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# 2015 Ocean Surface Topography Science Team Meeting

Tuesday, October 20 2015 - Friday, October 23 2015

The objectives of the 2015 OSTST Meeting will be: (1) provide updates on the status of Jason-2 (2) conduct splinter meetings on system performance (orbit, measurements, corrections), altimetry data products, science outcomes, and outreach

In addition to the traditional in-depth analyses of TOPEX/Poseidon-Jason missions, analyses from other missions bringing reciprocal benefits are welcome.

Event's program

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# Meeting Overview

	Tuesday 20th	Wednesday 21st	Thursday 22nd	Friday 23rd
08:00	Registration and Presentation upload	Registration and Presentation upload	Registration and Presentation upload	Registration and Presentation upload
09:00	OSTST Opening Plenary Session Grand Ballroom 1	Application development for Near Real-Time Operations (previously NRT splinter) Grand Ballroom 2	Precision Orbit Determination (part I) Grand Ballroom 1	OSTST Closing Plenary Session Grand Ballroom 1
10:00				
10:30	Coffee break	Coffee break	Coffee break	Coffee break
11:00	OSTST Opening Plenary Session (cont') Grand Ballroom 1	Precision Orbit Determination (part II) Grand Ballroom 1	Tides, internal tides and high-frequency processes Grand Ballroom 2	OSTST Closing Plenary Session (cont') Grand Ballroom 1
12:00				
12:30	Lunch	Lunch	Lunch	Lunch
13:00				
14:00	Instrument Processing (part I): Corrections Grand Ballroom 1	Regional and Global CAL/VAL for Assembling a Climate Data Record (part I) Grand Ballroom 1	Round Tables rooms will be indicated on site	
14:00	Science I: Mean sea level monitoring: how to reconcile altimetry, tide gauges, land motion and other in situ observations? Grand Ballroom 2	Science II: Mesoscale and sub-mesoscale ocean processes: current understanding and preparation for SWOT Grand Ballroom 2		
15:00				
15:45	Coffee break	Coffee break	Coffee break	
16:00	Instrument Processing (part II): Measurement, retracking (SAR/LRM) Grand Ballroom 1	The Geoid, Mean Sea Surfaces and Mean Dynamic Topography Grand Ballroom 2	Poster session (cont') Grand Ballroom Foyer	
16:15	Outreach, Education & Altimetric Data Service Grand Ballroom 2	Regional and Global CAL/VAL for Assembling a Climate Data Record (part II) Grand Ballroom 1		
17:00				
18:00	Icebreaker			
19:00				
19:30		Banquet dinner Grandball room		
20:00				
21:00				

# List of event's sessions

## Tuesday, October 20 2015

### - OSTST Opening Plenary Session

(09:00 - 12:30)

Grand Ballroom 1

### - Instrument Processing: Corrections

(14:00 - 15:45)

Grand Ballroom 1

### - Science I: Mean sea level monitoring: how to reconcile altimetry, tide gauges, land motion and other in situ observations?

(14:00 - 15:45)

Grand Ballroom 2

### - Instrument Processing: Measurement and retracking (SAR and LRM)

(16:15 - 18:00)

Grand Ballroom 1

### - Outreach, Education and Altimetric Data Services

(16:15 - 18:00)

Grand Ballroom 2

## Wednesday, October 21 2015

### - Precision Orbit Determination

(09:00 - 12:30)

Grand Ballroom 1

### - Application development for Operations (previously NRT splinter)

(09:00 - 10:30)

Grand Ballroom 2

### - Tides, internal tides and high-frequency processes

(11:00 - 12:30)

Grand Ballroom 2

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

(14:00 - 18:00)

Grand Ballroom 1

### - Science II: Mesoscale and sub-mesoscale ocean processes: current understanding and preparation for SWOT

(14:00 - 15:45)

Grand Ballroom 2

### - The Geoid, Mean Sea Surfaces and Mean Dynamic Topography

(16:15 - 18:00)

Grand Ballroom 2

## Thursday, October 22 2015

### - Quantifying Errors and Uncertainties in Altimetry data

(09:00 - 10:30)

Grand Ballroom 1

### - Science III: Large scale and global change ocean processes: the ocean's role in climate

(09:00 - 10:30)

Grand Ballroom 2

### - Poster session

(11:00 - 18:00)

Posters displayed in Grand Ballroom Foyer

### - Round tables

(14:00 - 15:45)

Grand Ballroom 1&2 (rooms will be indicated on site)

## Friday, October 23 2015

### - OSTST Closing Plenary Session

(09:00 - 12:30)

Grand Ballroom 1

## Oral sessions

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**Tuesday, October 20 2015**

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

### OSTST Opening Plenary Session

**Session chairs:** Pascal Bonnefond, John Lillibridge, Remko Scharroo, Josh Willis  
(Tue, Oct 20 2015, 09:00 - 12:30)

#### Grand Ballroom 1

**09:00 - 09:05:**

[Welcoming remarks and meeting overview](#)

Josh Willis (JPL, United States)

**09:05 - 09:30:**

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

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

**09:30 - 09:45:**

[Jason-2 mission overview](#)

Thierry Guinle (CNES, France)

**09:45 - 09:55:**

[SARAL/AltiKa mission overview](#)

Thierry Guinle (CNES, France)

**09:55 - 10:10:**

[Jason-3 status](#)

Gerard Zaouche (CNES, France)

**10:10 - 10:25:**

[Jason-CS news and developments](#)

Pierrick Vuilleumier (ESA/ESTEC, Nederland)

**10:25 - 10:35:**

[SWOT status](#)

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

**10:30 - 11:00: Coffee break**

**11:00 - 11:20: Keynote/invited**

[What Do We Really Know About 20th Century Global Mean Sea Level?](#)

Benjamin Hamlington (Old Dominion University, United States), Philip Thompson (University of Hawaii, USA), Felix Landerer (JPL, USA)

**11:20 - 11:40: Keynote/invited**

[AlborEx: a multi-platform interdisciplinary view of Meso and Submesoscale processes](#)

Ananda Pascual (IMEDEA(CSIC-UIB), España), Ruiz Simón (IMEDEA(CSIC-UIB), Spain), Troupin Charles (SOCIB, Spain), Antonio Olita (CNR, Italy), Mariona Claret (McGillU, Canada), Amala Mahadevan (WHOI, US), Baptiste Mourre (SOCIB, SPAIN), Pierre-Marie Poulain (OGS, Italy), Arthur Capet (OSG, Italy), Joaquín Tintoré (SOCIB and IMEDEA(CSIC-UIB), Spain), Antonio Tovar (IMEDEA(CSIC-UIB) and ICMAN, SPAIN)

**11:40 - 12:00: Keynote/invited**

[Explaining the spread in global mean thermosteric sea level rise in CMIP5 climate models](#)

Angelique Melet (LEGOS / CNES, France), Benoit Meyssignac (LEGOS / CNES, France)

**12:00 - 12:20:**

[Status of the Sea Level Initiatives from both US and Europe Side](#)

Steve Nerem and Gilles Larnicol et al.

**12:20 - 12:30:**

[Jason-2 EoL: possible orbits for Geodesy and Oceanography](#)

Gerald Dibarboure (CLS, France)

**12:30 - 12:40:**

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

Remko Scharroo (EUMETSAT, Deutschland)

**12:30 - 14:00: Lunch**

## Instrument Processing: Corrections

**Session chairs:** Shannon Brown, Estelle Obligis

(Tue, Oct 20 2015, 14:00 - 15:45)

### Grand Ballroom 1

**14:00 - 14:15:**

[SAR mode altimetry and sea state bias](#)

Clare Bellingham (National Oceanography Centre, United Kingdom), Christine Gommenginger (National Oceanography Centre, UK), Meric Srokosz (National Oceanography Centre, UK)

**14:15 - 14:30:**

[A new proposal for SSB modelling with three parameters exclusively derived from altimetric data](#)

Nelson Pires (FCUP - University of Porto, Portugal), Joana Fernandes (FCUP - University of Porto, Portugal), Christine Gommenginger (National Oceanography Centre, UK), Remko Scharroo (EUMETSAT, Germany)

**14:30 - 14:45:**

[Inter-calibrated wet path delays for eight altimetric missions](#)

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

**14:45 - 15:00:**

[A one-dimensional variational approach for wet tropospheric correction retrieval in the perspective of high resolution altimetry mission: defining the the background error covariance matrix](#)

Laura Hermozo (CLS, France), Bruno Picard (CLS, France), Estelle Obligis (CLS, France), Laurence Eymard (LOCEAN/IPSL, FRANCE), Fatima Karbou (CNRM/GAME, FRANCE), Jean-François Mahfouf (CNRM, FRANCE)

**15:00 - 15:15:**

[Spectral analysis of microwave radiometers brightness temperatures and atmosphere water vapour content.](#)

Bruno Picard (CLS, France), Annabelle Ollivier (CLS, FRANCE), Gérald Dibarboure (CLS, FRANCE), Marie-Laure Frery (CLS, France)

**15:15 - 15:30:**

[Analysis of the Wet Path Delay Spectrum from High-Resolution Airborne Observations](#)

Shannon Brown (JPL, United States), Reising Steve (Colorado State University, USA), Bosch Xavi (Colorado State University, USA), Kangaslahti Pekka (Jet Propulsion Lab, USA)

**15:30 - 15:45:**

[Issues and solutions involved in global wave model application to routine sea state bias range correction across the satellite altimeter constellation](#)

Doug Vandemark (Univ. of New Hampshire, United States), Hui Feng (Univ. of New Hampshire, United States), Lotfi Aouf (Meteo-France, France), Ngan Tran (CLS, France), Fabrice Ardhuin (IFREMER, France)

**15:45 - 16:15: Coffee break**

## Science I: Mean sea level monitoring: how to reconcile altimetry, tide gauges, land motion and other in situ observations?

**Session chairs:** Eric Leuliette, Christopher Watson  
(Tue, Oct 20 2015, 14:00 - 15:45)

### Grand Ballroom 2

**14:00 - 14:15:**

[Is the Altimeter-Era Acceleration of Global Mean Sea Level Rise Being Masked by the 1991 Eruption of Mt. Pinatubo?](#)

John Fasullo (NCAR, United States), Robert Nerem (University of Colorado, USA)

**14:15 - 14:30:**

[On the decadal trend of global mean sea level and its implication on ocean heat content change](#)

Lee-Lueng Fu (Jet Propulsion Laboratory, United States)

**14:30 - 14:45:**

[Accuracy of Global Comparisons Between Altimetry and Tide Gauges](#)

Pierre Prandi (CLS, France), Guillaume Valladeau (CLS, France), Michaël Ablain (CLS, France), Nicolas Picot (CNES, France), Jean-Damien Desjonquères (CNES, France)

**14:45 - 15:00:**

[Assessing satellite era global mean sea level change using tide gauges and estimates of land motion](#)

Christopher Watson (University of Tasmania, Australia), Benoit Legresy (CSIRO Oceans and Atmosphere Flagship, Australia), John Church (CSIRO Oceans and Atmosphere Flagship, Australia), Matt King (University of Tasmania, Australia), Alvaro Santamaría-Gómez (University of Tasmania, Australia)

**15:00 - 15:15:**

[Balancing regional sea level budgets](#)

Eric Leuliette (NOAA, United States), Laury Miller (NOAA, USA)

**15:15 - 15:30:**

[Advances in correcting vertical land motion at tide gauges using GPS estimates](#)

Alvaro Santamaría-Gómez (Université de La Rochelle / University of Tasmania, France)

**15:30 - 15:45:**

[Examining the role of land motion in estimating altimeter system drifts](#)

Amanda Plagge (NOAA, United States), Eric Leuliette (NOAA, USA), Laury Miller (NOAA, USA)

**15:45 - 16:15: Coffee break**

## Instrument Processing: Measurement and retracking (SAR and LRM)

**Session chairs:** Phil Callahan, Robert Cullen, Jean-Damien Desjonqueres (on behalf of Francois Boy), Walter H.F. Smith  
(Tue, Oct 20 2015, 16:15 - 18:00)

### Grand Ballroom 1

**16:15 - 16:27:**

[Retracked TOPEX Climate Data Record](#)

Philip Callahan (Jet Propulsion Laboratory, United States), Joseph McMichael (Jet Propulsion Laboratory, United States), Brent Williams (Jet Propulsion Laboratory, United States), Doug Vandemark (University of New Hampshire, Institute for the Study of Earth, Oceans, Space, United States), Hui Feng (University of New Hampshire, Institute for the Study of Earth, Oceans, Space, United States)

**16:28 - 16:40:**

[On the signature of long swell for the SAR-mode wave height of Cryosat-2](#)

Lotfi Aouf (Division Marine et Océanographie Météo-France, France), Laurent Phalippou (Thales-Alenia-Space, France)

**16:41 - 16:53:**

[Separation of Coherent and Incoherent Scattering Components from Delay/Doppler Altimeter](#)

[Waveforms](#)

Alejandro Egido (NOAA, United States), Walter Smith (NOAA, United States)

**16:54 - 17:06:**

[Impact of the antenna diagram approximation in conventional altimetry waveform processing: application to SARAL/AltiKa data](#)

Sophie Le Gac (CNES, France), Jean-Christophe Poisson (CLS, France), Fanny Piras (CLS, France), Pierre Thibaut (CLS, France), François Boy (CNES, France), Guillaume Valladeau (CLS, France), Amandine Guillot (CNES, France), Jean-Damien Desjonqueres (CNES, France), Nicolas Picot (CNES, France)

**17:07 - 17:19:**

[Level-2 assessment of along-track antenna pattern compensation for SAR altimetry](#)

Salvatore Dinardo (SERCO/ESRIN, Italia), Michele Scagliola (aresys, italy), Marco Fornari (ESA, Italy), Jerome Benveniste (ESA, France)

**17:20 - 17:32:**

[Improved SAR-mode ocean retrievals from new Cryosat-2 processing schemes](#)

Thomas Moreau (CLS, France), Laiba Amarouche (CLS, France), Jeremie Aublanc (CLS, France), Anne Vernier (CLS, France), Pierre Thibaut (CLS, France), Francois Boy (CNES, France), Nicolas Picot (CNES, France)

**17:33 - 17:45:**

[Ensuring the sea level continuity between open ocean and sea iced regions in the Arctic Ocean: some LRM processing solutions](#)

Jean-Christophe Poisson (CLS, France), Pierre Thibaut (CLS, France), Duc Hoang (CLS, France), Laiba Amarouche (CLS, France), Amandine Guillot (CNES, France), Sophie Le Gac (CNES, France), Nicolas Picot (CNES, France), Graham Quartly (PML, UK), Andrey Kurekin (affiliation, country), Jérôme Benveniste (ESA, Italy)

## Outreach, Education and Altimetric Data Services

**Session chairs:** Jessica Hausman, Vinca Rosmorduc, Margaret Srinivasan  
(Tue, Oct 20 2015, 16:15 - 18:00)

### Grand Ballroom 2

**16:15 - 16:30:**

[Updated Altimetric Datasets and Services at PO.DAAC](#)

Jessica Hausman (JPL, United States)

**16:30 - 16:45:**

[SAR altimetry processing on demand service for Cryosat-2 and Sentinel-3 at ESA G-POD](#)

Salvatore Dinardo (SERCO/ESRIN, Italia), Jerome Benveniste (ESA/ESRIN, France)

**16:45 - 17:00:**

[Radar Altimetry Toolbox](#)

Albert Garcia-Mondejar (isardSAT Ltd., United Kingdom), Escolà Roger (isardSAT Ltd., UK), Moyano Gorka (isardSAT Ltd., UK), Roca Mònica (isardSAT Ltd., UK), Terra-Homem Miguel (DEIMOS Engenharia, Portugal), Friças Ana (DEIMOS Engenharia, Portugal), Martinho Fernando (DEIMOS Engenharia, Portugal), Schrama Ernst (TU Delft, Faculty of Aerospace Engineering, Netherlands), Naeije Marc (TU Delft, Faculty of Aerospace Engineering, Netherlands), Ambrozio Americo (DEIMOS / ESRIN, Italy), Dinardo Salvatore (Serco / ESRIN, Italy), Benveniste Jérôme (ESA / ESRIN, Italy)

**17:00 - 17:15:**

[Multivariate Reconstruction of Sea Level from 1900 to Present](#)

Benjamin Hamlington (Old Dominion University, United States), Robert Leben (University of Colorado, USA)

**17:15 - 17:30:**

[Outreaching a space technique through its climate applications: Jason-3](#)

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

**17:30 - 17:45:**

[Observations of El Niño impacts using in situ GLOBE protocols and satellite data](#)

Danielle De Staerke (CNES, France), Margaret Srinivasan (Caltech Jet Propulsion Laboratory, USA), Vinca Rosmorduc (CLS, France), Annie Richardson (Caltech Jet Propulsion Laboratory, USA)

**17:45 - 18:00:**

[Outreach Showcases](#)

All, Margaret Srinivasan (Caltech Jet Propulsion Laboratory, USA), Vinca Rosmorduc (CLS, France), Jessica Hausman (JPL, USA)

**18:00 - 19:30: Icebreaker**

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

## Precision Orbit Determination

**Session chairs:** Sean Bruinsma, Alexandre Couhert, Frank Lemoine  
(Wed, Oct 21 2015, 09:00 - 12:30)

### Grand Ballroom 1

09:05 - 09:20:

[Jason-2, Saral/AltiKa and CryoSat-2 POD status](#)

Eva Jalabert (CNES, France), John Moyard (CNES, France), Alexandre Couhert (CNES, France), Flavien Mercier (CNES, France), Sabine Houry (CNES, France), Silvia Rios-Bergantinos (C-S, France)

09:25 - 09:40:

[A new time series of orbits \(std1504\) for TOPEX/Poseidon, Jason-1, Jason-2 \(OSTM\)](#)

Frank Lemoine (NASA GSFC, United States), Nikita Zelensky (SGT Inc., USA), Douglas Chinn (SGT Inc, USA), Brian Beckley (SGT Inc, USA), David Rowlands (NASA GSFC, USA), Despina Pavlis (SGT Inc, USA)

09:45 - 10:00:

[Jason-2 Orbit Determination With GPS. Instrument Status And Reference Frame Sensitivity](#)

Willy Bertiger (JPL, United States), Shailen Desai (JPL, United States), Angie Dorsey (JPL, United States), Bruce Haines (JPL, United States), Felix Landerer (JPL, United States), Mike Heflin (JPL, United States), Aurore Sibois (JPL, United States), David Wiese (JPL, United States), Dah-Ning Yuan (JPL, United States)

10:05 - 10:20:

[Improvements in precise orbit determination of altimetry satellites](#)

Sergei Rudenko (GFZ German Research Centre for Geosciences, Deutschland), Neumayer Karl-Hans (GFZ German Research Centre for Geosciences, Germany), Dettmering Denise (Deutsches Geodaetisches Forschungsinstitut der Technischen Universitaet Muenchen (DGFI-TUM), Germany), Esselborn Saskia (GFZ German Research Centre for Geosciences, Germany), Schöne Tilo (GFZ German Research Centre for Geosciences, Germany)

10:30 - 11:00: Coffee break

11:00 - 11:15:

[GDR-E gravity field model EIGEN-GRGS.RL03-v2.MEAN-FIELD](#)

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

11:20 - 11:35:

[Improved orbit-centering parameterization for mean sea level applications](#)

Alexandre Couhert (CNES, France), Flavien Mercier (CNES, France), John Moyard (CNES, France), Eva Jalabert (CNES, France), Sabine Houry (CNES, France), Silvia Rios-Bergantinos (CS-SI, France)

11:40 - 11:55:

[Status DORIS RINEX Processing at GSFC](#)

nikita zelensky (SGT / GSFC, United States), Frank Lemoine (NASA/GSFC, USA), David Rowlands (NASA / GSFC, USA), Douglas Chinn (SGT / GSFC, USA), Oleg Bordyugov (SGT / GSFC, USA)

12:00 - 12:15:

[Update of the South-Atlantic Anomaly corrective model for JASON-1 DORIS data using the maps of energetic particles from the CARMEN dosimeter onboard JASON-2](#)

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

12:20 - 12:35:

[Analysis of SLR station biases](#)

Sean Bruinsma (CNES, France), Reinquin Franck (CNES, France), Couhert Alexandre (CNES, France)

## Application development for Operations (previously NRT splinter)

**Session chairs:** Hans Bonekamp, Emilie Bronner, Gregg Jacobs, John Lillibridge  
(Wed, Oct 21 2015, 09:00 - 10:30)

### Grand Ballroom 2

**09:00 - 09:15:**

[Are SAR wave spectra from Sentinel-1A ready for operational use in the wave model MFWAM](#)

Lotfi Aouf (Département Marine et Océanographie Météo-France, France), Alice Dalphinet (Département Marine et Océanographie, Météo-France, France)

**09:15 - 09:30:**

[Improved Representation of Eddies in Fine Resolution Forecasting Systems Using Multi-Scale Data Assimilation of Satellite Altimetry](#)

Zhijin Li (JPL, United States)

**09:30 - 09:45:**

[NOAA Operational Satellite Derived Oceanic Heat Content Products](#)

Eileen Maturi (NOAA/NESDIS/STAR, United States), David Donahue (NOAA/NESDIS/OSPO, United States), Nick Shay (RSMAS - University of Miami, United States), Jodi Brewster (RSMAS - University of Miami, United States), Jerry Guo (: MAXIMUS, United States)

**09:45 - 10:00:**

[On the use of recent altimeter products in NCEP ocean forecast system for the Atlantic \(RTOFS Atlantic\)](#)

Liyan Liu (NOAA, United States), Carlos Lozano (noaa, us), Avichal Mehra (noaa, us), Dan Iredell (noaa, us)

**10:00 - 10:15:**

[Operational Oceanography in support of the search for MH370](#)

David Griffin (CSIRO, Australia)

**10:15 - 10:30:**

[Predictability of marine debris motion, simulated with numerical models and diagnosed using oceanographic satellite data](#)

Nikolai Maximenko (IPRC/SOEST, University of Hawaii, United States), Jan Hafner (IPRC/SOEST, University of Hawaii, United States), Amy MacFadyen (NOAA Emergency Response Division, United States), Masafumi Kamachi (Meteorological Research Institute, Japan Meteorological Agency, Japan)

**10:30 - 11:00: Coffee break**

## Tides, internal tides and high-frequency processes

**Session chairs:** Loren Carrere, Florent Lyard, Richard Ray  
(Wed, Oct 21 2015, 11:00 - 12:30)

### Grand Ballroom 2

**11:00 - 11:13:**

[FES 2014, a new tidal model on the global ocean with enhanced accuracy in shallow seas and in the Arctic region](#)

Loren Carrere (CLS, France), F. Lyard (LEGOS, France), M. Cancet (NOVELTIS, France), A. Guillot (CNES, France)

**11:13 - 11:26:**

[Reduction of the 58.77-day Signal in the Mean Sea Level derived from TOPEX/Poseidon, Jason-1 and Jason-2 data with the latest FES and GOT ocean tide models](#)

Lionel Zawadzki (CLS, France), Michaël Ablain (CLS, France), Loren Carrere (CLS, France), Amandine Guillot (CNES, France), Nicolas Picot (CNES, France), Florent Lyard (LEGOS, France), Nikita Zelensky (NASA, US), Richard Ray (NASA, US)

**11:26 - 11:39:**

[High resolution tidal modeling in the Arctic Ocean](#)

Mathilde Cancet (NOVELTIS, France), Ole Andersen (DTU Space, Denmark), Florent Lyard (LEGOS/OMP/CNRS, France), Ann-Theres Schulz (DUT, Netherlands), David Cotton (SatOC, UK), Jérôme Benveniste (ESA/ESRIN, Italy)

**11:40 - 11:53:**

[Internal tides for, from, and in satellite altimeter data](#)

Richard Ray (NASA/GSFC, United States), Edward Zaron (Portland State University, U.S.)

**11:53 - 12:06:**

[Global M2, S2, O1 and K1 internal tides from multisatellite altimetry](#)

Zhongxiang Zhao (Applied Physics Laboratory, University of Washington, United States), Alford Matthew (Scripps Institution of Oceanography, University of California San Diego, United States), Girton James (Applied Physics Laboratory, University of Washington, Seattle, United States), Rainville Luc (Applied Physics Laboratory, University of Washington, Seattle, United States), Simmons Harper (University of Alaska Fairbanks, United States)

**12:06 - 12:19:**

[Progress in internal tides modelling using T-UGOm model](#)

Florent Lyard (CNRS/LEGOS, France), Damien Allain (CNRS/LEGOS, France), Cyril Nguyen (CNRS/LA, France), Yves Soufflet (IRD/LEGOS, France)

**12:19 - 12:32:**

[SSH signature of the internal wave spectrum inferred from profiling moorings](#)

Matthew Alford (Scripps Institution of Oceanography, United States), Girton James (Applied Physics Laboratory/University of Washington, United States), Chinn Brian (Applied Physics Laboratory/University of Washington, United States)

**12:30 - 14:00: Lunch**

## 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 21 2015, 14:00 - 18:00)

### Grand Ballroom 1

**14:00 - 14:15:**

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

Pascal Bonnefond (OCA-GEOAZUR, France), Olivier Laurain (OCA-GEOAZUR, France), Pierre Exertier (OCA-GEOAZUR, France), Thierry Guinle (CNES, France), Pierre Femenias (ESA-ESRIN, Italy)

**14:15 - 14:30:**

[An Update from Harvest: New Results from the TOPEX/Poseidon, Jason-1 and Jason-2](#)

[Missions](#)

Bruce Haines (Jet Propulsion Laboratory, United States), Born George (University of Colorado, USA), Shailen Desai (Jet Propulsion Laboratory, USA), Rashmi Shah (Jet Propulsion Laboratory, USA)

**14:30 - 14:45:**

[Absolute altimeter bias from the Australian in situ calibration sites in Bass Strait and Storm Bay](#)

Christopher Watson (University of Tasmania, Australia), Benoit Legresy (CSIRO Oceans and Atmosphere Flagship, Australia), John Church (CSIRO Oceans and Atmosphere Flagship, Australia), Jack Beardsley (University of Tasmania, Australia), Matt King (University of Tasmania, Australia), Alvaro Santamaría-Gómez (University of Tasmania, Australia)

**14:45 - 15:00:**

[Regional CalVal of Jason-2 and SARAL/Altika at three calibration sites: Corsica, Harvest and](#)

[Bass Strait](#)

Mathilde Cancet (NOVELTIS, France), Sandrine Bijac (NOVELTIS, France), Christopher Watson (University of Tasmania, Australia), Bruce Haines (JPL/NASA, USA), Pascal Bonnefond (OCA/GeoAzur, France), Florent Lyard (LEGOS/OMP/CNRS, France), Thierry Guinle (CNES, France)

**15:00 - 15:15:**

[Jason-1, Jason-2, SARAL/AltiKa and HY-2 altimeter calibrations over a decade at the Gavdos/Crete Cal/Val sites](#)

Stelios Mertikas (Technical University of Crete, Ελλάδα), Ilias Tziavos (Aristotle University of Thessaloniki, Greece), Demitris Galanakis (Technical University of Crete, Greece), Xenofon Frantzis (Technical University of Crete, Greece), George Vergos (Aristotle University of Thessaloniki, Greece), Achilles Tripolitsiotis (Space Geomatica Ltd., Greece), Ole Andersen (Danish Space Center, Denmark)

**15:15 - 15:30:**

[Validation of altimeter-derived sea level seasonal cycle with tide gauges over the Gulf of Mexico](#)

Martina Ricko (SGT, Inc., United States), Ray Richard (NASA/GSFC, USA), Beckley Brian (SGT, Inc., USA)

**15:30 - 15:45:**

[Posters presentations and discussion](#)

All

**15:45 - 16:15: Coffee break**

**16:15 - 16:30:**

[Jason-2 data performances over ocean: global assessment and improvement for multi-mission sea-level products](#)

Sabine Philipps (CLS, France), Michael Ablain (CLS, France), H  l  ne Roinard (CLS, France), Olivier Lauret (CLS, France), Nicolas Picot (CNES, France), Jean-Damien Desjonqueres (CNES, France)

**16:30 - 16:45:**

[Global calibration and validation of the Jason-1 version E GDRs](#)

Shailen Desai (Jet Propulsion Laboratory, United States), Bruce Haines (Jet Propulsion Laboratory, United States), Rashmi Shah (Jet Propulsion Laboratory, United States)

**16:45 - 17:00:**

[Global Ocean Data Quality Assessment of SARAL/AltiKa](#)

Pierre Prandi (CLS, France), Vincent Pignot (CLS, France), Micha  l Ablain (CLS, France), Nicolas Picot (CNES, France), Jean-Damien Desjonqu  res (CNES, France)

**17:00 - 17:15:**

[Global Hy-2a Data Quality Assessment Over Ocean](#)

Matthias Raynal (CLS, France), Marianne Chevallier (CLS, FRANCE), Nicolas Picot (CNES, FRANCE), Jean-Michel Lachiver (CNES, FRANCE)

**17:15 - 17:30:**

[Latest results of DGFI's multi-mission crossover analysis](#)

Denise Dettmering (Deutsches Geod  tisches Forschungsinstitut der TU M  nchen (DGFI-TUM), Deutschland), Christian Schwatke (DGFI-TUM, Germany), Wolfgang Bosch (DGFI-TUM, Germany)

**17:30 - 17:45:**

[Assessment of recent revisions to the TOPEX/Poseidon/Jason Sea Surface Height Climate Data Record: Impact on global and regional sea level estimates](#)

Brian Beckley (SGT Inc./NASA GSFC, United States), Richard Ray (NASA GSFC, USA), Frank Lemoine (NASA GSFC, USA), Nikita Zelensky (SGT Inc., USA), Xu Yang (SGT Inc., United States), Shailen Desai (JPL, USA), Shannon Brown (JPL, USA), Gary Mitchum (University of South Florida, USA), Martina Ricko (SGT Inc., USA), Doug Vandemark (University of New Hampshire, USA), Hui Feng (University of New Hampshire, USA)

**17:45 - 18:00:**

[Posters presentations and discussion \(con't\)](#)

All

## Science II: Mesoscale and sub-mesoscale ocean processes: current understanding and preparation for SWOT

Session chairs: Lee-Lueng Fu, Rosemary Morrow  
(Wed, Oct 21 2015, 14:00 - 15:45)

### Grand Ballroom 2

**14:00 - 14:15:**

[Sea surface height observational capabilities: from mesoscale to submesoscale](#)

Gregg Jacobs (Naval Research Laboratory, United States), Helber Robert (Naval Research Laboratory, USA), Rowley Clark (Naval Research Laboratory, USA), Smith Scott (Naval Research Laboratory, USA), Souopgui Innocent (Naval Research Laboratory, USA), Yaremchuk Maxim (Naval Research Laboratory, USA)

**14:15 - 14:30:**

[Exploring 3D velocity field reconstructions using the SWOT simulator and a submesoscale-resolving OGCM](#)

Bo Qiu (University of Hawaii, United States), Shuiming Chen (University of Hawaii, USA), Patrice Klein (IFREMER, France), Clement Ubelmann (NASA/JPL, USA)

**14:30 - 14:45:**

[The Resolution Capabilities of Geostrophic Velocity, Relative Vorticity and Ekman Pumping Fields Estimated from Noisy SWOT Observations of Sea Surface Height](#)

Dudley Chelton (Oregon State University, United States), Roger Samelson (Oregon State University, United States), J. Thomas Farrar (Woods Hole Oceanographic Institution, United States), M. Jeroen Molemaker (University of California, Los Angeles, United States)

**14:45 - 15:00:**

[Mesoscale physical-biological interactions as revealed in satellite observations and eddy resolving models: from regional to global scales](#)

Dennis McGillicuddy (WHOI, United States), Peter Gaube (Applied Physics Laboratory, University of Washington, USA), Matthew Long (National Center for Atmospheric Research, USA)

**15:00 - 15:15:**

[Mesoscale and submesoscale variability in the Luzon Strait: A data-assimilative two-way nested modeling approach](#)

Javier Zavala-Garay (IMCS, Rutgers, United States), John Wilkin (IMCS, Rutgers, USA)

**15:15 - 15:30:**

[Application of SWOT to the dynamics of Amazon plume and adjacent regions](#)

James carton (University of Maryland, United States), Semyon Grodsky (University of Maryland, United States), Frank Bryan (NCAR, country United States), Eric Leuliette (NOAA, country United States)

**15:30 - 15:45:**

[A frontal eddy intensively sampled at sea and overflown by SARAL](#)

David Griffin (CSIRO, Australia), Roughtan Moninya (University of NSW, Australia)

**15:45 - 16:15: Coffee break**

# The Geoid, Mean Sea Surfaces and Mean Dynamic Topography

**Session chairs:** Ole B. Andersen, Yannice Faugere  
(Wed, Oct 21 2015, 16:15 - 18:00)

## Grand Ballroom 2

**16:15 - 16:30:**

[The POD gravity field model for GDR-E: EIGEN-GRGS.RL03-v2.MEAN-FIELD](#)  
Sean Bruinsma (CNES, France), Jean-Michel Lemoine (CNES, France)

**16:30 - 16:45:**

[Stacking repeat cycles of 40-Hz AltiKa data resolves the geoid anomalies of very small seamounts](#)

Walter Smith (NOAA Lab for Satellite Altimetry, United States), Karen Marks (NOAA Lab for Satellite Altimetry, United States)

**16:45 - 17:00:**

[The DTU15 MSS \(Mean Sea Surface\) and associated MDT \(Mean Dynamic Topography\) focusing on Arctic issues and development.](#)

Ole Baltazar Andersen (Dr, Danmark), Gaia Piccioni (DTU Space, Denmark), Per Knudsen (DTU space, Denmark)

**17:00 - 17:15:**

[The recent drift of SARAL: an unexpected MSS experiment](#)

Marie Isabelle Pujol (CLS, France), Gerald Dibarbouré (CLS, France), Amandine Guillot (CNES, France), Nicolas Picot (CNES, France)

**17:15 - 17:30:**

[Assessing the contribution of GOCE and altimetry to improvements in geodetic MDT determination](#)

Rory Bingham (University of Bristol, United Kingdom)

**17:30 - 17:45:**

[Variations of observed correlations between satellite altimetry and tide gauge data along the U.S. east coast](#)

Yongcun Cheng (Center for Coastal Physical Oceanography, Old Dominion University, United States), Plag Hans-Peter (Mitigation and Adaptation Research Institute, Old Dominion University, United States), Ezer Tal (Center for Coastal Physical Oceanography, Old Dominion University, United States), Hamlington Benjamin D. (Center for Coastal Physical Oceanography, Old Dominion University, United States)

**19:30 - 21:30: Banquet dinner**

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

## Quantifying Errors and Uncertainties in Altimetry data

**Session chairs:** Michael Ablain, Joel Dorandeu, Remko Scharroo  
(Thu, Oct 22 2015, 09:00 - 10:30)

### Grand Ballroom 1

**09:00 - 09:15:**

[Seasonal effects on the pitch measurements for Cryosat](#)

Salvatore Dinardo (SERCO/ESRIN, Italia), Michele Scagliola (aresys, italy), Marco Fornari (ESA, italy), Jerome Benveniste (ESA, France)

**09:15 - 09:30:**

[Identification and Reduction of Retracker-Related Noise in Altimeter-Derived Sea-Surface Height Measurements](#)

Edward Zaron (Portland State University, United States)

**09:30 - 09:45:**

[Error Characterization of Altimeter Missions over Ocean : Comparison and Interpretation](#)

Pierre Thibaut (CLS, France), Fanny Piras (CLS, France), Jean-Christophe Poisson (CLS, France), Amandine Guillot (CNES, France), François Boy (CNES, France), Nicolas Picot (CNES, France)

**09:45 - 10:00:**

[Accuracy of the mean sea level continuous record with future altimetric missions: Jason-3 versus Sentinel-3a](#)

Lionel Zawadzki (CLS, France), Michaël Ablain (CLS, France)

**10:00 - 10:15:**

[Uncertainty estimates of altimetric Global Mean Sea Level timeseries](#)

Martin Scharffenberg (CEN - University of Hamburg, Deutschland), Michael Hemming (University of East Anglia, UK), Detlef Stammer (CEN - University of Hamburg, Germany)

**10:15 - 10:30:**

[Uncertainties Affecting Regional Sea Level Trends](#)

Pierre Prandi (CLS, France), Michaël Ablain (CLS, France), Benoit Meyssignac (CNES/LEGOS, France), Nicolas Picot (CNES, France)

**10:30 - 11:00: Coffee break**

## Science III: Large scale and global change ocean processes: the ocean's role in climate

**Session chairs:** Thierry Penduff, Dean Roemmich  
(Thu, Oct 22 2015, 09:00 - 10:30)

### Grand Ballroom 2

**09:00 - 09:15:**

[Heat and Freshwater Convergence Anomalies in the Atlantic Ocean Inferred from Observations](#)

Kathryn Kelly (University of Washington, United States), Kyla Drushka (University of Washington, USA), LuAnne Thompson (University of Washington, USA)

**09:15 - 09:30:**

[Mean structure, long-term change and eddy motions in the Southern Ocean: A perspective from altimetry, Argo and state estimation](#)

Sarah Gille (Scripps Institution of Oceanography, UC San Diego, United States), Uriel Zajaczkovski (Scripps Institution of Oceanography, UC San Diego, USA), Matthew Mazloff (Scripps Institution of Oceanography, UC San Diego, USA)

**09:30 - 09:45:**

[Low-frequency transport variability in the Southern Ocean: the importance of regional variations](#)

Don Chambers (University of South Florida, United States), Michael Kosemapa (University of South Florida, United States), Jessica Makowski (University of South Florida, United States)

**09:45 - 10:00:**

[A new approach to detection and attribution of ocean thermal expansion](#)

Elodie Charles (LEGOS, UMR5566, CNRS, CNES, IRD, Université Paul Sabatier, Toulouse, France, France), Benoit Meyssignac (LEGOS, UMR5566, CNRS, CNES, IRD, Université Paul Sabatier, Toulouse, France, France), Aurélien Ribes (CNRM/GAME, Météo France / CNRS, Toulouse, France, France)

**10:00 - 10:15:**

[Is anthropogenic sea level fingerprint already detectable in the Pacific Ocean over the satellite altimetry era?](#)

Hindumathi Palanisamy (CNES-LEGOS, France), Benoit Meyssignac (CNES-LEGOS, France), Anny Cazenave (CNES-LEGOS (France), ISSI (Switzerland), ), Thierry Delcroix (IRD-LEGOS, France)

**10:15 - 10:30:**

[The impacts of ENSO/PDO on regional sea level change: After 20 years, are we finally seeing a change in the pattern of Pacific sea level change?](#)

Robert Steven Nerem (University of Colorado, United States), Ben Hamlington (Old Dominion University, USA), Mark Merrifield (University of Hawaii, USA), Phillip Thompson (University of Hawaii, USA)

**10:30 - 11:00: Coffee break**

## Poster session

**Session chairs:** all chairs  
(Thu, Oct 22 2015, 11:00 - 18:00)

## Posters displayed in Grand Ballroom Foyer

**12:30 - 14:00: Lunch**

**15:45 - 16:15: Coffee break**

## Round tables

**Session chairs:** all chairs  
(Thu, Oct 22 2015, 14:00 - 15:45)

## Grand Ballroom 1&2 (rooms will be indicated on site)

**15:45 - 16:15: Coffee break**

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

## OSTST Closing Plenary Session

**Session chairs:** Pascal Bonnefond, John Lillibridge, Remko Scharroo, Josh Willis  
(Fri, Oct 23 2015, 09:00 - 12:30)

### Grand Ballroom 1

**09:00 - 11:10:**

[Splinters meeting summaries](#)

splinter chairs

09:00 Regional and Global CAL/VAL for Assembling a Climate Data Record

09:10 Precision Orbit Determination

09:20 Instrument processing: Corrections

09:30 Instrument processing: Measurement and retracking

09:40 Application development for Operations

09:50 Outreach, Education & Altimetric data services

10:00 The Geoid Mean Sea Surfaces and Mean Dynamic Topography

10:10 Quantifying Errors and Uncertainties in Altimetry Data

10:20 Tides, internal tides and high-frequency processes

**10:30 - 11:00: Coffee break**

11:00 Science Results from Satellite Altimetry

**11:10 - 11:20:**

[9th Coastal Altimetry Workshop summary](#)

Paolo Cipollini (NOC, United Kingdom)

**11:20 - 11:30:**

[Review of the Hydrospace Workshop output](#)

Jerome Benveniste (ESA, Italia)

**11:30 - 11:40:**

[Topex Reprocessing/GDR-C](#)

Philip Callahan (JPL, United States)

**11:40 - 11:50:**

[Jason/GDR-E](#)

Nicolas Picot (CNES, France)

**11:50 - 12:30:**

[Discussion, summary and recommendation](#)

All

**12:30 - 14:00: Lunch**

## Posters

### Application development for Operations (previously NRT splinter)

**Session chairs:** Hans Bonekamp, Emilie Bronner, Gregg Jacobs, John Lillibridge

Thu, Oct 22 2015, 11:00 - 18:00 - **Grand Ballroom Foyer**

**APOP\_001** - [DUACS sea level products, a step beyond with Jason-3 and Sentinel-3](#)

Yannice Faugere (CLS Space Oceanography Division), Isabelle Pujol (CLS), Frederic Briol (CLS), Claire Dufau (CLS), Antoine Delepoulle (CLS), Gerald Dibarboure (CLS), Damien Desjonquere (CNES), Nicolas Picot (CNES)

**APOP\_002** - [20 years of reprocessed Lyapunov exponents from altimetry available on Aviso](#)

Marie Isabelle Pujol (CLS), Yannice Faugere (CLS), Francesco d'Ovidio (LOCEAN - IPSL), Rosemary Morrow (LEGOS), Jean-Damien Desjonquères (CNES), Nicolas Picot (CNES)

**APOP\_003** - [DT2014 version of Ssalto/DUACS products: 21 years Sea Level products reprocessed](#)

Marie Isabelle Pujol (CLS), Yannice Faugere (CLS), Guillaume Taburet (CLS), Jean-Damien Desjonquères (CNES), Nicolas Picot (CNES)

**APOP\_004** - [Validation of Cryosat-2 SAR Wind and Wave Products](#)

Saleh Abdalla (European Centre for Medium-Range Weather Forecasts (ECMWF)), Salvatore Dinardo (Serco/ESRIN), Jérôme Benveniste (European Space Agency/ESRIN)

**APOP\_005** - [Satellite Altimetry Sea Surface Height Anomaly Processing At The Naval Oceanographic Office's Altimetry Data Fusion Center](#)

Carolyn Cooper (Naval Oceanographic Office)

**APOP\_006** - [Operational 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), Norihisa Usui (Meteorological Research Institute), Yosuke Fujii (Meteorological Research Institute), Hiroyuki Tsujino (Meteorological Research Institute)

## Instrument Processing: Corrections

**Session chairs:** Shannon Brown, Estelle Obligis

Thu, Oct 22 2015, 11:00 - 18:00 - **Grand Ballroom Foyer**

**IPC\_001** - [Revised sea state bias models for retracked TOPEX altimeter data](#)

Hui Feng (Univ. of New Hampshire), Doug Vandemark (Univ. of New Hampshire), Joseph McMichael (JPL), Phillip Callahan (JPL)

**IPC\_002** - [ACCRA : A Study on Future Microwave Radiometers for Atmospheric Correction of Radar Altimeters on Coastal Regions](#)

Bruno Picard (CLS), Marie-Laure Frery (CLS), Laurence Eymard (LOCEAN/IPSL), Fatima Karbou (CNRM/GAME), Janet Charlton (JCR), Adrian R.L. Tatnall (RAL), Brian Monya (STFC), Soe Min Tun (SMT), Manuel Martin-Neira (ESA/ESTEC)

## Instrument Processing: Measurement and retracking (SAR and LRM)

**Session chairs:** Phil Callahan, Robert Cullen, Jean-Damien Desjonqueres (on behalf of Francois Boy), Walter H.F. Smith

Thu, Oct 22 2015, 11:00 - 18:00 - **Grand Ballroom Foyer**

### [IPM\\_001 - Simultaneous multi-waveform retracking in coastal regions : application to the NW Mediterranean Sea](#)

Fernando Niño (IRD/Legos), Florence Birol (UPS/Legos), Denis Blumstein (CNES/Legos), Nicolas Fuller (CNRS/Legos)

### [IPM\\_002 - SENTINEL-3 STM Products & Processing Algorithms Definition](#)

Femenias Pierre (ESA), Carla Santella (ESA), Alessandra Buongiorno (ESA), Hans Bonekamp (Eumetsat), Remko Scharroo (Eumetsat), Carolina Loddo Nogueira (Eumetsat)

### [IPM\\_003 - "PEACHI Jason-3": a processing laboratory for innovative altimetry products](#)

Sophie Le Gac (CNES), Jean-Christophe Poisson (CLS), Pierre Thibaut (CLS), François Boy (CNES), Amandine Guillot (CNES), Bruno Picard (CLS), Laiba Amarouche (CLS), Nicolas Picot (CNES)

### [IPM\\_004 - Using SARAL/AltiKa to improve Ka-band altimeter measurements for coastal zones, hydrology and ice: status of the PEACHI project](#)

Guillaume Valladeau (CLS), Pierre Thibaut (CLS), Nicolas Picot (CNES), Amandine Guillot (CNES), Sophie Le Gac (CNES)

### [IPM\\_005 - A new method to determine the antenna pointing directly from Altimeter SAR mode data](#)

Chris Ray (isardSAT), Roca Mònica (isardSAT)

### [IPM\\_006 - ERS-2 mission reprocessing for long-term continental surfaces studies](#)

Benoît Legrésy ((1) CSIRO Oceans and Atmosphere Flagship, Hobart Tasmania, Australia. (2) LEGOS/CTOH, UMR5566 CNRS-CNES-IRD-Université de Toulouse III. (3) ACE-CRC, Hobart, Tasmania, Australia.), Fernando Nino (CTOH-LEGOS-IRD, UMR5566 CNRS-CNES-IRD-Université de Toulouse III.), Fabien Blarel (CTOH-LEGOS-CNRS, UMR5566 CNRS-CNES-IRD-Université de Toulouse III.), Frédéric Frappart ((1) LEGOS-GRGS, UMR 5566, CNES/CNRS/IRD/Université de Toulouse III. (2) GET-GRGS, UMR 5563, CNRS/IRD/Université de Toulouse III.), Florence Birol (CTOH-LEGOS, UMR5566 CNRS-CNES-IRD-Université de Toulouse III.), Sara Fleury (CTOH-LEGOS-CNRS, UMR5566 CNRS-CNES-IRD-Université de Toulouse III.), Nicolas Fuller (CTOH-LEGOS-CNRS, UMR5566 CNRS-CNES-IRD-Université de Toulouse III.)

### [IPM\\_007 - A Fast Convolution based Model for SAR Altimetry Waveforms and their Retracking](#)

Christopher Buchhaupt (TU Darmstadt), Luciana Fenoglio-Marc (TU Darmstadt), Salvatore Dinardo (SERCOC, ESA/ESRIN), Scharroo Remko (EUMETSAT), Matthias Becker (TU Darmstadt)

### [IPM\\_008 - SAR Altimetry at 80 Hz](#)

Salvatore Dinardo (SERCOC/ESRIN), Jerome Benvensite (ESA)

### [IPM\\_009 - Performance analysis between autonomous tracker median and new version of OLTC mode](#)

Emmanuel Auge (NOVELTIS), François Boy (CNES), Mathilde Cancet (NOVELTIS)

### [IPM\\_010 - Open-Sea CryoSat-2 data in SAR and PLRM mode in South East Pacific and North East Atlantic](#)

Luciana Fenoglio-Marc (Technische Universität Darmstadt), Christopher Buchhaupt (Technische Universität Darmstadt), Salvatore Dinardo (SECO, ESA/ESRIN), Remko Scharroo (EUMETSAT), Jerome Benveniste (ESA/ESRIN), Matthias Becker (Technische Universität Darmstadt)

### [IPM\\_011 - A global coastal altimetry dataset for coastal dynamics and sea level research](#)

Marcello Passaro (Graduate School of National Oceanography Centre, University of Southampton, Southampton, U.K.), Cipollini Paolo (National Oceanography Centre), Hausman Jessica (Jet Propulsion Laboratory (JPL), California Institute of Technology, Pasadena, California), Quartly Graham (Plymouth Marine Laboratory), Snaith Helen (British Oceanographic Data Centre)

### [IPM\\_012 - MAPS: the Multi-mission Altimetry Processing Software](#)

Frédéric Frappart (Observatoire Midi-Pyrénées), Vincent Marieu (EPOC-OASU), Stéphane Calmant (LEGOS-OMP), Frédérique Seyler (ESPACE-DEV)

## Others (poster only)

**Session chairs:** Pascal Bonnefond, John Lillibridge, Remko Scharroo, Josh Willis  
Thu, Oct 22 2015, 11:00 - 18:00 - **Grand Ballroom Foyer**

**OTH\_001** - [Multi-altimeter observations of the Yukon River Alaska: Assessment of the determination of river discharge within this complex river system.](#)

Charon Birkett (University of Maryland), Bjerklie Dave (USGS), Carabajal Claudia (Sigma Space Corp)

**OTH\_002** - [G-REALM: Investigating datum translations for integration of altimeter-derived operational water level products with in situ lake and reservoir gauge data.](#)

Charon Birkett (University of Maryland), OBrien Kate (UMD), Brian Beckley (SGT), Ricko Martina (SGT), Holmes Simon (SGT), Yang Hunter (SGT)

**OTH\_003** - [Sea-ice and snow facies classifications from AltiKa data over the Polar Regions](#)

Ngan Tran (CLS), Frédérique Rémy (LEGOS), Amandine Guillot (CNES), Nicolas Picot (CNES)

**OTH\_004** - [Retrieval of coastal sea surface height from along-track continuous AltiKa data](#)

Xi-Feng Wang (ESST, Kyushu University), Kaoru Ichikawa (RIAM, Kyushu University)

**OTH\_005** - [Leveling tide gauges with GNSS reflectometry](#)

Alvaro Santamaría-Gómez (Université de La Rochelle / University of Tasmania), Christopher Watson (University of Tasmania)

**OTH\_006** - [Study of altimetry precision error using GNSS-R](#)

Rashmi Shah (Jet Propulsion Laboratory), Cinzia Zuffada (Jet Propulsion Laboratory), Maria-Paola Clarizia (University of Michigan), Estel Cardellah (Institut de Ciències de l'Espai)

**OTH\_007** - [Small scale sea level budgets in the North-Atlantic.](#)

Marcel Kleinherenbrink (Delft University of Technology), Riccardo Riva (Delft University of Technology)

**OTH\_008** - [The response of the Black Sea to fluctuations of the Mediterranean sea level](#)

Denis Volkov (CIMAS/University of Miami/NOAA-AOML)

**OTH\_009** - [Eddies and SST frontal variability in Eastern Boundary Currents](#)

Renato Castelao (University of Georgia)

**OTH\_010** - [Evaluating the performance of JASON and ENVISAT satellite altimeter missions at detecting prior errors in eddy-resolving ocean models.](#)

Pierre Brasseur (CNRS/LGGE), Adeline Bichet (CNRS/LGGE), Jean-Michel Brankart (CNRS/LGGE), Pierre-Antoine Bouttier (CNRS/LGGE)

**OTH\_011** - [Simple OSE of Argo using space-time scales statistically derived from altimeter data](#)

Tsurane Kuragano (Meteorological Research Institute), Yosuke Fujii (Meteorological Research Institute), Masafumi Kamachi (Meteorological Research Institute)

**OTH\_012** - [JPL Gridded Altimetry Products](#)

Victor Zlotnicki (Jet Propulsion Lab)

**OTH\_013** - [Detection of ocean white-capping by combined use of Jason radiometer and radar datasets alongside global wave model predictions](#)

Doug Vandemark (Univ. of New Hampshire), Hui Feng (Univ. of New Hampshire), Bertrand Chapron (IFREMER), Yves Quilfen (IFREMER), Fabrice Ardhuin (IFREMER)

**OTH\_014** - [The Geosat 30th Anniversary Data Set](#)

John Lillibridge (NOAA Lab. for Satellite Altimetry), Eric Leuliette (NOAA Lab. for Satellite Altimetry), Frank Lemoine (NASA/GSFC), Nikita Zelensky (SGT), Brian Beckley (SGT), Remko Scharroo (EUMETSAT), Walter Smith (NOAA Lab. for Satellite Altimetry)

## Outreach, Education and Altimetric Data Services

**Session chairs:** Jessica Hausman, Vinca Rosmorduc, Margaret Srinivasan

Thu, Oct 22 2015, 11:00 - 18:00 - **Grand Ballroom Foyer**

### **OUT\_001 - [Regional X-TRACK altimeter products for coastal applications: updates and evolutions](#)**

Nicolas Fuller (LEGOS/CTOH, UMR5566 CNRS-CNES-IRD-Université de Toulouse III. OMP, 14 Av. E. Belin, 31400 Toulouse, France), Florence Birol (LEGOS/CTOH, UMR5566 CNRS-CNES-IRD-Université de Toulouse III. OMP, 14 Av. E. Belin, 31400 Toulouse, France), Fernando Nino (LEGOS/CTOH, UMR5566 CNRS-CNES-IRD-Université de Toulouse III. OMP, 14 Av. E. Belin, 31400 Toulouse, France), Florent Lyard (LEGOS, UMR5566 CNRS-CNES-IRD-Université de Toulouse III. OMP, 14 Av. E. Belin, 31400 Toulouse, France), Sara Fleury (LEGOS/CTOH, UMR5566 CNRS-CNES-IRD-Université de Toulouse III. OMP, 14 Av. E. Belin, 31400 Toulouse, France), Damien Allain (LEGOS, UMR5566 CNRS-CNES-IRD-Université de Toulouse III. OMP, 14 Av. E. Belin, 31400 Toulouse, France)

### **OUT\_002 - [Swot on Aviso+: promoting the mission, explaining the technique](#)**

Vinca Rosmorduc (CLS), Emilie Bronner (CNES), Selma Cherchali (CNES), Jean-François Crétaux (LEGOS), Rosemary Morrow (LEGOS), Nicolas Picot (CNES), Claire Pottier (CNES)

### **OUT\_003 - [Aviso+ products & services: what's new?](#)**

Vinca Rosmorduc (CLS), Florence Birol (CTOH/Legos), Emilie Bronner (CNES), Caroline Maheu (Akka), Françoise Mertz (CLS)

### **OUT\_004 - [New datasets for ODES \(Online Data Extraction Service\)](#)**

Vinca Rosmorduc (CLS), Florence Birol (CTOH/Legos), Frédéric Briol (CLS), Emilie Bronner (CNES), Gérald Dibarboure (CLS), Thierry Guinle (CNES), Clara Nicolas (CNES), Fernando Niño (CTOH/Legos), Guillaume Valladeau (CLS)

### **OUT\_005 - [Database for Hydrological Time Series of Inland Water \(DAHITI\)](#)**

Christian Schwatke (DGFI-TUM), Denise Dettmering (DGFI-TUM), Börgens Eva (DGFI-TUM)

### **OUT\_006 - [Sentinel-6/Jason-CS Altimeter Products and Performance Budget](#)**

Remko Scharroo (EUMETSAT), Craig Donlon (ESA/ESTEC), Gilles Tavernier (CNES), Christelle Ponsard (EUMETSAT)

### **OUT\_007 - [CTOH altimetry products \(L1 to L4\) for ocean and continental surfaces applications](#)**

Florence Birol (Florence.Birol@legos.obs-mip.fr), Fabien Blarel (CTOH/LEGOS), Denis Blumstein (CNES), Sara Fleury (CTOH/LEGOS), Frédéric Frappart (CTOH/GET), Nicolas Fuller (CTOH/LEGOS), Benoit Legresy (CNRS), Rosemary Morrow (CTOH/LEGOS), Fernando Nino (CTOH/LEGOS)

### **OUT\_008 - [NOAA archive and access services for Jason-2/3 products](#)**

Baker-Yeboah Sheekela (NOAA National Centers for Environmental Information (NCEI)-CICS/ESSIC/UMD), Yongsheng Zhang (NOAA National Centers for Environmental Information (NCEI)-CICS/ESSIC/UMD), Deirdre Byrne (NOAA National Centers for Environmental Information (NCEI))

### **OUT\_009 - [Sea Level Experiments for Climate Science Outreach](#)**

Andrei Iskra (University of Colorado Boulder), Justus Leben (University of Colorado Boulder), Gabrielian Taylor (Fairview High School Boulder Colorado), Benjamin Hamlington (Old Dominion University), Robert Leben (University of Colorado Boulder)

### **OUT\_010 - [The Colorado Center for Astrodynamics Research Ocean Data System](#)**

Robert Leben (University of Colorado Boulder), Michael Shannon (University of Colorado Boulder), Benjamin Hamlington (Old Dominion University)

## Precision Orbit Determination

**Session chairs:** Sean Bruinsma, Alexandre Couhert, Frank Lemoine

Thu, Oct 22 2015, 11:00 - 18:00 - **Grand Ballroom Foyer**

**POD\_001** - [New orbits of ERS-1, ERS-2, TOPEX/Poseidon, Envisat, Jason-1 and Jason-2 for altimetry applications and their validation](#)

Sergei Rudenko (GFZ German Research Centre for Geosciences), Neumayer Karl-Hans (GFZ German Research Centre for Geosciences), Dettmering Denise (Deutsches Geodaetisches Forschungsinstitut der Technischen Universitaet Muenchen (DGFI-TUM)), Esselborn Saskia (GFZ German Research Centre for Geosciences), Schöne Tilo (GFZ German Research Centre for Geosciences)

**POD\_002** - [Assessment of Orbit Quality through the SSH calculation Towards GDR-E orbit standards](#)

Annabelle Ollivier (CLS), Sabine Philipps (CLS), Alexandre Couhert (CNES), Nicolas Picot (CNES)

**POD\_003** - [New phase correction maps for Jason 2 GPS processing](#)

flavien mercier (cnes), alexandre couhert (cnes)

**POD\_004** - [A new time series of orbits \(std1504\) for TOPEX/Poseidon, Jason-1, Jason-2 \(OSTM\) \(poster\)](#)

Frank Lemoine (NASA GSFC), Nikita Zelensky (SGT Inc), Douglas Chinn (SGT Inc), Brian Beckley (SGT Inc), David Rowlands (NASA GSFC), Despina Pavlis (SGT Inc)

## Quantifying Errors and Uncertainties in Altimetry data

Session chairs: Michael Ablain, Joel Dorandeu, Remko Scharroo

Thu, Oct 22 2015, 11:00 - 18:00 - **Grand Ballroom Foyer**

**ERR\_001** - [Sentinel-3 Delay Doppler Altimeter: a New Insight on High Resolution Ocean Dynamics](#)

Sylvie Labroue (CLS), Matthias Raynal (CLS), Thomas Moreau (CLS), Jean Christophe Poisson (CLS), Laiba Amarouche (CLS), Gérald Dibarboure (CLS), François Boy (CNES), Nicolas Picot (CNES)

**ERR\_002** - [Sea level ECV quality assessment via global ocean model assimilation](#)

Martin Scharffenberg (CEN - University of Hamburg), Armin Koehl (CEN - University of Hamburg), Detlef Stammer (CEN - University of Hamburg)

**ERR\_003** - [Sea level budget over 2005-2013: Missing contributions and data errors](#)

Habib Dieng (CNRS-LEGOS), Anny Cazenave (CNES-LEGOS (France), ISSI (Switzerland)), Karina von Schuckmann (MIO), Michael Ablain (CLS), Benoit Meyssignac (CNES-LEGOS), Hindumathi Palanisamy (CNES-LEGOS)

**ERR\_004** - [Satellite altimetry data validation in San Matias Gulf, Argentina](#)

Loreley Selene Lago (Universidad de Buenos Aires), Laura Agustina Ruiz Etcheverry (Universidad de Buenos Aires), Marcello Passaro (University of Southampton), Martin Saraceno (Universidad de Buenos Aires)

**ERR\_005** - [Use of satellite data in the Rio de la Plata estuary](#)

Laura Ruiz Etcheverry (CIMA/CONICET-UBA), Jesus Gómez-Enri (Department of Applied Physics. Universidad de Cádiz), Martin Saraceno (CIMA/CONICET-UBA)

# 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 22 2015, 11:00 - 18:00 - **Grand Ballroom Foyer**

## **CVL\_001** - [An ESA absolute and permanent site with a transponder for the altimeter calibration of Sentinel-3, Cryosat-2, and Jason-3 in West Crete, Greece](#)

Stelios Mertikas (Technical University of Crete), Constantine Mavrocordatos (ESTEC\\European Space Agency), Craig Donlon (ESTEC\\European Space Agency), Pierre Féménias (ESRIN\\European Space Agency), Tommaso Parrinello (ESTEC\\European Space Agency)

## **CVL\_002** - [Towed and static GPS buoys for CAL/VAL and SSH](#)

Cédric Brachet (CNRS - INSU Technical Division), Michel Calzas (CNRS - INSU Technical Division), Christine Drezén (CNRS - INSU Technical Division), Lionel Fichen (CNRS - INSU Technical Division), Antoine Guillot (CNRS - INSU Technical Division), Philippe Téchiné (LEGOS UMR 5566), Laurent Testut (LEGOS UMR 5566), Pascal Bonnefond (GEOAZUR UMR 7329), Olivier Laurain (GEOAZUR UMR 7329)

## **CVL\_003** - [Jason-1 GDR-E Reprocessing](#)

Hélène Roinard (CLS), Sabine Philipps (CLS), Michael Ablain (CLS), Emilie Bronner (CNES), Nicolas Picot (CNES)

## **CVL\_004** - [Global Assessment of TOPEX reprocessed products \(Release 5\)](#)

Hélène Roinard (CLS), Sabine Philipps (CLS), Sylvie Labroue (CLS), Michael Ablain (CLS), Pierre Thibaut (CLS), Jean-Damien Desjonqueres (CNES), Nicolas Picot (CNES)

## **CVL\_005** - [Evaluation of Topex Retracked Data](#)

Rashmi Shah (Jet Propulsion Laboratory), Shailen Desai (Jet Propulsion Laboratory), Bruce Haines (Jet Propulsion Laboratory)

## **CVL\_006** - [SIRAL and SARAL Ocean Data Validation](#)

Marc Naeije (TUDelft), Ernst Schrama (TUDelft), Remko Scharroo (EUMETSAT)

## **CVL\_007** - [Evaluation of new CryoSat-2 measurements over the ocean](#)

Francisco Mir Calafat (National Oceanography Centre), Calafat Francisco M. (National Oceanography Centre), Cipollini Paolo (National Oceanography Centre), Helen M. Snaith (National Oceanography Centre), Jérôme Bouffard (ESA/ESRIN), Pierre Féménias (ESA/ESRIN), Tommaso Parrinello (ESA/ESRIN)

## **CVL\_008** - [A Seamless Transition Between LRM and SAR Altimetry: 3 Years Dataset Assessment of Cryosat-2 SARM](#)

Matthias Raynal (CLS), Sylvie Labroue (CLS), Thomas Moreau (CLS), Laiba Amarouche (CLS), Francois Boy (CNES), Nicolas Picot (CNES)

## **CVL\_009** - [The Role of the Sentinel-3 Mission Performance Centre in Maintaining High Standards within Operational Altimetry](#)

Graham Quartly (Plymouth Marine Laboratory), Sylvie Labroue (CLS), Marie-Laure Frery (CLS), Andrew Shepherd (University of Leeds), Steve Baker (MSSL), Alan Muir (MSSL), Monica Roca (isardSAT), Jean-Francois Cretaux (LEGOS), Frédérique Remy (LEGOS), Benoit Meyssignac (LEGOS), Saleh Abdalla (ECMWF), Stéphane Calmant (IRD), Mathilde Cancet (Noveltis), Guillaume Valladeau (CLS), Pierre Féménias (ESA)

## **CVL\_010** - [Sea Surface Height from Spaceborne GNSS-R: a Demonstration with TechDemoSat-1 Data](#)

Maria Paola Clarizia (University of Michigan, Ann Arbor, MI), Christopher Ruf (University of Michigan, Ann Arbor, MI), Cinzia Zuffada (Jet Propulsion Laboratory, Pasadena, CA), Paolo Cipollini (National Oceanography Centre, Southampton)

# Science I: Mean sea level monitoring: how to reconcile altimetry, tide gauges, land motion and other in situ observations?

**Session chairs:** Eric Leuliette, Christopher Watson

Thu, Oct 22 2015, 11:00 - 18:00 - **Grand Ballroom Foyer**

**SC1\_001** - [Dynamical Coastal Topography and tide gauge unification using altimetry and GOCE](#)

Ole Baltazar Andersen (Dr), Per Knudsen (DTU Space), Karina Nielsen (DTU Space), Chris Hughes (University of Liverpool), P. L. Woodworth (University of Liverpool), Guy Woppelman (LIENS-CNRS, U La Rochelle), Mederic Gravelle (LIENS-CNRS, U La Rochelle), Rory Bingham (Universtiy of Bristol), Luciana Fenoglio-Marc (Technical university of Darmstadt), Mattias Becker (Technical university of Darmstadt), Michael Kern (ESA-ESTEC)

**SC1\_002** - [Revisiting the sea level closure budget over 2004-2014 from a GRACE perspective](#)

Alejandro Blazquez (CNES/LEGOS), Benoit Meyssignac (CNES/LEGOS), Anny Cazenave (CNES/LEGOS)

**SC1\_003** - [Combination of satellite altimetry, tide gauges and shipborne GNSS measurements in the German Bight](#)

Ole Roggenbuck (Jade University of Applied Science Oldenburg), Jörg Reinking (Jade University of Applied Science Oldenburg)

**SC1\_004** - [Regional and coastal long-term sea level change assessment from geodetic data](#)

Luciana Fenoglio-Marc (Technische Universität Darmstadt)

**SC1\_005** - [Analyses of altimetry errors using Argo and GRACE data](#)

Jean-François Legeais (CLS), Pierre Prandi (CLS), Michaël Ablain (CLS), Jean-Damien Desjonquères (CNES), Nicolas Picot (CNES)

**SC1\_006** - [Priorities for installation of continuous Global Navigation Satellite System \(GNSS\) near to tide gauges](#)

Matt King (University of Tasmania), Christopher Watson (University of Tasmania)

**SC1\_007** - [Impact of loss of the 35-day repeat tracks on estimates of the mean sea level evolution](#)

Andrew Shaw (SkyMAT Ltd., UK), Cipollini Paolo (National Oceanography Centre), Mir Calafat Francisco (National Oceanography Centre), Benveniste Jérôme (ESA/ESRIN)

## Science II: Mesoscale and sub-mesoscale ocean processes: current understanding and preparation for SWOT

Session chairs: Lee-Lueng Fu, Rosemary Morrow

Thu, Oct 22 2015, 11:00 - 18:00 - **Grand Ballroom Foyer**

### SC2\_001 - [Capturing Mesoscale Features In Surface Currents](#)

Kathleen Dohan (Earth and Space Research), Jonathan Lilly (NorthWest Research Associates)

### SC2\_002 - [Long-range Radiation of Barotropic Rossby Waves from the Equatorial Pacific Ocean](#)

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

### SC2\_003 - [Surface Lagrangian transport in a submesoscale permitting simulation](#)

Beron-Vera Francisco (RSMAS/ATM, UNIVERSITY OF MIAMI)

### SC2\_004 - [Particle diffusion against mean flow as a new framework for local estimate of mixing coefficient](#)

Nikolai Maximenko (IPRC/SOEST, University of Hawaii), Jan Hafner (IPRC/SOEST, University of Hawaii), Oleg Melnichenko (IPRC/SOEST, University of Hawaii), Ali Belmadani (Department of Geophysics, Universidad de Concepcion)

### SC2\_005 - [Transient zonal jets and "storm tracks": A case study in the eastern North Pacific](#)

Oleg Melnichenko (University of Hawaii), Nikolai Maximenko (University of Hawaii), Hideharu Sasaki (The Earth Simulator Center, Japan Agency for Marine-Earth Science and Technology, Yokohama)

### SC2\_006 - [Variability of sub-mesoscale dynamics in the North Atlantic ocean from a 1/60° ocean model simulation.](#)

Julien Le Sommer (CNRS, LGGE), Jean-Marc Molines (CNRS, LGGE), Alexandre Jaymond (Univ. Grenoble Alpes, LGGE), Bernard Barnier (CNRS, LGGE), Thierry Penduff (CNRS, LGGE), Emmanuel Cosme (Univ. Grenoble Alpes, LGGE)

### SC2\_007 - [Coastal Circulation in the Southern Benguela Current](#)

P Ted Strub (Oregon State University), Matano Ricardo (Oregon State University), James Corinne (Oregon State University), Vincent Combes (Oregon State University), Hermes Juliet (University of Cape Town), Collins Charine (University of Cape Town)

### SC2\_008 - [Combining altimetry, numerical modeling and in-situ observations for the observation and the understanding of fine scale coastal processes in the Bay of Biscay](#)

Florence Toubanc (LEGOS/CNRS), Nadia Ayoub (LEGOS/CNRS), Florence Birol (CTOH/LEGOS), Patrick Marsaleix (LA/CNRS), Nicolas Fuller (CTOH/LEGOS)

### SC2\_009 - [Observing fine-scale ocean structures in the NW Mediterranean Sea from altimetry, gliders and HF radar](#)

Rosemary Morrow (CTOH / LEGOS), Alice Carret (CTOH / LEGOS), Florence Birol (CTOH / LEGOS), Fernando Nino (CTOH / LEGOS)

### SC2\_010 - [Small-scale and high-frequency SSH variability inferred from in-situ measurements in support of AirSWOT](#)

James Girton (University of Washington), Zhongxiang Zhao (University of Washington), Tom Farrar (Woods Hole Oceanographic Institution), Yi Chao (Remote Sensing Solutions)

### SC2\_011 - [Net primary production in the Gulf Stream sustained by quasi-geostrophic vertical exchanges](#)

Ananda Pascual (IMEDEA(CSIC-UIB)), Bruno Buongiorno Nardelli (CNR), Simón Ruiz (IMEDEA(CSIC-UIB)), Daniele Iudicone (Stazione Zoologica), Stéphanie Guinehut (CLS), Diane Galbrun (ENSTA ParisTech), Peter Gaube (University of Washington), Miguel Capllonch (IMEDEA(CSIC-UIB))

### SC2\_012 - [Preparing for the next interdisciplinary challenges unlocked by SWOT fine-scale observations](#)

Francesco d'Ovidio (CNRS), Xavier Capet (CNRS), Marina Lévy (CNRS), Cedric Cotté (CNRS), Fabien Durand (IRD)

**SC2\_013 - [Observation and modeling of tropical cyclones wakes and their evolution](#)**

Yves Quilfen (IFREMER), Bertrand Chapron (Ifremer), Nicolas Reul (Ifremer), Swen Jullien (Ifremer)

**SC2\_014 - [Dynamic mapping of ocean altimetry: method and performances from Observing System Simulation Experiments](#)**

Clement Ubelmann (JPL), lee-lueng fu (JPL), Bruce cornuelle (scripps), patrice klein (ifremer)

**SC2\_015 - [Value of the Jason-1 geodetic phase to study rapid oceanic changes](#)**

Gerald Dibarboure (CLS)

## Science III: Large scale and global change ocean processes: the ocean's role in climate

Session chairs: Thierry Penduff, Dean Roemmich

Thu, Oct 22 2015, 11:00 - 18:00 - **Grand Ballroom Foyer**

**SC3\_001** - [Sensitivity study on the use of Argo data for the validation of altimeter products in the Mediterranean Sea](#)

Antonio Sánchez-Román (IMEDEA (CSIC-UIB)), Simón Ruiz (IMEDEA (CSIC-UIB)), Stéphanie Guinehut (CLS (Toulouse)), Ananda Pascual (IMEDEA (CSIC-UIB))

**SC3\_002** - [Global Ocean Surface and 15m depth currents from the synergetic use of altimetry, GOCE and in-situ data.](#)

Marie-Hélène Rio (CLS), Claire Dufau (CLS), Hélène Etienne (CLS), Sandrine Mulet (CLS)

**SC3\_003** - [Estimating the velocity and transport of the East Australian Current using Argo, XBT, and Altimetry](#)

Nathalie Zilberman (Scripps Institution of Oceanography), Dean Roemmich (Scripps Institution of Oceanography), Sarah Gille (Scripps Institution of Oceanography)

**SC3\_004** - [Multi-decadal change of the South Pacific Gyre circulation](#)

Dean Roemmich (Scripps Institution of Oceanography), John Gilson (Scripps Institution of Oceanography), Philip Sutton (National Institute of Water and Atmospheric Research), Nathalie Zilberman (Scripps Institution of Oceanography)

**SC3\_005** - [Seasonal and interannual variability of the Brazil - Malvinas front: an altimetry perspective](#)

Martin Saraceno (Universidad de Buenos Aires), Daniel Valla (University of Buenos Aires), Jose Luis Pelegri (Instituto de Ciencias del Mar, CSIC), Alberto Piola (Servicio de Hidrografía Naval)

**SC3\_006** - [Iceberg detection using the three modes of SIRAL on Cryosat](#)

Jean Tournadre (IFREMER), François Boy (CNES), Salvatore Dinardo (ESA)

**SC3\_007** - [Meridional Heat Transport in the South Atlantic Ocean](#)

Gustavo Jorge Goni (National Oceanic and Atmospheric Administration / AOML), Shenfu Dong (University of Miami/CIMAS and National Oceanic and Atmospheric Administration/AOML), Francis Bringas (National Oceanic and Atmospheric Administration / AOML)

**SC3\_008** - [An altimetric based metric for Gulf Stream position in climate models](#)

Andrew Davis (University of Washington), Thompson LuAnne (University of Washington)

**SC3\_009** - [A wave investigation in the tropical Atlantic Ocean using satellite altimetry.](#)

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

**SC3\_010** - [Using Sea Surface Height to examine Air-Sea Interaction in the North Atlantic Ocean in Winter](#)

LuAnne Thompson (University of Washington), Kathryn Kelly (University of Washington)

**SC3\_011** - [Altimetry-derived changes in the Gulf Stream properties and its impact on air-sea interaction](#)

Shenfu Dong (CIMAS, Univ. of Miami and NOAA/AOML), Baringer Molly (NOAA/AOML), Goni Gustavo (NOAA/AOML)

**SC3\_012** - [Atlantic Water transport and temperature anomalies through the Nordic Seas towards the Arctic Ocean](#)

Leon Chafik (NOAA (Laboratory for Satellite Altimetry))

**SC3\_013** - [Extending and Improving Sea Level Measurements in the Ice Covered Arctic Ocean](#)

Pierre Prandi (CLS), Lionel Zawadzki (CLS), Jean-Christophe Poisson (CLS), Pierre Thibaut (CLS), Michaël Ablain (CLS), Graham Quartly (PML), Jérôme Benveniste (ESA/ESRIN), Nicolas Picot (CNES)

**SC3\_014** - [Accurately measuring sea level change from space: an ESA Climate Change Initiative for MSL closure budget studies](#)

Jean-Francois Legeais (CLS, Space Oceanography Division), Anny Cazenave (LEGOS), Gilles Larnicol (CLS, Space Oceanography Division), Michael Ablain (CLS, Space Oceanography Division), Yannice Faugere (CLS, Space Oceanography Division), Benoit Meyssignac (LEGOS), Johnny Johannessen (NERSC), Martin Sharffenberg (University of Hamburg), Gary Timms (CGI), Per Knudsen (DTU), Ole Andersen (DTU), Paolo Cipollini (NOC), Monica Roca (IsardSAT), Sergei Rudenko (GFZ), Joana Fernandes (FCUP), Magdalena Balmaseda (ECMWF), Graham Quartly (PML), Luciana Fenoglio-Marc (TUD), Jerome Benveniste (ESA, ESRIN), Americo Ambrozio (ESA, ESRIN), Salvatore Dinardo (ESA, ESRIN)

**SC3\_015** - [Warming of the global ocean : consistency of thermal and altimetric fields and dominance of descending density surfaces](#)

Sirpa Hakkinen (NASA Goddard Space Flight Center), Peter B. Rhines (University of Washington), Denise Worthen (Wyle STE Group/NASA GSFC)

**SC3\_016** - [Assessing regional deep-ocean warming from satellite and in situ data](#)

Denis Volkov (CIMAS/University of Miami/NOAA-AOML), Sang-Ki Lee (CIMAS/University of Miami/NOAA-AOML), Rick Lumpkin (NOAA-AOML)

**SC3\_017** - [A probabilistic description of the forced and intrinsic oceanic variability: SSH, SST, MOC, water masses.](#)

Thierry Penduff (CNRS - LGGE), Stéphanie Leroux (CNRS - LGGE), Guillaume Sérazin (CNRS - LGGE, CERFACS), Jean-Marc Molines (CNRS - LGGE), Laurent Bessières (CERFACS), Bernard Barnier (CNRS - LGGE), Laurent Terray (CERFACS)

**SC3\_018** - [Which part of the low-frequency sea-level variability is purely due to intrinsic ocean processes ?](#)

Guillaume Serazin (CNRS-LGGE/CERFACS), Thierry Penduff (CNRS-LGGE), Laurent Terray (CNRS-CERFACS), Bernard Barnier (CNRS-LGGE), Jean-Marc Molines (CNRS-LGGE)

**SC3\_019** - [A Probabilistic Description of the Mesoscale Eddy Field in the Ocean](#)

Martin Scharffenberg (CEN - University of Hamburg), Stavroula Biri (CEN - University of Hamburg), Detlef Stammer (CEN - University of Hamburg)

**SC3\_020** - [Mesoscale eddies in the North Atlantic subtropical gyre: 3D composite structure from satellite altimetry and Argo profile data](#)

Angel Amores (International Pacific Research Center, University of Hawaii. Honolulu, Hawaii.), Oleg Melnichenko (International Pacific Research Center, University of Hawaii. Honolulu, Hawaii.), Nikolai Maximenko (International Pacific Research Center, University of Hawaii. Honolulu, Hawaii.)

# The Geoid, Mean Sea Surfaces and Mean Dynamic Topography

Session chairs: Ole B. Andersen, Yannice Faugere

Thu, Oct 22 2015, 11:00 - 18:00 - **Grand Ballroom Foyer**

**GEO\_001** - [Pointwise comparison of geostrophic currents of altimetry-derived instantaneous Ocean Dynamic Topography with in-situ measurements](#)

Felix Müller (Deutsches Geodätisches Forschungsinstitut der TU München (DGFI-TUM)), Denise Dettmering (Deutsches Geodätisches Forschungsinstitut der TU München (DGFI-TUM)), Wolfgang Bosch (Deutsches Geodätisches Forschungsinstitut der TU München (DGFI-TUM))

**GEO\_002** - [The updated geodetic mean dynamic topography model – DTU15MDT.](#)

Per Knudsen (DTU Space, Denmark), Ole Baltazar Andersen (DTU Space, Denmark), Nikolai Maximenko (IPRC/SOEST, University of Hawaii)

## Tides, internal tides and high-frequency processes

Session chairs: Loren Carrere, Florent Lyard, Richard Ray

Thu, Oct 22 2015, 11:00 - 18:00 - **Grand Ballroom Foyer**

**TID\_001** - [Improving the dynamic atmospheric correction for delayed-time and operational applications of altimetry](#)

Loren Carrere (CLS), F. Briol (CLS), A. Delepouille (CLS), Yannice Faugère (CLS), S. Dupuy (CLS), G. Valladeau (CLS), E. Bronner (CNES)

**TID\_002** - [Tidal estimation in China Seas based on satellite altimetric data](#)

Yongcun Cheng (Center for Coastal Physical Oceanography, Old Dominion University), Xu Qing (Key Laboratory of Coastal Disasters and Defense of Ministry of Education, Hohai University), Plag Hans-Peter (Mitigation and Adaptation Research Institute, Old Dominion University)

**TID\_003** - [Non-Stationary Internal Tides Observed Using Dual-Satellite Altimetry](#)

Edward Zaron (Portland State University)

**TID\_004** - [Updating the pole tide model for satellite altimetry](#)

Shailen Desai (Jet Propulsion Laboratory), John Wahr (University of Colorado), Brian Beckley (SGT, Inc.)

**TID\_005** - [Global mapping of low-mode semi-diurnal and diurnal internal tides with a data-assimilative reduced gravity model](#)

Gary Egbert (Oregon State University), Lana Erofeeva (Oregon State University)