2018 Ocean Surface Topography Science Team Meeting

Thursday, September 27 2018 - Friday, September 28 2018

The annual meeting of the Ocean Surface Topography Science Team (OSTST), will be held in the second part of the "25 Years of Progress in Radar Altimetry" Symposium and will address specific issues on the TOPEX/Poseidon-Jason series of missions, including algorithm and model improvement, Cal/Val activities, merging with other altimetric satellites (CryoSat-2, SARAL/AltiKa, HY-2, Sentinel-3), and preparation for the Sentinel-6/Jason-CS and SWOT missions.

Event's program

List of event's sessions

Thursday, September 27 2018

09:30 - 12:45
OSTST Opening Plenary Session
Teatro Auditorium

14:00 - 18:00
Instrument Processing: Measurement and Retracking
Teatro Auditorium

14:00 - 15:45
Outreach, Education and Altimetric Data Services
Lagoa Do Congro

14:00 - 18:00
Precision Orbit Determination
Lagoa Das 7 Cidades

16:15 - 18:00
Quantifying Errors and Uncertainties in Altimetry data
Lagoa Do Congro

18:00 - 20:00
Poster session 1 & Cocktail
Foyer, Salao Nobre & tent

Friday, September 28 2018

09:00 - 10:30
Application development for Operations
Lagoa Das 7 Cidades

09:00 - 12:30
Regional and Global CAL/VAL for Assembling a Climate Data Record
Teatro Auditorium

09:00 - 10:30
The Geoid, Mean Sea Surfaces and Mean Dynamic Topography
Lagoa Do Congro

11:00 - 12:30
Instrument Processing: Propagation, Wind Speed and Sea State Bias
Lagoa Das 7 Cidades

11:00 - 12:30
Tides, internal tides and high-frequency processes
Lagoa Do Congro

14:00 - 15:00
Poster session 2
Foyer, Salao Nobre & tent

15:30 - 18:00
OSTST Closing Plenary Session
Teatro Auditorium

Oral sessions

Thursday, September 27 2018

OSTST Opening Plenary Session

Session chairs: Pascal Bonnefond, Craig Donlon, Eric Leuliette, Remko Scharroo, Josh Willis
(Thu, Sep 27 2018, 09:30 - 12:45)

Teatro Auditorium

09:30 - 09:35:
Welcoming remarks and meeting overview
Pascal Bonnefond (Observatoire de Paris - SYRTE, France)

09:35 - 10:00:
NASA/CNES/EUMETSAT/NOAA/ESA program status
Program Managers (NASA/CNES/EUMETSAT/NOAA/ESA)

10:00 - 10:15:
Jason-2 mission overview
Christophe Maréchal (CNES, France)

10:15 - 10:30:
Jason-3 mission overview
Christophe Maréchal (CNES, France)

10:30 - 11:00: Coffee break

11:00 - 11:15:
SARAL/AltiKa mission overview
Nadège Queruel (CNES, France)

11:15 - 11:30:
Sentinel-3 mission overview
Craig Donlon (ESA/ESTEC, The Netherlands), Remko Scharroo (EUMETSAT, Germany)

11:30 - 11:45:
Sentinel-6/Jason-CS news and developments
Pierrik Vuilleumier (ESA/ESTEC, Netherlands), John Loving (NOAA, United States), François Parisot (EUMETSAT, Germany), Parag Vaze (NASA/JPL, United States), Gilles Tavernier (CNES, France)

11:45 - 12:00:
SWOT status
Lee-Lueng Fu (JPL, United States), Rosemary Morrow (LEGOS, France)

12:00 - 12:15:
CFOSAT: A new satellite for the observation of wind and waves
Cédric Tourain (CNES, France)

12:15 - 12:30:
Future Missions: The Copernicus Polar Ice and Snow Topography Mission and ESA EE9 Sea surface KInematics Multiscale monitoring (SKIM) Mission
Donlon Craig (ESA/ESTEC, The Netherlands), Robert Cullen (ESA/ESTEC, The Netherlands), Fabrice Ardhuin (LOPS, France)

12:30 - 12:45:
Topics to be discussed in the splinters
Remko Scharroo (EUMETSAT, Germany)

12:45 - 14:00: Lunch

Instrument Processing: Measurement and Retracking

Session chairs: Francois Boy, Phil Callahan, Robert Cullen, Jean-Damien Desjonqueres, Alejandro Egido, Cristina Martin-Puig, Walter H.F. Smith
(Thu, Sep 27 2018, 14:00 - 18:00)

Teatro Auditorium

14:00 - 14:15:
Sentinel-6 Poseidon-4 RMC mode processing and expected performance
Mieke Kuschnerus (ESA, Netherlands)

14:15 - 14:30:
Fast and accurate Delay/Doppler processing: applying range walk compensation while preserving the computational complexity
Michele Scagliola (Aresys, Italy), Marco Fornari (ESA, The Netherlands), Lisa Recchia (Aresys, Italy)

14:30 - 14:45:
Impact of Geoid Curvatures and Slopes on LRMC, RDSAR and SAR Mode Waveforms
Christopher Buchhaupt (TU Darmstadt, Germany), Luciana Fenoglio-Marc (Univeristy of Bonn, Germnay), Salvatore Dinardo (HeSpace/EUMETSAT, Germany), Remko Scharroo (EUMETSAT, Germany), Jerome Benveniste (ESA/ESRIN, Italy), Matthias Becker (TU Darmstadt, Germany)

14:45 - 15:00:
From unfocused to fully focused SAR processing: illustrations of potential benefits for different surfaces
Pierre Rieu (CLS, France), Thomas Moreau (CLS, France), Laiba Amarouche (CLS, France), Pierre Thibaut (CLS, France), François Boy (CNES, France), Sophie Le Gac (CNES, France), Nicolas Picot (CNES, France), Franck Borde (ESA, The Netherlands), Constantin Mavrocordatos (ESA, The Netherlands)

15:00 - 15:15:
A coherent processing approach with improved performance capabilities for measuring ocean surface parameters
Thomas Moreau (CLS, France), Pierre Rieu (CLS, France), Jérémie Aublanc (CLS, France), Matthias Raynal (CLS, France), Ngan Tran (CLS, France), Pierre Thibaut (CLS, France), François Boy (CNES, France), Nicolas Picot (CNES, France), Franck Borde (ESA, The Netherlands), Constantin Mavrocordatos (ESA, The Netherlands)

15:15 - 15:30:
A waveform model for fully focused SAR altimetry
Chris Ray (Saint Mary's College of California/NOAA, United States), Alejandro Egido (NOAA, USA)

15:30 - 15:45:
Towards the Optimization of SAR Altimetry Processing Over the Open Ocean
Alejandro Egido (NOAA / GST, United States), Chris Ray (SMC / NOAA, United States)

15:45 - 16:15: Coffee break

16:15 - 16:30:
Toward a CryoSat-2 / Sentinel-3 continuum of sea-ice thickness and volume observations
Antoine Laforge (LEGOS, France), Sara Fleury (LEGOS/CTOH, France), Kévin Guerreiro (LEGOS, France), Florence Birol (LEGOS, France), Salvatore Dinardo (EUMETSAT, Germany), Giovanni Sabatino (ESRIN, Italy), Jérôme Benveniste (ESRIN/ESA, Italy), Jérôme Bouffard (ESRIN/ESA, Italy)

16:30 - 16:45:
Better than Averaging : Empirical correction for Intra-1Hz correlations
Graham Quartly (Plymouth Marine Laboratory, United Kingdom), Walter Smith (NOAA, USA), Marcello Passaro (Technical Unversitat Muenchen, Germany)

16:45 - 17:00:
Early results from Sentinel-3B commissioning phase
François Boy (CNES, France), Franck Borde (ESTEC, The Netherlands), Nicolas Picot (CNES, FRANCE), Fanny Piras (CLS, FRANCE), Matthias Raynal (CLS, FRANCE), Pierre Thibaut (CLS, FRANCE), Amandine Guillot (CNES, FRANCE)

17:00 - 17:15:

Assessing high-wavenumber spectral slopes (and effective resolution) in new altimeter products

Sarah Gille (Scripps Institution of Oceanography, UC San Diego, United States), Jessica Masich (Scripps Institution of Oceanography, UC San Diego, USA), Teresa Chereskin (Scripps Institution of Oceanography, UC San Diego, United States), Marcello Passaro (Deutsches Geodätisches Forschungsinstitut der Technischen Universität München, Germany), Saulo Soares (Scripps Institution of Oceanography, UC San Diego, United States)

17:15 - 17:30:

Status and Perspectives for Wave Height estimation from altimeter measurements

Pierre Thibaut (CLS, France), Thomas Moreau (CLS, France), Laiba Amarouche (CLS, France), Pierre Rieu (CLS, France), Fanny Piras (CLS, France), François Boy (CNES, France), Nicolas Picot (CNES, France), Franck Borde (ESA, The Netherlands), Constantin Mavrocordatos (ESA, The Netherlands)

17:30 - 17:45:

A Numerical Retracking Approach for TOPEX Data Reprocessing

Jean-Damien Desjonqueres (NASA Jet Propulsion Laboratory, United States), Philip Callahan (NASA Jet Propulsion Laboratory, USA), Shailen Desai (NASA Jet Propulsion Laboratory, USA), Matthieu Talpe (NASA Jet Propulsion Laboratory, USA)

17:45 - 18:00:

Discussion

Outreach, Education and Altimetric Data Services

Session chairs: Jessica Hausman, Vinca Rosmorduc, Margaret Srinivasan
(Thu, Sep 27 2018, 14:00 - 15:45)

Lagoa Do Congro

14:00 - 14:15:

Latest Data Services at PO.DAAC

Jessica Hausman (JPL, United States)

14:15 - 14:30:

ALES dataset in OpenADB

Marcello Passaro (DGFI-TUM, Germany), Ana Nuñez (DGFI-TUM, Germany), Christian Schwatke (DGFI-TUM, Germany), Gaia Piccioni (DGFI-TUM, Germany), Denise Dettmering (DGFI-TUM, Germany)

14:30 - 14:45:

Enhancing oceanographic education and research in West Africa-the role of data availability

Ebenezer Nyadjro (University of New Orleans, United States), Brian Arbic (University of Michigan Ann Arbor, USA)

14:45 - 15:00:

Visualisation and Analysis of Climate Data in the ESA CCI Toolbox

Ed Pechorro (ESA Climate Office, United Kingdom), Carsten Brockmann (Brockmann Consult GmbH, Germany), Norman Fomferra (Brockmann Consult GmbH, Germany), Susan Smollich (Brockmann Consult GmbH, Germany), Anna Corlyon (Telespazio Vega UK , United Kingdom), Jānis Gailis (Science [&] Technology Corporation (S[&]T), Norway), Rainer Hollmann (Deutscher Wetterdienst, Germany), Vivien Priemer (Deutscher Wetterdienst, Germany), Kevin John Pearson (University of Reading, United Kingdom), Frank Paul (University of Zurich, Switzerland), Paolo Cipollini (ESA Climate Office, United Kingdom), Catherine Downy (ESA Climate Office, United Kingdom), Paul Fisher (ESA Climate Office, United Kingdom)

15:00 - 15:15:

NOAA's Adopt a Drifter Program

Emily Smith (NOAA/UCAR, United States)

15:15 - 15:30:

Outreach & data services showcases

All (OSTST, France)

15:30 - 15:45:

Discussion

Precision Orbit Determination

Session chairs: Sean Bruinsma, Alexandre Couhert, Frank Lemoine
(Thu, Sep 27 2018, 14:00 - 18:00)

Lagoa Das 7 Cidades

14:05 - 14:20:
Jason-2/3 POD Status and First Results for Sentinel-3B
John Moyard (CNES, France), Eva Jalabert (CNES, France), Alexandre Couhert (CNES, France), Flavien Mercier (CNES, France), Sabine Houry (CNES, France), Hanane Ait Lakbir (CSSI, France), Clément Masson (CSSI, France)

14:20 - 14:35:
Improved orbit time series for the TOPEX and Jason missions using SLR/DORIS data
Frank Lemoine (NASA GSFC, United States), Nikita Zelensky (SGT Inc., U.S.A), Alexandre Belli (NPP/USRA @ NASA GSFC, U.S.A.), Taylor Thomas (Emergent Space Technologies, USA), Brian Beckley (SGT Inc., U.S.A.), Douglas Chinn (SGT Inc., U.S.A.), Despina Pavlis (ESSIC, University of Maryland @ College Park,, USA), Jean-Paul Boy (EOST/IPGS, University of Strasbourg, FRANCE)

14:35 - 14:50:
GPS-Based Jason-2 and Jason-3 Precision Orbit Determination Solutions in the IGS14 Reference Frame
Shailen Desai (Jet Propulsion Laboratory, United States), Willy Bertiger (Jet Propulsion Laboratory, United States), Bruce Haines (Jet Propulsion Laboratory, United States), Da Kuang (Jet Propulsion Laboratory, United States), Aurore Sibois (Jet Propulsion Laboratory, United States)

14:50 - 15:05:
Sentinel-3B - GPS L2C tracking tests during commissioning phase
Jaime Fernández (GMV, Spain), Heike Peter (PosiTim UG, Germany), Pierre Féménias (ESA/ESRIN, Italy)

15:05 - 15:20:
Precise Orbit Determination status on Jason-2&3 and Sentinel-3A&B by CNES/CLS IDS Analysis Center
Hugues Capdeville (CLS, France), Jean-Michel Lemoine (CNES, FRANCE)

15:20 - 15:35:
Short latency GPS orbit solutions for LEO satellites
Trilles Sébastien (Thales Alenia Space, France), Julie Anton (Thales Alenia Space, France), Halima Jmili (Thales Alenia Space, France), Sébastien Trilles (Thales Alenia Space, France), Thierry Authié (Thales Alenia Space, France), Flavien Mercier (CNES, France)

15:45 - 16:15: Coffee break

16:15 - 16:30:
Integer Ambiguity resolved orbits for Sentinel-3A and Sentinel-3B
Michiel Otten (ESA/ESOC, Germany), Claudia Flohrer (ESA/ESOC, Germany), Tim Springer (ESA/ESOC, Germany), Werner Enderle (ESA/ESOC, Germany)

16:30 - 16:45:
Fixed GPS ambiguity orbit solutions
Flavien Mercier (cnes, France), Clément Masson (CS-SI, France), Sabine Houry (CNES, France), Hanane Ait-Lakbir (CS-SI, France), Alexandre Couhert (CNES, France), Eva Jalabert (CNES, France), John Moyard (CNES, France)

16:45 - 17:00:
On the effect of non-tidal atmospheric loading on altimetry orbits
Rolf Koenig (GFZ German Research Centre for Geosciences, Germany), Anton Reinhold (GFZ German Research Centre for Geosciences, Germany), Henryk Dobslaw (GFZ German Research Centre for Geosciences, Germany), Saskia Esselborn (GFZ German Research Centre for Geosciences, Germany), Karl Hans Neumayer (GFZ German Research Centre for Geosciences, Germany)

17:00 - 17:15:
From satellite antenna Centers of Phase to the Center of the Earth: a study in improving the modeling of SLR/DORIS antenna phase centers and of the geocenter

Nikita Zelensky (SGT / GSFC, United States), Frank lemoine (NASA/GSFC, USA), Brian Beckley (SGT/GSFC, USA), Alexandre Belli (NASA/GSFC, USA), Despina Pavlis (UMD / GSFC, USA), Douglas Chinn (SGT / GSFC, USA), Taylor Thomas (Emergent Space Technologies / GSFC, USA)

17:15 - 17:30:
The new time-variable gravity field model for POD of altimetric satellites based on GRACE+SLR RL04 from CNES/GRGS
Jean-Michel Lemoine (CNES, France), Stéphane Bourgogne (Géode & Cie, France), Richard Biancale (CNES, France), Franck Reinquin (CNES, France)

17:30 - 17:45:
Improved determination of the very low-degree Earth's gravity coefficients for satellite altimetry
Alexandre Couhert (CNES, France), Flavien Mercier (CNES, France), Richard Biancale (CNES, France), Christian Bizouard (Observatoire de Paris, SYRTE, France)

17:45 - 18:00:
Discussion

Quantifying Errors and Uncertainties in Altimetry data

Session chairs: Michael Ablain, Joel Dorandeu, Remko Scharroo
(Thu, Sep 27 2018, 16:15 - 18:00)

Lagoa Do Congro

16:15 - 16:30:
Assessment of the SARM processing sensitivity to swell
Matthias Raynal (CLS, France), Thomas Moreau (CLS, France), Ngan Tran (CLS, France), Sylvie Labroue (CLS, France), François Boy (CNES, France), Pierre Féménias (ESA/ESRIN, Italy), Franck Borde (ESA/ESTEC, Netherlands)

16:30 - 16:45:
Random Error Estimation of Sentinel-3 and Jason-3 Wind and Wave Data: Initial Efforts
Saleh Abdalla (ECMWF, United Kingdom)

16:45 - 17:00:
Impact of Geophysical Corrections on Altimetry Sea Level Estimations Near the Coast
Florence Birol (Université de Toulouse/Legos, France), Fernando Niño (Université de Toulouse/Legos, France), Fabien Léger (Université de Toulouse/Legos, France), Fabien Blarel (Université de Toulouse/Legos, France)

17:00 - 17:15:
Aliased Tidal Variability in Mesoscale Sea Level Anomaly Maps
Edward Zaron (Portland State University, United States), Richard Ray (NASA/GSFC, United States)

17:15 - 17:30:
Accounting for gravitational attraction and loading effects from land ice on altimeter data
Rui Ponte (AER, United States), Katherine Quinn (AER, United States), Christopher Piecuch (WHOI, United States)

17:30 - 17:45:
Ocean mesoscale error reduction thanks to the new SAR/LR-RMC processing: new perspectives for DUACS
Yannice Faugere (CLS Space Oceanography Division, France), Marie-Isabelle Pujol (CLS, France), Oscar Vergara (Legos, France), Francois Boy (CNES, France), Thomas Moreau (CLS, France), Jeremie Aublanc (CLS, France), Gerald Dibarboure (CNES, France), Nicolas Picot (CNES, France)

17:45 - 18:00:
Discussion

Poster session 1 & Cocktail

Session chairs: all
(Thu, Sep 27 2018, 18:00 - 20:00)

Friday, September 28 2018

Application development for Operations

Session chairs: Gerald Dibarboure, Gregg Jacobs, Carolina Nogueira Loddo, Joseph Sienkiewicz
(Fri, Sep 28 2018, 09:00 - 10:30)

Lagoa Das 7 Cidades

09:00 - 09:15:
Sentinel-3 and Jason-3 NRT Wind and Wave Products: Assessment and Assimilation
Saleh Abdalla (ECMWF, United Kingdom)

09:15 - 09:30:
Significant Wave Height in the Subpolar Seas of the Arctic: Satellite Radar Altimeter Observations spanning Two Decades
Kyle Duncan (University of Maryland, United States), John Kuhn (NOAA, USA), Sinead Farrell (University of Maryland, USA)

09:30 - 09:45:
Pathways, impacts and fate of marine debris generated by the 2011 tsunami in Japan, derived from a synthesis of numerical models and observational reports
Nikolai Maximenko (IPRC/SOEST, University of Hawaii, United States), Jan Hafner (IPRC/SOEST, University of Hawaii, United States), Masafumi Kamachi (Japan Agency for Marine-Earth Science and Technology, Japan), Amy MacFadyen (National Oceanic and Atmospheric Administration, United States)

09:45 - 10:00:
New Level-3 and Level-4 near-real-time wave products derived from altimetry and SAR
Elodie Charles (CLS, France), Romain Husson (CLS, France), Nicolas Taburet (CLS, France), Alexis Mouche (IFREMER, France)

10:00 - 10:15:
Near-Real Time monitoring of Water Surface Height for inland waters
Lionel Zawadzki (CLS, France), Jean-François Crétaux (LEGOS/CNES, France), Philippe Pacholczyk (CNES, France), Nicolas Taburet (CLS, France), Maxime Vayre (CLS, France), Rémi Jugier (CLS, France), Adrien Paris (CLS, France)

10:15 - 10:30:
Discussion

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

Session chairs: Pascal Bonnefond, Shailen Desai, Bruce Haines, Eric Leuliette, Nicolas Picot
(Fri, Sep 28 2018, 09:00 - 12:30)

Teatro Auditorium

09:00 - 09:15:
The Harvest Experiment: Updates from the Platform and Regional Campaigns
Bruce Haines (Jet Propulsion Laboratory, United States), Shailen Desai (Jet Propulsion Laboratory, California Institute of Technology, USA), Christian Meinig (NOAA Pacific Marine Environmental Laboratory, USA), Scott Stalin (NOAA Pacific Marine Environmental Laboratory, USA)

09:15 - 09:30:
Absolute altimeter bias results from Bass Strait, Australia
Christopher Watson (University of Tasmania, Australia), Benoit Legresy (CSIRO, Australia), Jack Beardsley (Integrated Marine Observing System, Australia), Matt King (University of Tasmania, Australia)

09:30 - 09:45:
Transponder and Sea-surface Calibration of Satellite altimeters at the Permanent Facility for Altimeter Calibration in west Crete, Greece.
Stelios Mertikas (Technical University of Crete, Greece), Craig Donlon (European Space Agency, The Netherlands), Pierre Femenias (European Space Agency, Italy), Constantin Mavrocordatos (European Space Agency, The Netherlands), Demitris Galanakis (Space Geomatica P.C., Greece), Tommaso Parrinello (European Space Agency, Italy), Francois Boy (CNES, France), Ilias Tziavos (Aristotle University of

Thessaloniki, Greece), George Vergos (Aristotle University of Thessaloniki, Greece), Xenofon Frantzis (Technical University of Crete, Greece), Achilles Tripolitsiotis (Space Geomatica P.C., Greece)

09:45 - 10:00:

Corsica: A 20-Yr Multi-Mission Absolute Altimeter Calibration Site

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

10:00 - 10:15:

Regional in situ CalVal of satellite altimeter range at non-dedicated sites

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

10:15 - 10:30:

14 years of Absolute calibration of satellite altimeters on Lake Issykkul from GPS field campaigns

Jean-Francois Cretaux (CNES/LEgos, France), Muriel Berge-Nguyen (Legos/CNES, France), Stephane Calmant (Legos/IRD, France), Pascal Bonnefond (SYRTE, Observatoire de Paris, Université PSL, CNRS, Sorbonne Université, LNE, France), Nurzat Jamangulova (IWPH, Kyrgyzstan), Rysbek Satylkanov (IWPH, Kyrgyzstan), Florent Lyard (Legos/CNRS, France), Felix Perosanz (Get/CNES, France), Philippe Maisongrande (Legos/CNES, France)

10:30 - 11:00: Coffee break

11:00 - 11:15:

Comparisons of Jason-3, Sentinel-3A, Sentinel-3B and tide gauges

Eric Leuliette (NOAA, United States), Amanda Plagge (NOAA/Global Science and Technology, Inc., United States)

11:15 - 11:30:

Sentinel-3B commissioning: first results from the Level 2 Marine Products

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

11:30 - 11:45:

Performance of the altimetry missions over coastal areas through sea level measurements

Hélène Roinard (CLS, France), Matthias Raynal (CLS, FRANCE), Ghita Jettou (CLS, FRANCE), Nicolas Picot (CNES, FRANCE), Pierre Femenias (ESA, ITALY)

11:45 - 12:00:

Evaluating Sentinel-3 SRAL performance near the coast of southwest England

Francesco Nencioli (Plymouth Marine Laboratory, United Kingdom), Graham Quartly (Plymouth Marine Laboratory, United Kingdom), Daniel Conley (University of Plymouth, United Kingdom), Wei Zhang (University of Plymouth, United Kingdom)

12:00 - 12:15:

Quality Assessment of Altimetry Water Surface Height Measurements for inland waters

Lionel Zawadzki (CLS, France), Nicolas Taburet (CLS, France), Adrien Paris (CLS, France), Maxime Vayre (CLS, France), Rémi Jugier (CLS, France), Matthias Raynal (CLS, France), Denis Blumstein (LEGOS/CNES, France), Sophie Le Gac (CNES, France), Jean-François Crétaux (LEGOS/CNES, France), Nicolas Picot (CNES, France)

12:15 - 12:30:

Discussion

The Geoid, Mean Sea Surfaces and Mean Dynamic Topography

Session chairs: Ole B. Andersen, Yannice Faugere
(Fri, Sep 28 2018, 09:00 - 10:30)

Lagoa Do Congro

09:00 - 09:15:
Analysis of Geomed2 Combined Geoid Models
Sean Bruinsma (CNES, France)

09:15 - 09:30:
First marine gravity field result from Jason-2 Long Repeat Orbit mission
Ole Baltazar Andersen (DTU Space, Denmark), Walter Smith (NOAA, USA), David Sandwell (SIO, USA), Gerald Dibarboure (CNES, France), Hugh Harper (SIO, USA), Alejandro Egido (NOAA, USA), Adili Abulaitijiang (DTU Space, Denmark)

09:30 - 09:45:
What do we need to improve the next Mean Sea Surface?
Philippe Schaeffer (CLS, France), Isabelle Pujol (CLS, France), Elodie Charles (CLS, France), David Sandwell (SIO, USA), Antoine Delepoulle (CLS, FRANCE), Yannice Faugere (CLS, France), Nicolas Picot (CNES, FRANCE), Gerald Dibarboure (CNES, FRANCE)

09:45 - 10:00:
The DTU17 OGMOC mean dynamic topography model – DTU17MDT
Per Knudsen (Professor, Denmark), Ole Andersen (Dr, Danmark), Thomas Fecher (Professor, Denmark), Nikolai Maximenko (Univ Hawaii, USA)

10:00 - 10:15:
New CNES-CLS Mean Dynamic Topography of the global ocean from altimetry, gravity and in-situ data
Marie-Hélène Rio (CLS, France), Sandrine Mulet (CLS, FRANCE), Nicolas Picot (CNES, FRANCE), Gérald Dibarboure (CNES, FRANCE)

10:15 - 10:30:
Discussion

Instrument Processing: Propagation, Wind Speed and Sea State Bias

Session chairs: Shannon Brown, Estelle Obligis
(Fri, Sep 28 2018, 11:00 - 12:30)

Lagoa Das 7 Cidades

11:00 - 11:15:
A first assessment of Sentinel-3B Microwave Radiometer: intercalibration and performance
Marie-Laure Frery (CLS, France), Mathilde Siméon (CLS, france), Christophe Goldstein (CNES, france), Franck Borde (ESA, Netherlands), Pierre Féménias (ESA, Italy)

11:15 - 11:30:
A new synergistic radiometer/altimeter instrument processing algorithm
Tanvir Islam (NASA JPL, United States), Shannon Brown (NASA JPL, USA), Sidharth Misra (NASA JPL, USA)

11:30 - 11:45:
Using radiosonde networks to assess short scale Wet Tropospheric Correction retrieval improvement: illustration with SARAL/AltiKa mission.
Marie-Laure Frery (CLS, France), Bruno Picard (CLS, France), Christophe Goldstein (CNES, France)

11:45 - 12:00:
Improvements on Jason-3 and Sentinel-3 Sea State Bias models using a synergistic approach with SAR Sentinel-1 ocean products
Nelson Pires (University of Porto, Portugal), M. Joana Fernandes (University of Porto, Portugal), Christine Gommenginger (National Oceanography Centre, United Kingdom), Remko Scharroo (EUMETSAT, Germany)

12:00 - 12:15:
Improving the precision of sea level data from satellite altimetry with high-frequency and regional Sea State Bias corrections
Marcello Passaro (DGFI-TUM, Germany), Zulfikar Adlan Nadzir (DGFI-TUM and Sumatera Institute of Technology (Itera), Germany-Indonesia), Graham D Quartly (Plymouth Marine Laboratory, UK)

12:15 - 12:30:
Discussion

Tides, internal tides and high-frequency processes

Session chairs: Loren Carrere, Florent Lyard, Richard Ray
(Fri, Sep 28 2018, 11:00 - 12:30)

Lagoa Do Congro

11:00 - 11:12:
The non-stationarity scattering rate: a new metric to study non-stationary internal tides
Maarten Buijsman (University of Southern Mississippi, United States), Jay Shriver (Naval Research Laboratory, USA), Brian Arbic (University of Michigan, USA), James Richman (Florida State University, USA)

11:13 - 11:25:
Bathymetry improvement and tidal modeling at regional scales in the NEA and in Indonesia
Mathilde Cancet (NOVELTIS, France), Florence Toublanc (NOVELTIS, France), Florent Lyard (LEGOS/CNRS/OMP, France), Gérald Dibarboure (CNES, France), Nicolas Picot (CNES, France), Thierry Guinle (CNES, France)

11:26 - 11:38:
Simultaneous Estimation of Tides and Topography in the Weddell Sea
Edward Zaron (Portland State University, United States)

11:39 - 11:51:
Progress and challenges of the Dynamic Atmospheric Correction for altimetry over last 25 years
Loren Carrere (CLS, France), Damien Allain (CLS, LEGOS, FRANCE), Florent Lyard (LEGOS, FRANCE), Yannice Faugère (CLS, FRANCE), Romain Baghi (CLS, FRANCE), Jean-Michel Lachiver (CNES, FRANCE)

11:52 - 12:04:
Impact of waves on storm surges in the North Sea: model evaluation against altimeter
Lucia Pineau-Guillou (Ifremer/LOPS, France), Marie-Noëlle Bouin (Meteo-France/LOPS, France), Fabrice Ardhuin (CNRS/LOPS, France), Florent Lyard (CNRS/LEGOS, France)

12:05 - 12:17:
Numerical modelling of non-tidal ocean dynamics for the reduction of spatio-temporal aliasing in global grids of sea-level anomalies from radar altimetry
Henryk Dobslaw (Deutsches GeoForschungsZentrum, Germany), Saskia Esselborn (GFZ Potsdam, Germany)

12:17 - 12:30:
Discussion

12:30 - 14:00: Lunch

Poster session 2

Session chairs: all
(Fri, Sep 28 2018, 14:00 - 15:00)

15:00 - 15:30: Coffee break

OSTST Closing Plenary Session

Session chairs: Pascal Bonnefond, Craig Donlon, Eric Leuliette, Remko Scharroo, Josh Willis
(Fri, Sep 28 2018, 15:30 - 18:00)

Teatro Auditorium

15:30 - 17:10:
Splinters meeting summaries

15:30 - 15:40:
Application development for Operations summary

15:40 - 15:50:
Instrument processing (Propagation, Wind Speed and Sea State Bias) summary

15:50 - 16:00:
Instrument processing (Measurement and retracking) summary

16:00 - 16:10:
Outreach, Education & Altimetric data services summary

16:10 - 16:20:
Precision Orbit Determination summary

16:20 - 16:30:
Quantifying Errors and Uncertainties in Altimetry Data summary

16:30 - 16:40:
Regional and Global CAL/VAL for Assembling a Climate Data Record summary

16:40 - 16:50:
The Geoid Mean Sea Surfaces and Mean Dynamic Topography summary

16:50 - 17:00:
Tides, internal tides and high-frequency processes summary

17:00 - 17:10:
11th Coastal Altimetry Workshop summary
Paolo Cipollini (Telespazio VEGA/ECSAT, United Kingdom)

17:10 - 17:20:
Jason/GDR status and plans
Nicolas Picot (CNES, France)

17:20 - 18:00:
Discussion, summary and recommendation

Posters

Instrument Processing: Measurement and Retracking

Session chairs: Francois Boy, Phil Callahan, Robert Cullen, Jean-Damien Desjonqueres, Alejandro Egido, Cristina Martin-Puig, Walter H.F. Smith

Thu, Sep 27 2018, 18:00 - 20:00 - Foyer, Salao Nobre & tent

Fri, Sep 28 2018, 14:00 - 15:00 - Foyer, Salao Nobre & tent

IPM_001 - S6 P4 GPP: Fully Focused Delay-Doppler Processing applied on RAW and RMC data-Preliminary results

Eduard Makhoul (isardSAT), Mònica Roca (isardSAT), Roger Escola (isardSAT), Albert Garcia-Mondéjar (isardSAT), Gorka Moyano (isardSAT), Pablo Garcia (isardSAT), Marco Fornari (RHEA/ESTEC), Mieke Kuschnerus (ESTEC/ESA), Robert Cullen (ESTEC/ESA)

IPM_002 - A trade-off analysis of Fully Focused SAR processing algorithms for high PRF altimeters

Michele Scagliola (Aresys), Pietro Guccione (Politecnico di Bari)

IPM_003 - Can fully-focused or unfocused SAR delay doppler altimeter range data provide enhanced detection of coastal currents?

Hui Feng (University of New Hampshire), Alejandro Egido (NOAA – Laboratory for Satellite Altimetry), Doug Vandemark (University of New Hampshire), Claire Dufau (CLS Space Oceanography, Toulouse)

IPM_004 - Impact of the Sentinel-3 SRAL PTR Width Drift on the L2 Marine Measurement

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

IPM_005 - Sea State Climate Change Initiative: first steps of the Algorithm Development Team

Marcello Passaro (DGFI-TUM), Graham D Quartly (Plymouth Marine Laboratory), Yves Quilfen (Ifremer), Monica Roca (Isardsat), Pierre Thibaut (CLS), Fabrice Ardhuin (Laboratoire d'Oceanographie Physique et Spatiale (LOPS), Univ. Brest, CNRS, Ifremer), Craig Donlon (European Space Agency ESTEC/EOP-SME), Paolo Cipollini (Telespazio VEGA UK for ESA Climate Office ECSAT), Ellis Ash (Satellite Oceanographic Consultants)

IPM_006 - Performance of ICE-1 vs ICE-3 in retrieving water levels over rivers with Jason-2

Taina Conchy (UEA), Adrien Paris (CLS), Stéphane Calmant (IRD), Joécila Santos da Silva (UEA)

IPM_007 - Validation of 400+ SARAL (ICE-1) water level series over rivers

Joécila Santos da Silva (UEA), Daniel Medeiros Moreira (CPRM), Taina Conchy (UEA), Stéphane Calmant (IRD), Adrien Paris (CLS)

IPM_008 - Evaluation of retracker bias due to waveform fitting method

Chris Ray (Saint Mary's College of California/isardSAT), Monica Roca (isardSAT), Eduard Makhoul Varona (isardSAT)

IPM_009 - Reprocessing of the Poseidon-1 French Altimeter

Pierre Thibaut (CLS), Hélène Roinard (Collecte Localisation Satellite), Nicolas Picot (CNES), Thierry Guinle (CNES)

IPM_010 - Calibration Data for Retracking TOPEX Data

Philip Callahan (Jet Propulsion Laboratory), Jean-Damien Desjonqueres (Jet Propulsion Laboratory), Shailen Desai (Jet Propulsion Laboratory), Matthieu Talpe (Jet Propulsion Laboratory), Joshua Willis (Jet Propulsion Laboratory)

Outreach, Education and Altimetric Data Services

Session chairs: Jessica Hausman, Vinca Rosmorduc, Margaret Srinivasan

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ODS_001 - NOAA Scientific Data Stewardship for Ocean Surface Topography Mission (OSTM)/Jason-2 and Jason-3 Products

Yongsheng Zhang (NCEI/NESDIS/NOAA), Xuepeng Zhao (NCEI/NESDIS/NOAA), huai-min Zhang (NCEI/NESDIS/NOAA)

ODS_002 - CLASH Capteurs de Lycéens pour la calval d'un satellite Hydrométrique

Martine Bousquet (lycée charles de gaulle), Stephane Ccalmant (LEGOS - CNRS)

ODS_003 - Overview of New "Jason-Series Missions Applications Program"

Annette deCharon (ODYSEA LLC), Leslie Smith (Your Ocean Consulting LLC), Margaret Srinivasan (Jet Propulsion Laboratory)

ODS_004 - Access to Sentinel-3 Marine Center data

Bruno Lucas (HE Space/EUMETSAT), Remko Scharroo (EUMETSAT), Carolina Nogueira Loddo (EUMETSAT), Cristina Martin-Puig (EUMETSAT), Salvatore Dinardo (HE Space/EUMETSAT), Vincenzo Santacesaria (EUMETSAT), Melad Nassar (CS/EUMETSAT), Ilaria Parodi (SCISYS/EUMETSAT)

ODS_005 - CTOH altimetry products (L1 to L4) for ocean, ice and continental surfaces applications

Sara Fleury (LEGOS/CTOH), Florence Birol (LEGOS/CTOH), Fabien Blarel (LEGOS/CTOH), Denis Blumstein (LEGOS/CNES), Frédéric Frappart (LEGOS/CTOH), Kévin Guerreiro (LEGOS/CTOH), Fabien Léger (LEGOS/CTOH), Rosemary Morrow (LEGOS/CTOH), Fernando Niño (LEGOS/CTOH)

ODS_006 - Goodbye FTP, How to Access Data at PO.DAAC

Jessica Hausman (JPL)

Precision Orbit Determination

Session chairs: Sean Bruinsma, Alexandre Couhert, Frank Lemoine

Thu, Sep 27 2018, 18:00 - 20:00 - Foyer, Salao Nobre & tent

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POD_001 - On the long-term stability of altimetry satellites orbits
Sergei Rudenko (DGFI-TUM), Denise Dettmering (DGFI-TUM), Mathis Bloßfeld (DGFI-TUM), Saskia Esselborn (GFZ), Tilo Schöne (GFZ)

POD_002 - Assessment of Orbit Quality through the SSH calculation Towards GDR-F orbit standards
Annabelle Ollivier (CLS), Maeva Dalila (CLS), Alexandre Couhert (CNES), Nicolas Picot (CNES)

Quantifying Errors and Uncertainties in Altimetry data

Session chairs: Michael Ablain, Joel Dorandeu, Remko Scharroo

Thu, Sep 27 2018, 18:00 - 20:00 - Foyer, Salao Nobre & tent

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ERR_001 - Inherent uncertainties within altimetric Global Mean Sea Level time series

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

ERR_002 - Estimating Trend and Acceleration Uncertainties of Global Mean Sea Level Evolution over the 25-Year Altimetry Era

Michael Ablain (CLS), Lionel Zawadzki (CLS), Rémi Jugier (CLS), Benoit Meyssignac (LEGOS), Anny Cazenave (LEGOS), Nicolas Picot (CNES)

ERR_003 - Estimating altimetry Mean Seal Level trend uncertainties in coastal areas

Lionel Zawadzki (CLS), Rémi Jugier (CLS), Michaël Ablain (CLS), Florence Birol (LEGOS), Benoît Meyssignac (LEGOS), Anny Cazenave (LEGOS)

ERR_004 - On the resolution of ocean altimetry maps

Maxime Ballarotta (CLS), Clement Ubelmann (CLS), Marie-Isabelle Pujol (CLS), Guillaume Taburet (CLS), Florent Fournier (CLS), Jean-Francois Legeais (CLS), Yannice Faugère (CLS), Antoine Delepoulle (CLS), Dudley Chelton (Oregon State University), Gerald Dibarboure (CNES), Nicolas Picot (CNES)

ERR_005 - Altimetric wavenumber spectra: noise floors and resolution capability

Oscar Vergara (LEGOS/CNRS), Rosemary Morrow (LEGOS), Isabelle Pujol (CLS Space Oceanography), Gerald Dibarboure (CNES), Clement Ubelmann (CLS Space Oceanography)

ERR_006 - Error and Uncertainties in Wideband Signals of Opportunity (SoOp) Altimetry

Soon Chye Ho (Purdue University), Rashmi Shah (Jet Propulsion Lab), James L. Garrison (Purdue University), Zhijin Li (Jet Propulsion Lab)

ERR_007 - How Sentinel-3 tandem phase contributes to Sentinel-3 error budget

Sylvie Labroue (CLS), Matthias Raynal (CLS), Pierre Féménias (ESA), François Boy (CNES), Franck Borde (ESA)

ERR_008 - Validation of Icesat Measurements over the Amazon River

Daniel Medeiros Moreira (CPRM), Stéphane Calmant (LEGOS/IRD), Félix Perosanz (GET/CNES), Jean-François Cretaux (LEGOS/CNES), Adrien Paris (CLS), Joécila Santos da Silva (UEA), Frédérique Seyler (Espace/IRD), Otto Rotunno Filho (UFRJ)

ERR_009 - Uncertainty Characterization with FRM Standards for Satellite Altimetry Calibration: Lessons from the past and roadmap to the future.

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

Others (poster only)

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

Thu, Sep 27 2018, 18:00 - 20:00 - Foyer, Salao Nobre & tent

OTH_001 - A SAR altimetry End-to-End simulation and processing chain

Michele Scagliola (Aresys), Luca Maestri (Aresys), Lisa Recchia (Aresys), Davide Giudici (Aresys)

OTH_002 - Sentinel-6 altimeter Level-2 Ground Prototype Processor

Thomas Moreau (CLS), Sébastien Figerou (CLS), Thomas Forgue (CLS), Jérémie Aublanc (CLS), Marco Fornari (ESA), Mieke Kuschnerus (ESA), Robert Cullen (ESA), François Boy (CNES), Gilles Tavernier (CNES), Gerard Zaouche (CNES)

OTH_003 - Linking Sea Surface Height Variations with Hydrographic Variability around the Greenland Ice Sheet to Improve Understanding of Sea Level Rise

Ian Fenty (JPL), Steve Nerem (Colorado Center for Astrodynamics Research)

OTH_004 - Performance of Sentinel-3A for the Observation of Water Level Variations of Rivers and Lakes

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

OTH_005 - Analysis of TC's wake with multisensors observations and analytical model

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

OTH_006 - Analyzing Oceanic Turbulence Using Structure Functions and Advanced Turbulence Theories via Satellite Altimetry

Boris Galperin (University of South Florida)

OTH_007 - On the zonal wavenumber-frequency spectra of SSH

Uriel Zajaczkovski (Woods Hole Oceanographic Institution), J. Thomas Farrar (Woods Hole Oceanographic Institution), Steven R. Jayne (Woods Hole Oceanographic Institution), Theodore S. Durland (Oregon State University)

OTH_008 - Satellite altimetry and current-meter velocities in the Malvinas Current: Volume transport and modes of variations at 44.7°S.

Ramiro Ferrari (Centro de Investigaciones del Mar y la Atmósfera.), Martin Saraceno (Centro de Investigaciones del Mar y la Atmósfera.), Guillermina F. Paniagua (Centro de Investigaciones del Mar y la Atmósfera.), Christine Provost (LOCEAN)

OTH_009 - Optimal SSH Mapping for Eddies and Mesoscale Currents

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

OTH_010 - Coastally trapped intra-seasonal waves along African coasts: an attempt to estimate their thermal impacts

Alban Lazar (LOCEAN-IPSL-UPMC), Sane Badara (LPAOSF-ESP-UCAD), Malick Wade (LSAO, UGB), Léa Poli (LOCEAN-IPSL-UPMC)

OTH_011 - Estimation of vertical velocities associated with large scale dynamics in the Atlantic ocean.

Alban Lazar (LOCEAN-IPSL, Sorbonne Université), Magnim Gnamah (LOCEAN-IPSL, Sorbonne Université), Siny Ndoye (LPAOSF-ESP-UCAD)

OTH_012 - Investigating the efficiency of satellite altimetry to reproduce water levels variability in various coastal regions

Edward Salameh (LEGOS), Antoine Soloy (jet propulsion laboratory), Frédéric Frappart (Observatoire Midi Pyrénées), Imen Turki (Morphodynamique Continentale et Côtière (M2C)), Benoit Laignel (Morphodynamique Continentale et Côtière (M2C))

Application development for Operations

Session chairs: Gerald Dibarboure, Gregg Jacobs, Carolina Nogueira Loddo, Joseph Sienkiewicz

Thu, Sep 27 2018, 18:00 - 20:00 - Foyer, Salao Nobre & tent

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APOP_001 - On the assimilation of high frequency altimeters wave data in coastal wave model

Lotfi Aouf (Division Marine et Océanographie Météo-France), Alice Dalphinet (Meteo-France), Sergei Badulin (Shirshov Institute of Oceanography)

APOP_002 - On the update of swell dependency for SAR mode altimetry of Sentinel-3

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

APOP_003 - A new 25 year mesoscale eddy trajectory atlas on AVISO

Antoine Delepoulle (cls), Yannice Faugere (cls), Dudley Chelton (OSU)

APOP_004 - Ocean meso scale in the Copernicus Marine Environment Monitoring Service global ocean eddy-resolving physical analysis, forecasting and reanalysis

Yann Drillet (Mercator Océan), Jean-Michel Lellouche (Mercator Océan), Romain Bourdallé-Badie (Mercator Océan), Olivier Le Galloudec (Mercator Océan), Eric Greiner (CLS), Gilles Garric (Mercator Océan), Charly Regnier (Mercator Océan), Marie Drevillon (Mercator Océan), Clement Bricaud (Mercator Océan)

APOP_005 - An interactive website for enhancing the Open-Loop Tracking Command (OLTC) of conventional altimeters for inland waters observation

Sophie Le Gac (CNES), François Boy (CNES), Nicolas Picot (CNES), Denis Blumstein (LEGOS/Univ. Toulouse/CNES/CNRS/IRD), Sylvain Biancamaria (LEGOS/Univ. Toulouse/CNES/CNRS/IRD), Jean-François Crétaux (LEGOS/Univ. Toulouse/CNES/CNRS/IRD), Stéphane Calmant (LEGOS/Univ. Toulouse/CNES/CNRS/IRD), Manon Verdier (NOVELTIS), Franck Borde (ESA/ESTEC), Pierre Féménias (ESA/ESRIN)

APOP_006 - 4DVAR Assimilation of simulated wide-swath altimeter data into a high resolution ocean model

Hans Ngodock (NRL), Matthew Carrier (NRL), Scott Smith (NRL)

APOP_007 - Value added Sentinel-3A sea level products by the Marine Altimetry L2P-L3 Service available since June 2017

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

APOP_008 - Satellite altimeter combined measurements and local persistent small-scale ocean-atmosphere signatures

Yves Quilfen (LOPS/IFREMER), Bertrand Chapron (LOPS/IFREMER)

APOP_009 - Jason-2 and Jason-3 Near-Real Time Products Latency over the Past Year

Donald Richardson (Columbus Technology), David Donahue (NOAA)

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

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

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CVL_001 - The progress and outlook of the international cooperation program on satellite altimeter calibration between China-Greece

Xinghua Zhou (First Institute of Oceanography, State Oceanic Administration,Qingdao), Lei Yang (First Institute of Oceanography, State Oceanic Administration,Qingdao)

CVL_002 - Calibration results of multiple satellite altimetry missions from Qianliyan permanent Cal/Val facilities

Lei Yang (First Institute of Oceanography, State Oceanic Administration,Qingdao), Xinghua Zhou (First Institute of Oceanography, State Oceanic Administration,Qingdao)

CVL_003 - A new inverted echo sounder for satellite altimetry calibration and validation.

Benoit Legresy (Climate Science Centre, CSIRO Oceans and Atmosphere, Hobart, Tasmania, Australia), Christopher Watson (School of Technology, Environments and Design, University of Tasmania, Hobart, Tasmania, Australia)

CVL_004 - Assessment of optimal coastal altimetric corrections in a flat coastal environment around the Aix island sea-level observatory, France

Laurent Testut (LIENSs/LEGOS), Maryia Velikova (LIENSs), Valérie Ballu (LIENSs), Pascal Bonnefond (Obserbatoire de Paris / SYRTE), Olivier Laurain (OCA/Géoazur), Xavier Bertin (LIENSs)

CVL_005 - In situ calibration of satellite altimetric missions at the German Bight and Baltic Sea coasts

Luciana Fenoglio (University of Bonn), Bernd Uebbing (University of Bonn), Salvatore Dinardo (Eumetsat), Christopher Buchhaupt (Darmstadt Technical University), Remko Scharroo (Eumetsat), Jürgen Kusche (University of Bonn), Joanna Staneva (Helmholtz-Zentrum Geesthacht), Matthias Becker (Darmstadt Technical University), Jerome Benveniste (ESA/ESRIN)

CVL_006 - The performance of satellite altimetry currents in a wide continental shelf

Loreley Lago (INIDEP), Martin Saraceno (Centro de Investigaciones del Mar y la Atmósfera (CIMA) CONICET/UBA), Patricia Martos (INIDEP), Raul Guerrero (INIDEP), Alberto Piola (Departamento de Oceanografía, Servicio de Hidrografía Naval (SHN)), Christine Provost (Laboratoire d'Océanographie et du Climat: Experimentation et Approches Numériques), Guillermina Paniagua (Centro de Investigaciones del Mar y la Atmósfera (CIMA) CONICET/UBA), Ramiro Ferrari (Centro de Investigaciones del Mar y la Atmósfera (CIMA) CONICET/UBA), Camila Artana (Laboratoire d'Océanographie et du Climat: Experimentation et Approches Numériques)

CVL_007 - Cal/Val activities of satellite altimetry for Hydrology in Brazil

Daniel Moreira (CPRM- Geological Survey of Brazil), Stéphane Calmant (IRD/LEGOS), Felix Perosanz (CNES/GRGS), Jean-François Cretaux (CNES/LEGOS), Joecila Silva (UEA), Adrien Paris (CLS), Otto Rotunno Filho (COPPE/UFRJ), Pierre-André Garambois (INSA), Bernardo Oliveira (CPRM- Geological Survey of Brazil), Fábio Costa (CPRM- Geological Survey of Brazil)

CVL_008 - Evolution of the performances of radar altimetry missions from ERS-2 to Sentinel-3A over : the example of the Inner Niger Delta

Cassandra Normandin (UMR CNRS 5805 EPOC), Frédéric Frappart (GET/OMP/LEGOS), Adama Telly Diepkilé (DER Math-Informatique), Vincent Marieu (EPOC, UMR 5805), Eric Mougin (GET), Fabien Blarel (LEGOS), Bertrand Lubac (EPOC, UMR 5805), Nadine Braquet (IRSTEA/IRD), Abdramane Ba (LOSSA)

CVL_009 - Relative range bias drifts revealed by a multi-mission crossover analysis: from TOPEX to Sentinel-3

Denise Dettmering (Deutsches Geodätisches Forschungsinstitut der Technischen Universität München (DGFI-TUM)), Christian Schwatke (Deutsches Geodätisches Forschungsinstitut der Technischen Universität München (DGFI-TUM))

CVL_010 - Monitoring Jason-3 sea surface height measurement stability for global and regional sea level estimates

Brian Beckley (SGT Inc./NASA GSFC), Xu Yang (SGT Inc.), Gary Mitchum (University of South Florida), Richard Ray (NASA GSFC), Frank Lemoine (NASA GSFC), Nikita Zelensky (SGT Inc.), Bryant Loomis (NASA GSFC)

CVL_011 - A new CAL/VAL proposition based on the sea level budget in the center of mass.

Alejandro Blazquez (LEGOS-CNES), Benoit Meyssignac (LEGOS/CNES), Jean Michel Lemoine (CNES), Alexandre Couhert (CNES), Flavien Mercier (CNES)

CVL_012 - Jason-3 and Jason-2 mission performance

Hélène Roinard (CLS), Sabine PHILIPPS (CLS), Nicolas PICOT (CNES)

CVL_013 - Results from Inter-Satellite and Independent Calibration and Validation for Jason-3

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

CVL_014 - Calibration and Validation of Jason-2 over the First Full Cycle of the Long-Repeat Orbit

Matthieu Talpe (Jet Propulsion Laboratory), Jean-Damien Desjonqueres (Jet Propulsion Laboratory), Shailen Desai (Jet Propulsion Laboratory), Bruce Haines (Jet Propulsion Laboratory)

CVL_015 - Calibration and Validation of Reprocessed TOPEX Geophysical Data Records

Shailen Desai (Jet Propulsion Laboratory), Philip Callahan (Jet Propulsion Laboratory), Jean-Damien Desjonqueres (Jet Propulsion Laboratory), Bruce Haines (Jet Propulsion Laboratory), Matthieu Talpe (Jet Propulsion Laboratory), Joshua Willis (Jet Propulsion Laboratory), Glenn Shirtliffe (Jet Propulsion Laboratory), Nicolas Picot (Centre Nationale des Etudes Spatiales), Thierry Guinle (Centre Nationale des Etudes Spatiales), Helene Roinard (Collecte Localisation Satellites), Michael Ablain (Collecte Localisation Satellites)

CVL_016 - Global Ocean Data Quality Assessment of SARAL/AltiKa

GHITA JETTOU (CLS)

CVL_017 - Sentinel-3A mission : a high quality data set for altimetry over ocean

Matthias Raynal (CLS), Sylvie Labroue (CLS), Pierre Féménias (ESA/ESRIN), Scharoo Remko (EUMETSAT)

CVL_018 - A new altimetry data validation approach based on Data Mining and Machine learning techniques

Romain Bergougnoux (NOVELTIS), Sophie Le Gac (CNES), Charlotte Garcia (CNES), Eric Jeansou (NOVELTIS), Mathilde Cancet (NOVELTIS), Florence Toublanc (NOVELTIS), Sylvain Brunato (NOVELTIS)

The Geoid, Mean Sea Surfaces and Mean Dynamic Topography

Session chairs: Ole B. Andersen, Yannice Faugere

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GEO_001 - The DTU18 MSS Mean Sea Surface – Technical description

Ole Baltazar Andersen (Dr), Per Knudsen (DTU Space - Denmark), Lars Stenseng (DTU Space)

GEO_002 - Evaluation of two years of Sentinel-3A and first Sentinel-3B and impact of and on Mean Sea Surfaces and ocean tide corrections

Ole Baltazar Andersen (Dr), Heidi Randall (Dr)

GEO_003 - Improvements and limitations of recent mean sea surface models: importance for Sentinel-3 and SWOT

Marie Isabelle Pujol (CLS), Philippe Schaeffer (CLS), Yannice Faugère (CLS), François-Xavier Davanne (CLS), Gerald Dibarboure (CNES), Nicolas Picot (CNES)

Instrument Processing: Propagation, Wind Speed and Sea State Bias

Session chairs: Shannon Brown, Estelle Obligis

Thu, Sep 27 2018, 18:00 - 20:00 - Foyer, Salao Nobre & tent

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IPC_001 - Progress in the Wet Tropospheric Correction for Altimetry: Jason-3 to Sentinel-6 and Beyond
Shannon Brown (JPL), Tanvir Islam (JPL)

IPC_002 - A Wet Tropospheric Correction for Global Mean Sea Level application computed from CM SAF FCDR Microwave Imager Radiances
Bruno Picard (CLS), Mickaël Ablain (CLS), Benoît Meyssignac (LEGOS), Rémy Roca (LEGOS)

IPC_003 - Improving the continuity of the Jason SSB time-series
Ngan Tran (CLS), Gérald Dibarboure (CNES), Nicolas Picot (CNES)

IPC_004 - Modelling the height dependence of the wet path delay using ERA5 model-level fields
Telmo Vieira (University of Porto, Faculty of Sciences), M. Joana Fernandes (University of Porto, Faculty of Sciences), Clara Lázaro (University of Porto, Faculty of Sciences)

IPC_005 - Characteristics of atmospheric attenuation events for Ka-band altimetry
Bruno Picard (CLS), Marie-Laure Frery (CLS), Nicolas Picot (CNES), Gérald Dibarboure (CNES), Nathalie Steunou (CNES)

Tides, internal tides and high-frequency processes

Session chairs: Loren Carrere, Florent Lyard, Richard Ray

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TID_001 - Unstructured Ocean Loading Atlas
Damien Allain (OMP/LEGOS), Pascal Gégout (GET - CNRS), Jean-Paul Boy (EOST-IPGS), Florent Lyard (LEGOS - CNRS)

TID_002 - A validation of FES2014 tidal currents using High Frequency Radars data on the US East Coast
Loren Carrere (CLS), Florianne Sailly (CLS), Florent Lyard (LEGOS)

TID_003 - Turning on the tides in the global CMEMS ocean model: sensitivity to numerical choices
Romain Bourdalle-Badie (mercator ocean), Jerome Chanut (mercator ocean), Loren Carrere (CLS), Florent Lyard (Legos), Benoit Tranchant (CLS), Yann Drillet (mercator ocean)

TID_004 - An updated EOT model: first impressions from the North Sea
Gaia Piccioni (DGFI-TUM), Denise Dettmering (DGFI-TUM), Christian Schwatke (DGFI-TUM), Wolfgang Bosch (DGFI-TUM), Florian Seitz (DGFI-TUM)

TID_005 - A new set of in-situ tidal constants based on the GESLA dataset
Gaia Piccioni (DGFI-TUM), Denise Dettmering (DGFI-TUM), Wolfgang Bosch (DGFI-TUM), Florian Seitz (DGFI-TUMM)

TID_006 - Tidal analysis of Cryosat-2 data over ice-free regions of the Arctic Ocean
Richard Ray (NASA/GSFC)

TID_007 - The mode-2 M2 internal tide
Zhongxiang Zhao (University of Washington)