
2017 Ocean Surface Topography Science Team Meeting

Monday, October 23 2017 - Friday, October 27 2017

In celebration of the 25th anniversary of the launch of TOPEX/Poseidon, this ocean surface topography science team meeting will include special splinter sessions on analysis of current SAR data with a focus on benefits in coastal areas and other water surfaces and lasts for the entire week.

[**Event's program**](#)

List of event's sessions

Monday, October 23 2017

08:45 - 12:30

OSTST Opening Plenary Session
Symphony Ballroom IV

14:00 - 15:45

Science Keynotes Session
Symphony Ballroom IV

16:15 - 18:00

Science I: Climate data records for understanding the causes of global and regional sea level variability and change
Symphony Ballroom IV

Tuesday, October 24 2017

09:00 - 12:30

Instrument Processing: Measurement and Retracking
Symphony Ballroom IV

09:00 - 12:30

Precision Orbit Determination
Symphony II

14:00 - 15:45

Instrument Processing: Propagation, Wind Speed and Sea State Bias
Symphony Ballroom IV

14:00 - 15:45

Outreach, Education and Altimetric Data Services
Symphony II

16:15 - 18:00

Science II: Large Scale Ocean Circulation Variability and Change
Symphony Ballroom IV

Wednesday, October 25 2017

09:00 - 12:30

Regional and Global CAL/VAL for Assembling a Climate Data Record
Symphony Ballroom IV

09:00 - 10:30

Application development for Operations
Symphony II

11:00 - 12:30

Advances in coastal altimetry: measurement techniques, science applications and synergy with in situ and models
Symphony II

14:00 - 15:45

Quantifying Errors and Uncertainties in Altimetry data
Symphony II

14:00 - 15:45

Science IV: 25 years of satellite altimetry for Cryosphere and Hydrology: from experimental to emerging operational applications
Symphony Ballroom IV

16:15 - 18:00

Science III: Mesoscale and sub-mesoscale oceanography
Symphony Ballroom IV

Thursday, October 26 2017

09:00 - 10:30

The Geoid, Mean Sea Surfaces and Mean Dynamic Topography
Symphony II

09:00 - 10:30

Tides, internal tides and high-frequency processes
Symphony Ballroom IV

11:00 - 12:30

Round tables

See the program for rooms' distribution

14:00 - 18:00

Poster session

Concerto Ballroom

14:00 - 18:00

Sentinel-6/Jason-CS Mission Advisory Group meeting (restricted to MAG members)

Symphony Ballroom IV

Friday, October 27 2017

09:00 - 12:30

OSTST Closing Plenary Session

Symphony Ballroom IV

Programme at a Glance

Mon 23	Tue 24		Wed 25		Thu 26		Fri 27
8 AM Registration and Presentation upload	8 AM Registration and Presentation upload		8 AM Registration and Presentation upload		8 AM Registration and Presentation upload		8 AM Registration and Presentation upload
9 AM OSTST Opening Plenary Session Symphony Ballroom IV	9 AM Instrument Processing (Part I); Measurement and Retracking Symphony Ballroom IV	9 AM Precision Orbit Determination (Part I) Symphony II	9 AM Application development for Near Real-Time Operations Symphony II	9 AM Regional and Global CAL/VAL for Assembling a Climate Data Record (Part I) Symphony Ballroom IV	9 AM The Geoid, Mean Sea Surfaces and Mean Dynamic Topography Symphony II	9 AM Tides, internal tides and high-frequency processes Symphony Ballroom IV	9 AM OSTST Closing Plenary Session Symphony Ballroom IV
10:30 AM Coffee Break	10:30 AM Coffee Break		10:30 AM Coffee Break		10:30 AM Coffee Break		10:30 AM Coffee Break
11 AM OSTST Opening Plenary Session (con't) Symphony Ballroom IV	11 AM Instrument Processing (Part II); Measurement and Retracking Symphony Ballroom IV	11 AM Precision Orbit Determination (Part II) Symphony II	11 AM Advances in coastal altimetry: measurement techniques, science applications... Symphony II	11 AM Regional and Global CAL/VAL for Assembling a Climate Data Record (Part II) Symphony Ballroom IV	11 AM Round Tables See rooms distribution in the detailed programme		11 AM OSTST Closing Plenary Session (con't) Symphony Ballroom IV
12:30 PM Working lunch Symphony Ballroom III (all days)	12:30 PM Working lunch		12:30 PM Working lunch		12:30 PM Working lunch		12:30 PM Working lunch
2 PM Science Keynotes Symphony Ballroom IV	2 PM Instrument Processing (Part III): Propagation, Wind Speed and Sea State Bias Symphony Ballroom IV	2 PM Outreach, Education & Altimetric Data Service Symphony II	2 PM Science IV: 25 years of Satellite Altimetry for Cryosphere and Hydrology: from Experimentation... Symphony Ballroom IV	2 PM Quantifying Errors and Uncertainties in Altimetry Data Symphony II	2 PM Sentinel-6/ Jason-CS Mission Advisory Group Meeting Symphony Ballroom IV	2 PM Poster Session Concerto Ballroom	
3:45 PM Coffee Break	3:45 PM Coffee Break		3:45 PM Coffee Break		3:45 PM Coffee Break		
4:15 PM - 6 PM Science I: Climate data records for understanding the causes of global and regional sea level variability and change Symphony Ballroom IV	4:15 PM - 6 PM Science II: Large Scale Ocean Circulation Variability and Change Symphony Ballroom IV		4:15 PM - 6 PM Science III: Mesoscale and submesoscale oceanography Symphony Ballroom IV		4:15 PM - 6 PM Sentinel-6/ Jason-CS Mission Advisory Group Meeting (con't) Symphony Ballroom IV	4:15 PM - 6 PM Poster Session (con't) Concerto Ballroom	
	7 PM - 8 PM Cocktails at the Frost Science Museum						
	8 PM - 11 PM Dinner at the Frost Science Museum						

Oral sessions

Monday, October 23 2017

08:00 - 09:00: Registration and presentation upload

OSTST Opening Plenary Session

Session chairs: Pascal Bonnefond, Craig Donlon, Eric Leuliette, Remko Scharroo, Josh Willis
(Mon, Oct 23 2017, 08:45 - 12:30)

Symphony Ballroom IV

08:45 - 08:50:

[Welcoming remarks and meeting overview](#)

Josh Willis (JPL, United States)

08:50 - 09:00:

[Sea level rise impacts to Miami Dade County](#)

Katherine Hagemann (Regulatory and Economic Resources Department, United States)

09:00 - 09:30:

[NASA/CNES/EUMETSAT/NOAA/ESA program status](#)

Program Managers (NASA/CNES/EUMETSAT/NOAA/ESA)

09:30 - 09:45:

[Jason-2 mission overview](#)

Christophe Maréchal (CNES, France)

09:45 - 10:00:

[Jason-3 mission overview](#)

Christophe Maréchal (CNES, France)

10:00 - 10:30:

[Invited talk - Broadening not Strengthening: A 24-year altimeter proxy for Agulhas Current](#)

[transport](#)

Lisa Beal (University of Miami, United States)

10:30 - 11:00: Coffee break

11:00 - 11:15:

[Sentinel-3 mission overview](#)

Craig Donlon (ESA/ESTEC, Netherlands)

11:15 - 11:30:

[SARAL/AltiKa mission overview](#)

Nadège Queruel (CNES, France)

11:30 - 11:45:

[Sentinel-6/Jason-CS news and developments](#)

Pierrick Vuilleumier (ESA/ESTEC, Netherlands), John Loving (NOAA, United States), François Parisot (EUMETSAT, Netherlands), Parag Vaze (NASA/JPL, United States), Gilles Tavernier (CNES, France)

11:45 - 11:55:

[Report from the Sentinel-6/Jason-CS Mission Advisory Group](#)

Craig Donlon (ESA/ESTEC, Netherlands), Eric Leuliette (NOAA, United States), Remko Scharroo (EUMETSAT, Germany), Joshua Willis (JPL, USA), Pascal Bonnefond (Observatoire de Paris - SYRTE, France)

11:55 - 12:05:

[CFOSAT: A new satellite for the observation of wind and waves](#)

Cédric Tourain (CNES, France)

12:05 - 12:15:

[SWOT status](#)

Lee-Lueng Fu (JPL, United States), Rosemary Morrow (LEGOS, France)

12:15 - 12:30:

[Topics to be discussed in the splinters](#)

Eric Leuliette (NOAA, United States)

12:30 - 14:00: Working lunch

Science Keynotes Session

Session chairs: Pascal Bonnefond, Craig Donlon, Eric Leuliette, Remko Scharroo, Josh Willis
(Mon, Oct 23 2017, 14:00 - 15:45)

Symphony Ballroom IV

14:00 - 14:25: Keynote/invited

[Further understanding the global mean sea level record over the satellite era](#)

Christopher Watson (University of Tasmania, Australia), Xian Yao Chen (Ocean University of China and Qingdao National Laboratory of Marine Science and Technology, China), Xuebin Zhang (CSIRO, Australia), John Church (University of New South Wales, Australia), Matt King (University of Tasmania, Australia), Didier Monselesan (CSIRO, Australia), Benoit Legresy (CSIRO, Australia), Christopher Harig (University of Arizona, USA), Sam Royston (University of Tasmania, Australia)

14:25 - 14:50: Keynote/invited

[Temporal and Spatial Changes in the Dominance of the Wind-driven and Density-driven processes in the South Atlantic MOC](#)

Shenfu Dong (CIMAS, Univ. of Miami and NOAA/AOML, United States), Gustavo Goni (NOAA/AOML, USA)

14:50 - 15:15: Keynote/invited

[Satellite-derived ocean heat content variability: implications for weather and climate studies](#)

Lynn Shay (University of Miami/RSMAS, United States), Jodi Brewster (University of Miami/RSMAS, United States), Eileen Maturi (NOAA/NESDIS, United States), David Donahue (NOAA/NESDIS, United States), Eric Leuliette (NOAA/NESDIS, United States), Benjamin Jaimes (University of Miami/RSMAS, United States), Jun Zhang (NOAA/HRD, United States)

15:15 - 15:40: Keynote/invited

[Analysis of small icebergs \(<10km²\) size and freeboard around Greenland and Antarctica using Cryosat SARin data](#)

Jean Tournadre (IFREMER, France), Nicolad Bouhier (IFREMER, France)

15:40 - 15:45:

[An Unlikely Insurgency pitch](#)

Kathie Kelly (OSTST, formerly at the University of Washington, United States)

15:45 - 16:15: Coffee break

Science I: Climate data records for understanding the causes of global and regional sea level variability and change

Session chairs: Benjamin Hamlington, Benoit Meyssignac
(Mon, Oct 23 2017, 16:15 - 18:00)

Symphony Ballroom IV

16:15 - 16:30:

[Understanding the Acceleration of Sea Level Rise During the Altimeter Era](#)

Robert Steven Nerem (University of Colorado, United States), Brian Beckley (NASA Goddard Space Flight Center, USA), John Fasullo (NCAR, USA), Ben Hamlington (Old Dominion University, USA), Dallas Masters (University of Colorado, USA), Gary Mitchum (University of South Florida, USA)

16:30 - 16:45:

[Impact of Pacific Ocean Variability on Global Mean Sea Level](#)

Se-Hyeon Cheon (Old Dominion University, United States), Benjamin Hamlington (Old Dominion University, United States), Robert Leben (University of Colorado at Boulder, United States), J.T. Reager (NASA JPL, United States)

16:45 - 17:00:

[Sea Level Monitoring in the coastal zone: impact of retracking and correction choices](#)

Paolo Cipollini (National Oceanography Centre, United Kingdom), Andrew Shaw (SKYMAT Ltd, United Kingdom), Francisco Calafat (National Oceanography Centre, United Kingdom), Nadim Dayoub (National Oceanography Centre, United Kingdom), Américo Ambrósio (DEIMOS/ESRIN, Italy), Marco Restano (SERC/ESRIN, Italy), Jérôme Benveniste (ESA/ESRIN, Italy)

17:00 - 17:15:

[Evidence of coastal sea level changes along the east coast of United States associated with the Florida Current transport and heat content using satellite altimetry and hydrographic observations](#)

Ricardo Domingues (UM / CIMAS | NOAA / AOML, United States), Gustavo Goni (NOAA / AOML, USA), Molly Baringer (NOAA / AOML, USA), Denis Volkov (UM / CIMAS | NOAA / AOML, USA)

17:15 - 17:30:

[Wave climate observed from satellites: trends and inter-annual variability](#)

Justin Stopa (LOPS, France), Pierre Queffelec (Ifremer, France), Alexis Mouche (Ifremer, France), Fabrice Ardhuin (Ifremer/UBO/IUEM/CNRS, France), Yves Quilfen (Ifremer, France), Bertrand Chapron (Ifremer, France)

17:30 - 17:45:

[Comparison of coastal and open ocean sea level trends](#)

Yingli Zhu (College of Marine Science, University of South Florida, United States), Gary Mitchum (College of Marine Science, University of South Florida, United States)

17:45 - 18:00:

[Discussion](#)

08:00 - 09:00: Registration and presentation upload

Instrument Processing: Measurement and Retracking

Session chairs: Francois Boy, Phil Callahan, Robert Cullen, Marco Fornari, Walter H.F. Smith
(Tue, Oct 24 2017, 09:00 - 12:30)

Symphony Ballroom IV

09:00 - 09:15:

[Progress on Retracked TOPEX Data for the Climate Data Record](#)

Philip Callahan (Jet Propulsion Laboratory, United States), Shailen Desai (Jet Propulsion Laboratory, United States), Nicolas Picot (CNES, France), Jean-Damien Desjonqueres (Jet Propulsion Laboratory, United States), Joshua Willis (Jet Propulsion Laboratory, United States), Thierry Guinle (CNES, France)

09:15 - 09:30:

[Evaluating methods to improve the performance of Sentinel-3 SRAL SAR Altimetry in the Coastal and Open Ocean– The SCOOP Project](#)

David Cotton (Satellite Oceanographic Consultants Ltd, United Kingdom), Thomas Moreau (CLS, France), Eduard Makhoul (isardSAT, Catalonia), Mònica Roca (isardSAT, Catalonia), Paolo Cipollini (National Oceanography Centre, United Kingdom), Mathilde Cancet (Noveltis, France), Francisco Martin (Starlab, United Kingdom), Luciana Fenoglio-Marc (University of Bonn, Germany), Marc Naeije (Technical University of Delft, The Netherlands), M Joana Fernandes (University of Porto, Portugal), Marco Restano (SERC/ESRIN, Italy), Américo Ambrózio (DEIMOS/ESRIN, Italy), Jérôme Benveniste (ESA-ESRIN, Italy)

09:30 - 09:45:

[Investigation of SWH bias in SAR Altimetry mode](#)

Thomas Moreau (CLS, France), Jérémie Aublanc (CLS, France), Pierre Thibaut (CLS, France), Pierre Rieu (CLS, France), François Boy (CNES, France), Nicolas Picot (CNES, France), Constantin Mavrocordatos (ESA/ESTEC, The Netherlands), Franck Bordes (ESA/ESTEC, The Netherlands)

09:45 - 10:00:

[New stacking method for removing the SAR sensitivity to swell](#)

François Boy (CNES, France), Thomas Moreau (CLS, FRANCE), Pierre Thibaut (CLS, FRANCE), Pierre Rieu (CLS, FRANCE), Aublanc Jérémie (CLS, FRANCE), Nicolas Picot (CNES, FRANCE), Pierre Femenias (ESA, Italy), Constantin Mavrocordatos (ESA, Netherlands)

10:00 - 10:15:

[Pulse-to-Pulse Correlation Effects on high PRF Low Resolution Mode Altimeters](#)

Alejandro Egido (NOAA, United States), Walter Smith (NOAA, USA), Eric Leuliette (NOAA, USA)

10:15 - 10:30:

[Discussion](#)

10:30 - 11:00: Coffee break

11:00 - 11:15:

[Convergent solutions for retracking conventional and Delay Doppler altimeter echoes](#)

Pierre Thibaut (CLS, France), Fanny Piras (CLS, France), Jean Christophe Poisson (CLS, France), Thomas Moreau (CLS, France), Jérémie Aublanc (CLS, France), Laiba Amarouche (CLS, France), Abderrahim Halimi (Heriot-Watt University, United Kingdom), François Boy (CNES, France), Amandine Guillot (CNES, France), Sophie Le Gac (CNES, France), Nicolas Picot (CNES, France)

11:15 - 11:30:

[Along-Track Zero Padding for the Processing of Unfocused SAR Altimetry Waveforms](#)

Christopher Buchhaupt (TU Darmstadt, Germany), Luciana Fenoglio (University of Bonn, Germany), Matthias Becker (TU Darmstadt, Germany)

11:30 - 11:45:

[Covariant errors in ocean retracers evaluated using along-track cross-spectra](#)

Walter Smith (NOAA Lab for Satellite Altimetry, United States), Eric Leuliette (NOAA Lab for Satellite Altimetry, USA), Marcello Passaro (Technical University Munich, Germany), Graham Quartly (Plymouth Marine Laboratory, United Kingdom), Paolo Cipollini (National Oceanography Centre, United Kingdom)

11:45 - 12:00:

[Delay-Doppler Processing of altimetric SAR data over open ocean: precision evaluation of different algorithms](#)

Eduard Makhoul (isardSAT, Spain), Mònica Roca (isardSAT, United Kingdom), Chris Ray (isardSAT, United States), Albert Garcia (isardSAT, United Kingdom), Roger Escolà (isardSAT, United Kingdom), Gorka Moyano (isardSAT, United Kingdom), David Cotton (SatOC, United Kingdom), Marco Restano (SERC/ESRIN, Italy), Marco Fornari (RHEA/ESTEC, Netherlands)

12:00 - 12:15:

[ALES+: Adapting a homogenous ocean retracker for satellite altimetry to sea ice leads, coastal and inland waters.](#)

Marcello Passaro (DGFI-TUM, Germany), Stine Kildegaard Rose (DTU-Space, National Space Institute, Denmark), Ole B. Andersen (DTU-Space, National Space Institute, Denmark), Eva Boergens (DGFI-TUM, Germany), Francisco M. Calafat (National Oceanography Centre Liverpool, United Kingdom), Denise Dettmering (DGFI-TUM, Germany), Jerome Benveniste (European Space Research Institute (ESRIN), European Space Agency, Italy)

12:15 - 12:30:

[Discussion](#)

Precision Orbit Determination

Session chairs: Sean Bruinsma, Alexandre Couhert, Frank Lemoine
(Tue, Oct 24 2017, 09:00 - 12:30)

Symphony II

09:00 - 09:15:

[OSTM/Jason-2, Jason-3 and Sentinel-3A POD Status](#)

John Moyard (CNES, France), Eva Jalabert (CNES, France), Alexandre Couhert (CNES, France), Hanane Ait Lakbir (CS-SI, France), Flavien Mercier (CNES, France), Sabine Houry (CNES, France)

09:15 - 09:30:

[Improvement of the Complete TOPEX and Jason Orbit Time Series \(1992-2017\): GSFC Status](#)

Frank Lemoine (NASA GSFC, United States), Nikita Zelensky (SGT Inc., U.S.A.), Brian Beckley (SGT Inc., USA), Pierre Exertier (Observatoire de la Côte d'Azur, FRANCE), Douglas Chinn (SGT Inc., U.S.A.), Despina Pavlis (SGT Inc., U.S.A.), Jean-Paul Boy (EOST/IPGS, Université de Strasbourg, FRANCE)

09:30 - 09:45:

[GPS-Based Precision Orbit Determination for the Jason-2 and Jason-3 Missions](#)

Shailen Desai (Jet Propulsion Laboratory, United States), Willy Bertiger (JPL, USA), Bruce Haines (Jet Propulsion Laboratory, United States), Aurore Sibois (Jet Propulsion Laboratory, United States)

09:45 - 10:00:

[Jason 3 GPS derived orbits with ambiguity fixing](#)

Flavien Mercier (cnes, France), Hanane Ait lakbir (CS-SI, France), Alexandre Couhert (CNES, France)

10:00 - 10:15:

[Strategy to minimize the impact of the South Atlantic Anomaly effect on the Jason-3 and Sentinel-3A Precise Orbit Determination and on the station position estimation](#)

Hugues Capdeville (CLS, France), Jean-Michel Lemoine (CNES, FRANCE)

10:15 - 10:30:

[Update of the EIGEN time variable gravity model for precise orbit determination](#)

Jean-Michel Lemoine (CNES, France), Stéphane Bourgogne (G&C, France), Richard Biancale (CNES, France), Franck Reinquin (CNES, France), Pascal Gégout (CNRS / UMR5563, France), Sean Bruinsma (CNES, France)

10:30 - 11:00: Coffee break

11:00 - 11:15:

[Construction of GPS-based LEO orbits referenced to the “instantaneous” Earth’s center of mass, through the adjustment of a parametric correction in the IGS GPS satellite clock solutions](#)

Alexandre Couhert (CNES, France), Flavien Mercier (CNES, France), Nicolas Delong (CNES, France)

11:15 - 11:30:

[SLR-based geocenter estimates with atmospheric pressure station loading for improving orbit centering](#)

Nikita Zelensky (SGT / GSFC, United States), Frank Lemoine (NASA / GSFC, USA), Brian Beckley (SGT / GSFC, USA), Doug Chinn (SGT / GSFC, USA), Despina Pavlis (SGT / GSFC, USA), Jean-Paul Boy (EOST/IPGS (UMR 7516 CNRS – Université de Strasbourg), France), Pierre Exertier (UMR Geoazur, Université de Nice, Observatoire de la Côte d’Azur, France)

11:30 - 11:45:

[The T2L2 contribution to precise orbit determination and positioning](#)

Alexandre Belli (CNRS Géoazur, France), Pierre Exertier (CNRS Géoazur, France), Frank G. Lemoine (NASA GSFC, USA), Nikita P. Zelensky (Stinger Ghaffarian Technologies, USA), Douglas S. Chinn (NASA GSFC, USA), Hugues Capdeville (CLS, France)

11:45 - 12:00:

[Assessment of the International Terrestrial Reference System 2014 realizations by Precise Orbit Determination of SLR Satellites](#)

Sergei Rudenko (DGFI-TUM, Germany), Mathis Bloßfeld (DGFI-TUM, Germany), Horst Müller (DGFI-TUM, Germany), Denise Dettmering (DGFI-TUM, Germany), Detlef Angermann (DGFI-TUM, Germany), Manuela Seitz (DGFI-TUM, Germany)

12:00 - 12:15:

[Consistent estimation of station coordinates, Earth orientation parameters and selected low degree Earth’s gravity field coefficients from SLR measurements](#)

Mathis Bloßfeld (DGFI-TUM, Germany), Sergei Rudenko (DGFI-TUM, Germany), Alexander Kehm (DGFI-TUM, Germany), Natalia Panafidina (TUM, Germany), Horst Müller (DGFI-TUM, Germany), Franziska Göttl (DGFI-TUM, Germany), Detlef Angermann (DGFI-TUM, Germany), Urs Hugentobler (TUM, Germany), Manuela Seitz (DGFI-TUM, Germany)

12:15 - 12:30:

[Discussion](#)

12:30 - 14:00: Working lunch

Instrument Processing: Propagation, Wind Speed and Sea State Bias

Session chairs: Shannon Brown, Estelle Obligis
(Tue, Oct 24 2017, 14:00 - 15:45)

Symphony Ballroom IV

14:00 - 14:18:

[Jason-3 GDR Calibration Stability Enabled by the Cold Sky Maneuvers](#)

Shannon Brown (JPL, United States), Tanvir Islam (JPL, USA)

14:18 - 14:36:

[Independent assessment of Sentinel-3A wet path delay](#)

M. Joana Fernandes (Universidade do Porto, Faculdade de Ciências; CIIMAR, Portugal), Clara Lázaro (Universidade do Porto, Faculdade de Ciências; CIIMAR, Portugal)

14:36 - 14:54:

[A multi-surface performance assessment of the Sentinel-3A Surface Topography Mission Microwave Radiometer](#)

Marie-Laure Frery (CLS, France), Mathilde Siméon (CLS, France), Pierre Féménias (ESA ESRIIN, Italy), Remko Scharoo (Eumetsat, France)

14:54 - 15:12:

[Exploiting the high spatial resolution of AIRWAVE TCWV data to retrieve the WTC for coastal altimetry in view to its application to Sentinel-3](#)

Clara Lázaro (Universidade do Porto, Faculdade de Ciências; Centro Interdisciplinar de Investigação Marinha e Ambiental (CIIMAR), Portugal), M. Joana Fernandes (Universidade do Porto, Faculdade de Ciências; Centro Interdisciplinar de Investigação Marinha e Ambiental (CIIMAR), Portugal), Stefano Casadio (SERCO, ESA/ESRIN, Italy), Elisa Castelli (CNR, Istituto di Scienze dell'Atmosfera e del Clima, Italy), Enzo Papandrea (SERCO, ESA/ESRIN; CNR, Istituto di Scienze dell'Atmosfera e del Clima, Italy), Bianca Maria Dinelli (CNR, Istituto di Scienze dell'Atmosfera e del Clima, Italy), Alessandro Burini (EUMETSAT, Germany), Bojan Bojkov (EUMETSAT, Germany), Jérôme Bouffard (RHEA System SA, ESA, Italy)

15:12 - 15:30:

[2-channels versus 3-channels configuration for MWR on altimetry missions: latest developments on the role of the 18.7 GHz channel on Wet Tropospheric Correction retrieval performances](#)

Bruno Picard (CLS, France), Marie-Laure Frery (CLS, France), Christophe Goldstein (CNES, France), Pierre Féménias (ESA ESRIN, Italy), Rolv Midthassel (ESA ESTEC, Netherlands)

15:30 - 15:45:

[Discussion](#)

Outreach, Education and Altimetric Data Services

Session chairs: Jessica Hausman, Vinca Rosmorduc, Margaret Srinivasan
(Tue, Oct 24 2017, 14:00 - 15:45)

Symphony II

14:00 - 14:15:

[The altimeter product suite for the Sentinel-6/Jason-CS mission](#)

Remko Scharroo (EUMETSAT, Germany), Carolina Nogueira Loddó (EUMETSAT, Germany), Cristina Martin-Puig (EUMETSAT, Germany)

14:15 - 14:30:

[New Data and Updates at PO.DAAC](#)

Jessica Hausman (JPL, United States)

14:30 - 14:45:

[The Antarctic Circumpolar Current as seen in Argonautica](#)

Vinca Rosmorduc (CLS, France), Danielle De Staerke (CNES, France)

14:45 - 15:10:

[Science communication through art, design, and hands-on activities](#)

Laura Bracken (University of Miami Rosenstiel School, France)

15:10 - 15:15:

[OSTST-Related Outreach Activities](#)

Edward Zaron (Portland State University, United States)

15:15 - 15:30:

[Outreach and data services Showcases](#)

All All (OSTST, France)

15:30 - 15:45:

[Discussion](#)

15:45 - 16:15: Coffee break

Science II: Large Scale Ocean Circulation Variability and Change

Session chairs: Thierry Penduff, LuAnne Thompson
(Tue, Oct 24 2017, 16:15 - 18:00)

Symphony Ballroom IV

16:15 - 16:30:

[Malvinas Current volume transport at 41°S: a 24-year long time series consistent with mooring data from 3 decades and satellite altimetry](#)

Camila Artana (Laboratoire LOCEAN-IPSL, Sorbonne Universités (UPMC, Univ. Paris 6)-CNRS-IRD-MNHN, France), Ferrari Ramiro (CIMA/CONICET-UBA and UMI IFAECI -3351, Argentina), Zoe Koenig (Laboratoire LOCEAN-IPSL, Sorbonne Universités (UPMC, Univ. Paris 6)-CNRS-IRD-MNHN, France), Nathalie Sennéchaël (Laboratoire LOCEAN-IPSL, Sorbonne Universités (UPMC, Univ. Paris 6)-CNRS-IRD-MNHN, France), Martin Saraceno (CIMA/CONICET-UBA and UMI IFAECI -3351, Argentina), Piola Alberto (Departamento de Oceanografía, Servicio de Hidrografía Naval, DCAO/FCEN/UBA and UMI IFAECI-3351, CONICET, Argentina), Christine Provost (Laboratoire LOCEAN-IPSL, Sorbonne Universités (UPMC, Univ. Paris 6)-CNRS-IRD-MNHN, France)

16:30 - 16:45:

[Southern Ocean Circulation and Climate Variability](#)

Subrahmanyam Bulusu (University of South Carolina, USA, United States), Brady Ferster (University of South Carolina, USA)

16:45 - 17:00:

[Observed Decadal Sea-Level Variations Over the Tropical Indo-Pacific Basin: Association with and Indicators for Varying Walker Cells and Climate Modes](#)

Weiqing Han (The University of Colorado, United States)

17:00 - 17:15:

[Dynamical Links between the Decadal Variability of the Oyashio and Kuroshio Extensions](#)

Bo Qiu (University of Hawaii, United States), Shuiming Chen Chen (University of Hawaii, USA), Niklas Schneider (University of Hawaii, USA)

17:15 - 17:30:

[Using Sea Surface Height to examine Air-Sea Interaction in the North Atlantic Ocean in Winter](#)

LuAnne Thompson (University of Washington, United States)

17:30 - 18:00:

[Discussion](#)

19:00 - 20:00: Cocktail at the Frost Science Museum

20:00 - 23:00: Dinner at the Frost Science Museum

08:00 - 09:00: Registration and presentation upload

Regional and Global CAL/VAL for Assembling a Climate Data Record

Session chairs: Pascal Bonnefond, Shailen Desai, Bruce Haines, Eric Leuliette, Nicolas Picot
(Wed, Oct 25 2017, 09:00 - 12:30)

Symphony Ballroom IV

09:00 - 09:15:

[Connecting Jason-3 to the Long-term Sea Level Record: Results from Harvest and Regional Campaigns](#)

Bruce Haines (Jet Propulsion Laboratory, California Institute of Technology, United States), Shailen Desai (Jet Propulsion Laboratory, California Institute of Technology, United States), Adam Dodge (Colorado Center for Astrodynamics Research, University of Colorado, Boulder, United States), Bob Leben (Colorado Center for Astrodynamics Research, University of Colorado, Boulder, United States), Dallas Masters (Colorado Center for Astrodynamics Research, University of Colorado, Boulder, United States), Christian Meinig (NOAA Pacific Marine Environmental Laboratory, Seattle, United States), Steve Nerem (Colorado Center for Astrodynamics Research, University of Colorado, Boulder, United States), Rashmi Shah (Jet Propulsion Laboratory, California Institute of Technology, United States), Scott Stalin (NOAA Pacific Marine Environmental Laboratory, Seattle, United States)

09:15 - 09:30:

[Updated altimeter absolute bias results from Bass Strait, Australia](#)

Christopher Watson (University of Tasmania, Australia), Benoit Legresy (CSIRO, Australia), Matt King (University of Tasmania, Australia), Will Hextall (University of Tasmania, Australia)

09:30 - 09:45:

[Corsica: a multi-mission absolute calibration site](#)

Pascal Bonnefond (Observatoire de Paris - SYRTE, France), Pierre Exertier (OCA-GEOAZUR, France), Olivier Laurain (OCA-GEOAZUR, France), Thierry Guinle (CNES, France), Pierre Féménias (ESA/ESRIN, Italy)

09:45 - 10:00:

[Absolute calibration of Jason-3 and Sentinel-3A on Lake Issykkul from GPS field campaigns](#)

Jean-Francois Cretaux (CNES/LEGOS, France), Muriel Berge-Nguyen (CNES/LEGOS, France), Stephane Calmant (IRD/LEGOS, France), Pascal Bonnefond (Obs de Paris / SYRTE, France), Nurzat Jamangulova (IWPB, Kyrgyzstan), Rysbek Satylkanov (IWPB, Kyrgyzstan), Florent Lyard (CNRS/LEGOS, France)

10:00 - 10:15:

[Comparisons of Jason-3 and Sentinel-3A and tide gauges](#)

Eric Leuliette (NOAA, United States), Amanda Plagge (NOAA/GST, USA)

10:15 - 10:30:

[Validation of a global dataset based on subwaveform retracking: improving the precision of pulse-limited satellite altimetry](#)

Marcello Passaro (DGFI-TUM, Germany), Walter Smith (NOAA, USA), Christian Schwatke (DGFI-TUM, Germany), Gaia Piccioni (DGFI-TUM, Germany), Denise Dettmering (DGFI-TUM, Germany)

10:30 - 11:00: Coffee break

11:00 - 11:15:

[Validation of the extended CryoSat-2 ocean data products](#)

Paolo Cipollini (National Oceanography Centre, United Kingdom), Christopher Banks (National Oceanography Centre, United Kingdom), Francisco Calafat (National Oceanography Centre, United Kingdom), Helen Snaith (British Oceanographic Data Centre, United Kingdom), Jérôme Bouffard (RHEA/ESRIN, Italy), Pierre Féménias (ESA/ESRIN, Italy)

11:15 - 11:30:

[Sentinel-3A STM Mission Performance after 1 year in orbit](#)

Sylvie Labroue (CLS, France), Matthias Raynal (CLS, France), Pierre Féménias (ESA, Italy), Remko Scharroo (EUMETSAT, Germany), Denis Blumstein (LEGOS, France), Alan Muir (UCL, UK), Graham Quartly (PML, UK)

11:30 - 11:45:

[Sentinel-3A Marine Center data calibration and validation in a multi-mission setting](#)

Cristina Martin-Puig (EUMETSAT, Germany), Remko Scharroo (EUMETSAT, Germany), Carolina Nogueira-Loddo (EUMETSAT, Germany), Bruno Lucas (HE Space Operations, Germany), Salvatore Dinardo (HE Space Operations, Germany)

11:45 - 12:00:

[Jason-3 mission performance for operational oceanography applications and long term Climate Data Record continuity](#)

Hélène Roinard (CLS, France), Olivier LAURET (CLS, France), Michael ABLAIN (CLS, France), Nicolas PICOT (CNES, France)

12:00 - 12:30:

[Discussion](#)

Application development for Operations

Session chairs: Gerald Dibarboure, Alejandro Egido, Gregg Jacobs, Carolina Nogueira Loddo (Wed, Oct 25 2017, 09:00 - 10:30)

Symphony II

09:00 - 09:15:

[Combined assimilation of Sentinel-1 and Sentinel-3A wave data in operational wave model : investigation on bias for SAR mode altimetry](#)

Lotfi Aouf (Division Marine et Océanographie Météo-France, France), Alice Dalphinnet (Meteo-France, France)

09:15 - 09:30:

[High-Resolution 3DVAR for Constraining Submesoscale Dynamics](#)

Joseph D'Addezio (University of Southern Mississippi, United States), Gregg Jacobs (Naval Research Laboratory, USA), Scott Smith (Naval Research Laboratory, USA), Robert Helber (Naval Research Laboratory, USA), Clark Rowley (Naval Research Laboratory, USA)

09:30 - 09:45:

[The role of altimetry observations in constraining the Mercator Global Ocean analysis and forecasts](#)

Yann Drillet (Mercator Ocean, France), Jean-Michel Lellouche (Mercator Ocean, France), Mounir Benkiran (Mercator Ocean, France), Antonio Bonaduce (Mercator Ocean, France), Mathieu Hamon (Mercator Ocean, France), Olivier Legalloudec (Mercator Ocean, France)

09:45 - 10:00:

[Combining altimetry with in situ data: quantitative impact assessment of operational ocean observation strategy in hurricane applications using Observing System Experiments and OSSEs](#)

Matthieu Le Henaff (University of Miami/CIMAS and NOAA/AOML, United States), George Halliwell (NOAA/AOML, USA), Michael Mehari (UM/CIMAS and NOAA/AOML, USA), Jili Dong (NOAA/NCEP/EMC, USA), Villy Kourafalou (UM/RSMAS, USA), Robert Atlas (NOAA/AOML, USA), HeeSook Kang (UM/RSMAS, USA), Ioannis Androulidakis (UM/RSMAS, USA)

10:00 - 10:15:

[Predictability of Submesoscale Flows Using Multiscale Data Assimilation of Satellite Altimetry](#)

Zhijin Li (JPL, United States)

10:15 - 10:30:

[Discussion](#)

Advances in coastal altimetry: measurement techniques, science applications and synergy with in situ and models

Session chairs: Florence Birol, Marcello Passaro, Ted Strub
(Wed, Oct 25 2017, 11:00 - 12:30)

Symphony II

11:00 - 11:20:

[Technical aspects of coastal altimetry data processing](#)

Remko Scharroo (EUMETSAT, Germany), Joana Fernandes (Universidade do Porto, Faculdade de Ciências; CIIMAR, Portugal)

11:20 - 11:40:

[Coastal Altimetry: a review of scientific applications and synergies with complementary measurements](#)

Jerome Bouffard (ESA - RHEA, Italy)

11:40 - 12:00:

[Altimetry for Coastal Ocean Modeling and Analysis](#)

John Wilkin (Rutgers University, United States), Claire Dufau (CLS, France), Paolo Cipollini (NOC, United Kingdom), Villy Kourafalou (U. Miami/RSMAS, USA), Pierre De Mey (LEGOS, France)

12:00 - 12:30:

[Discussion](#)

12:30 - 14:00: Working lunch

Quantifying Errors and Uncertainties in Altimetry data

Session chairs: Michael Ablain, Joel Dorandeu, Remko Scharroo
(Wed, Oct 25 2017, 14:00 - 15:45)

Symphony II

14:00 - 14:20:

[Assessment of the orbit related sea level errors for TOPEX altimetry at seasonal to decadal time scales](#)

Saskia Esselborn (GFZ, Germany), Sergei Rudenko (DGFI-TUM, Germany), Tilo Schöne (GFZ, Germany)

14:20 - 14:40:

[How reliable are regional sea level trends ?](#)

Pierre Prandi (CLS, France), Benoît Meyssignac (CNES/LEGOS, France), Michael Ablain (CLS, France)

14:40 - 15:00:

[A promising parametric spectral analysis method applied to sea level anomaly signals](#)

Corinne Mailhes (TeSA, France), David Bonacci (TeSA, France), Amandine Guillot (CNES, France), Sophie Le Gac (CNES, France), Nathalie Steunou (CNES, France), Cécile Cheymol (CNES, France), Nicolas Picot (CNES, France), Gérald Dibarboure (CNES, France)

15:00 - 15:20:

[Altimetric wavenumber spectra: noise floors and resolution capability](#)

Oscar Vergara (LEGOS/OMP, France), Rosemary Morrow (LEGOS/OMP, France), Isabelle Pujol (CLS Space Oceanography, France), Gerlad Dibarboure (CNES, France)

15:20 - 15:45:

[Discussion](#)

Science IV: 25 years of satellite altimetry for Cryosphere and Hydrology: from experimental to emerging operational applications

Session chairs: Charon Birkett, Jérôme Bouffard, Jean-Francois Crétaux
(Wed, Oct 25 2017, 14:00 - 15:45)

Symphony Ballroom IV

14:00 - 14:15:

[Quality Assessment of Sentinel-3a PDGS land products for the Monitoring of Lakes and Rivers](#)

[Water Level](#)

Lionel Zawadzki (CLS, France), Nicolas Taburet (CLS, France), Rémi Jugier (CLS, France), Maxime Vayre (CLS, France), Matthias Raynal (CLS, France), Sylvie Labroue (CLS, France), Michaël Ablain (CLS, France), Pierre Femenias (ESA/ESRIN, Italy), Stéphane Calmant (IRD/LEGOS, France), Jean-François Crétaux (CNES/LEGOS, France), Denis Blumstein (CNES/LEGOS, France)

14:15 - 14:30:

[Update and validation of the onboard Jason-3 DEM for enhanced acquisitions over inland](#)

[water targets](#)

Sophie Le Gac (CNES, France), François Boy (CNES, France), Denis Blumstein (CNES, LEGOS, France), Augé Emmanuel (NOVELTIS, France), Sylvain Biancamaria (LEGOS, Université de Toulouse, CNRS, IRD, UPS, France), Jean-François Crétaux (CNES, LEGOS, France), Stéphane Calmant (LEGOS, Université de Toulouse, CNRS, IRD, UPS, France), Fabien Blarel (LEGOS, Université de Toulouse, CNRS, IRD, UPS, France), Frédéric Frappart (LEGOS, Université de Toulouse, CNRS, IRD, UPS, France), Charon Birkett (Earth System Science Interdisciplinary Center, University of Maryland-College Park (ESSIC/UMD), USA), Nicolas Picot (CNES, France)

14:30 - 14:45:

[The ICESat-2 Inland Water Height Data Product: Overview and Evaluation Using High Altitude](#)

[Lidar Observations](#)

Michael Jasinski (NASA Goddard Space Flight Center, United States), J. Stoll (SSAI, USA), C. Arp (University of Alaska, USA), C. Birkett (University of Maryland, USA), K. Brunt (University of Maryland, USA), W. Cook (NASA GSFC, USA), C. Hiemstra (CRREL, USA), B. Jones (USGS, USA), M. Ondrusek (NOAA, USA), T. Pavelsky (University of North Carolina, USA), E. Stengel (NOAA, USA)

14:45 - 15:00:

[AltiCryo: a CNES altimetry concept study for cryosphere monitoring](#)

Amandine Guillot (CNES, France), Frédérique Rémy (LEGOS, FRANCE), Alexandre Guérin (CNES, France), Jean-Luc Courrière (CNES, France), Anne Lifermann (CNES, France), Yves Le Roy (TAS, France)

15:00 - 15:15:

[Swath Processing improvements of CryoSat-2 for the Study of Ice Caps and Mountain Glaciers](#)

Albert Garcia-Mondejar (isardSAT Ltd., United Kingdom), Maria Jose Escorihuela (isardSAT Ltd., United Kingdom), Monica Roca (isardSAT Ltd., United Kingdom), Flora Weissgerber (University of Edinburgh, United Kingdom), Noel Gourmelen (University of Edinburgh, United Kingdom)

15:15 - 15:30:

[A review of the current altimetry mission performances over the polar ice sheets: Cryosat-2,](#)

[AltiKa and Sentinel-3A](#)

Jérémie Aublanc (CLS, France), Pierre Thibaut (CLS, France), Thomas Moreau (CLS, France), Clément Lacroux (CLS, France), François Boy (CNES, France), Amandine Guillot (CNES, France), Nicolas Picot (CNES, France)

15:30 - 15:45:

[Discussion](#)

15:45 - 16:15: Coffee break

Science III: Mesoscale and sub-mesoscale oceanography

Session chairs: Lee-Lueng Fu, Rosemary Morrow
(Wed, Oct 25 2017, 16:15 - 18:00)

Symphony Ballroom IV

16:15 - 16:30:

[Long-distance radiation of barotropic Rossby waves from tropical instability waves](#)

Tom Farrar (Woods Hole Oceanographic Institution, United States), Ted Durland (Oregon State University, USA), Steven Jayne (Woods Hole Oceanographic Institution, USA)

16:30 - 16:45:

[Global Observations of Eddy-Induced Mixed Layer Depth Variability](#)

Peter Gaube (Applied Physics Laboratory - Univ. of Washington, United States), Dennis McGillicuddy (Woods Hole Oceanographic Institution, USA)

16:45 - 17:00:

[Modulation of the Ganges-Brahmaputra river plume by the Indian Ocean Dipole and eddies inferred from satellite observations](#)

Severine Fournier (JPL, United States), Jerome vialard (IRD-LOCEAN, France), Matthieu Lengaigne (IRD-LOCEAN/NIO, France/India), Tong Lee (JPL, USA), Michelle Gierach (JPL, USA), A.V.S Chaitanya (NIO, India)

17:00 - 17:15:

[Eddy generation and propagation in the Southern Ocean diagnosed from Satellite Altimetry and an Ocean State Estimate](#)

Uriel Zajackovski (Woods Hole Oceanographic Institution, United States), Sarah T. Gille (Scripps Institution of Oceanography, United States), Matthew R. Mazloff (Scripps Institution of Oceanography, United States)

17:15 - 17:30:

[Up to which extent can we characterize ocean eddies using present-day altimetric products?](#)

Angel Amores (IMEDEA, Spain), Gabriel Jordà (IMEDEA, Spain)

17:30 - 17:45:

[Mapping the Ocean surface current from future current mission concepts and synergy with high-resolution altimetry](#)

Clement Ubelmann (CLS, Afghanistan), Fabrice Ardhuin (IFREMER, France), Gérald Dibarboure (CNES, France), Lucile Gaultier (Ocean Data Lab, France)

17:45 - 18:00:

[Discussion](#)

08:00 - 09:00: Registration and presentation upload

The Geoid, Mean Sea Surfaces and Mean Dynamic Topography

Session chairs: Ole B. Andersen, Yannice Faugere
(Thu, Oct 26 2017, 09:00 - 10:30)

Symphony II

09:00 - 09:15:

[The Jason-2 Mission Geodetic Phase](#)

Alejandro Egido (NOAA - Laboratory for Satellite Altimetry, United States), Nicolas Picot (CNES, France), Cristina Martin-Puig (EUMETSAT, Germany), Shailen Desai (NASA/JPL, USA), Eric Leuliette (NOAA - LSA, USA), Remko Scharoo (EUMETSAT, Germany)

09:15 - 09:30:

[Improvements and limitations of recent mean sea surface models: importance for Sentinel-3 and SWOT.](#)

Marie Isabelle Pujol (CLS, France), Philippe Schaeffer (CLS, France), Yannice Faugère (CLS, France), François-Xavier Davanne (CLS, France), Gérald Dibarbouré (CNES, France), Nicolas Picot (CNES, France)

09:30 - 09:45:

[GEOMED2: Geoid estimation of the Mediterranean Sea](#)

Sean Bruinsma (CNES, France), Riccardo Barzaghi (Politecnico di Milano, Italy), George Vergos (Aristotle University of Thessaloniki, Greece), Marie-Françoise Lequentrec-Lalancette (SHOM, France), Ole Andersen (DTU Space, Denmark)

09:45 - 10:00:

[Comparison and synthesis of geodetic and oceanographic data to improve mean dynamic topography products](#)

Nikolai Maximenko (IPRC/SOEST, University of Hawaii, United States), Per Knudsen (Technical University of Denmark, Denmark), Jan Hafner (IPRC/SOEST, University of Hawaii, United States)

10:00 - 10:15:

[A combined mean dynamic topography model – DTU17cMDT.](#)

Per Knudsen (DTU Space, Denmark), Ole Andersen (DTU Space, Denmark), Nikolai Maximenko (IPRC, U Hawaii, USA)

10:15 - 10:30:

[Discussion](#)

Tides, internal tides and high-frequency processes

Session chairs: Loren Carrere, Florent Lyard, Richard Ray
(Thu, Oct 26 2017, 09:00 - 10:30)

Symphony Ballroom IV

09:00 - 09:15:

[Coastal improvements for tidal models: the benefit of ALES retracker](#)

Gaia Piccioni (DGFI-TUM, Germany), Denise Dettmering (DGFI-TUM, Germany), Wolfgang Bosch (DGFI-TUM, Germany), Marcello Passaro (DGFI-TUM, Germany), Florian Seitz (DGFI-TUM, Germany)

09:15 - 09:30:

[Comparison and validation of internal tides models for global ocean](#)

Loren Carrere (CLS, France), Florent Lyard (LEGOS/CNRS, FRANCE), Romain Baghi (CLS, FRANCE), Nicolas Picot (CNES, FRANCE)

09:30 - 09:45:

[Comparison of internal gravity wave spectra in high-resolution global simulations with observations](#)

Brian Arbic (University of Michigan, United States), Maarten Buijsman (University of Southern Mississippi, USA), Dimitris Menemenlis (NASA Jet Propulsion Laboratory, USA), James Richman (Florida State University, USA), Jay Shriver (Naval Research Laboratory Stennis Space Center, USA), Anna Savage (University of Michigan, USA), Conrad Luecke (University of Michigan, USA), Joseph Ansong (University of Ghana, Ghana), Matthew Alford (UC San Diego, USA)

09:45 - 10:00:

[Global internal tides from satellite altimetry: Next-generation internal tide model and internal tide oceanic tomography](#)

Zhongxiang Zhao (Applied Physics Laboratory, University of Washington, United States)

10:00 - 10:15:

[Solving the mesoscale and internal tide sea surface height signatures in a single massive inversion using a variational approach](#)

Clement Ubelmann (CLS, France), lauren carrere (CLS, france), g  rald dibarboure (CNES, france), yannice faugere (CLS, france)

10:15 - 10:30:

[Discussion](#)

10:30 - 11:00: Coffee break

Round tables

Session chairs: all

(Thu, Oct 26 2017, 11:00 - 12:30)

Rooms' distribution:

Application development for Operations: **Picasso**

Instrument Processing: **Tenor**

Outreach, Education and Altimetric Data Services: **Chamber B**

Precision Orbit Determination: **Chamber Boardroom**

Quantifying Errors and Uncertainties in Altimetry data: **Metronome**

Regional and Global CAL/VAL for Assembling a Climate Data Record: **Symphony II**

The Geoid, Mean Sea Surfaces and Mean Dynamic Topography: **Soprano**

Tides, internal tides and high-frequency processes: **Alto**

12:30 - 14:00: Working lunch

Poster session

Session chairs: all

(Thu, Oct 26 2017, 14:00 - 18:00)

Concerto Ballroom

See list of Posters (page 21)

15:45 - 16:15: Coffee break

Sentinel-6/Jason-CS Mission Advisory Group meeting

Session chairs:

(Thu, Oct 26 2017, 14:00 - 18:00)

Symphony Ballroom IV

14:00 - 18:00:

[Restricted to MAG members](#)

15:45 - 16:15: Coffee break

Friday, October 27 2017

08:00 - 09:00: Registration and presentation upload

OSTST Closing Plenary Session

Session chairs: Pascal Bonnefond, Craig Donlon, Eric Leuliette, Remko Scharroo, Josh Willis
(Fri, Oct 27 2017, 09:00 - 12:30)

Symphony Ballroom IV

09:00 - 11:40:

[Splinters meeting summaries](#)

09:00 - 09:10:

[Application development for Operations summary](#)

09:10 - 09:20:

[Instrument processing \(Propagation, Wind Speed and Sea State Bias\) summary](#)

09:20 - 09:30:

[Instrument processing \(Measurement and retracking\) summary](#)

09:30 - 09:40:

[Outreach, Education & Altimetric data services summary](#)

09:40 - 09:50:

[Precision Orbit Determination summary](#)

09:50 - 10:00:

[Quantifying Errors and Uncertainties in Altimetry Data summary](#)

10:00 - 10:10:

[Regional and Global CAL/VAL for Assembling a Climate Data Record summary](#)

10:10 - 10:20:

[The Geoid Mean Sea Surfaces and Mean Dynamic Topography summary](#)

10:20 - 10:30:

[Tides, internal tides and high-frequency processes summary](#)

10:30 - 11:00: Coffee break

11:00 - 11:10:

[10th Coastal Altimetry Workshop summary](#)

Paolo Cipollini (NOC, United Kingdom)

11:10 - 11:20:

[Advances in coastal altimetry \(measurement techniques, science applications and synergy with in situ and models\) summary](#)

11:20 - 11:40:

[Science Results from Satellite Altimetry summary](#)

11:40 - 11:50:

[Jason/GDR status and plans](#)

Nicolas Picot (CNES, France)

11:50 - 12:30:

[Discussion, summary and recommendation](#)

12:30 - 14:00: Working lunch

Posters

Science I: Climate data records for understanding the causes of global and regional sea level variability and change

Session chairs: Benjamin Hamlington, Benoit Meyssignac

Thu, Oct 26 2017, 14:00 - 18:00 - Concerto Ballroom

SC1_001 - [Assessment of the AVISO Mean Sea Level \(MSL\) indicator with an integrative approach](#)

Michael Ablain (CLS), Lionel Zawadzki (CLS), Nicolas Taburet (CLS), Rémy Jugier (CLS), Maxime Vayre (CLS), Anny Cazenave (LEGOS), Nicolas Picot (CNES)

SC1_002 - [Updates to and Reanalysis of the CU Global Mean Sea Level Climate Data Record](#)

Dallas Masters (University of Colorado), R. Steven Nerem (University of Colorado), Gary Mitchum (USF College of Marine Science)

SC1_003 - [Sea level budget closure: status and prospects from an integrative study within ESA's Climate Change Initiative](#)

Martin Horwath (Technische Universität Dresden), Anny Cazenave (Laboratoire d'Etudes en Géophysique et Océanographie Spatiales (LEGOS), Toulouse), Hindumathi K. Palanisamy (Laboratoire d'Etudes en Géophysique et Océanographie Spatiales (LEGOS), Toulouse), Ben Marzeion (University of Bremen), Frank Paul (University of Zurich), Raymond Le Bris (University of Zurich), Anna Hogg (University of Leeds), Andrew Shepherd (University of Leeds), Petra Döll (Goethe University Frankfurt), Hannes Müller Schmied (Goethe University Frankfurt), Denise Caceres (Goethe University Frankfurt), Johnny A. Johannessen (Nansen Environmental and Remote Sensing Center (NERSC), Bergen), Jan E. Nilsen (Nansen Environmental and Remote Sensing Center (NERSC), Bergen), Roshin P. Raj (Nansen Environmental and Remote Sensing Center (NERSC), Bergen), Rene Forsberg (DTU Space), Per Knudsen (DTU Space), Louise Sorensen (DTU Space), Valentina Barletta (DTU Space), Ole B. Andersen (DTU Space), Christopher J. Merchant (University of Reading), Claire Rachel Macintosh (University of Reading), Kristin Novotny (TU Dresden), Andreas Groh (TU Dresden), Benjamin Gutknecht (TU Dresden), Jérôme Benveniste (European Space Agency (ESA-ESRIN), Frascati (Roma))

SC1_004 - [Revisited Earth Energy imbalance from the sea level budget over 2005-2015](#)

Alejandro Blazquez (LEGOS-CNES), Meyssignac Benoit (LEGOS-CNES), Couhert Alexandre (CNES), Mercier Flavien (CNES), Zawadzki Lionel (CLS), Michael Ablain (CLS), Annabelle Ollivier (CLS)

SC1_005 - [Teleconnection between the Atlantic Meridional Overturning Circulation and the Mediterranean Sea level](#)

Denis Volkov (University of Miami/NOAA-AOML), Felix Landerer (Jet Propulsion Laboratory)

SC1_006 - [Assessment of ocean models in the Mediterranean Sea and Black Sea against altimetry and gravity measurements](#)

Luciana Fenoglio (University of Bonn), Roelof Rietbroek (University of Bonn), Joanna Staneva (Helmholtz-Zentrum Geesthacht), Nadia Pinardi (University of Bologna, Italy), Andrea Storto (University of Urbino), Jürgen Kusche (University of Bonn), Bernd Uebbing (University of Bonn)

SC1_007 - [Reconstructed long-term sea level variability in the North Atlantic Ocean](#)

Yongcun Cheng (Center for Coastal Physical Oceanography, Old Dominion University), Benjamin D. Hamlington (Center for Coastal Physical Oceanography, Old Dominion University), Se-Hyeon Cheon (Center for Coastal Physical Oceanography, Old Dominion University)

SC1_008 - [Seasonality Change in North Atlantic Sea Level and Forcing Parameters](#)

Martina Ricko (SGT Inc), Richard Ray (NASA-GSFC), Brian Beckley (SGT Inc)

SC1_009 - [Dueling Climate Cycles Intensified Sea Level Swings in the Pacific](#)

Y. Tony Song (JPL/NASA)

SC1_010 - [Has the deep ocean warmed in the subtropical South Pacific?](#)

Denis Volkov (University of Miami/NOAA-AOML), Sang-Ki Lee (NOAA-AOML), Felix Landerer (Jet Propulsion Laboratory), Rick Lumpkin (NOAA-AOML)

Instrument Processing: Measurement and Retracking

Session chairs: Francois Boy, Phil Callahan, Robert Cullen, Marco Fornari, Walter H.F. Smith

Thu, Oct 26 2017, 14:00 - 18:00 - Concerto Ballroom

IPM_001 - [CryoSat/SIRAL Cal1 Calibration Orbits](#)

Marco Fornari (ESA/ESTEC), Michele Scagliola (ARESYS), Tommaso Parrinello (ESA/ESRIN), Jerome Bouffard (ESA/ESRIN)

IPM_002 - [CryoSat SAR/SARin L1B products: BaselineC assessment and improvements towards BaselineD](#)

Michele Scagliola (ARESYS), Marco Fornari (ESA/ESTEC), Tommaso Parrinello (ESA/ESRIN), Bouffard Jerome (ESA/ESRIN)

IPM_003 - [S6 P4 GPP: The Sentinel-6 Poseidon-4 Ground Processor Prototype. New simulation results.](#)

Eduard Makhoul (isardSAT), Roger Escolà (isardSAT), Albert Garcia (isardSAT), Gorka Moyano (isardSAT), Pablo Garcia (isardSAT), Mònica Roca (isardSAT), Marco Fornari (RHEA/ESTEC), Robert Cullen (ESA/ESTEC)

IPM_004 - [Sentinel-6/Poseidon-4 altimeter end-to-end simulator to assess the global mission performances](#)

Jeremie Aublanc (CLS), Thomas Moreau (CLS), Pierre Dubois (CLS), Yolanda Maya-Soriano (CLS), Pierre Thibaut (CLS), Francois Boy (CNES), Gilles Tavernier (CNES), Gérard Zaouche (CNES), Marco Fornari (ESA), Mieke Kuschnerus (ESA), Robert Cullen (ESA)

Precision Orbit Determination

Session chairs: Sean Bruinsma, Alexandre Couhert, Frank Lemoine

Thu, Oct 26 2017, 14:00 - 18:00 - Concerto Ballroom

POD_001 - [Impact of the next foreseen IERS mean pole model \(linear\) on altimeter satellite precise orbits, validation of updated measurement models \(DORIS antenna phase maps and satellite geometry\)](#)

Hanane Aït-Lakbir (CS SI (POD CNES)), Alexandre Couhert (CNES), Flavien Mercier (CNES), Sabine Houry (CNES), Eva Jalabert (CNES), John Moyard (CNES)

POD_002 - [Sentinel-3 orbit determination at the Copernicus POD Service](#)

Jaime Fernández (GMV), Heike Peter (PosiTim UG), Carlos Fernández (GMV), Pierre Féménias (ESA/ESRIN)

POD_003 - [Comparison of SLR station biases](#)

Franck Reinquin (CNES), Alexandre Couhert (CNES), Sean Bruinsma (CNES), Frank Lemoine (NASA GSFC)

Instrument Processing: Propagation, Wind Speed and Sea State Bias

Session chairs: Shannon Brown, Estelle Obligis

Thu, Oct 26 2017, 14:00 - 18:00 - Concerto Ballroom

IPC_001 - [Updated Jason-3 wind speed and SSB solutions \(2D and 3D\)](#)

Ngan Tran (CLS), Doug Vandemark (UNH), Hui Feng (UNH), Fabrice Ardhuin (LOPS), Lotfi Aouf (Meteo-France), Sophie LeGac (CNES), Nicolas Picot (CNES)

Outreach, Education and Altimetric Data Services

Session chairs: Jessica Hausman, Vinca Rosmorduc, Margaret Srinivasan

Thu, Oct 26 2017, 14:00 - 18:00 - Concerto Ballroom

OUT_001 - [Broadview radar altimetry toolbox](#)

Albert Garcia-Mondejar (isardSAT Ltd.), Roger Escolà (isardSAT Ltd.), Gorka Moyano (isardSAT Ltd.), Mònica Roca (isardSAT Ltd.), Miguel Terra- Homem (DEIMOS Engenharia), Ana Friaças (DEIMOS Engenharia), Fernando Martinho (DEIMOS Engenharia), Ernst Schrama (TU Delft, Faculty of Aerospace Engineering), Marc Naeije (TU Delft, Faculty of Aerospace Engineering), Marco Restano (Serco / ESRIN), Americo Ambrozio (DEIMOS / ESRIN), Jérôme Benveniste (ESA / ESRIN)

OUT_002 - [SAR ALTIMETRY PROCESSING ON DEMAND SERVICE FOR CRYOSAT-2 AND SENTINEL-3 AT ESA G-POD](#)

Jérôme Benveniste (ESA-ESRIN), Salvatore Dinardo (He Space/EUMETSAT), Giovanni Sabatino (Progressive Systems Rhea/ESRIN), Marco Restano (SERCO/ESRIN), Américo Ambrózio (DEIMOS/ESRIN)

OUT_003 - [Aviso+ products & services: what's new?](#)

Vinca Rosmorduc (CLS), Florence Birol (Legos), Françoise Mertz (CLS), Laurent Soudarin (CLS), Thierry Guinle (CNES)

OUT_004 - [Outreaching hydrology from space & SWOT](#)

Vinca Rosmorduc (CLS), Nicolas Picot (CNES)

OUT_005 - [ArgoHydro, Hydrology in the classroom](#)

Danielle De Staerke (CNES), Léa Lasson (CNES), Margaret Srinivasan (NASA/JPL), Annette de Charon (ODYSEA LLC)

OUT_006 - [SAR-RDSAR: A new Service on G-POD for SAR and RDSAR Products](#)

Christopher Buchhaupt (TU Darmstadt), Luciana Fenoglio (University of Bonn), Matthias Becker (TU Darmstadt)

OUT_007 - [NOAA Scientific Data Stewardship for Ocean Surface Topography Mission \(OSTM\)/Jason-2 and Jason-3 Products](#)

Yongsheng Zhang (NOAA/NESDIS National Centers for Environmental Information (NCEI)-UMD/ESSIC/CICS, Silver Spring, MD 20910), Xuepeng Zhao (NOAA/NESDIS/NCEI, Silver Spring, MD 20910), Huai-min Zhang (NOAA/NESDIS/NCEI, Asheville, NC 28801)

OUT_008 - [Access to Sentinel-3 Marine Center data](#)

Bruno Lucas (HE Space), Remko Scharroo (EUMETSAT), Carolina Nogueira-Loddo (EUMETSAT), Cristina Martin-Puig (EUMETSAT), Salvatore Dinardo (HE Space)

OUT_009 - [NOAA Coastwatch/Oceanwatch Altimetry Products](#)

Jessica Burns (Global Science and Technology, Inc. (NOAA contractor)), Eric Leuliette (NOAA)

OUT_010 - [X-TRACK regional altimeter products for coastal applications](#)

Fabien Léger (LEGOS / CTOH), Florence Birol (LEGOS / CTOH), Fernando Niño (LEGOS / CTOH), Sara Fleury (LEGOS / CTOH)

Science II: Large Scale Ocean Circulation Variability and Change

Session chairs: Thierry Penduff, LuAnne Thompson

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SC2_001 - [Estimation of vertical velocities associated with large scale dynamics in the Atlantic ocean.](#)
alban lazaro (LOCEAN-IPSL-UPMC), Soren François (LOCEAN-IPSL-UPMC), Siny Ndoye (LPAOSF-ESP-UCAD & LOCEAN-IPSL-UPMC)

SC2_002 - [Quantifying uncertainties on regional sea level change induced by multidecadal intrinsic oceanic variability](#)

Thierry Penduff (CNRS - IGE), Guillaume Sérazin (LEGOS), Benoit Meyssignac (CNES - LEGOS), Laurent Terray (CERFACS), Bernard Barnier (CNRS - IGE), Jean-Marc Molines (CNRS - IGE)

SC2_003 - [A Western Tropical Atlantic Circulation Analysis Using Statistics and Satellites](#)

Frédéric Haykal (LOCEAN UMR CNRS/IRD/UPMC/MNHN), Sabine Arnault (LOCEAN UMR CNRS/IRD/UPMC/MNHN), Sylvie Thiria (LOCEAN UMR CNRS/IRD/UPMC/MNHN), Khalil Yala (LOCEAN UMR CNRS/IRD/UPMC/MNHN), Mounir Bendali Braham (LOCEAN UMR CNRS/IRD/UPMC/MNHN), Beyrem Jebri (LOCEAN UMR CNRS/IRD/UPMC/MNHN)

SC2_004 - [Investigation of the intra-annual variability of the North Equatorial Counter Current/ North Brazil Current eddies and of the instability waves of the North tropical Atlantic Ocean using satellite altimetry and Empirical Mode Decomposition](#)

Jean-Luc Mélice (IRD, LOCEAN, Paris), Sabine Arnault (IRD, LOCEAN, Paris)

SC2_005 - [The Brazil Current Variability from XBT data and satellite altimetry](#)

Marlos Goes (UM/CIMAS and NOAA/AOML)

SC2_006 - [Performance of MERCATOR operational model at the Brazil Malvinas confluence](#)

Camila Artana (Laboratoire LOCEAN-IPSL, Sorbonne Universités (UPMC, Univ. Paris 6)-CNRS-IRD-MNHN), Ramiro Ferrari (CIMA/CONICET-UBA and UMI IFAECI -3351), Jean Michel Lellouche (Mercator-Océan), Martin Saraceno (CIMA/CONICET-UBA and UMI IFAECI -3351), Christine Provost (Laboratoire LOCEAN-IPSL, Sorbonne Universités (UPMC, Univ. Paris 6)-CNRS-IRD-MNHN)

SC2_007 - [Malvinas current dynamics from in situ and satellite altimetry data](#)

Martin Saraceno (Universidad de Buenos Aires- CONICET), Guillermina Paniagua (CONICET-UBA), Loreley Lago (INIDEP-UBA), Ramiro Ferrari (CONICET-UBA), Alberto Piola (SHN-UBA), Raul Guerrero (INIDEP), Christine Provost (CNRS)

SC2_008 - [Satellite altimetry and current-meter velocities in the Malvinas Current at 41°S: comparisons and modes of variations](#)

Ramiro Ferrari (Centro de Investigaciones del Mar y la Atmósfera.), Camila Artana (LOCEAN-IPSL), Martin Saraceno (Centro de Investigaciones del Mar y la Atmósfera.), Alberto Piola (Departamento de Oceanografía, Servicio de Hidrografía Naval), Christine Provost (LOCEAN-IPSL)

SC2_009 - [A reconstructed South Atlantic Meridional Overturning Circulation time series since 1870.](#)

Hosmay Lopez (University of Miami), Gustavo Goni (NOAA/AOML), Shenfu Dong (NOAA/AOML)

SC2_010 - [Arctic Freshwater fluxes with EO data and first results](#)

Ole Baltazar Andersen (DTU Space, Elektrovej 328, DK-2800 Kongens Lyngby), Karina Nilsen (DTU Space, Elektrovej 328, DK-2800 Kongens Lyngby), Louise Sandberg Sørensen (DTU Space, Elektrovej 328, DK-2800 Kongens Lyngby), Henriette Skourup (DTU Space, Elektrovej 328, DK-2800 Kongens Lyngby), Natalia Havelund Andersen (DTU Space, Elektrovej 328, DK-2800 Kongens Lyngby), Thomas Nagler (ENVEO), Elena Zakharova (Legos, Observatoire Midi Pyrénées, Toulouse), Alexei Kouraev (Legos, Observatoire Midi Pyrénées, Toulouse), Cristina Surdu (ESA, ESRIN, Frascati), Diego Fernandez (ESA, ESRIN, Frascati)

SC2_011 - [Learning from large-ensemble ocean simulations to better interpret satellite and in-situ ocean data. - The Occiput large-ensemble dataset and some applications -](#)

Stéphanie Leroux (Ocean next), Thierry Penduff (IGE, Grenoble), Jean-Marc Molines (IGE, Grenoble), Laurent Brodeau (Ocean Next, Grenoble), Jacques Verron (Ocean Next, Grenoble), Julien Le Sommer (IGE, Grenoble)

Application development for Operations

Session chairs: Gerald Dibarboure, Alejandro Egido, Gregg Jacobs, Carolina Nogueira Loddo

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APOP_001 - [One case study on how satellite and in situ ocean observations help to improve hurricane forecasts](#)

Gustavo Jorge Goni (NOAA/AOML), Jili Dong (NOAA/EMC), George Halliwell (NOAA/AOML), Hyun-Sook Kim (NOAA/EMC), Ricardo Domingues (University of Miami/CIMAS), Francis Bringas (NOAA/AOML), Julio Morell (University of Puerto Rico Mayaguez), Luis Pomales (University of Puerto Rico Mayaguez)

APOP_002 - [Value added Sentinel-3A sea level products by the Marine Altimetry L2P-L3 Service operational since end of June 2017](#)

Sabine Philipps (CLS), Emilie Bronner (CNES), Marie-Isabelle Pujol (CLS), Michael Ablain (CLS), Marine Lievin (CLS), Isabelino Denis (CNES), Carolina Nogueira Loddo (EUMETSAT)

APOP_003 - [Impacts of oil spill on satellite altimetry measurements](#)

Cheng Yongcun (Center for Coastal Physical Oceanography, Old Dominion University), Jean Tournadre (Laboratoire d'Océanographie Physique et Spatiale, IFREMER, CNRS, Université de Bretagne Occidentale, Plouzané, France), Xiaofeng Li (GST, NOAA/NESDIS/STAR, College Park, Maryland, USA), Qing Xu (College of Oceanography, Hohai University, Nanjing, China), Bertrand Chapron (Laboratoire d'Océanographie Physique et Spatiale, IFREMER, CNRS, Université de Bretagne Occidentale, Plouzané, France)

APOP_004 - [G-REALM: Investigating the Sentinel-3A data set for the next phase of Operational Lake and Wetland monitoring](#)

Charon Birkett (University of Maryland), Martina Ricko (SGT), Xu Yang (SGT), Brian Beckley (SGT)

APOP_005 - [NOAA's Jason Products](#)

David Donahue (NOAA/NESDIS/OSPO), Donald Richardson (Columbus Technologies, Inc.), Alejandro Egido (NOAA/NESDIS/STAR), Yongsheng Zhang (NOAA/NESDIS/NCEI), Eric Leuliette (NOAA/NESDIS/STAR)

APOP_006 - [The quasi-operational 4D-Var ocean data assimilation/prediction system for the western North Pacific at JMA](#)

Toshiyuki Sakurai (Japan Meteorological Agency), Mikitoshi Hirabara (Japan Meteorological Agency), Masakazu Higaki (Japan Meteorological Agency), Hiromu Kobayashi (Japan Meteorological Agency), Norihisa Usui (Meteorological Research Institute), Yosuke Fujii (Meteorological Research Institute), Hiroyuki Tsujino (Meteorological Research Institute)

APOP_007 - [Jason-2 and Jason-3 Near-Real Time Products Latency over the Past Year](#)

Donald Richardson (Columbus Technologies and Services), David Donahue (NOAA)

APOP_008 - [CMEMS SEA LEVEL THEMATIC ASSEMBLY CENTER, ACHIEVEMENTS AND PERSPECTIVES](#)

Yannice Faugere (CLS Space Oceanography Division), Isabelle Pujol (CLS), Antoine Delepoulle (CLS), Guillaume Taburet (CLS), Maxime Ballarotta (CLS), Gerald Dibarboure (CLS), Ananda Pascual (IMEDEA), Florence Birol (Legos), Francesco D'Ovidio (CLS)

APOP_009 - [Reconstruction of the surface ocean topography and associated dynamics using image data assimilation in the prospect of the SWOT mission](#)

Pierre Brasseur (CNRS/IGE)

APOP_010 - [Ocean Surface Altimetry with CyGNSS](#)

Mashburn Jake (University of Colorado), Penina Axelrad (University of Colorado Boulder), Stephen Lowe (NASA Jet Propulsion Laboratory), Cinzia Zuffada (NASA Jet Propulsion Laboratory), Dallas Masters (University of Colorado Boulder)

APOP_011 - [On the improvement of high resolution AROME winds for operational wave forecast under cyclonic conditions : validation with altimeters wave data](#)

Lotfi Aouf (Division Marine et Océanographie Météo-France), Alice Dalphinnet (Météo-France), Ghislain Faure (CNRM/GMAP/Météo-France), Hervé Giordani (CNRM/GMGEC/Météo-France)

Regional and Global CAL/VAL for Assembling a Climate Data Record

Session chairs: Pascal Bonnefond, Shailen Desai, Bruce Haines, Eric Leuliette, Nicolas Picot

Thu, Oct 26 2017, 14:00 - 18:00 - Concerto Ballroom

CVL_001 - [Fiducial Reference Measurements for Satellite Altimetry Calibration](#)

Stelios Mertikas (Technical University of Crete), Craig Donlon (ESTEC/European Space Agency), Constantine Mavrocordatos (ESTEC/European Space Agency), Demetris Galanakis (Space Geomatica P.C.), Pierre Féménias (ESRIN/European Space Agency), Achilles Tripolitsiotis (Space Geomatica P.C.), Xenofon Fratzis (Technical University of Crete)

CVL_002 - [Multi-mission Calibrations results at the Permanent Facility for Altimetry Calibration in west Crete, Greece attaining Fiducial Reference Measurement Standards](#)

Stelios Mertikas (Technical University of Crete), Craig Donlon (ESTEC/European Space Agency), Constantine Mavrocordatos (ESTEC/European Space Agency), Pierre Féménias (ESRIN/European Space Agency), Demetris Galanakis (Space Geomatica P.C.), Ilias Tziavos (Aristotle University of Thessaloniki), Francois Boy (Centre National d'études Spatiales (CNES)), George Vergos (Aristotle University of Thessaloniki), Ole Andersen (Danish Space Center), Xenofon Frantzis (Technical University of Crete), Mingsen Lin (National Satellite Ocean Application Service), Achilles Tripolitsiotis (Space Geomatica P.C.)

CVL_003 - [Sentinel-3 Transponder Calibration Results](#)

Albert Garcia-Mondejar (isardSAT), Stelios Mertikas (Space Geomatica PC), Demetris Galanakis (Space Geomatica PC), Sylvie Labroue (CLS), Jerome Bruniquel (ACRI-ST), Graham Quartly (Plymouth Marine Laboratory), Pierre Féménias (ESRIN/ESA), Constantin Mavrocordatos (ESTEC/ESA), Pablo Garcia (isardSAT), Mònica Roca (isardSAT)

CVL_004 - [The Sentinel-3A SRAL Instrument Calibration Monitoring](#)

Pablo Garcia (isardSAT), Mònica Roca (isardSAT), Graham Quartly (Plymouth Marine Laboratory)

CVL_005 - [Sentinel-3 calibration and validation in Bass Strait as an extension of the Jason site.](#)

Benoit LEGRESY (CSIRO Oceans and Atmosphere, Climate Science Centre), Christopher WATSON (University of Tasmania), Madeleine CAHILL (CSIRO Oceans and Atmosphere, Climate Science Centre), John ANDREWARTHA (CSIRO Oceans and Atmosphere)

CVL_006 - [Mapping the sealevel for altimetry calibration purpose using the future PAMELI marine ASV around the Aix Island sea-level observatory](#)

Valérie Ballu (LIENSs/Université de La Rochelle), Laurent Testut (LEGOS), Etienne Poirier (LIENSs/Université de La Rochelle), Antoine Guillot (DT INSU, Brest), Michel Calzas (DT INSU, Brest), Christine Drezen (DT INSU, Brest), Lionel Fichen (DT INSU, Brest), Thibault Coulombier (LIENSs/Université de La Rochelle), Philippe Pineau (LIENSs/Université de La Rochelle), Nicolas Lachaussee (LIENSs/Université de La Rochelle), Christine Plumejeaud (LIENSs/Université de La Rochelle), Pascal Bonnefond (Observatoire de Paris), Xavier Bertin (LIENSs/Université de La Rochelle), Guy Wöppelmann (LIENSs/Université de La Rochelle)

CVL_007 - [Regional in situ CalVal of satellite altimeter range at non-dedicated sites](#)

Mathilde Cancet (NOVELTIS), Pascal Bonnefond (OBSPM), Bruce Haines (JPL/NASA), Christopher Watson (University of Tasmania), Florent Lyard (LEGOS/CNRS), Olivier Laurain (OCA), Pierre Féménias (ESA/ESRIN)

CVL_008 - [Analysis of Measurements from a Lidar Instrument for Sea Level and Sea State Studies](#)

Dallas Masters (University of Colorado), Adam Dodge (University of Colorado), Bruce Haines (NASA/JPL), Robert Leben (University of Colorado), R. Steven Nerem (University of Colorado)

CVL_009 - [CONTRIBUTION OF IBIZA, ESTARTIT AND BARCELONA HARBOURS SITES FOR ALTIMETER CALIBRATIONS](#)

Juan Jose Martinez-Benjamin (Technical University of Catalonia), Assumpcio Termens (GeoInquiets), Rogelio Lopez (Technical University of Catalonia), Ana Tapia (Technical University of Catalonia)

CVL_010 - [Calibration and Validation of altimeter observations and models by means of global multi-mission crossover analysis](#)

Denise Dettmering (Deutsches Geodätisches Forschungsinstitut (DGFI-TUM)), Christian Schwatke (DGFI-TUM)

CVL_011 - [Results from Inter-Satellite and Independent Calibration and Validation for Jason-2 and Jason-3](#)

Jean-Damien DESJONQUERES (NASA Jet Propulsion Laboratory), Shailen Desai (NASA Jet Propulsion Laboratory), Bruce Haines (NASA Jet Propulsion Laboratory), Rashmi Shah (NASA Jet Propulsion Laboratory), Matthieu Talpe (NASA Jet Propulsion Laboratory)

CVL_012 - [Global Jason-2 Data Quality Assessment on the new Long Repeat Orbit](#)

Hélène Roinard (CLS), Michael Ablain (CLS), Nicolas Picot (CNES)

- CVL_013** - [Global Ocean Data Quality Assessment of SARAL/AltiKa](#)
Annabelle Ollivier (CLS), Vincent Debout (CLS), Pierre Prandi (CLS), Nicolas Picot (CNES)
- CVL_014** - [Envisat ocean altimetry second reprocessing on going](#)
Annabelle Ollivier (CLS), Ghita Jettou (CLS), Stephanie Urien (CLS), Françoise Bailly-Poirot (CNES), Pierre Féménias (ESA)
- CVL_015** - [Global Hy-2a Data Quality Assessment Over Ocean](#)
Ghita Jettou (CLS), Matthias Raynal (CLS), Isabelino Denis (CNES), Nicolas Picot (CNES), Jean-Michel Lachiver (CNES)
- CVL_016** - [Performances and assessment of Cryosat-2 and Sentinel-3A SARM over ocean inferred from existing ground processing chains.](#)
Matthias Raynal (CLS), Sylvie Labroue (CLS), Stéphanie Urien (CLS), Laiba Amarouche (CLS), Thomas Moreau (CLS), François Boy (CNES), Pierre Féménias (ESA), Jérôme Bouffard (ESA)
- CVL_017** - [CryoSat-2 Ocean Altimetry Assessment](#)
Ernst Schrama (TU Delft), Marc Naeije (TU Delft), Jerome Bouffard (ESA), Pierre Femenias (ESA)
- CVL_018** - [Assessment of TOPEX reprocessed data on the Mean Sea level using several independant approaches](#)
Michael Ablain (CLS), Lionel Zawadzki (CLS), Hélène Roinard (CLS), Anny Cazenave (CLS), Nicolas Picot (CLS)
- CVL_019** - [Assessment of Revised TOPEX/Jason Global and Regional Mean Sea Level Estimates Referenced to ITRF2014](#)
Brian Beckley (SGT Inc./NASA GSFC), Frank Lemoine (NASA/GSFC), Nikita Zelensky (SGT Inc.), Bryant Loomis (NASA GSFC), Richard Ray (NASA GSFS), Gary Mitchum (University of South Florida), Xu Yang (SGT Inc.)

Advances in coastal altimetry: measurement techniques, science applications and synergy with in situ and models

Session chairs: Florence Birol, Marcello Passaro, Ted Strub

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COAST_001 - [Coastal Altimetry Using Ku/Ka-Bands Signals of Opportunity: Results From A Recent Experiment at Platform Harvest](#)

Rashmi Shah (Jet Propulsion Laboratory), Soon Chye Ho (Purdue University), James Garrison (Purdue University), Priscilla Mohammed (NASA Goddard Space Flight Center), Jeffrey Piepmeier (NASA Goddard Space Flight Center), Adam Schoenwald (NASA Goddard Space Flight Center), Randeep Pannu (Morgan State University), Bruce Haines (Jet Propulsion Laboratory)

COAST_002 - [Wet Tropospheric Correction dedicated to hydrological and coastal applications](#)

Bruno Picard (CLS), Marie-Laure Frery (CLS), Mickaël Pardé (CLS)

COAST_003 - [Independent assessment of Microwave Radiometer measurements in coastal zones using tropospheric delays from GNSS](#)

Telmo Vieira (Universidade do Porto, Faculdade de Ciências; CIIMAR), M. Joana Fernandes (Universidade do Porto, Faculdade de Ciências; CIIMAR), Clara Lázaro (Universidade do Porto, Faculdade de Ciências; CIIMAR)

COAST_004 - [Coastal altimetry with SARAL/AltiKa: Emphasis to Indian mainland coastal region](#)

Aditya Chaudhary (ISRO), Rashmi Sharma (ISRO), Neeraj Agarwal (ISRO), Raj Kumar (ISRO)

COAST_005 - [Sea Level anomalies and mesoscale activity using altimetry along the African coasts in the eastern tropical Atlantic ocean \(OSTST Alti-ETAO project\)](#)

Habib Boubacar Dieng (LEGOS), Isabelle Dadou (LEGOS), Fabien Léger (LEGOS), Florence Birol (LEGOS), Yves Morel (LEGOS), Alexis Chaigneau (LEGOS/IRHOB/CIPMA, Cotonou)

COAST_006 - [Coastal Sea Level along the North Eastern Atlantic Shelf from SAR altimetry](#)

Luciana Fenoglio (University of Bonn), Christopher Buchhaupt (Technical University Darmstadt), Salvatore Dinardo (EUMETSAT), Bernd Uebbing (University of Bonn), Ole Andersen (DTU), Mederic Gravelle (University of La Rochelle), Remko Scharroo (EUMETSAT), Jürgen Kusche (University of Bonn), Matthias Becker (Technical University Darmstadt), Jerome Benveniste (ESA/ESRIN), Michael Kern (ESA/ESTEC)

COAST_007 - [Linking Sea Surface Height Variations with Hydrographic Variability around the Greenland Ice Sheet to Improve Understanding of Sea Level Rise](#)

Ian Fenty (JPL), Stephen Nerem (University of Colorado at Boulder), Dallas Masters (University of Colorado at Boulder), Dimitris Menemenlis (NASA JPL)

COAST_008 - [COSTA v.1.0: DGFI-TUM Along Track Sea Level Product for ERS-2 and Envisat \(1996-2010\) in the Mediterranean Sea and in the North Sea](#)

Marcello Passaro (DGFI-TUM), Denise Dettmering (DGFI-TUM)

COAST_009 - [Monitoring sea level and topography of coastal lagoons using satellite radar altimetry: the example of the Arcachon's Bay in the Bay of Biscay](#)

Edward Salameh (Laboratory for Studies in Geophysics and Spatial Oceanography - (LEGOS)), Frédéric Frappart (Laboratory for Studies in Geophysics and Spatial Oceanography - (LEGOS)), Vincent Marieu (Environnements et Paléoenvironnements Océaniques et Continentaux (EPOC)), Alexandra Spodas (Laboratoire d'Océanologie et de Géosciences), Jean-Paul Parisot (Environnements et Paléoenvironnements Océaniques et Continentaux (EPOC)), Benoit Laignel (Morphodynamique continentale et côtière (M2C)), Imen Turki (Morphodynamique continentale et côtière (M2C))

COAST_010 - [A study of the fine-scale dynamics in the North-Western Mediterranean Sea using altimetry, in-situ data and a high resolution regional model.](#)

Alice Carret (LEGOS/OMP), Florence Birol (LEGOS/OMP), Claude Estournel (LA/OMP)

COAST_011 - [Multi-Scale Analysis of Coastal Altimetry Data, Multi-Sensor Observations and Numerical Modelling Over the North Western Mediterranean Sea](#)

Marco Meloni (Serco spa), Jerome Bouffard (Rhea, Belgium c/o ESA/ESRIN), Andrea Doglioli (MIO (Mediterranean Institute of Oceanography)), Anne Petrenko (MIO (Mediterranean Institute of Oceanography))

COAST_012 - [Evaluation and application of operational altimeter-derived ocean surface current datasets on the NW Atlantic shelf](#)

Hui Feng (University of New Hampshire), Doug Vandemark (University of New Hampshire), Julia Levin (Rutgers University), John Wilkin (Rutgers University)

COAST_013 - [Satellite altimetry in the continental shelf of the Southwestern Atlantic, Argentina](#)

Loreley Lago (INIDEP), Martin Saraceno (Centro de Investigación del Mar y de la Atmósfera), Patricia Martos (Universidad Nacional de Mar del Plata), Raul Guerrero (INIDEP), Guillermina Paniagua (Centro de Investigaciones del Mar y la Atmósfera), Alberto Piola (Servicio de Hidrografía Naval Argentina)

COAST_014 - [Campeche Ocean Observing System](#)

Jorge Alejandro Kurczyn Robledo (Catedras Conacyt-Instituto Epomex), Heber Joctan Uc Gonzalez (Instituto Epomex), Eder Andrei Hernandez Martinez (Instituto Epomex), Gregorio Posada Vanegas (Instituto Epomex)

COAST_015 - [Coastal Circulation off SW Africa](#)

Ted Strub (Oregon State University), Ricardo Matano (Oregon State University), Corinne James (Oregon State University), Craig Risien (Oregon State University), Vincent Combes (Oregon State University)

Quantifying Errors and Uncertainties in Altimetry data

Session chairs: Michael Ablain, Joel Dorandeu, Remko Scharroo

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ERR_001 - [Continuing the Global Mean Sea Level reference record with Jason-CS / Sentinel-6](#)

Lionel Zawadzki (CLS), Michaël Ablain (CLS), Gérald Dibarboure (CNES)

ERR_002 - [Characterization of the Errors of Sentinel-3A Small Scale Content in SAR mode](#)

Sylvie Labroue (CLS), Matthias Raynal (CLS), Isabelle Pujol (CLS), Thomas Moreau (CLS),
Pierre Féménias (ESA), François Boy (CNES)

ERR_003 - [Eddy detection, spectral, and tide gage evaluation of JPL Gridded Altimetry.](#)

Victor Zlotnicki (Jet Propulsion Lab), Zheng Qu (Raytheon), Richard Ray (NASA-GSFC),
Joshua Willis (JPL), Brian Beckley (SGT-NASA-GSFC)

ERR_004 - [Improving Altimetry's Ocean De-aliasing Correction Using Daily GRACE Updates](#)

Jennifer Bonin (University of South Florida), Himanshu Save (UT - Center for Space Research)

Science IV: 25 years of satellite altimetry for Cryosphere and Hydrology: from experimental to emerging operational applications

Session chairs: Charon Birkett, Jérôme Bouffard, Jean-Francois Crétaux

Thu, Oct 26 2017, 14:00 - 18:00 - Concerto Ballroom

SC4_001 - [HyDrones, an innovative UAV embedded light altimeter to monitor continental water bodies: toward a new Cal/Val in-situ solution for future altimetry missions](#)

Jean-Christophe Poisson (CLS), Guillaume Valladeau (CLS), Pierre Prandi (CLS), Olivier Lauret (CLS)

SC4_002 - [Evaluation of the Sentinel-3 Hydrologic Altimetry Processor prototype \(SHAPE\) methods](#)

Albert Garcia-Mondejar (isardSAT Ltd.), Nicolas Bercher (Along-Track S.A.S.), Pierre Fabry (Along-Track S.A.S.), Mònica Roca (isardSAT Ltd.), Eduard Makhoul (isardSAT Ltd.), Joana Fernandes (Fac. Ciencias Univ. Porto), Clara Lazaro (Fac. Ciencias Univ. Porto), Telmo Vieira (Fac. Ciencias Univ. Porto), David Gustafsson (Swedish Meteorological and Hydrological Institute), Marco Restano (SERC/ESRIN), Américo Ambrósio (DEIMOS/ESRIN), Jérôme Benveniste (European Space Agency/ESA-ESRIN)

SC4_003 - [On using water surface slope for estimating discharge in critical backwater conditions: case study of the Poyang lake, China.](#)

Adrien Paris (GET UMR5563 CNES/IRD/CNRS/UPS), Laurance Fruteau (LEGOS UMR5566 CNES/IRD/CNRS/OMP), Stéphane Calmant (IRD/LEGOS UMR5566 IRD/CNRS/UPS/CNRS), Jean-François Crétaux (CNES/Legos, 14 Av Edouard Belin, 31400 Toulouse), Hervé Yesou (SERTIT, Univ. de Strasbourg)

SC4_004 - [Water level estimation in the Mekong River Basin based on a classification of CryoSat-2 SAR data](#)

Eva Boergens (DGFI-TUM), Karina Nielsen (DTU Space), Denise Dettmering (DGFI-TUM), Ole B. Andersen (DTU Space), Florin Seitz (DGFI-TUM)

SC4_005 - [Reassessment of the ICESAT-1 data over the Amazon waters](#)

Daniel MOREIRA (CPRM), stephane CALMANT (IRD / LEGOS), Otto CORREA ROTUNO FILHO (UFRJ / COPE), Felix PEROSANZ (CNES / GET)

SC4_006 - [Climate Indexes and altimetry-based water levels in Amazon basin rivers](#)

Mylene VIEIRA SILVA (CESTU / UEA), Joecila SANTOS da SILVA (CESTU / UEA)

SC4_007 - [CAUSES AND CONSEQUENCES of the 2014 FLOOD on the MADEIRA RIVER](#)

Jossandra ALVES DAMASCENO (CESTU / UEA), Joecila SANTOS da SILVA (CESTU / UEA), Adrien PARIS (LEGOS), Daniel MOREIRA (CPRM), Stéphane CALMANT (IRD / LEGOS)

SC4_008 - [Validation of a large data set of SARAL water levels in the Amazon basin](#)

Taina CONCHY (CESTU / UEA), Joecila SANTOS da SILVA (CESTU / UEA), stephane CALMANT (IRD / LEGOS), Daniel MOREIRA (CPRM)

SC4_009 - [Evaluation of the SENTINEL-3A water levels over large hydrological basins](#)

Stéphane Calmant (IRD), Denis BLUMSTEIN (CNES / LEGOS), Joecila SANTOS da SILVA (CESTU / UEA), Adrien PARIS (CLS)

SC4_010 - [A database of hydrology targets for the new DEM onboard Jason3](#)

Denis BLUMSTEIN (CNES/LEGOS), Sylvain BIANCAMARIA (LEGOS), Jean-François CRETAUX (CNES/LEGOS), Stéphane CALMANT (LEGOS), Fabien BLAREL (LEGOS), Elena ZAKHAROVA (LEGOS), Sophie Le Gac (CNES), François BOY (CNES), Nicolas PICOT (CNES)

SC4_011 - [Long term series of discharges distributed in the Congo River basin from hydrological modelling and satellite altimetry](#)

Adrien Paris (GET UMR5563 CNES/IRD/CNRS/UPS), Ayan Fleischmann (IPH/UFRGS), Taina Conchy (UEA), Stéphane Calmant (LEGOS UMR5566 IRD/CNRS/UPS/CNRS), Vinicius Siqueira (IPH/UFRGS), Marielle Gosset (GET UMR5563 CNES/IRD/CNRS/UPS), Rodrigo Cauduro Dias de Paiva (IPH/UFRGS), Walter Collischonn (IPH/UFRGS), Joecila Santos da Silva (UEA)

SC4_012 - [Recent evolutions and quality assessment of CryoSat products](#)

Jerome Bouffard (ESA - RHEA), Tommaso Parrinello (ESA), Pierre Féménias (ESA)

SC4_013 - [Sentinel-3A for sea-ice and land ice](#)

Salvatore Dinardo (He Space), Cristina Martin-Puig (EUMETSAT), Remko Scharroo (EUMETSAT)

SC4_014 - [The CryoSat SciEnce-oriented data ANALysis over sea-ICE areas project](#)

Pierre Fabry (ALONG-TRACK), Nicolas Bercher (ALONG-TRACK), Stefan Hendricks (AWI), Robert Ricker (AWI), Sara Fleury (LEGOS-CNRS), Frédérique Rémy (LEGOS-CNRS), Jean-Christophe Poisson (CLS), Pierre Thibaut (CLS), Jérôme Bouffard (ESA-ESRIN)

SC4_015 - [SPICE: Sentinel-3 Performance Improvement for Ice Sheets](#)

Malcolm McMillan (University of Leeds), Roger Escola (isardSAT Ltd), Monica Roca (isardSAT Ltd), Pierre Thibaut (CLS), Andrew Shepherd (University of Leeds), Frederique Remy (LEGOS), Jeremie Aublanc (CLS), Clemente Lacrouts (CLS), Jerome Benveniste (ESA), Americo Ambrozio (ESA), Marco Restano (ESA)

Science III: Mesoscale and sub-mesoscale oceanography

Session chairs: Lee-Lueng Fu, Rosemary Morrow

Thu, Oct 26 2017, 14:00 - 18:00 - Concerto Ballroom

SC3_001 - [On the permeability of the Malvinas Current](#)

Nicolás Bodnariuk (Centro de Investigaciones del Mar y la Atmósfera (CONICET-UBA); Instituto Franco-Argentino para el Estudio del Clima y sus Impactos (UMI IFAECI/CNRS-CONICET-UBA); Departamento de Ciencias de la Atmósfera y los Océanos, Facultad de Ciencias Exactas y Naturales, Francisco Javier Beron-Vera (Department of Atmospheric Science, Rosenstiel School of Marine and Atmospheric Science, University of Miami), Martín Saraceno (Centro de Investigaciones del Mar y la Atmósfera (CONICET-UBA); Instituto Franco-Argentino para el Estudio del Clima y sus Impactos (UMI IFAECI/CNRS-CONICET-UBA); Departamento de Ciencias de la Atmósfera y los Océanos, Facultad de Ciencias Exactas y Naturales), Claudia Gloria Simionato (Centro de Investigaciones del Mar y la Atmósfera (CONICET-UBA); Instituto Franco-Argentino para el Estudio del Clima y sus Impactos (UMI IFAECI/CNRS-CONICET-UBA); Departamento de Ciencias de la Atmósfera y los Océanos, Facultad de Ciencias Exactas y Naturales)

SC3_002 - [Using kinetic energy measurements from altimetry to detect shifts in the positions of fronts in the Southern Ocean](#)

Don Chambers (University of South Florida)

SC3_003 - [Influence of Mesoscale Eddies on the Deep Ocean Dynamics over the East Pacific Rise](#)

Xinfeng Liang (University of South Florida)

SC3_004 - [Effects of westward mountain-gap wind jets on the Red Sea Eastern Boundary Current and the mesoscale eddy field](#)

Menezes Viviane (WHOI), Tom Farrar (WHOI), Amy Bower (WHOI)

SC3_005 - [Salinity advection and Rossby waves in northern Indian Ocean](#)

Xiaosu Xie (Jet Propulsion Laboratory), W. Timothy Liu (Jet Propulsion Laboratory)

SC3_006 - [Forcing of mesoscale eddy kinetic energy variability in the southern subtropical Indian Ocean, from satellite altimeter and scatterometer data](#)

Andrew Delman (Jet Propulsion Laboratory), Tong Lee (Jet Propulsion Laboratory), Bo Qiu (University of Hawaii)

SC3_007 - [Diagnosing ocean eddy heat and salt fluxes from satellite altimetry and Argo profile data](#)

Oleg Melnichenko (University of Hawaii), Angel Amores (Mediterranean Institute for Advanced Studies, Balearic Islands)

SC3_008 - [Using ADCP data and altimetry to evaluate high-wavenumber variability in the California Current and the tropics](#)

Sarah Gille (Scripps Institution of Oceanography, UC San Diego), Teresa Chereskin (Scripps Institution of Oceanography, UC San Diego), Saulo Soares (University of Hawaii), Cesar Rocha (Scripps Institution of Oceanography, UC San Diego)

SC3_009 - [Global wavenumber spectra from SARAL/AltiKa observations](#)

Oscar Vergara (LEGOS/OMP), Rosemary Morrow (LEGOS/OMP), Isabelle Pujol (CLS Space Oceanography), Gerlad Dibarbouré (CNES)

SC3_010 - [Spectral signatures of the tropical Pacific dynamics from model and altimetry: A focus on the meso/submesoscale range](#)

Lionel Gourdeau (LEGOS/IRD), Michel Tchilibou (LEGOS), Rosemary Morrow (LEGOS), Guillaume Serazin (LEGOS), Bughsin Djath (Helmholtz-Zentrum Geesthacht)

SC3_011 - [Synergetic use of surface drifters and altimetry to increase resolution and accuracy of maps of sea level anomaly in the Gulf of Mexico](#)

Sandrine Mulet (CLS), Hélène Etienne (CLS), Marie-Hélène Rio (CLS), Yannice Faugere (CLS), Gérald Dibarbouré (CNES), Nicolas Picot (CNES)

SC3_012 - [Analog data-driven strategies for the reconstruction of altimeter-derived SSH fields](#)

ronan fablet (IMT Atlantique)

SC3_013 - [A new method to detect mesoscale eddies in satellite records](#)

Fabricio Oliveira (Federal University of Rio Grande), Paulo Polito (University of Sao Paulo)

SC3_014 - [Mesoscale Geostrophic Currents and Optimal SSH Mapping](#)

Kathleen Dohan (Earth and Space Research)

SC3_015 - [Upcoming high-resolution regional products of Sea Level Anomaly from Dynamic Interpolation](#)

Clement Ubelmann (CLS), maxime ballarotta (CLS), yannice Faugere (CLS), Marine Rogé (LEGOS), Rosemary Morrow (LEGOS), gérald Dibarbouré (CNES)

SC3_016 - [Rafting behavior of Scopoli's shearwaters: a proxy to describe surface currents in the western Mediterranean Sea?](#)

Antonio Sánchez-Román (IMEDEA (CSIC-UIB)), Evan Mason (IMEDEA (CSIC-UIB)), Laura Gómez-Navarro (Univ. Grenoble Alpes, CNRS, IRD, IGE), Ananda Pascual (IMEDEA (CSIC-UIB)), Ronan Fablet (labSTICC, Telecom Bretagne), José Manuel Arcos (Sociedad Española de Ornitología), Daniel Oro (IMEDEA(CSIC-UIB)), Simón Ruiz (IMEDEA (CSIC-UIB))

SC3_017 - [Evaluating CMEMS forecast model products in the western Mediterranean using altimetry, an eddy tracker, and multiplatform in situ data](#)

Evan Mason (IMEDEA), Ananda Pascual (IMEDEA), Simón Ruiz (IMEDEA), Antonio Sanchez-Roman (IMEDEA)

SC3_018 - [The DUACS-DT2018 reprocessed sea level time series soon available in CMEMS](#)

Maxime BALLAROTTA (Collecte Localisation Satellites (CLS)), Guillaume TABURET (Collecte Localisation Satellites (CLS)), Marine LIEVIN (Collecte Localisation Satellites (CLS)), Marie-Isabelle PUJOL (Collecte Localisation Satellites (CLS)), Jean-François LEGAIS (Collecte Localisation Satellites (CLS)), Yannice FAUGERE (Collecte Localisation Satellites (CLS)), Gérald DIBARBOURE (Centre National d'Etudes Spatiales (CNES))

SC3_019 - [Impact of the assimilation of high-frequency data in a regional model with high resolution](#)

Mounir Benkiran (mercator-ocean), Elisabeth Remy (Mercator-ocean), Guillaume Refray (Mercator-Ocean)

SC3_020 - [Validation of the GlobCurrent surface current products in Australia](#)

Mathilde Cancet (NOVELTIS), David Griffin (CSIRO), Madeleine Cahill (CSIRO), Bertrand Chapron (IFREMER), Johnny Johannessen (NERSC), Craig Donlon (ESA/ESTEC)

SC3_021 - [24 year mesoscale eddy trajectory atlas on AVISO](#)

Antoine Delepouille (CLS), Michael Schlax (OSU), Dudley Chelton (OSU), Yannice Faugere (CLS), Gerald Dibarbour (CNES)

SC3_022 - [Long-range correlations in altimetric sea level anomaly associated with long-living mesoscale eddies](#)

Christopher Roach (CSIRO), Nikolai Maximenko (IPRC/SOEST, University of Hawaii)

SC3_023 - [Offshore transport of POC in the California Current System due to mesoscale eddies](#)

Caitlin Amos (University of Georgia), Renato Castelao (University of Georgia)

SC3_024 - [Physical and Biological Implications of Agulhas Eddy Signatures](#)

Sheekela Baker-Yeboah (University of Maryland and NOAA/NESDIS/STAR/Satellite Oceanography and Climatology Division), Deirdre Byrne (Department of Environmental Affairs, Cape Town, South Africa), Eric Leuliette (NOAA/NESDIS/STAR/Satellite Oceanography and Climatology Division, College Park, MD), Paul DiGiacomo (NOAA/NESDIS/STAR/Satellite Oceanography and Climatology Division, College Park, MD), Jessica Burns (Global Science and Technology, Inc. and NOAA/NESDIS/STAR/Satellite Oceanography and Climatology Division)

SC3_025 - [Measuring currents, ice drift, and waves from space: \ the Sea Surface Kinematics Multiscale monitoring \(SKIM\) concept](#)

Fabrice Ardhuin (LOPS), Yevgueny Aksenov (NOC), Alvis Benetazzo (ISMAR), Laurent Bertino (NERSC), Peter Brandt (GEOMAR), Eric Caubet (TAS), Bertrand Chapron (LOPS), Fabrice Collard (ODL), Sophie Cravatte (LEGOS), Team SKIM (many affiliations), Justin Stopa (LOPS), Clement Ubelmann (CLS)

SC3_026 - [Characterizing mesoscale eddies in the Bay of Bengal: Relative performance of Nadir versus Swath Altimeter](#)

Neeraj Agarwal (ISRO), Aditya Chaudhary (ISRO), Jishad M (ISRO), Rashmi Sharma (ISRO)

SC3_027 - [On the spatial scale resolved by the future SWOT KaRIN measurement over the ocean](#)

Jinbo Wang (Caltech/JPL), Lee-Lueng Fu (Caltech/JPL)

SC3_028 - [Impact of Swot altimetry missions to Ocean analysis and forecast system](#)

Mounir Benkiran (mercator-ocean), Elisabeth Remy (Mercator-ocean), Yann Drillet (Mercator-Ocean), Pierre-Yves Le Traon (Mercator-Ocean / IFREMER)

SC3_029 - [Realistic SSH scenes for preparing SWOT: the NATL60 1/60° North Atlantic Ocean simulations](#)

Julien Le Sommer (IGE, CNRS), Laurent Brodeau (Ocean Next), Jean-Marc Molines (IGE, CNRS), Nicole Audiffren (CINES), Aurélie Albert (IGE, CNRS), Adekunle Ajayi (IGE, Univ. Grenoble Alpes), Emmanuel Cosme (IGE, Univ. Grenoble Alpes), Stéphanie Leroux (Ocean Next), Thierry Penduff (IGE, CNRS), Bernard Barnier (IGE, CNRS), Jacques Verron (Ocean Next), Pierre Brasseur (IGE, CNRS)

The Geoid, Mean Sea Surfaces and Mean Dynamic Topography

Session chairs: Ole B. Andersen, Yannice Faugere

Thu, Oct 26 2017, 14:00 - 18:00 - Concerto Ballroom

GEO_001 - [Results from GOCE++ Dynamical Coastal Topography and tide gauge unification using altimetry and GOCE](#)

Ole Baltazar Andersen (DTU Space, Elektrovej 328, DK-2800 Lyngby Denmark), Per Knudsen (DTU Space, Elektrovej 328, DK-2800 Lyngby Denmark), Karina Nielsen (DTU Space, Elektrovej 328, DK-2800 Lyngby Denmark), Christopher Hughes (University of Liverpool (NOC),), Phil Woodworth (University of Liverpool (NOC),), Michael Kern (ESA ESTEC, Noordwijk), Luciana Fenoglio-Marc (TU Bonn), Rory Bingham (University of Bristol), Mederic Gravelle (University La Rochelle, LIENS), Guy Woppelman (University La Rochelle, LIENS)

GEO_002 - [Geomed2: gravimetric versus combined geoid model](#)

Sean Bruinsma (CNES), Marie-Helene Rio (CLS), Franck Reinquin (CNES)

GEO_003 - [A new OGMOC mean dynamic topography model – DTU17MDT](#)

Per Knudsen (DTU Space), Ole Andersen (DTU Space), Nikolai Maximenko (IPRC U Hawaii), Thomas Fecher (TU Munich), Thomas Gruber (TU Munich)

GEO_004 - [GOCE User Toolbox and Tutorial](#)

Per Knudsen (DTU Space), Jerome Benveniste (ESA-ESRIN)

GEO_005 - [State-of-the-Art Mean Sea Surface and Geoid Model assessment in the Arctic and implications for Sea Ice Freeboard Retrieval](#)

Henriette Skourup (DTU Space, Elektrovej 328), Ole Baltazar Andersen (DTU Space, Elektrovej, 328 DK-2800), Sinead L. Farrell (NOAA Center for Weather and Climate Prediction, College Park, MD, USA), Stefan Hendricks (DTU Space, Elektrovej 328), Thomas W. K. Armitage (CPOM University College London, UK), Ridout Andy (CPOM University College London, UK), Haas Christian (York University, Toronto, Ontario, Canada), Baker Steven (Mullard Space Science Laboratory, University College London, UK)

GEO_006 - [Global and regional evaluation of recent Mean Sea Surfaces using the first year of Sentinel-3 data and impact for updating the DTU15MSS](#)

Heidi Villadsen (DTU Space, Elektrovej bldg 328, 2800 Kongens Lyngby), Ole Andersen (DTU Space, Elektrovej bldg 328, 2800 Kongens Lyngby), Lars Stenseng (DTU Space, Elektrovej bldg 328, 2800 Kongens Lyngby), Per Knudsen (DTU Space, Elektrovej bldg 328, 2800 Kongens Lyngby)

Tides, internal tides and high-frequency processes

Session chairs: Loren Carrere, Florent Lyard, Richard Ray

Thu, Oct 26 2017, 14:00 - 18:00 - Concerto Ballroom

TID_001 - [Experiments with tidal analysis and assimilation of CryoSat-2 altimetry in the Weddell Sea and on adjoining ice shelves](#)

Edward Zaron (Portland State University)

TID_002 - [Towards further improving DTU global ocean tide model in shallow waters and Polar Seas](#)

Yongcun Cheng (Center for Coastal Physical Oceanography, Old Dominion University), Ole B. Andersen (DTU Space, Danish National Space Center, Technical University of Denmark)

TID_003 - [Improvement of the Arctic Ocean Bathymetry and Regional Tide Atlas – first results from the CP4O initiative](#)

Ole Baltazar Andersen (Dr), Mathilde Cancet (NOVELTIS, France), David Cotton (SatOC.), Jerome Benveniste (ESA ESRIN, Frascati)

TID_004 - [Improving the Dynamic Atmospheric Correction for delayed-time and real-time applications of altimetry](#)

Loren Carrere (CLS), Florent Lyard (LEGOS/CNRS), Yannice Faugere (CLS), Romain Baghi (CLS), Jean-Michel Lachiver (CNES), Nicolas Picot (CNES)

TID_005 - [Bathymetry improvement and tidal modeling at regional scales](#)

Mathilde Cancet (NOVELTIS), Florence Toubanc (NOVELTIS), Gérald Dibarbouré (CNES), Thierry Guinle (CNES)

TID_006 - [Estimating tidal constants in the near-shore domain from Jason1-2-3 archive: a case study for the northern Bay of Bengal](#)

Marufa Ishaque (Maritime University, Dhaka), Laurent Testut (LEGOS, Toulouse), Fabien Durand (LEGOS, Toulouse), Stéphane Calmant (LEGOS, Toulouse), Yann Krien (LARGE, Université Antilles-Guyane, Pointe-à-Pitre), Jamal Khan (IWFM/BUET, Dhaka), Damien Allain (LEGOS, Toulouse), Florent Lyard (LEGOS, Toulouse), Valérie Ballu (LIENSs, Université de La Rochelle), Sara Fleury (LEGOS, Toulouse)

TID_007 - [Geodetic survey of the freshwater front of the Ganges-Brahmaputra freshwater plume in the northern Bay of Bengal from CalNaGeo GNSS device](#)

Fabien Durand (LEGOS), Stéphane Calmant (LEGOS, Toulouse), Michel Calzas (DT-INSU, CNRS, Plouzané), Valérie Ballu (LIENSs, Université de La Rochelle), Laurent Testut (LEGOS, Toulouse), Pierre Valté (DITTT, Nouméa), Yann Krien (LARGE, Université Antilles-Guyane), Pascal Bonnefond (Observatoire de Paris - SYRTE), Fabrice Papa (LEGOS, IRD)

TID_008 - [SWOT in the Tropics: High-frequency and small-scale dynamics of sea surface height around New-Caledonia from in situ observations](#)

Guillaume SERAZIN (LEGOS/IRD), Frédéric MARIN (IRD), Sophie CRAVATTE (IRD), Lionel GOURDEAU (IRD), Rosemary MORROW (CNRS)

Others (poster only)

Session chairs: Pascal Bonnefond, Craig Donlon, Eric Leuliette, Remko Scharroo, Josh Willis

Thu, Oct 26 2017, 14:00 - 18:00 - Concerto Ballroom

OTH_001 - [THE OCEAN SURFACE TOPOGRAPHY SENTINEL-6/JASON-CS SATELLITES](#)

Luisella Giulicchi (ESA), Robert Cullen (ESA), Craig Donlon (ESA), Pierrick Vuilleumier (ESA)

OTH_002 - [Sentinel-6 Poseidon-4 L1B simulator: end-to-end performance evaluation from model-based waveforms](#)

Lisa Recchia (Aresys srl), Mieke Kuschnerus (ESA - ESTEC), Michele Scagliola (Aresys srl), Davide Giudici (Aresys srl), Roberta Bertoni (ESA - ESTEC)

OTH_003 - [Study of Ocean-Tropical Cyclone interactions with multisensor observations](#)

Clément Combot (IFREMER), Bertrand Chapron (IFREMER), Yves Quilfen (IFREMER), Alexis Mouche (IFREMER)

OTH_004 - [Storm waves sharpening in the Agulhas current: satellite observations and modeling](#)

Yves Quilfen (IFREMER)

OTH_005 - [A new look at the Ku-C backscatter relationship to analyze sigmabloom](#)

Jean Tournadre (IFREMER), Vandemark Doug (U. New-Hampshire), Hui Feng (U. New-Hampshire), Chapron Bertrand (IFREMER)

OTH_006 - [A revisit of global ocean smooth surface conditions and temporal changes using the Topex-to- Jason altimeter time series data](#)

Doug Vandemark (Univ. of New Hampshire), Hui Feng (Univ. of New Hampshire), Jean Tournadre (IFREMER), Bertrand Chapron (IFREMER)