

Sunday 23 September 2012

17:00
-19:00 Pre-registration and Welcome Drink

Monday 24 September 2012

08:00 Registration

Opening Session & Keynote Presentations

Co-chairs: Jérôme Benveniste & Rosemary Morrow

Room: *La Perla*

09:00 **Welcome and Introduction**

Mayor of Venice

Maurice Borqueaud, ESA

Pascale Ultré-Guérard, CNES

09:30 **The Challenges in Long-term Altimetry Calibration for Addressing the Problem of Global Sea Level Change**

Fu, Lee-Lueng ; Haines, Bruce

Jet Propulsion Laboratory, (US)

09:50 **From Satellite Altimetry to Operational Oceanography: a Historical Perspective**

Le Traon, Pierre Yves

Ifremer/Mercator Océan, (FR)

10:10 **A 20 Year Climate Data Record of Sea Level Change: What Have We Learned?**

Nerem, Robert Steven ¹; Chambers, Don ²; Merrifield, Mark ³; Mitchum, Gary ²

1University of Colorado, (US); 2University of South Florida, (US);

3University of Hawaii, (US)

10:30 **Warming in the Southern Ocean: Assessing the Mechanisms with Altimetry and Argo**

Gille, Sarah ; Gilroy, Angelica ; Mazloff, Matthew ; Zajaczkovski, Uriel

University of California San Diego, (US)

10:50 **The Ocean Mean Dynamic Topography: 20 Years of Improvements**

Rio, Marie-Helene ¹; Mulet, Sandrine ¹; Schaeffer, Philippe ¹; Picot, Nicolas ²

1CLS, (FR); 2CNES, (FR)

11:10 **Self-Induced Ekman Pumping Over Oceanic Mesoscale Eddies**

Chelton, Dudley ; Gaube, Peter ; Samelson, Roger M.

CEOAS Oregon State University, (US)

11:40 **Twenty Years of Progress on Global Ocean Tides: The Impact of Satellite Altimetry**

Egbert, Gary ¹; Ray, Richard ²

1Oregon State University, (US); 2NASA/GSFC, (US)

- 12:00 **Conquering the coastal zone: a new frontier for satellite altimetry**
Cipollini, Paolo¹; Benveniste, Jérôme²; Miller, Laury³; Picot, Nicolas⁴; Scharroo, Remko⁵; Strub, P. Ted⁶; Vandemark, Doug⁷; Vignudelli, Stefano⁸; Andersen, Ole B.⁹; Birol, Florence¹⁰; Coelho, Emanuel¹¹; Deng, Xiaoli¹²; Emery, William J.¹³; Ichikawa, Kaoru²⁰; Kourafalou, Villy²¹; Labroue, Sylvie²²; Ray, Richard²³; Saraceno, Martin²⁴; Smith, Walter H. F.³; Thibaut, Pierre²²; Wilkin, John²⁵
 1National Oceanography Centre, (UK); 2ESA/ESRIN, (IT); 3NOAA, (US); 4CNES, (FR); 5NOAA & Altimetrics LLC, (US); 6Oregon State University, (US); 7University of New Hampshire, (US); 8CNR, (IT); 9DTU Space, (DK); 10LEGOS, (FR); 11Stennis Space Center, (US); 12University of Newcastle, (AU); 13University of Colorado, (US); 14TU Darmstadt, (DE); 15University of Cadiz, (ES); 16CSIRO, (AU); 17University of Porto, (PT); 18Fisheries and Oceans, (CA); 19JPL, (US); 20Kyushu University, (JP); 21University of Miami, (US); 22CLS Toulouse, (FR); 23NASA GSFC, (US); 24CONICET-UBA (AR); 25Dutgers University, (US)
- 12:20 **Advances in our Understanding of the Polar Ice Sheets due to Satellite Altimetry**
Shepherd, Andrew¹; Wingham, Duncan²
 1University of Leeds, (UK); 2UCL, (UK)
- 12:40 **20 Years of River and Lake Monitoring from Multi-mission Satellite Radar Altimetry**
Berry, Philippa A.M.¹; Smith, Richard G.¹; Witheridge, Simon¹; Salloway, Mark K.¹; Benveniste, Jérôme²
 1EAPRS Lab, De Montfort University, (UK); 2ESA/ESRIN, (IT)

13:00 Lunch Break

Oceanography - Tides - Internal Tides and High Frequency Processes

Co-chairs: Richard Ray & Ole Andersen

Room: La Perla

- 14:00 **FES 2012: A new tidal Model taking Advantage of nearly 20 Years of altimetry Measurements**
Carrere, Loren¹; Lyard, F.²; Guillot, A.³; Cancet, M.⁴
 1CLS, (FR); 2LEGOS, (FR); 3CNES, (FR); 4NOVELTIS, (FR)
- 14:20 **Fortnightly Ocean Tides, Earth Rotation, and Mantle Anelasticity**
Ray, Richard¹; Egbert, Gary²
 1NASA Goddard, (US); 2Oregon State University, (US)
- 14:40 **Observations of Storm Surges by Satellite Altimetry: Hurricane Igor off Newfoundland**
Han, Guoqi¹; Zhimin, Ma²; Chen, Nancy¹
 1Fisheries and Oceans CA, (CA); 2Memorial University, (CA)
- 15:00 **Latest Improvements in tidal Modelling: a regional Approach**
Cancet, Mathilde¹; Lyard, Florent²; Birol, Florence³; Roblou, Laurent²; Lamouroux, Julien¹; Lux, Muriel¹; Jeansou, Eric¹; Boulze, Dimitri¹; Bronner, Emilie⁴
 1NOVELTIS, (FR); 2LEGOS, (FR); 3LEGOS/CTOH, (FR); 4CNES, (FR)

- 15:20 **How Stationary are the internal Tides in a high resolution global ocean Model?**
(Presented by Arbic, Brian)
Shriver, Jay¹; Arbic, Brian²; Ray, Richard³; Metzger, E. Joseph¹; Wallcraft, Alan¹
1Naval Research Laboratory, (US); 2University of Michigan, (US); 3NASA, (US)

Building the 20-Year Altimetric Record I

Co-chairs: Pascal Bonnefond & Remko Scharroo

Room: Mosaico I

- 14:00 **Oceanography from Radar Altimetry - The Early Years (highlights)**
Hausman, Jessica
Jet Propulsion Laboratory/Caltech, (US)
- 14:10 **The REAPER project: Bringing ERS Altimetry data set to ENVISAT standards (highlights)**
Femenias, Pierre
ESA/ESRIN, (IT)
- 14:20 **Geosat and GFO: Enhancements to two Historical Altimetric Data Sets (highlights)**
Lillibridge, John
NOAA Laboratory for Satellite Altimetry, (US)
- 14:30 **Reprocessing TOPEX for the Climate Data Record (highlights)**
Callahan, Phillip S.
Jet Propulsion Laboratory, (US)
- 14:40 **Consistent Multi-mission Altimetry Products from SALP and RADS**
Remko Scharroo, Thierry Guinle
CNES and Altimetrics LLC, (FR)
- 15:00 **Benefits of the Multi-agency / Multi-disciplinary Approach**
Dorandeu, Joel
Mercator Océan, (FR)

15:20 **Reciprocal Benefits of Multi-mission Satellite Altimetry Comparison**

*Ablain, Michaël¹; Philipps, Sabine¹; Ollivier, Annabelle¹; Picot, Nicolas²; Mitchum, Gary³; Scharroo, Remko⁴; Lillibridge, John⁵; Haines, Bruce J.⁶; Beckley, Brian⁷; Desai, Shailen⁶
1CLS, (FR); 2CNES, (FR); 3USF, (US); 4Altimetrics, (US); 5NOAA, (US); 6JPL, (US); 7NASA, (US)*

Cryosphere I

Co-Chairs: Katharine Giles & Ron Kwok

Room: Sala Festa

14:00 **The New Vision of the Cryosphere Thanks to 20 Years of Altimetry**

*Remy, Frederique
CNRS, (FR)*

14:20 **A Reconciled Estimate of Ice Sheet Mass Balance**

*Shepherd, Andrew¹; Ivins, Erik²; The IMBIE Team,³
1University of Leeds, (UK); 2NASA JPL, (US); 3(27 institutions), (UK)*

14:40 **Comparison of Surface Elevation Changes of the Greenland and Antarctic Ice Sheets from Radar and Laser Altimetry**

*Zwally, H. Jay¹; Brenner, Anita C.²; Barbieri, Kristine³; DiMarzio, John P.⁴; Li, Jun⁴; Robbins, John⁴; Saba, Jack L.³; Yi, Donghui⁴
1NASA Goddard SFC, (US); 2Sigma Space, (US); 3SSAIC, (US); 4SGT, (US)*

15:00 **Interannual and Decadal Variability of Antarctic Ice Shelf Elevations from Multi-Mission Satellite Radar Altimetry**

*Paolo, Fernando¹; Fricker, Helen¹; Padman, Laurence²
1Scripps Institution of Oceanography, (US); 2Earth & Space Research, (US)*

15:20 **Time Series Of Surface Height Of The Antarctic Ice Sheet From Envisat Along Track Radar Altimetry**

*Flament, Thomas ; Remy, Frederique
Laboratoire d'Etudes en Geophysique et Oceanographie Spatiales, (FR)*

15:40 Coffee Break

Oceanography - Large Scale I

Co-chairs: Sarah Gilles & Jens Schroter

Room: La Perla

16:10 **Multi-Decadal Sea Level and Gyre Circulation Variability in the Western Tropical Pacific Ocean**

*Qiu, Bo ; Chen, Shuiming
University of Hawaii at Manoa, (US)*

16:30 **Twenty years of Satellite Altimetry: Understanding the Decadal Variability in the North Pacific Ocean - Overview**

*Lagerloef, Gary¹; Springer, Scott¹; Jiang, ChuanLi¹; Dohan, Kathleen¹; Mitchum, Gary²; Thompson, Phil²
1Earth and Space Research, (US); 2University of S. Florida, (US)*

16:50 **A Statistical Analysis of Gulf Stream Variability from 20 Years of Altimetry**

*Lillibridge, John*¹; *Mariano, Arthur*²
1NOAA Lab. for Satellite Altimetry, (US); 2University of Miami / RSMAS, (US)

17:10 **Atlantic Climate Variability Across Scales: Ocean-atmosphere Coupling and Meridional Circulation during the Satellite Era**

(Presented by Rhines, Peter)
*Häkkinen, Sirpa*¹; *Rhines, Peter*²
1 NASA Goddard Space Flight Center, (US); 2University of Washington, (US)

17:30 **Testing the Applicability of the ENSO recharge/discharge Oscillator Paradigm with Altimetry- and Model-derived Sea Level**

Singh, Awnesh; *Delcroix, Thierry*
IRD/LEGOS, (FR)

Building the 20-Year Altimetric Record II

Co-chairs: Shailen Desai & Pierre Femenias

Room: Mosaico I

16:10 **The Precise Orbit and the Challenge of Long Term Stability**

*Lemoine, Frank*¹; *Cerri, Luca*²; *Otten, Michiel*³; *Bertiger, William*⁴; *Zelensky, Nikita*⁵; *Ziebart, Marek*⁶; *Willis, Pascal*⁷
1NASA Goddard Space Flight Center, (US); 2Centre Nationale D'Etudes Spatiales, (FR); 3ESA/ESOC, (DE); 4Jet Propulsion Laboratory, (US); 5SGT Inc., (US); 6University College London, (UK); 7Institut de Physique du Globe de Paris, (FR)

16:30 **Is There a Drift in the Radiometer? 20 Years of Progress in Developing a Climate Quality Wet Tropospheric Correction from Altimetry**

*Brown, Shannon*¹; *Desai, Shailen*¹; *Eymard, Laurence*²; *Keihm, Stephen*¹; *Obligis, Estelle*³; *Ruf, Christopher*⁴
1Jet Propulsion Lab, (US); 2LOCEAN, (FR); 3CLS, (FR); 4University of Michigan, (US)

16:50 **20 Years of altimeter Waveforms: a Review of Advantages/Drawbacks/Performances of various retracking Algorithms for various Missions and various Applications**

*Thibaut, Pierre*¹; *Smith, Walter*²; *Callahan, Phil*³; *Femenias, Pierre*⁴; *Picot, Nicolas*⁵; *Boy, François*⁵
1Collecte Localisation Satellite, (FR); 2NOAA, (US); 3JPL, (US); 4ESA/ESRIN, (IT); 5CNES, (FR)

17:10 **Continued Progress towards A Next-generation Sea State Bias Correction Including Global Wave Model Data**

*Vandemark, Douglas*¹; *Feng, Hui*²; *Chapron, Bertrand*³; *Tran, Ngan*⁴
1University of New Hampshire, (US); 2UNH-EOS, (US); 3IFREMER, (FR); 4CLS, (FR)

- 17:30 **From conventional LRM Ku Band to new Technologies (SAR Ku Band, Ka Band): expected Performance improvement and potential Challenge to seamlessly merge them with classical Ku Datasets for ocean Applications**
*Picot, Nicolas*¹; *Boy, F.*¹; *Mavrocordatos, C.*²; *Benveniste, J.*³; *Smith, W.*⁴; *Cotton, D. P.*⁵; *Thibaut, P.*⁶; *Verron, J.*⁷; *Cullen, R.*²;
*DESJONQUERES, J.D.*¹
1CNES, (FR); 2ESA/ESTEC, (NL); 3ESA/ESRIN, (IT); 4NOAA, (US);
5SATOC, (UK); 6CLS, (FR); 7LEGI, (FR)

Cryosphere II

Co-chairs: Frédérique Remy & Andrew Shepherd

Room: Sala Festa

- 16:10 **Sea Ice Thickness and Ice Volume from CryoSat-2**
*Laxon, Seymour*¹; *Giles, Katharine*¹; *Ridout, Andrew*¹; *Willatt, Rosemary*¹; *Wingham, Duncan*¹; *Haas, Christian*²; *Hendricks, Stefan*³; *Beckers, Justin*²; *Cullen, Robert*⁴
1University College London, (UK); 2University of Alberta, (CA); 3Alfred Wegener Institute, (DE); 4ESA/ESTEC, (NL)
- 16:30 **Arctic Ocean Sea Ice Freeboard Heights and Dynamic Topography from CryoSat and ICESat**
Skourup, Henriette; *Forsberg, Rene*; *Rose, Stine Kildegaard*
National Space Institute (DTU Space), (DK)
- 16:50 **Sea-ice and Snow Facies Classification from Envisat Altimetry Data over the Polar Regions**
*Tran, Ngan*¹; *Girard-Arduin, Fanny*²; *Rémy, Frédérique*³; *Feng, Hui*⁴; *Féménias, Pierre*⁵
1CLS, (FR); 2IFREMER, (FR); 3LEGOS, (FR); 4UNH, (US); 5ESA/ESRIN, (IT)
- 17:10 **ALTIBERG, Building up a 20-year Database of Small Icebergs**
*Tournadre, Jean*¹; *Legrésy, Benoit*²; *Arduin, Fanny*¹
1IFREMER, (FR); 2LEGOS, (FR)
- 17:30 **CryoSat: ESA's ice Explorer Mission: Status and Achievements**
*Parrinello, Tommaso*¹; *Mardle, Nic*²; *Bouzinac, Catherine*³; *Badessi, Stefano*¹; *Frommknecht, Bjorn*¹; *Cullen, Robert*¹
1ESA/ESRIN, (IT); 2ESA/ESOC, (DE); 3ESA/ESTEC, (NL)

18:00 Ice Breaker Reception

Tuesday 25 September 2012

Oceanography - Large Scale II

Co-chairs: Jens Schroter & Bo Oiu

Room: La Perla

- 08:20 **The Coherence and Impact of Meridional Heat Transport Anomalies in the Atlantic Ocean Inferred from Observations**
*Kelly, Kathryn*¹; *Thompson, LuAnne*¹; *Lyman, John*²
1University of Washington, (US); 2Pacific Marine Environmental Laboratory/NOAA, (US)
- 08:40 **Relation Between PDO and Basin-scale Ocean Circulation Variations**
Jiang, ChuanLi; *Lagerloef, Gary*; *Springer, Scott*
Earth & Space Research, (US)
- 09:00 **On the North Atlantic subpolar gyre Variability as revealed by Altimetry and the OVIDE Data Set**
*Mercier, Herle*¹; *Daniault, Nathalie*²; *Lherminier, Pascale*³; *Sarafanov, Artem*⁴; *Gaillard, Fabienne*³; *Gourcuff, Claire*¹; *Falina, Anastasia*⁴
1CNRS/LPO, (FR); 2UBO/LPO, (FR); 3Ifremer/LPO, (FR); 4SIO, (RU)
- 09:20 **The Indonesian Throughflow Response to Indo-Pacific Climate Variability**
*Sprintall, Janet*¹; *Revelard, Adele*²
1Scripps Institution of Oceanography, (US); 2Ecole Normale Supérieure de Paris, (FR)
- 09:40 **Sea Level, Bottom Pressure and the Dynamics of Large-Scale Interannual Variability in the Southern Ocean**
Ponte, Rui M.; *Piecuch, Christopher G.*
Atmospheric and Environmental Research (AER), (US)
- 10:00 **Surface Geostrophic Circulation of the Mediterranean Sea Derived from Drifter and Satellite Altimeter Data**
Poulain, Pierre-Marie; *Menna, Milena*; *Mauri, Elena*
OGS, (IT)
- 10:20 **The Wind Driven Spin-up of the Beaufort Gyre from Satellite Radar Altimetry**
*Giles, Katharine*¹; *Seymour, Laxon*¹; *Andy, Ridout*¹; *Duncan, Wingham*¹; *Bacon, Sheldon*²
1UCL, (UK); 2NOCS, (UK)

Building the 20-Year Altimetric Record III

Co-chairs: Nicolas Picot & Frank Lemoine

Room: Mosaico I

- 08:20 **Absolute Calibration of the TOPEX/POSEIDON and Jason Measurement Systems: Twenty Years of Monitoring from Dedicated Sites**
*Bonnefond, Pascal*¹; *Desjonqueres, Jean-Damien*²; *Haines, Bruce*³; *Mertikas, Stelios*⁴; *Watson, Christopher*⁵
1Observatoire Cote d'Azur, (FR); 2Centre National d'Etudes Spatiales, (FR); 3Jet Propulsion Laboratory, California Institute of Technology, (US); 4Technical University of Crete, (GR); 5University of Tasmania, (AU)
- 08:40 **Altimeter Drift Estimation: Past, Present and Future**
*Mitchum, Gary*¹; *Beckley, Brian*²; *Leuliette, Eric*³; *Nerem, R. Steven*⁴
1University of South Florida, (US); 2Goddard Space Flight Center, NASA, (US); 3Laboratory for Satellite Altimetry, NOAA, (US); 4University of Colorado, (US)
- 09:00 **Development of the NOAA Sea Level Climate Data Record**
*Leuliette, Eric*¹; *Scharroo, Remko*²; *Mitchum, Gary*³; *Byrne, Deirdre*⁴; *Miller, Laury*¹
1NOAA Laboratory for Satellite Altimetry, (US); 2Altimetrics LLC, (US); 3University of South Florida, (US); 4NOAA/NESDIS/NODC, (US)
- 09:20 **ESA's Sea Level Climate Change Initiative**
*Larnicol, Gilles*¹; *Timms, Gary*²; *Ablain, Michael*¹; *Stammer, Detlef*³; *Johannessen, Johnny*⁴; *Faugère, Yannice*¹; *Cipollini, Paolo*⁵; *Roca, Monica*⁶; *Rudenko, Sergei*¹; *Fernandes, Joana*⁷; *Balmaseda, Magdalena*⁸; *Knudsen, Per*⁹; *Benveniste, Jérôme*¹⁰
1CLS, (FR); 2LOGICA, (UK); 3University of Hamburg, (DE); 4NERSC, (NO); 5NOCS, (UNITED KINGDOM); 6IsardSat, (ES); 7University of Porto, (PT); 8ECMWF, (UK); 9DTU, (DK); 10ESA/ESRIN, (IT)
- 09:40 **DUACS: Data Fusion and High Resolution Products**
*Faugere, Yannice*¹; *Larnicol, Gilles*¹; *Dibarboure, Gerald*¹; *Labroue, Sylvie*¹; *Briol, Frederic*¹; *Pujol, Marie-Isabelle*¹; *Picot, Nicolas*²; *Bronner, Emilie*²; *Guinle, Thierry*²
1CLS, (FR); 2CNES, (FR)

Oceanography - Wave and Wind

Co-chairs: Nicolas Picot & Frank Lemoine

Room: Mosaico I

- 10:00 **Assessment of Two Decades of Altimeter Wind and Wave Products**
Abdalla, Saleh; *Janssen, Peter A.E.M.*; *Bidlot, Jean-Raymond*
ECMWF, (UK)
- 10:20 **Contribution of Satellite Altimetry to Wave Analysis and Forecasting**
*Lefevre, Jean-Michel*¹; *Aouf, Lotfi*¹; *Lirola, Stephane*¹; *Queffeuilou, Pierre*²; *Bentamy, Abderrahim*²; *Quilfen, Yves*²
1Meteo-France, (FR); 2IFREMER, (FR)

Hydrology and Land Processes I

Co-chairs: Philippa Berry & Frédérique Seyler

Room: Sala Festa

- 08:20 **Monitoring Ice and Snow Regime of Eurasian Lakes and Inland Seas from Satellite and In Situ Observations**
Kouraev, Alexei
LEGOS, (FR)
- 08:40 **Adaptive Retracking of Jason-1 Altimetry Data for Inland Waters on the Example of the Volga Reservoirs**
Troitskaya, Yuliya¹; Rybushkina, Galina¹; Balandina, Galina¹; Lebedev, Sergey²; Kostianoy, Andrey³; Soustova, Irina¹
1Institute of Applied Physics RAS, (RU); 2Geophysical Center of RAS, (RU); 3P.P. Shirshov Institute of Oceanology RAS, (RU)
- 09:00 **Analysis and Retracking of Altimeter Waveforms for Hydrological Purposes**
Mercier, Franck; Amarouche, Laïba; Thibaut, Pierre; Vernier, Anne
CLS, (FR)
- 09:20 **Monitoring River Water levels from Space: Quality Assessment of 20 years of Satellite Altimetry Data**
Bercher, Nicolas¹; Kosuth, Pascal²
1UMR Legos, (FR); 2UMR Tetis, Irstea (ex-Cemagref), (FR)
- 09:40 **Direct Comparison of Absolute Water Surface Elevations Between a Global River Model and Satellite Altimeter**
Yamazaki, Dai¹; Lee, Hyongki²; Alsdorf, Doug³; Dutra, Emanuel⁴; Kim, Hyunqjun⁵; Kanae, Shinjiro⁶; Oki, Taikan¹; Bates, Paul⁷
1The University of Tokyo, (JP); 2University of Houston, (US); 3The Ohio State University, (US); 4ECMWF, (UK); 5University of California Center for Hydrologic Modeling, (US); 6Tokyo Institute of Technology, (JP); 7University of Bristol, (UK)
- 10:00 **Global Monitoring of Large Reservoir Storage from Satellite Remote Sensing**
Gao, Huilin¹; Birkett, Charon²; Lettenmaier, Dennis¹
1University of Washington, (US); 2University of Maryland, (US)
- 10:20 **Transforming Surface Water Hydrology Through SWOT Altimetry**
Alsdorf, Douglas¹; Mognard, Nelly²; Rodriguez, Ernesto³
1Ohio State University, (US); 2LEGOS-CNES, (FR); 3NASA-JPL, (US)

10:40 Coffee Break

11:00 Poster Session
Room: Sala Adriatico

12:30 Lunch Break

Oceanography - Mean Sea Level Trends

Co-chairs: Steve Neren & Anny Cazenave

Room: La Perla

- 14:00 **Regional Sea Level Variability Over The Last 60 Years From 2-D Reconstructions Based on Altimetry, OGCM Runs and Tide Gauges**
Meyssignac, Benoit¹; Cazenave, Anny¹; Becker, Melanie²; Henry, Olivier³; Llovel, William⁴; Palanisamy, Hindumathi³
1LEGOS/CNES, (FR); 2IRD, (FR); 3LEGOS/CNRS, (FR); 4JPL, (US)
- 14:20 **Twentieth-century Global-mean Sea-level Rise: is the Whole Greater than the Sum of the Parts?**
White, Neil¹; Gregory, Jonathan²; Church, John¹; Bierkens, Marc³; Box, Jason⁴; van den Broeke, Michiel⁵; Cogley, Graham⁶; Fettweis, Xavier⁷; Hanna, Edward⁸; Leclercq, Paul⁵; Marzeion, Ben⁹; Oerlemans, Hans⁵; Wada, Yoshihide³; Wake, Leanne¹⁰; van de Wal, Roderik⁵
1CSIRO Marine and Atmospheric Research, (AU); 2University of Reading, (UK); 3Utrecht University, (NL); 4Byrd Polar Research Center, and Atmospheric Sciences Program, (US); 5Institute for Marine and Atmospheric Research, Utrecht University, (NL); 6Trent University, (CA); 7University of Liège, (BE); 8University of Sheffield, (UK); 9University of Innsbruck (AT); 10Durham University (UK)
- 14:40 **Quantifying Geophysical Causes of Global Sea-Level Rise**
(Presented by Shum, C.K.)
Kuo, Chunq-yen¹; Shum, C.K.²; Guo, Junyi²
1National Cheng Chung University, (TW); 2Ohio State University, (US)
- 15:00 **Regional Sea-level Trends from Nearly 20 Years of Radar Altimetry**
Barbosa, Susana¹; Scharroo, Remko²; Matos, Jose³
1University of Lisbon, (PT); 2NOAA / Altimetrics LLC, (US); 3Universidade do Porto, FEP, (PT)
- 15:20 **An Integrated Approach to Reconstructing Sea Level**
Hamlington, Benjamin¹; Leben, Robert¹; Kim, Kwang-Yul²
1University of Colorado at Boulder, (US); 2Seoul National University, (ROK)

Outreach

Co-chairs: Vinca Rosmorduc & Margaret Srinivasan

Room: Mosaico I

- 14:00 **Chairman Introduction with BRAT**
Rosmorduc, Vinca
CLS, (FR)
- 14:15 **AU's 'OceanCurrent' Website - an Outreach Activity of the Integrated Marine Observing System**
Griffin, David; Cahill, Madeleine; King, Edward; Mansbridge, Jim
CSIRO, (AU)
- 14:35 **Ten Years of Progress in Downstream Oceanographic Services based on Altimetry and Other EO Data**
Baudel, Sophie; Lefèvre, Fabien
CLS, (FR)
- 14:55 **Sea Level Education for Underrepresented Students through Collaboration with CABPES**
Hamlington, Benjamin; Leben, Robert
University of Colorado at Boulder, (US)

15:10 **Education, Outreach, and Societal Benefits of Ocean Altimetry Missions: 20 Years of Communication & Collaboration**
Srinivasan, Margaret ; Richardson, Annie
Jet Propulsion Laboratory, California Institute of Technology, (US)

15:25 **Altimetry on the web: Aviso**
Rosmorduc, Vinca¹; Bronner, Emilie²; Maheu, Caroline¹
1CLS, (FR); 2CNES, (FR)

Hydrology and Land Processes II

Co-chairs: Paul Bates & Doug Alsdorf

Room: Sala Festa

14:00 **A Comparison of Water Storage Change from Satellite Altimetry and GRACE over the Great Bear Lake, CA, and Bratsk Reservoir, Siberia.**

Moore, Philip ; Pearson, Christopher ; Birkinshaw, Stephen
Newcastle University, (UK)

14:20 **Satellite-based Estimates of Surface and Groundwater Storage Variations in the Amazon Basin**

Frappart, Frédéric¹; Papa, Fabrice¹; Santos da Silva, Joecila²;
Ramillien, Guillaume¹; Calmant, Stéphane¹
1Observatoire Midi-Pyrénées, (FR); 2Universidade Federal do Amazonas, (BR)

14:40 **Flood Mapping Inferred from Remote Sensing Data**

Crétaux, Jean-Francois¹; Bergé-Nguyen, Muriel¹; Abarca Del Rio, Rodrigo²;
Mognard, Nelly¹; Lion, Christine¹; Pandey, Rajesh Kumar³;
Calmant, Stephane⁴; Maisongrande, Philippe¹
1Legos/CNES, (FR); 2Universidad de Concepcion, (CL); 3Legos/NGRI, (FR); 4Leaqs/IRD, (FR)

15:00 **Flood Monitoring From Space**

Shum, C.K.¹; Tseng, Kuo-Hsin²; Alsdorf, Douglas²; Calmant, Stephane³;
Huang, Zhenwei²; Kuo, Chungyen⁴; Lee, Hyongki⁵; Seyler, Frederique³
1Ohio State University, (US); 2Ohio State University/School of Earth Sciences, (US); 3LEGOS/Institut Recherche pour le Developpement, (FR); 4National Cheng Kung University/Dept. of Geomatics, (TW); 5University of Houston/Dept. of Civil & Environmental Engineering, (US)

15:20 **Downscaling of flooded Fraction Derived from Low Resolution Multi Satellite Measurements in Preparation for the SWOT Mission**

Aires, Filipe¹; Prigent, Catherine²; Papa, Fabrice³; Crétaux, Jean-Francois³
1Estellus, (FR); 2LERMA, (FR); 3LEGOS, (FR)

15:40 **Coffee Break**

- 16:10 **Observations of the Influence of Eddy-induced Ekman Pumping on Phytoplankton Trapped in Nonlinear Anticyclonic Mesoscale Eddies**
(Presented by Chelton, Dudley)
Gaube, Peter ¹; Chelton, Dudley ¹; Strutton, Pete ²; Behrenfeld, Michael ¹
1Oregon State University, (US); 2University of Tasmania, (AU)
- 16:30 **Guiding Biogeochemical Campaigns with High Resolution Altimetry: Waiting for the SWOT Mission**
d'Ovidio, Francesco ¹; Zhou, Meng ²; Young Hyang, Park ¹; Nencioli, Francesco ³; Resplandy, Laure ¹; Doglioli, Andrea ³; Petrenko, Anne ³; Blain, Stephane ⁴; Quequiner, Bernard ⁵
1LOCEAN-IPSL CNRS/UPMC/MNHN/IRD, (FR); 2University of Massachusetts, (US); 3Mediterranean Institute of Oceanography, University Marseille, (FR); 4Laboratoire d'Océanographie Microbienne, Banyuls, (FR); 5Laboratoire d'Océanographie Physique et Biogéochimique, Marseille (FR)
- 16:50 **Evaluation of the Latitudinal Variations of the Southern Ocean Sea Water pCO₂ in CMIP5 ESMs using Shipboard Measurements and Satellite-derived Ocean Currents**
Jiang, ChuanLi ¹; Gille, Sarah ²; Sprintal, Janet ²; Sweeney, Colm ³
1Earth & Space Research, (US); 2Scripps Institution of Oceanography, (US); 3NOAA/ESRL/GMD, (US)
- 17:10 **The Contribution of Satellite Altimetry and Ocean Models to Ecosystem-based Fishery Management**
Gaspar, Philippe; Lehodey, Patrick; Senina, Inna
CLS, (FR)
- 17:30 **CryoSat-2 Mission: A Contribution to the Operational Altimetry Constellation for the Mesoscale Observation**
Labroue, Sylvie ¹; Briol, F. ¹; Pujol, I. ¹; Dibarboue, G. ¹; Boy, F. ²; Picot, N. ²; Guinle, T. ²; Parrinello, T. ³; Féménias, P. ³
1CLS, (FR); 2CNES, (FR); 3ESA/ESRIN, (IT)
- 17:50 **Monitoring the Ocean from Observations**
Guinehut, Stephanie ¹; Rio, Marie-Helene ¹; Mulet, Sandrine ¹; Dhomps, Anne-Lise ²; Larnicol, Gilles ¹
1CLS, (FR); 2LEGOS, (FR)
- 18:10 **20 Year Trends in the Surface Circulation**
Dohan, Kathleen; Lagerloef, Gary S. E.
Earth and Space Research, (US)

Coastal Altimetry

Co-chairs: Paolo Cipollini & Florence Birol

Room: *Mosaico I*

- 16:10 **The PISTACH Project for Coastal and Hydrology Altimetry: 2012 Project Status and Activities**
*Mercier, Franck*¹; *Picot, Nicolas*²; *Guinle, Thierry*²; *Cazenave, Anny*³; *Kosuth, Pascal*⁴; *SEYLER, Frédérique*⁵; *PISTACH, Team*¹
1CLS, (FR); 2CNES, (FR); 3CNES/LEGOS, (FR); 4CEMAGREF, (FR); 5IRD, (FR)
- 16:30 **COASTALT Project's Contribution to the Development and Dissemination of Coastal Altimetry**
*Cipollini, Paolo*¹; *Barbosa, Susana*²; *Benveniste, Jérôme*³; *Bos, Machiel*⁴; *Caparrini, Marco*⁵; *Challenor, Peter*¹; *Coelho, Henrique*⁶; *Dinardo, Salvatore*³; *Fernandes, Joana*⁷; *Gleason, Scott*⁸; *Gómez-Enri, Jesus*⁹; *Gommenginger, Christine*¹; *Lázaro, Clara*⁷; *Lucas, Bruno M.*³; *Martin-Puig, Cristina*⁵; *Moreno, Laura*⁵; *Nunes, Alexandra*⁷; *Pires, Nelson*⁷; *Quartly, Graham*¹; *Scozzari, Andrea*¹⁰; *Snaith, Helen*¹; *Tsimplis, Mikis*¹; *Vignudelli, Stefano*¹⁰; *West, Luke*¹; *Wolf, Judith*¹; *Woodworth, Phil*¹

1National Oceanography Centre, (UK); 2University of Lisbon, (PT); 3ESA/ESRIN, (IT); 4CIIMAR, Cadiz, (ES); 5Starlab, (ES), 6HIDROMOD, (PT), 7University Porto (PT), 8Concordia University, (CA), 9University Cadiz, (ES). 10CNR, (IT)
- 16:50 **Effectiveness of Various Environmental Corrections and Sea Level Variability near the Indian Coast using PISTACH Coastal Product**
Kumar, Raj; *Antonita, Maria*; *Ratheesh, Smitha*; *Sharma, Rashmi*
1Space Applications Centre, (IN)
- 17:10 **3D coastal Mesoscale from Lagrangian Analysis of Altimetry and multi-sensor Observations**
*Bouffard, Jérôme*¹; *Petrenko, Anne*¹; *Doglioli, Andréa*¹; *Escudier, Romain*²; *Pascual, Ananda*²; *Nencioli, Francesco*¹
1Mediterranean Institute of Oceanography (MIO), (FR); 2IMEDEA (UIB-CSIC), (ES)
- 17:30 **The Source of the Leeuwin Current Seasonality**
Ridgway, Ken
CSIRO Marine & Atmospheric Research, (AU)
- 17:50 **Using HF Radar Coastal Currents to Correct Satellite Altimetry**
Emery, William (Bill); *Roesler, Carolyn*; *Qazi, Waqas*
University of Colorado, (US)
- 18:10 **An Inter-comparison Between Algorithms For Wet Path Delay Retrieval In The Coastal Regions**
*Fernandes, M. J.*¹; *Brown, S.*²; *Obligis, E.*³; *Lazaro, C.*¹; *Nunes, A. L.*⁴

1Universidade do Porto, Faculdade de Ciências; CIIMAR, (PT); 2JPL, (US); 3CLS, (FR); 4Instituto Politécnico do Porto, ISEP; CIIMAR, (PT)

Hydrology and Land Processes III

Co-chairs: Peter Bauer-Gottwein & Jean-Francois Crétau

Room: Sala Festa

- 16:10 **Radar Altimetry for Improving a Large Scale Hydrodynamic Model of the Amazon**
*Paiva, Rodrigo*¹; *Bonnet, Marie-Paule*¹; *Collischonn, Walter*²; *Gonçalves, Luis Gustavo*³; *Calmant, Stéphane*⁴
1GET/OMP, UMR 5563 CNRS/IRD/Université Paul Sabatier, (FR); 2Instituto de Pesquisas Hidráulicas / Universidade Federal do Rio Grande do Sul, (FR); 3Centro de Previsão de Tempo e Estudos Climáticos CPTEC/INPE, (BR); 4LEGOS, UMR 5564 CNES/CNRS/UT3/IRD/CNES, (FR)
- 16:30 **Satellite Monitoring, Warning/alert System, and Seasonal/Interannual Variability of the Poopo-UruUru Lake System and Coioasa and Uvuni Salars.**
*Abarca-del-Rio, R.*¹; *Crétau, J.F.*²; *Berge-Nguyen, M.*²; *Maisongrande, P.*²
1DGEO, UDEC, (CL); 2CNES/Legos, (FR)
- 16:50 **Using Radar Altimetry to update a Hydrological Model of the Zambezi River Basin**
Michailovsky, Claire; *Bauer-Gottwein, Peter*
Technical University of DK, (DK)
- 17:10 **Improvement in discharge Estimates in a Remote ungauged Basin by including space Data Information into a hydrological Model**
*Paris, Adrien*¹; *Calmant, Stéphane*²; *Collischonn, Walter*³; *Santos da Silva, Joecila*⁴; *Paiva, Rodrigo*⁵; *Bonnet, Marie-Paule*⁶; *Seyler, Frederique*⁷
1Universidade Federal do Rio Grande do Sul, (BR); 2UMR LEGOS, IRD, (FR); 3Instituto de Pesquisas Hidraulicas - Universidade Federal do Rio Grande do Sul, (BR); 4Centro de Estudos Superiores do Trópico Úmido - Universidade do Estado do Amazonas, (BR); 5UMR GET, IRD - UT3 / IPH - UFRGS, (FR); 6UMR GET, IRD - UT3, (FR); 7UMR Espace DEV, IRD, (FR)
- 17:30 **ACE2 Validation and Future Look**
*Smith, Richard G.*¹; *Berry, Philippa A.M.*¹; *Benveniste, Jérôme*²
1EARPS Laboratory, De Montfort University, (UK); 2ESA/ESRIN, (IT)
- 17:50 **Potential of Radar Altimetry for Estimating Soil Moisture**
*Frappart, Frederic*¹; *Fatras, Christophe*¹; *Mougin, Eric*¹; *Borderies, Pierre*²; *Grippa, Manuela*¹; *Hiernaux, Pierre*¹
1Observatoire Midi-Pyrenees, (FR); 2ONERA, (FR)
- 18:10 **ICESat Altimeter Data for Gauge Datum Correction and Hydraulic Model Validation**
Hall, Amanda; *Neal, Jeff*; *Schumann, Guy*; *Bates, Paul*
University of Bristol, (UK)

- 08:20 **A Revised Estimate of Upper Ocean Heat Content in Light of a New XBT Bias Correction and Implications for the Global Energy Balance**
Willis, Josh
Jet Propulsion Laboratory, (US)
- 08:40 **Sea Level Trends in Ocean Reanalyses/Syntheses**
Carton, James ; Chepurin, Gennady
University of Maryland, (US)
- 09:00 **Evaluating an Ensemble of Global Ocean Circulation Estimates using Satellite Altimetry, Gravity Field Models and Argo data**
Schroeter, Jens ¹; Sidorenko, Dmitri ¹; Wang, Qiang ¹; Brunnabend, Sandra-Esther ¹; Timmermann, Ralph ¹; Danilov, Sergey ¹; Bosch, Wolfgang ²; Savcenko, Roman ²; Rummel, Reiner ³; Albertella, Alberta ³

1AWI, (DE); 2DGFI, (DE); 3IAPG, (DE)
- 09:20 **Understanding Decadal Changes In Regional Sea Level Patterns And Their Causes In A Data-Constrained Ocean General Circulation Model**
Piecuch, Christopher ; Ponte, Rui
Atmospheric and Environmental Research, Inc., (US)
- 09:40 **Global Eddy-Permitting Ocean Reanalyses and Simulations of the Period 1992 to Present**
Parent, Laurent ¹; Ferry, Nicolas ¹; Garric, Gilles ¹; Bricaud, Clement ¹; Legalloudec, Olivier ¹; Testut, Charles-Emmanuel ¹; Drevillon, Marie ¹; Desportes, Charles ¹; Drillet, Yann ¹; Barnier, Bernard ²; Dussin, Raphael ²; Jourdain, Nicolas ²; Molines, Jean Marc ²; Greiner, Eric ³; Guinehut, Stephanie ³; De Boyer Montegut, Clement ⁴
1Mercator Océan, (FR); 2LEGI, CNRS, Université de Grenoble, (FR); 3CLS, Ramonville Saint Agne, (FR); 4CORIOLIS Data Assembly Center, IFREMER Brest. (FR)
- 10:00 **Imprint of the Intrinsic Low-frequency Ocean Variability on Satellite Observations and Climate Indices.**
Penduff, Thierry ¹; Juza, Mélanie ²; Gregorio, Sandy ²; Barnier, Bernard ¹; Dewar, William K. ³; Molines, Jean-Marc ¹
1CNRS-LEGI, (FR); 2LEGI, (FR); 3FSU - EOAS, (US)

Oceanography - Mesoscale I

Co-chairs: Bo Qiu & David Griffin

Room: *Mosaico I*

- 08:20 **Beta-Plumes and Origin of striated Patterns in the Ocean**
*Maximenko, Nikolai¹; Melnichenko, Oleg¹; Di Lorenzo, Emanuele²;
Belmadani, Ali¹; Schneider, Niklas¹*
1University of Hawaii, (US); 2Georgia Institute of Technology, (US)
- 08:40 **Use of Satellite Data with Dynamical Concepts to Diagnose the Fine Resolution Ocean Dynamics in the first 500m Below the Surface**
Klein, Patrice; Ponte, Aurélien
IFREMER-CNRS, (FR)
- 09:00 **Mean-flow and Topographic Control on Surface Eddy-mixing in the Southern Ocean**
Sallée, Jean-Baptiste¹; Speer, Kevin²; Rintoul, Steve³
1British Antarctic Survey, (UK); 2Florida State University, (US); 3CSIRO, (AU)
- 09:20 **Can We Infer Ocean Dynamics from Altimeter Wavenumber Spectra?**
(Presented by Arbic, Brian)
Richman, James¹; Shriver, Jay¹; Arbic, Brian²; Ray, Richard³
1Naval Research Laboratory, (US); 2University of Michigan, (US); 3NASA Goddard Space Flight Center, (US)
- 09:40 **Impact of Horizontal Resolution on Ocean Surface Energy Cascades Computed in Frequency and Wavenumber Domains**
Arbic, Brian¹; Scott, Robert²; Flierl, Glenn³; Morten, Andrew¹; Polzin, Kurt⁴; Richman, James⁵; Shriver, James⁵
1University of Michigan, (US); 2University of Brest, (FR); 3MIT, (US); 4Woods Hole Oceanographic Institution, (US); 5Naval Research Laboratory, (US)
- 10:00 **Past, Present, and Future Developments in Rossby Wave Theories and Observations**
Tailleux, Remi
University of Reading, (UK)

Marine Geodesy, Gravity, Bathymetry and Mean Sea Surface

Co-chairs: Marie-Hélène Rio & Walter Smith

Room: *Sala Festa*

- 08:20 **20 Years of Marine Gravity Mapping from Altimetry and its Impact on Improvements in Altimeter Range Precision**
*Smith, Walter¹; Sandwell, David²; Andersen, Ole³; McAdoo, David¹;
Marks, Karen¹*
1NOAA Lab for Satellite Altimetry, (US); 2Scripps Institution of Oceanography, (US); 3Danish Space Centre, (DK)
- 08:40 **Using the GOCE Error Covariance Products to improve Geodetic Estimates of the Ocean's MDT and Geostrophic Currents**
Bingham, Rory¹; Haines, Keith²; Lea, Daniel³
1Newcastle University, (UK); 2Reading University, (UK); 3Met Office, (UK)

- 09:00 **Mean Sea Surface and Dynamic Topography of the Arctic Ocean from Envisat and ICESat**
*Farrell, Sinead Louise*¹; *McAdoo, David C*²; *Laxon, Seymour W*³; *Zwally, H Jay*⁴; *Yi, Donghui*⁴; *Ridout, Andy*³; *Giles, Katharine*³
1University of Maryland, (US); 2NOAA Laboratory for Satellite Altimetry, (US); 3National Centre for Earth Observation - Centre for Polar Observation and Modelling, University College, (UK); 4Cryospheric Sciences Branch, NASA Goddard Space Flight Center, (US)
- 09:20 **A Factor of 2 Improvement in Global Marine Gravity and Bathymetry from CrvoSat and Envisat Altimetry**
*Sandwell, David*¹; *Garcia, Emmanuel*¹; *Smith, Walter H. F.*²
1Scripps Institution of Oceanography, (US); 2National Oceanic and Atmospheric Administration, (US)
- 09:40 **The MSS from Satellite Altimetry and its Improvement During the past 20 Years**
*Andersen, Ole Baltazar*¹; *Knudsen, Per*¹; *Schaeffer, Philippe*²; *Faugere, Yannice*²
1DTU Space, (DK); 2CLS, (FR)
- 10:00 **A two-decade Time Series of Eddy-resolving dynamic ocean Topography**
Bosch, Wolfgang; *Savcenko, Roman*
DGFI, (DE)

10:20 Coffee Break

Oceanography - Integrated Systems - Applications - Forecast - Assimilation III

Co-chairs: Eric Dombrowsky & Pierre De Mey

Room: La Perla

- 10:50 **GODAE OceanView : Towards a Long-term International Program for Ocean Analysis and Forecasting**
*Dombrowsky, Eric*¹; *Schiller, Andreas*²; *Wilmer Becker, Kirsten*³
1Mercator Océan, (FR); 2CSIRO, (AU); 3The Met Office, (UK)
- 11:10 **The Dependence of Short-range Ocean Forecasts on Satellite Altimetry**
Oke, Peter
CSIRO, (AU)
- 11:30 **Implementing a 3D-VAR Data Assimilation System in the Met Office's Ocean Forecasting Model.**
Waters, Jennifer; *Lea, Daniel*; *Martin, Matthew*; *While, James*
Met Office, (UK)
- 11:50 **Evaluation of Real Time and Future Forecasting Systems at Mercator Océan: Overview and Recent Improvements at the Global and Regional Scales.**
*Greiner, Eric*¹; *Lellouche, Jean-Michel*²; *Le Galloudec, Olivier*²; *Drévillon, Marie*²; *Regnier, Charly*²; *Garric, Gilles*²; *Tranchant, Benoît*¹; *Bourdallé-Badie, Romain*²; *Bricaud, Clément*²; *Benkir, Mounir*¹; *Reffray, Guillaume*²; *Levier, Bruno*²; *Chanut, Jérôme*²; *Drillet, Yann*²
1CLS, (FR); 2Mercator Océan, (FR)

- 12:10 **Ocean Monitoring and Forecasting in the European MyOcean GMES Marine Initiative**
*Bahurel, Pierre*¹; *Bell, Mike J.*²; *Johannessen, Johnny A.*³; *Le Traon, Pierre-Yves*⁴; *Nittis, Kostas*⁵; *Pinardi, Nadia*⁶; *Podaire, Alain*¹; *She, Jun*⁷
1Mercator Océan, (FR); 2Met Office, (UK); 3NERSC, (NO); 4IFREMER, (FR); 5HCMR, (GR); 6INGV, (IT); 7DMI, (DK)

Oceanography - Mesoscale II

Co-chairs: Frank Shillington & Somayajulu Yenamandra

Room: Mosaico I

- 10:50 **Topographic Waves in the Norwegian Sea observed with Satellite Altimetry**
*Volkov, Denis*¹; *Belonenko, Tatiana*²; *Foux, Victor*²
1University of California Los Angeles / Jet Propulsion Laboratory, (US); 2Saint-Petersburg State University, (RU)
- 11:10 **On the Joint Use of High Resolution Tracer Images and Altimetric Data for the Control of Ocean Circulations**
Gaultier, Lucile; *Verron, Jacques*; *Brasseur, Pierre*; *Brankart, Jean-Michel*

CNRS, LEGI, (FR)
- 11:30 **Interannual Variability of the North Pacific Subtropical Countercurrent and its Associated Mesoscale Eddy Field**
Chen, Shuiming; *Qiu, Bo*
University of Hawaii at Manoa, (US)
- 11:50 **Beyond the superficial: Delving into the Deeper Currents around Madagascar**
Quartly, Graham
National Oceanography Centre, (UK)
- 12:10 **Global Temporal Trends in Eddy Kinetic Energy from Satellite Altimetry**
*O'Donnell, Christopher*¹; *Heywood, Karen*¹; *Stevens, David*¹; *Shuckburgh, Emily*²
1University of East Anglia, (UK); 2British Antarctic Survey, (UK)

The Future of Altimetry I

Co-chairs: Sophie Coutin-Faye & Peter Wilczynski

Room: Sala Festa

- 10:50 **HY2 Data Quality Assessment and Cross-Calibration**
Bao, Lifeng
Institute of Geodesy and Geophysics, (CN)
- 11:05 **The SARAL/AltiKa Mission : a Ka-band Mission for Ocean Mesoscale Studies in 2012**
*Guillot, Amandine*¹; *Lambin, Juliette*¹; *Verron, Jacques*²; *Sengenes, Pierre*¹; *Noubel, Jocelyne*¹; *Steunou, Nathalie*¹; *Picot, Nicolas*¹; *Gairola, Rakesh*³; *Murthy, Raqava*³
1CNES, (FR); 2LEGI, (FR); 3ISRO, (IN)

- 11:20 **The Jason-3 Mission: The Transition of Ocean Altimetry from Research to Operations**
(Presented by Sophie Coutin-Faye)
Gerard Zaouche³, Veronique Couderc³, Francois Parisot⁴, Parag Vaze¹, Walid Bannoura²
1JPL, (US); 2 NOAA (US); 3CNES, (FR); 4EUMETSAT, (UE)
- 11:35 **GMES Sentinel-3 and its Surface Topography Mission**
Drinkwater, Mark¹; Donlon, Craig¹; Berrutti, Bruno¹; Mecklenberg, S.²; Nieke, J.¹; Rebhan, H.¹; Klein, U.¹; Buongiorno, A.²; Mavrocordatos, C.¹; Frerick, J.¹; Seitz, B.¹; Goryl, P.²; Féménias, P.²; Stroede, J.¹; Sciarra, R.³
¹ESA/ESTEC, (NL);²ESA/ESRIN, (IT);³SERCO Italia SpA, (IT)
- 11:50 **From CryoSat-2 to Jason-CS**
Francis, Richard¹; Cullen, Robert¹; Buechler, Kurt¹; Parisot, Francois²; Coutin-Faye, Sophie³; Wilczynski, Peter⁴; Vaze, Parag⁵
¹ESA/ESTEC, (NL);²EUMETSAT, (FR);³CNES, (FR); ⁴NOAA, (US); ⁵NASA/JPL, (US)
- 12:10 **SWOT: A High-Resolution Wide-Swath Altimetry Mission for Oceanography and Hydrology**
Fu, Lee-Lueng¹; Rodriguez, Ernesto¹; Alsdorf, Douglas²; Morrow, Rosemary³; Mognard, Nelly³; Vaze, Parag¹; Lafon, Thierry⁴
1Jet Propulsion Laboratory, (US); 2Ohio State University, (US); 3LEGOS – Observatoire Midi-Pyrénées Toulouse, (FR); 4Centre National d'Etudes Spatiales. (FR)

12:30 *Lunch Break*

Plenary – Future Observational Requirements: Risks and Challenges

Moderators: Jean-Louis Fellous & Albert Fischer

Room: La Perla

- 14:00 **Argonautica, an educational Project using JASON Data**
de Staerke, Danielle¹; Bonnefond, Pascal²
1CNES, (FR); 2GéoAzur, (FR)
- 14:15 **The Sea Level Climate record**
Cazenave, Anny
LEGOS, (FR)
- 14:30 **The Small Scale Processes - Sub-Mesoscale, Coastal and Marine Geoid**
Fu, Lee-Lueng
JPL, (US)
- 14:45 **Inland Surface Water**
Bauer-Gottwein, Peter
DTU, (DK)
- 15:00 **The Cryosphere**
Remy, Frédérique
LEGOS, (FR)
- 15:15 **Operational Oceanography and Forecasting (Assimilation, Wind-Wave):**
Dombrovsky, Eric
GODAE

15:30 **The Role of the Altimetry Constellation**

Hans Bonekamp

EUM Ocean Programme

15:45 **Round Table Objectives and Organisation**

Benveniste, Jérôme and Morrow, Rosemary

15:50 Coffee Break

16:20 Round Table

Discussion 1: Future Observational Requirements

Paul Bates (Bristol University, UK) - Inland Water
Seymour Laxon (UCL, UK) - Cryosphere
Steve Nerem (University of Colorado, US) - Sea Level
Paolo Cipollini (NOCS, UK) - Coastal/Mesoscale
David Sandwell (Scripps, US) - Marine Geodesy
Pierre-Yves Letraon (Ifremer, FR) - Integrated
Nadia Pinardi (Bologna University, IT) - JCOM

Round Table Discussion 2: Status and Future Altimeter Missions

Mark Drinkwater (ESA/ESTEC) - Sentinel-3
Richard Francis (ESA/ESTEC) - Jason-CS
Juliette Lambin (CNES) – SARAL/AltiKa, Jason-3, SWOT
Lee-Lueng Fu (NASA) - Jason-3, SWOT
Francois Parisot (Eumetsat)
Peter Wilczynski (NOAA) - Jason-3/Jason-CS
Hervé Jeanjean (Policy Officer, EC GMES Bureau)

20:00 Gala Dinner