 1: Inno'Energy, France; 2: Ifremer, France

Dynamical-Statistical Mechanics Approach to Large Scale Ocean Phenomena. El Nio case: Analytical Results for the Probability Density Function and for the recurrence Timing.

Bianucci, Marco (1); Capotondi, Antonietta (2); Merlino, Silvia (1); Mannella, Riccardo (3), 1: ISMAR - CNR, La Spezia, Italy; 2: University of Colorado, CIRES, Boulder (CO) USA, and NOAA-ESRL, Boulder (CO) USA; 3: Physics Dept. Pisa University

Estimation, Verification and Application of Altimeter-based Ocean Currents Along the Northwestern Atlantic Shelf

Vandemark, Douglas (1); Feng, Hui (1); Egido, Alejandro (2); Jonsson, Bror (3), 1: Univ. of New Hampshire, United States of America; 2: NOAA – Laboratory for Satellite Altimetry, GST Inc.; 3: Plymouth Marine Laboratory

Ocean Dynamics Scales and Fate of Marine Plastics

Assad, Luiz Paulo de Freitas (1); Neves, Ramiro (2); de Pablo, Hilda (2); Campuzano-Guillén, Francisco (2); Canelas, Ricardo (2); Juliano, Manuela (3); Sepp, Antonio Augusto (4); Fernandes, Alexandre (5); Franz, Guilherme (6); Rollnic, Marcelo (7); Böck, Carina Stephoni (1); Landau, Luiz (1); Moutinho, José (8), 1: Laboratory of Computational Methods in Engineering – Federal University of Rio de Janeiro, Brazil; 2: Maretec-Larsys, Instituto Superior Técnico, University of Lisbon; 3: IMAR, University of Azores; 4: University of Bologna; 5: Oceanography Faculty of Rio de Janeiro State University; 6: Marine Research Centre, Federal University of Paraná; 7: Marine Geophysics Laboratory, Federal University of Pará; 8: AIR Centre

Programme Agenda

Session 3 Discussion

16:20 - 16:45

Ocean currents modelling

Chairs: Masina, Simona (Fondazione Centro Euro-Mediterraneo sui Cambiamenti Climatici (CMCC)), Le Sommer, Julien (CNRS)

16:45 - 18:00

16:45 Accuracy of Mercator Ocean Global Ocean Surface Current Forecasts, and Needs for Reference Measurements.

Drévilon, Marie (1); Régnier, Charly (1); van Gennip, Simon (1); Levier, Bruno (1); Law Chune, Stéphane (1); Drillet, Yann (1); Rémy, Elisabeth (1); Greiner, Eric (2); Lellouche, Jean-Michel (1); von Schuckmann, Karina (1); Le Traon, Pierre-Yves (1,3), 1: Mercator Ocean International, France; 2: CLS, France; 3: Ifremer, France

17:00 Assessment of Some New Developments to the Met Office Ocean Forecasting System FOAM Using Comparisons to Ocean Current Data

Lea, Daniel J; Waters, Jennifer; King, Robert R; Martin, Matthew J, Met Office, United Kingdom

17:15 GOFS16: a Global Ocean Forecast System at Eddy Resolution

Masina, Simona (1); Iovino, Doroteaciro (1); Cipollone, Andrea (1); Ciliberti, Stefania (1); Coppini, Giovanni (1); Trotta, Francesco (2); Pinardi, Nadia (2), 1: Euro-mediterranean Center on Climate Change (CMCC), Italy; 2: Department of Physics and Astronomy, University of Bologna, Italy

17:30 Data Assimilation for the Reconstruction of High Resolution Ocean Surface properties

Metref, Sammy (1); Cosme, Emmanuel (1); Le Sommer, Julien (1); Verron, Jacques (1); Brankart, Jean-Michel (1); Brasseur, Pierre (1); Tissier, Ann-Sophie (1); Duran, Marina (2), 1: Univ. Grenoble Alpes, CNRS, IRD, Grenoble INP, IGE, France; 2: Laboratoire d'Aérodynamique, Toulouse, France

17:45 Ocean Circulation Prediction From Regional to Coastal Scales

Staneva, Joanna; Schulz-Stellenfleth, Johannes; Ricker, Marcel; Grayek, Sebastian; Jacob, Benjamin; Stanev, Emil, Helmholtz Zentrum Geesthacht, Germany

2nd recommendations slide for poster's authors

Chairs: Masina, Simona (Fondazione Centro Euro-Mediterraneo sui Cambiamenti Climatici (CMCC)), Le Sommer, Julien (CNRS)

Programme Agenda

18:00 - 18:05

Validation and Error Analysis of a Global Ocean Eddy Forecasting System at 1/16°

Cipollone, Andrea (1); Masina, Simona (1,2); Iovino, Doroteaciro (1); Ciliberti, Stefania (1), 1: Centro Euro-Mediterraneo sui Cambiamenti Climatici (CMCC), Italy; 2: Istituto Nazionale di Geologia e Vulcanologia (INGV), Italy

Global Ocean Dynamics in eddy-regime

Iovino, Doroteaciro; Masina, Simona; Pier Giuseppe, Fogli, euro-mediterranean center on climate change (cmcc), Italy

Use of Remote-Sensed Surface Currents for the Validation of a High-Resolution model of the Mediterranean Sea-Black Sea System

Sannino, Gianmaria; Bargagli, Andrea; Carillo, Adriana; Iacono, Roberto; Lombardi, Emanuele; Napolitano, Ernesto; Palma, Massimiliano; Pisacane, Giovanna; Struglia, Maria Vittoria, ENEA, Italy

Session 4 Discussion

18:05 - 18:30

Poster Session - Social Event

18:30 - 20:00

Day 2 - 22/02/2019

Room: Big Hall

Wind/Wave/Current Interactions

Chairs: Chapron, Bertrand (Ifremer), Staneva, Joanna (Helmholz Zentrum Geesthacht), Gommenginger, Christine P (National Oceanography Centre)

08:30 - 09:30

08:30 Driving the Ocean Circulation

Stoffelen, Ad; Belmonte Rivas, Maria, KNMI, Netherlands, The

08:45 Evaluation of Surface Currents forcing in the CMEMS global Wave System

Aouf, Lotfi (1); Dalphinnet, Alice (1); Law-Chune, Stephane (2), 1: Meteo-France, France; 2: Mercator-Ocean, France

09:00 Internal Waves, Submesoscale Eddies, and some of their Interactions off the Tropical West

Programme Agenda

Atlantic

da Silva, José Carlos (1); Magalhaes, Jorge M (1); Buijsman, Maarten C (2); Jeans, Gus (3); Santos-Ferreira, Adriana (1), 1: University of Porto, Portugal; 2: University of Southern Mississippi; 3: Oceanalysis, Ltd

09:15 Satellite Altimeter Combined Measurements :Local Persistent Small-Scale Ocean-Atmosphere Signatures

Chapron, Bertrand (1); Quilfen, Yves (1); Collard, Fabrice (2), 1: Ifremer, France; 2: Oceandatalab, France

2' recommendations slide for poster's authors

Chairs: Chapron, Bertrand (Ifremer), Staneva, Joanna (Helmholz Zentrum Geesthacht)

09:30 - 09:35

Developing and Validating High-Resolution Synoptic Measurements of Total Ocean Surface Current and Wind Vectors from Space

Gommenginger, Christine P; Martin, Adrien C.H., National Oceanography Centre, United Kingdom

EPS-SG SCA Doppler Mode for Ocean Current Estimation

Hoogeboom, Peter (2); Stoffelen, Ad (1); Lopez Dekker, Paco (2), 1: KNMI, DE Bilt, The Netherlands; 2: Tu Delft, Delft, The Netherlands

Session 5 Discussion

09:30 - 10:00

Coffee Break

10:00 - 10:30

Ocean current retrieval

Chairs: Morrow, Rosemary (LEGOS - CNRS/CNES/IRD/University of Toulouse), Passaro, Marcello (Technische Universität München)

10:30 - 12:30

10:30 DUACS Altimetry-Derived Current Products Status And Perspectives

Faugere, Yannice (1); Pujol, Isabelle (1); Ubelmann, Clement (1); Maxime, Ballarotta (1); Taburet, Guillaume (1);

Programme Agenda

Dibarboure, Gerald (2); Picot, Nicolas (2), 1: CLS, France; 2: CNES, France

10:45 Recent Progresses in Coastal and Open Ocean Altimetry and their Possible Applications for Circulation Studies

Passaro, Marcello (1); Boergens, Eva (1); Chereskin, Teresa K (2); Dettmering, Denise (1); Gille, Sarah (2); Gomez-Enri, Jesus (3); Müller, Felix L (1); Piccioni, Gaia (1); Quartly, Graham D (4); Schwatke, Christian (1); Smith, Walter HF (5), 1: Technische Universität München, Germany; 2: Scripps Institution for Oceanography, USA; 3: University of Cadiz, Spain; 4: Plymouth Marine Laboratory, UK; 5: National Oceanic and Atmospheric Administration, USA

11:00 High Resolution Surface Current From The Synergetic Use Of Altimetry, Sea Surface Temperature, Wind And In Situ Measurements

Etienne, Hélène (1); Rio, Marie-Hélène (2); Mulet, Sandrine (1); Greiner, Eric (1); Dibarboure, Gérald (3); Picot, Nicolas (3); Donlon, Craig (4); Guinehut, Stéphanie (1), 1: CLS, France; 2: ESA-ESRIN, Italy; 3: CNES, France; 4: ESA-ESTEC, The Netherlands

11:15 Indirect Determination of Ocean Surface Currents: Available Approaches and Gaps

Isern-Fontanet, Jordi, Institut de Ciències del Mar (CSIC), Spain

11:30 An Assessment of MCC Techniques with Modern Sensors

Quartly, Graham Duncan; Warren, Mark, Plymouth Marine Laboratory, United Kingdom

11:45 Spatio-Temporal Relationships between SSH and SST and/or SSS Fields

Reul, Nicolas; Chapron, Bertrand; Autret, Emmanuelle, Ifremer, France

12:00 Zonal Equatorial Current Mapping With Sentinel-1 Wave Mode Calibrated Doppler

Collard, Fabrice (1); Guitton, Gilles (1); Johnsen, Harald (2); Engen, Geir (2); Recchia, Andrea (3); Bras, Sergio (4), 1: OceanDataLab, France; 2: NORUT, Norway; 3: ARESYS, Italy; 4: ESA ESTEC, Netherland

12:15 Uncovering Finescale Ocean Vertical Currents from the Synergy of In Situ and Satellite Observations

Pascual, Ananda (1); Ruiz, Simon (1); Barceló-Llull, Brbara (2); Sánchez-Román, Antonio (1); Mason, Evan (2); Cutolo, Eugenio (1); Rodríguez-Tarry, Daniel (1), 1: IMEDEA(CSIC-UIB), Spain; 2: Universtity of Washington, US

Lunch Break

12:30 - 13:30

Ocean Current retrieval (Continued)

Programme Agenda

Chairs: Buongiorno Nardelli, Bruno (Consiglio Nazionale delle Ricerche), Johannessen, Johnny A.

(NERSC)

13:30 - 15:00

13:30 3D Upper Ocean Circulation From The Combined Use Of In Situ And Spaceborne Observations

Guinehut, Stephanie; Mulet, Sandrine; Verbrugge, Nathalie; Etienne, Helene; Greiner, Eric, CLS, France

13:45 Estimating 3D Ageostrophic Motion in the Oceans: operational perspectives and future challenges

Buongiorno Nardelli, Bruno (1); Mulet, Sandrine (2); Guinehut, Stephanie (2); Iudicone, Daniele (3), 1: Consiglio Nazionale delle Ricerche, Italy; 2: Collecte Localisation Satellites, France; 3: Stazione Zoologica Anton Dohrn, Italy

14:00 Perspectives for Surface Current reconstruction combining SKIM and altimetry

Ubelmann, Clement (1); Dibarboure, Gerald (2), 1: CLS, France; 2: CNES, France

14:15 Exploiting from Multi-Sensor Synergy to Track Dynamical Structures

Gaultier, Lucile; Collard, Fabrice; Guitton, Gilles; Herlédan, Sylvain; El Khoury Hanna, Ziad; Le Séach, Guillaume, OceanDataLab, France

14:30 Improving the monitoring of Coastal Circulation from the combined use of Altimetry and a Coastal HF Radar

Caballero, Ainhoa (1); Rubio, Anna (1); Ayoub, Nadia (2); Dufau, Claire (3); Davila, Xabier (2); Mader, Julien (1); Manso-Narvarte, Ivan (1); Mulet, Sandrine (3); Larnicol, Guilles (3), 1: AZTI, Spain; 2: LEGOS, France; 3: CLS, France

14:45 Quantifying The Impact Of Dynamical Constraints For Reconstructing Surface Currents

Barth, Alexander (1); Charles, Troupin (1); Reyes, Emma (2); Tintoré, Joaquín (2); Beckers, Jean-Marie (1), 1: University of Liege, Belgium; 2: SOCIB, Spain

2nd recommendations slide for poster's authors

Chairs: Buongiorno Nardelli, Bruno (Consiglio Nazionale delle Ricerche), Johannessen, Johnny A.

(NERSC)

15:00 - 15:30

Validation of Ocean Surface Current Retrievals from Sentinel-1 IW Doppler Shift Using HF-radar and Lagrangian Drifters Observations of the Norwegian Coastal Current

Programme Agenda

Moiseev, Artem (1); Johnsen, Harald (2); Hansen, Morten (1); Johannessen, Johnny (1), 1: The Nansen Center, Bergen, Norway; 2: Northern Research Institute, Troms, Norway

A Parametric Representation to Integrate Current Observations into the Estimation of the Mean Dynamic Topography

Brockmann, Jan Martin; Neyers, Christian; Fenoglio-Marc, Luciana; Schuh, Wolf-Dieter, Institute of Geodesy and Geoinformation, University of Bonn, Germany

The New CNES-CLS18 Mean Dynamic Topography

Mulet, Sandrine (2); Rio, Marie-Hélène (1); Etienne, Helene (2); Picot, Nicolas (3); Dibarboure, Gerald (3), 1: ESA/ESRIN, Italy; 2: CLS, France; 3: CNES, France

Ubiquitous Sensing And Omni-Situ Surface Currents

Guichoux, Yann; Le Goff, Clement, eodyn, France

Ocean Transport and Dynamical Systems: Applications and Perspectives

Mancho, Ana Maria, CSIC, Spain

Retrieval Of Ocean Currents From SMOS

Olmedo, Estrella (1,2); González-Haro, Cristina (1,2); Isern-Fontanet, Jordi (1,2); González-Gambau, Verónica (1,2); Turiel, Antonio (1,2); Martínez, Justino (1,2), 1: Institut de Ciències del Mar (CSIC), Spain; 2: Barcelona Expert Center BEC, Spain

Fast Vs Slow Variability In Ocean Currents

Ponte, Aurélien (1); Haro-Gonzalez, Cristina (2); Autret, Emmanuelle (1); Yu, Xiaolong (1), 1: Ifremer, France; 2: CSIC, Spain

A Synergetic Approach for the Space-Based Sea-Surface Currents Retrieval in the Mediterranean Sea

Ciani, Daniele (1); Rio, Marie-Hélène (2); Buongiorno Nardelli, Bruno (3); Marullo, Salvatore (4); Menna, Milena (5); Santoleri, Rosalia (1), 1: Consiglio Nazionale delle Ricerche, Istituto di Scienze Marine, CNR-ISMAR, Rome, Italy; 2: European Space Agency, ESA-ESRIN, Frascati, Italy; 3: CNR-ISMAR, Naples, Italy; 4: Agenzia Nazionale per le nuove tecnologie, l'energia e lo sviluppo economico sostenibile, ENEA, Frascati, Italy; 5: Istituto Nazionale di Oceanografia e di Geofisica Sperimentale, OGS, Trieste, Italy

High-resolution Currents From The Synergy Between Infrared SST And Altimetry

González-Haro, Cristina (1,2); Isern-Fontanet, Jordi (1,2); Tandeo, Pierre (3); Autret, Emmanuelle (4), 1: Institut de Ciències del Mar (CSIC), Spain; 2: Barcelona Expert Center BEC, Spain; 3: IMT Atlantique, Labs-STICC, Brest, France; 4: Laboratoire d'Océanographie Physique et Spatiale (LOPS) Ifremer, Plouzané, France

Programme Agenda

Synergy Between Altimetry and In-situ Observations to Investigate (Sub)mesoscale Processes

Nencioli, Francesco; Quartly, Graham, EOSA, Plymouth Marine Laboratory, United Kingdom

The 25 Year Mesoscale Eddy And FLSE Aviso Atlases

Faugere, Yannice (1); Delepouille, Antoine (1); Guillaume, Taburet (1); Pujol, Isabelle (1); Dibarboure, Gerald (2); Picot, Nicolas (2), 1: CLS, France; 2: CNES, France

Geodetic-Based Estimation Of The Geostrophic Currents For Semi-Closed Waterbodies. Case Study: The Red Sea.

Mansi, Ahmed Hamdi (1,2); Zaki, Ahmed (3,4); Rabah, Mostafa (5); El-Fiky, Gamal (3,6), 1: Istituto Nazionale di Geofisica e Vulcanologia, Sezione di Pisa, Italy; 2: Department of Civil and Environmental Engineering, Politecnico di Milano, Italy; 3: Construction Engineering and Utilities Department, Faculty of Engineering, University of Zaqazig, Egypt; 4: Department of Civil Engineering, Higher Institute of Engineering in El-Shorouk City, Cairo, Egypt; 5: Department of Civil Engineering, Benha Faculty of Engineering, Benha University, Egypt; 6: Higher Institute of Engineering, Belbeis, Egypt

FSLE Analysis And Validation Of Lagrangian Simulations Based On Satellite-Derived GlobCurrent Velocity Data

Lacorata, Guglielmo (1,2); Corrado, Raffaele (1); Falcini, Federico (1); Santoleri, Rosalia (1), 1: ISMAR, National Research Council, Rome, Italy.; 2: CETEMPS, Center of Excellence on Remote Sensing and Hydro-Meteorology, L'Aquila, Italy.

Mesoscale surface activity in the Eastern Mediterranean: blending Lagrangian drifters with altimetry

Baaklini, Georges (1,3); Brajard, J. (1); Issa, L. (2); Fakhri, M. (3); Mortier, L. (1), 1: Sorbonne Université, CNRS-IRD-MNHN, LOCEAN, France; 2: Lebanese American University, Beirut, Lebanon; 3: National Center for Marine Sciences, CNRS-L, Lebanon

Session 6 Discussion

15:30 - 16:00

Sessions Summary by chairs and wrap-up

16:00 - 16:30