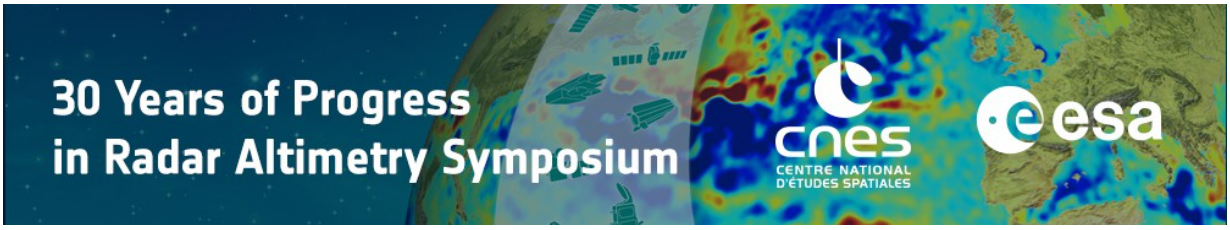

30 Years of Progress in Radar Altimetry Symposium

Le Corum | Place Charles de Gaulle | Montpellier | France

2-7 September 2024

Detailed Programme

2024-09-02

30 Years of Progress in Radar Altimetry Symposium
Le Corum | Place Charles de Gaulle | Montpellier | France
2-7 September 2024

Detailed Programme
(2024-09-02)

Day 1, MONDAY 2 September 2024, Morning

08:00	09:00	60	**Symposium Registration (also on Sunday from 15:00 to 18:00)**		
Pasteur Auditorium: SYMPOSIUM PLENARY SESSION - Opening, keynote presentations					
Chairs: Jérôme Benveniste (Formerly, ESA), Pascal Bonnefond (Observatoire de Paris, SYRTE, France)					
09:00	09:10	10	Introduction and Scope of the Symposium	Jérôme Benveniste François Pierrot	Formerly, ESA U. Montpellier - Vice-Président, International Relations
09:10	09:20	10	Welcome to Montpellier	Clare HART (Delegate for Mayor of Montpellier)	Michaël Delafosse, Mayor of Montpellier President of Montpellier Méditerranée Métropole
09:20	09:30	10	Welcome from ESA	Rune Floberghagen	ESA
09:30	09:40	10	Welcome from CNES	Yannice Faugère & Delphine Leroux (on behalf of Selma Cherchali)	CNES, FR
09:40	10:00	20	Keynote: The evolution of radar altimetry from Seasat to SWOT Lee-Lueng Fu Rosemary Morrow Jean-François Crétaux Tamlin Pavelski		 NASA/JPL, USA LEGOS, FR LEGOS, FR, UNC, USA
10:00	10:20	20	Keynote: 30 years of altimetry-based sea level measurements at global, regional and local scales : what have we learned ? what are the remaining gaps ? Anny Cazenave Steven Nerem		 LEGOS, FR U. Colorado, USA
10:20	10:40	20	Keynote: From mesoscale to small-scale ocean variability through satellite altimetry and multi-platform integration Laura Gomez-Navarro Louise Rousselet Ananda Pascual Francesco d'Ovidio and co-authors		 IMEDEA(CSIC-UIB), ES LOCEAN, FR IMEDEA(CSIC-UIB), ES LOCEAN, FR
10:40	11:00	20	Keynote: Ocean waves - Altimetry and the many scales of the ocean surface elevation: wave heights, wave groups, skewness, and sea level "noise" - Global review on the assimilation of altimetry wave data in operational wave models - Wave energy near the coast from high-resolution Altimetry Fabrice Ardhuin Lotfi Aouf Sonia Ponce de León		 LOPS, FR Meteo-Frrance, FR CENTEC, PT
11:00	11:30	30	**Coffee Break**		
11:30	11:50	20	Keynote: Geodesy High resolution altimetric gravity and mean sea surface model development over the last 30 years from geodetic mission altimetry (with an outlook towards SWOT) Ole Andersen David Sandwell Philippe Schaeffer		 DTU Space, DK SIO, USA CLS, FR
11:50	12:10	20	Keynote: SAR and FFSAR Altimetry - Fourteen years of SAR Altimetry: a summary overview - How FFSAR changed the way we think about altimetry Walter HF Smith Alejandro Egido		 NOAA, USA ESA
12:10	12:30	20	Keynote: Rivers and Lakes - Progress towards satellite and model requirements to capture water propagation in Earth's rivers - 30 years of progress in monitoring lakes Cédric David Jean-François Crétaux		 JPL, USA LEGOS/CNES, FR
12:30	13:00	30	Keynote: Altimetry for Cryosphere and Polar Ocean - A 30-year Radar Altimetry Record of Ice Sheet Elevation and Mass Change - A 30-year Radar Altimetry Record of Sea Ice - 30 Years of Arctic Sea Level from Radar Altimetry: Assessing the Climate Change in the Arctic Region Malcolm McMillan Sara Fleury Stine Kildegaard Rose		 CPOM, UK LEGOS, FR DTU Space, DK
13:00	14:30	90	**Lunch**		

Day 1, MONDAY 2 September 2024, Afternoon

Pasteur Auditorium: Session 2.1 - Open Ocean

Co-chairs: Eric Leuliette, Rosemary Morrow

14:30	14:50	20	How much ENSO-related SSH predictability does ocean dynamic persistence provide in the tropical Pacific Ocean? Lee T1, Wang O1 1 Nasa Jet Propulsion Laboratory	Tong Lee	Nasa Jet Propulsion Laboratory
14:50	15:10	20	The Nordic Seas Overturning Circulation: Three Decades of Satellite Altimetry Insights and Future Perspectives Chafik L1 1 Stockholm University	Léon Chafik	Stockholm University
15:10	15:30	20	Kuroshio Extension's Role in the Mid-Latitude North Pacific Climate Variability based on 30-Year Satellite Altimetry Measurements Qiu B1, Chen S1 1 University of Hawaii at Manoa	Bo Qiu	University of Hawaii at Manoa
15:30	15:50	20	Climate modes and interbasin interaction enhance the heat and height extremes near the east coasts of South Indian Ocean in Recent Decades Han W1 1 The University Of Colorado	Weiqing Han	University of Colorado
15:50	16:10	20	Global Ocean spectral slopes : from 1D nadir altimetry to 2D with SWOT Vergara O1,2, Morrow R2, Chevrier R1,2, Dibarboure G3, Picot N3 1 CLS, 2 LEGOS / CNRS / CNES / IRD / Université de Toulouse, 3 CNES	Oscar Vergara	CLS
16:10	16:40	30	**Coffee Break**		

Pasteur Auditorium: Session 2.2 - Open Ocean

Co-chairs: Eric Leuliette, Rosemary Morrow

16:40	17:00	20	Observing ocean mesoscale eddies : a review from the Geosat era through to SWOT Morrow R1 1Legos / CNRS / University Toulouse III	Rosemary Morrow	LEGOS/CNRS
17:00	17:20	20	Global trends in Eddy Kinetic Energy over the altimetric era: are the oceans becoming more energetic? Barceló-Llull B1, Rosselló P1, Combes V1, Sanchez-Roman A1, Pujol M2, Pascual A1 1 IMEDEA (CSIC-UIB), 2 CLS	Bàrbara Barceló-Llull	IMEDEA (CSIC-UIB)
17:20	17:40	20	Lagrangian characterization of the Southwestern Atlantic from a dense surface drifter deployment Saraceno M1, Bodnariuk N1, Ruiz-Etcheverry L1, Berta M2 1 CIMA/CONICET-UBA, 2 CNR-ISMAR	Martin Saraceno	CIMA/CONICET-UBA
17:40	18:00	20	Application of SWOT data in oceanic fine-scale dynamics in the northwestern Pacific and South China Sea Miao M1, Zhang Z1, Qiu B2, Zhao W1, Tian J1 1 Ocean University Of China, 2 University of Hawaii	Mingfang Miao	Ocean University of China
18:00	18:20	20	Improving the Mesoscale Eddy Characterization Through Combined Approach with Along-Track Data and Numerical Ohh C1, Gaube P1, Early J2, Lilly J3 1 Applied Physics Laboratory, University of Washington, 2 NorthWest Research Associates, 3 Planetary Science Institute	Chan-Ye Ohh	Applied Physics Laboratory of the University of Washington
18:20	19:30	70	**ice breaker reception**		

Day 1, MONDAY 2 September 2024, Afternoon

Einstein Auditorium: Session 6.1 - Inland Water

Co-chairs: Cédric David, Adrien Paris

14:30	14:50	20	Current Status of SWOT Performance over Rivers Pavelsky T1 1University of North Carolina	Tamlin Pavelsky	University of North Carolina
14:50	15:10	20	Improving river networks hydrological-hydraulic models with SWOT and multi-satellite data Larnier K1, Garambois P2, Emery C3, Pujol P2, Monnier J4, Gal L1,Paris A1, Yesou H5, Ledauphin T5, Calmant S1 1Hydromatters, 2INRAE, UMR RECOVER, Aix-Marseille Univ., 3CS-group, 4INSA Toulouse, 5SERTIT-Icube, Strasbourg	Pierre-andré Garambois	Inrae, Recover, Aix-marseille University
15:10	15:30	20	Preliminary assessment of SWOT L2 River products: case of the canalized Rhine River (France) Ledauphin T1, Azzoni M1, maxant J1, Larnier K4, Amzil S1, Garambois P3, Fjørtoft R2, Yésou H1 1Sertit-Icube, Unistra, 2CNES, 3INRAE, 4Hydro-Matters	Hervé Yésou	Sertit-Icube, Unistra
15:30	15:50	20	First results of the Surface Water Ocean Topography (SWOT) observations to rivers elevation profiles in the Cuvette Centrale of the Congo Basin Normandin C1, Frappart F, Bourrel L, Zeiger P, Salameh E, Peña Luque S, Ygorra B, Betbeder J, Gond V, Kitambo B, Papa F, Riazanoff S, Wigneron J 1ISPA/INRAE	Cassandra Normandin	ISPA/INRAE
15:50	16:10	20	Navigating Uncertainties: Optimizing SWOT Assimilation for River Discharge Estimation Verma K1, Munier S1, Boone A1, Le Moigne P1 1CNRM, Météo-France, CNRS	Kaushlendra Verma	CNRM, Météo-France, CNRS
16:10	16:40	30	**Coffee Break**		

Einstein Auditorium: Session 6.2 - Inland Water

Co-chairs: Cédric David, Tamlin Pavelsky

16:40	17:00	20	The Operational Framework of the Surface Water and Ocean Topography River Discharge Oubanas H1,5, Malaterre P1, Durand M2, Gleason C3, Larnier K4 1INRAE, 2The Ohio State University, 3The University of Massachusetts Amherst, 4CS Group, 5NASA Jet Propulsion Laboratory	Hind Oubanas	INRAE
17:00	17:20	20	SWOT HR Lake Products and Global Performance Validation Pottier C, Fjørtoft R1, Desroches D, Picot N, Cretaux J, Delhoume M, Labat-Allée L, Battude M, Cazals C 1CNES	Roger Fjørtoft	CNES
17:20	17:40	20	First evaluation of real SWOT observations for monitoring water storage changes in lakes and reservoirs in Sweden Duan Z1, Caizaguano D1 1Department of Physical Geography and Ecosystem Science, Lund University	Duan Zheng	Lund University
17:40	18:00	20	Validation of the SWOT cross-over calibration over large lakes Vayre M1, Renou J1, Dibarboure G2 1CLS, 2CNES	Maxime Vayre	CLS
18:00	18:20	20	Insights into the Sensitivity of SWOT KaRIn Measurements to Lake Ice and Overlying Snow Properties Mugunthan J1, Duguay C1, Jones B2, Murfitt J1, Zakharova E3 1H2O Geomatics, 2University of Alaska Fairbanks, 3EOLA	Jaya Sree Mugunthan	H2O Geomatics
18:20	19:30	70	**ice breaker reception**		

Day 1, MONDAY 2 September 2024, Afternoon

Barthez: Session 7.1 - Cryosphere

Co-chairs: Jerome Bouffard, Mai Winstrup

14:30	14:50	20	A 30-year Radar Altimetry Record of Ice Sheet Elevation and Mass Change McMillan M1, Maddalena J1, Wassink R1, Phillips J1, Muir A2, Otosaka I3, Slater T3, Shepherd A3 1CPOM Lancaster University, 2UCL, 3Northumbria University	Malcolm McMillan	CPOM Lancaster University
14:50	15:10	20	30-Year Lake Ice Thickness Time Series from Radar Altimetry Data Mangilli A1, Duguay C2,3, Asfour K1, Murfitt J2,3, Mugunthan J2,3, Amraoui S1,4, Moreau T1, Thibaut P1, Albergel C5, Donlon C6, Egido A5, Bouffard J6 1CLS, 2H2O geomatics , 3University of Waterloo, 4ESA ECSAT, 5ESA ESTEC, 6ESA ESRIN	Anna Mangilli	CLS
15:10	15:30	20	CryoSat Mission: 14 years of CalVal and Science for Earth's Cryosphere—and more Di Bella A1, Fornari M2, Hoyos Ortega B2, Casal T2, Bouffard J1, Parrinello T1 1ESA, 2ESA 1Sertit-Icube, Unistra, 2CNES, 3INRAE, 4Hydro-Matters	Alessandro Di Bella	ESA-ESRIN
15:30	15:50	20	The EOLIS dataset: Monitoring Land Ice from CryoSat-2 Swath processing Incatasciato A1, Jakob L1, Michael C1, Gourmelen N2, Bizon J1, Dubber S1, Ewart M1, Horton A1, Goss T1, Di Bella A3, Bouffard J3, Parrinello T3 1Earthwave Ltd, 2University of Edinburgh, 3ESRIN, European Space Agency	Andrea Incatasciato	Earthwave Ltd
15:50	16:10	20	Detection and Measurement of Wet and Dry Crevasses in ICESat-2 ATLAS Data and Their Role in Understanding the Progression of an Arctic Glacier Surge Herzfeld U1, Trantow T1, Middleton R1, Opfer C 1University Of Colorado Boulder 1Hydro-Matters, 2IMT, INSA-Toulouse, 3INRAE Aix-Marseille, RECOVER, 4CS GROUP, Space BU	Ute Herzfeld	University of Colorado Boulder
16:10	16:40	30	**Coffee Break**		

Barthez: Session 7.2 - Cryosphere

Co-chairs: Mal McMillan, Anna Mangilli

16:40	17:00	20	A facet-based numerical model to retrieve ice sheet topography from Sentinel-3 altimetry Aublanc J1, Borde F2, Boy F3, Yanez C3, Femenias P4 1CLS, 2ESA/ESTEC, 3CNES, 4ESA/ESRIN	Jérémie Aublanc	CLS
17:00	17:20	20	Exploiting the potential of Sentinel 3A to detect the Antarctic ice sheet grounding line Suryawanshi M1, McMillan M2 1Indian Institute Of Science, 2Lancaster University	Maya Suryawanshi	Indian Institute Of Science, Bengaluru, India
17:20	17:40	20	CRISTAL - Next Copernicus Cryosphere Altimetry Mission Duan Z1, Caizaguano D1 1Department of Physical Geography and Ecosystem Science, Lund University	Mank Enrico	Airbus
17:40	18:00	20	IRIS, an interferometric radar altimeter for cryosphere measurements Vayre M1, Renou J1, Dibarboure G2 1CLS, 2CNES	Yves Le Roy	Thales Alenia Space
18:00	18:20	20	Svalbard as a radar altimeter fiducial reference observatory Rinne E1, Landy J2, Ricker R3, Rapp O1, van der Vleuten S1 1University Centre In Svalbard Unis, 2UiT The Arctic University of Norway, 3NORCE Norwegian Research Centre	Eero Rinne	University Centre In Svalbard Unis
18:20	19:30	30	**ice breaker reception**		

Day 2, Tuesday 3 September 2024, Morning

Pasteur Auditorium: Session 2.3 - Open Ocean

Co-chairs: Barbara Barcelo-Llull, Bo Qiu

08:30	08:50	20	Evolution and new challenges for the tides corrections for HR altimetry and SWOT Lyard F3, Carrere L1, Fouchet E4, Abjean P1, Dabat M1, Tchilibou M1, Dibarboure G2 1CLS, 2CNES, 3LEGOS, 4NOVELTIS	Florent Lyard	CLS
08:50	09:10	20	Extracting Surface Signatures of Internal Tides from SWOT KARIn and JPSS VIIRS Observations over the Sulu and Celebes Seas Zhang B1, Leuliette E 1Global Science & Technology, Inc.	Bin Zhang	Global Science & Technology, Inc.
09:10	09:30	20	Towards Improved Multimission Sea Level Gridded Products Ballarotta M1, Ubelmann C, Meda G, Le Guillou F, Fablet R, Faugere Y, Pujol M, Dibarboure G 1CIs	Maxime Ballarotta	CLS
09:30	09:50	20	Analysis of High-Frequency Sea-State Variability Using SWOT Nadir Measurements and Application to Altimeter Sea State Bias Modelling Mazaleyrat E1, Tran N1, Amarouche L1, Vandemark D2, Feng H2, Dibarboure G3, Bignalet-Cazalet F3 1CLS, 2University of New Hampshire, 3Centre National d'Etudes Spatiales	Estelle Mazaleyrat	CLS
09:50	10:10	20	Characteristics and Impacts of Measurement Uncertainty in the Long-Term Sea State Record from Satellite Observations, from Coastal to Global Scales Timmermans B1, Gommenginger C1, Ollivier A2 1National Oceanography Centre (UK), 2CLS	Ben Timmermans	National Oceanography Centre (UK)
10:10	10:40	30	**Coffee Break**		
10:40	12:20	01:40	**Poster Session**		

Barthez: Round Table (in parallel with the poster session) - Women trailblazers: the present and the future of Remote Sensing Ocean and Hydrology science and engineering

Session Moderator: Luisella Giulicchi, President WIA-Europe, ESA Copernicus System Manager
Session Composition: Dr Anny Cazenave, Geodesist and Ocean Scientist, Dr Rosemary Morrow, Ocean Scientist, CTOH/LEGOS/University Toulouse & CNES Ocean Lead, Dr Estelle Obligis, Marine Applications Manager, EUMETSAT, Dr Severine Fournier, Ocean Scientist, NASA JPL/Caltech

10:40	11:20	40	The session will bring together prominent figures from diverse organizations, academia, industries, and associations to engage in a focused dialogue on the present and future of remote sensing ocean and Hydrology science and engineering. The main objective is to inspire and to discuss the current status and future development in remote sensing monitoring of the oceans and hydrology as crucial elements of the Earth system in the Climate Change.

12:20	14:00	01:40	**Lunch**

Day 2, Tuesday 3 September 2024, Afternoon

Pasteur Auditorium: Session 2.4 - Open Ocean

Co-chairs: Barbara Barcelo-Llull, Bo Qiu

14:00	14:20	20	Precipitations as Seen From Altimetry Missions: From Topex-Poseidon to Surface Water and Ocean Topography Mission, From One-Dimensional Coarse Flagging to Two-Dimensional Detailed Characterization Picard B1, Raynal M2, Dibarboure G, Brown S3, Tournadre J4 1Fluctus Sas, 2CNES, 3NASA/JPL, 4IFREMER/LOS	Bruno Picard	Fluctus Sas
14:20	14:40	20	Estimating Ocean Currents from Joint Reconstruction of Absolute Dynamic Topography and Sea Surface Temperature Through Physics Informed Deep Learning Algorithms Ciani D1, Fanelli C2, Buongiorno Nardelli B2 1CNR-Institute of Marine Sciences, 2CNR-Institute of Marine Sciences	Daniele Ciani	CNR-Institute of Marine Sciences
14:40	15:00	20	Synthesizing Nadir Altimetry and SST Using Deep Learning Improves the Resolution of Global SSH Maps Martin S1, Manucharyan G1, Klein P2 1School of Oceanography, University Of Washington, 2Jet Propulsion Laboratory, California Institute of Technology	Scott Martin	School of Oceanography
15:00	15:20	20	Assimilation of Wide Swath Satellite Altimetry to Map Geostrophic and Internal Tide Signals of the Ocean Dynamics Bellemin-laponnaz V1, Cosme E1, Le Guillou F2, Blayo E3, Ubelmann C4 1Institut des Géosciences et de l'Environnement, 2European Space Agency, 3Laboratoire Jean Kuntzmann, 4Datlas	Valentin Bellemin-Laponnaz	Institut des Géosciences et de l'Environnement
15:20	15:40	20	Cyclogeostrophic Inversion for Estimating Sea Surface Currents from SWOT Altimeter Data Bertrand V1, E V Z De Almeida V1, Le Sommer J1, Cosme E1, Boux de Casson L1 1Univ. Grenoble Alpes, CNRS, INRAE, IRD, Grenoble INP, IGE	Vadim Bertrand	IGE - CNRS
15:40	16:10	30	**Coffee Break**		

Pasteur Auditorium: Session 4.1 - Polar Ocean

Co-chairs: Alessandro Di Bella, Sara Fleury

16:10	16:25	15	A Bottom-Up Metrological Uncertainty Assessment of Sea Ice Thickness Measurements from Satellite and Non-Satellite Systems Woolliams E1, Erni T1, Behnia S1, Fleury S2, Fredensborg Hansen R3,4, Skourup H3 1National Physical Laboratory, 2CNRS, 3Department of Geodesy and Earth Observation, The National Space Institute, DTU Space, 4Department of Civil and Environmental Engineering, NTNU	Emma Woolliams	National Physical Laboratory
16:25	16:40	15	Validation and Uncertainties of a Multi Frequency Altimetry Snow Depth Product Over the Arctic Ocean Carret A1, Fleury S2, Di Bella A3, Landy J4, Lawrence I3, Laforge A2 1Serco, 2LEGOS, 3ESA, 4UIT	Alice Carret	Serco
16:40	16:55	15	TOWARDS A COMMON PROCESSING CHAIN FOR THE OPEN AND POLAR OCEAN ON SENTINEL-3: LOOKING FOR THE "MAGIC" ALONG-TRACK WEIGHTING WINDOW. Piras F1, Dinardo S2, Lucas B2, Moreau T1, Rodet L1, Nencioli F1, Smith W3 1CLS, 2EUMETSAT, 3NOAA	Fanny Piras	CLS
16:55	17:10	15	CRISTAL Sea Ice & Iceberg L2 Processing: Baseline Approach and New Developments Baker S1, García-Mondéjar A2, Brockley D1, Braakmann-Folgmann A3, Gilbert L1, Haas C4, Hendricks S4, Landy J3, Muir A1, Nandan V5, Ricker R6, Roca i Aparici M2, Stroeve J5, Tournadre J7, Tsamados M8, Scagliola M10, Bouffard J9, Cipollini P11 1UCL-Mullard Space Science Laboratory (MSSL), 2isardSAT, 3Arctic University of Norway - UiT, 4Alfred-Wegener-Institut Helmholtz-Zentrum (AWI), 5University of Manitoba, 6NORCE Norwegian Research Centre AS , 7Ifremer, 8UCL-Earth Sciences, 9ESA-ESRIN, 10RHEA for ESA, 11ESA-ESTEC	Steven G Baker	UCL-MSSL
17:10	17:25	15	Observing Wave-Affected Marginal Ice Zones in Southern Ocean by Satellite Radar Altimeter Synergy Xu S1 1Tsinghua University	Shiming Xu	Tsinghua University
17:25	17:40	15	Sea Ice Thickness Retrieval and Implications from Snow Effects Using CryoSat-2, OIB, And ICESat-2 in the Weddell Sea Zhou L1, Skourup H2, Sahra K3, Zhu W4, Xu S4, Stroeve J5 1Utrecht University, 2Technical University of Denmark, 3California Institute of Technology, 4Tsinghua University, 5University College London	Lu Zhou	Utrecht University
17:40	17:55	15	**Discussion**		

Day 2, Tuesday 3 September 2024, Morning

Einstein Auditorium: Session 6.3 - Inland Water

Co-chairs: Karina Nielsen, Christian Schwatke

08:30	08:50	20	The Bin-Space-Time (BiST) retracking method: A paradigm shift in retracking methods Tourian M1, Elmi O1, Khalili S1, Engels J1 1University of Stuttgart, Institute of Geodesy	Mohammad J. Tourian	University of Stuttgart, Institute of Geodesy
08:50	09:10	20	Fault tolerant approach to regenerate Level 1B SAR altimetry waveforms for enhancing Level 2 retrackers performance Khalili S1, Tourian M1, Elmi O1, Engels J1, Sneeuw N1 1University Of Stuttgart 1CPRM, 2GET/CNRS, 3Hydromatters, 4INRAE, RECOVER, Aix-marseille University, 5CS GROUP - France., Space Business Unit, 6LEGOS, 7IRD, 8CNES, 9IOAGA	Shahin Khalili	University of Stuttgart
09:10	09:30	20	Added values of geodetic datasets of satellite altimeters for inland water research Jiang L1, Nielsen K, Andersen O 1Southern University of Science and Technology	Liguang Jiang	Southern University of Science and Technology
09:30	09:50	20	Exploiting the Sentinel-6MF Fully Focused SAR waveforms over inland waters: Toward a new processing prototype for rivers. Daguzé J1, Calassou G1, Taburet N1, Boy F2, Yanez C2 1CLS, 2CNES	Jean-Alexis Daguzé	CLS
09:50	10:10	20	Improved inland water level measurements with Sentinel-6 Fully-Focussed SAR processing Domingo X1, Gibert F1, Molina R1, Escorihuela M1 1isardSAT	Xavier Domingo	isardSAT
10:10	10:40	30	**Coffee Break**		
10:40	12:20	01:40	**Poster Session**		

Barthez: Round Table (in parallel with the poster session) - Women trailblazers: the present and the future of Remote Sensing Ocean and Hydrology science and engineering

Session Moderator: Luisella Giulicchi, President WIA-Europe, ESA Copernicus System Manager
Session Composition: Dr Anny Cazenave, Geodesist and Ocean Scientist, Dr Rosemary Morrow, Ocean Scientist, CTOH/LEGOS/University Toulouse & CNES Ocean Lead, Dr Estelle Obligis, Marine Applications Manager, EUMETSAT, Dr Severine Fournier, Ocean Scientist, NASA JPL/Caltech

10:40	11:20	40	The session will bring together prominent figures from diverse organizations, academia, industries, and associations to engage in a focused dialogue on the present and future of remote sensing ocean and Hydrology science and engineering. The main objective is to inspire and to discuss the current status and future development in remote sensing monitoring of the oceans and hydrology as crucial elements of the Earth system in the Climate Change.
12:20	14:00	01:40	**Lunch**

Day 2, Tuesday 3 September 2024, Afternoon

Einstein Auditorium: Session 6.4 - Inland Water

Co-chairs: Adrien Paris, Angelica Tarpanelli

14:00	14:20	20	DAHITI – MONITORING OF WATER LEVELS AND WATER SLOPES SURFACE USING USING SWOT KARIN MEASUREMENTS OVER INLAND WATERS Schwatke C1, Scherer D1, Dettmering D1 1Deutsches Geodätisches Forschungsinstitut, Technical University Munich (DGFI-TUM)	Christian Schwatke	DGFI-TUM
14:20	14:40	20	OPERATIONAL LAKES AND RIVERS WATER LEVEL MONITORING IN NEAR REAL TIME USING THE SATELLITE ALTIMETRY NADIR CONSTELLATION: CONTRIBUTIONS FROM HYDROWEB AND COPERNICUS GLOBAL LAND SERVICES Taburet N1, Guilhen J1, Vayre M1, Calmettes B1, Barroso T2, Cretaux J2, Calmant S3 1CLS, 2CNES, 3LEGOS/IRD 1CPRM, 2GET/CNRS, 3Hydromatters, 4INRAE, RECOVER, Aix-marseille University, 5CS GROUP - France., Space Business Unit, 6LEGOS, 7IRD, 8CNES, 9IOAGA	Nicolas Taburet	CLS
14:40	15:00	20	TOWARDS THE PROVISION OF OPERATIONAL FRM MEASUREMENTS FOR SENTINEL-3 OVER INLAND WATER: PROCEDURES, PROTOCOLS AND ROADMAP Fouqueau V1, R Woolliams E3, Picot N4, Poisson J1, Behnia S3, Taburet N6, Renou J6, Yésou H7, Tarpanelli A8, Camici S8, Nielsen K5, Boy F4, Fjørtoft R4, Ferrari R2, J Tourian M9, Sneeuw N9, Calzas M10, Paris A11, Valladeau G1, Bonnefond P12, El Hajj M2, Catapano F13, Femenias P13 1Vortex-io, 2NOVELTIS, 3NPL, National Physical Laboratory, 4CNES, 5DTU Space, 6CLS, 7SERTIT, 8CNR-IRPI, 9GIS, Institute of Geodesy, 10DT-INSU, 11Hydro Matters, 12SYRTE, 13ESA-ESRIN	Valentin Fouqueau	Vortex-io
15:00	15:20	20	SATELLITE ALTIMETRY-BASED EXTENSION OF GLOBAL-SCALE IN SITU RIVER DISCHARGE MEASUREMENTS (SAEM) Saemian P1, Elmi O1, Riggs R2, Stroud M2, Kitambo B3, Papa F3, Allen G2, Tourian M1 1Institute Of Geodesy, University of Stuttgart, 2Department of Geosciences, Virginia Polytechnic Institute and State University, 3Laboratoire d'Etudes en Géophysique et Océanographie Spatiales (LEGOS), Université de Toulouse, CNES/CNRS/IRD/UT3	Peyman Saemian	Institute Of Geodesy
15:20	15:40	20	INNOVATIVE OFF-NADIR VALIDATION AND PROCESSING APPLIED ON HYDROLOGY THEMATIC PRODUCTS OF SENTINEL-3 LAND STM FOR PERFORMANCE ASSESSMENT OVER RIVERS Renou J1, Chapellier M1, Taburet N1, Aublanc J1, Chamayou A1, Catapano F2, Femenias P2 1CLS, 2ESA-ESRIN	Julien Renou	CLS
15:40	16:10	30	**Coffee Break**		

Einstein Auditorium: Session 6.5 - Inland Water

Co-chairs: Guy Schumann, Mohammad Tourian

16:10	16:30	20	Improving SAR Altimeter processing over inland water, through implementation of innovative processing algorithms and assessment of a new inland water data set. Results from the ESA HYDROCOASTAL project Cotton D1, Urien S2, Nielsen K3, Fenoglio-Marc L11, Bercher N4, Tarpanelli A5, Zakharova E6, Bauer-Gottwein P7, Fernandes J8, Restano M9, Benveniste J10 1SATOC, 2isardSAT, 3DTU Space, 4AltiHydroLab / QINAO, 5CNR-IRPI, 6NUIM, 7DTU Environment, 8University of Porto, 9SERCO/ESA, 10Formerly, ESA-ESRIN, 11University of Bonn Laboratory	David Cotton	SATOC
16:30	16:50	20	USING A VECTOR AUTOREGRESSIVE MODEL AND GAUGE RELATIONSHIPS TO PREDICT WATER LEVELS OF THE ODRA/ODER RIVER AT VIRTUAL SITES OF THE SENTINEL-3A SATELLITE Halicki M1, Niedzielski T1 1University Of Wrocław	Michał Halicki	University of Wrocław
16:50	17:10	20	SYNERGIES BETWEEN RADAR ALTIMETRY AND MULTISPECTRAL REFLECTANCE SIGNAL FOR RIVER DYNAMICS DETECTION AND RIVER DISCHARGE ESTIMATION: PROGRESS AND NEXT STEPS Tarpanelli A1, Filippucci P1, Sahoo D1 1CNR-IRPI	Angelica Tarpanelli	CNR-IRPI
17:10	17:30	20	EVALUATION OF RADAR AND LIDAR ALTIMETERS FOR RIVER AND LAKE WATER LEVEL, LAKE VOLUME AND RIVER DISCHARGE MONITORING IN PARTS OF INDIA Thakur P1, Dhote P1, Garg V1, Chouksey A1, Singh R1 1Indian Institute of Remote Sensing, IIRS, ISRO	Praveen K Thakur	IIRS, ISRO
17:30	17:50	20	CONGO RIVER BASIN'S HYDROCLIMATOLOGY AND ITS LINK WITH CLIMATE VARIABILITY UNRAVELED FROM SPACE storage changes in lakes and reservoirs in Sweden Papa F1, Kitambo B2,3, Paris A4, Wongchuig S5, Fleischmann A6, Tshimanga R3, Frappart F7, Tourian M8, Elmi O8, Becker M9, Paiva R10, Andriambeloson J11, Boucharel J1, Jucá Oliveira R4, Biancamaria S2, Gal L4, Calmant S1,4 1IRD/LEGOS, 2CNRS/LEGOS, 3CRREBaC, University of Kinshasa, 4Hydro-Matters, 5CNES/LEGOS, 6Mamiraua Institute, 7INRAE/ISPA, 8University of Stuttgart, 9CNRS/LIENSS, 10IPH/UFRGS, 11LGET/IOGA	Fabrice Papa	IRD/LEGOS

Day 2, Tuesday 3 September 2024, Morning

Barthez: Session 8.1 - Building the 30 Year Record

Co-chairs: Jean-Damien Desjonqueres, Estelle Obligis

08:30	08:50	20	30 YEARS OF IN SITU ALTIMETER VALIDATION: RESULTS AND PERSPECTIVES FROM THE BASS STRAIT FACILITY Watson C1,2, Legresy B3,2, Hay A1, Beardsley J2,1, Zhou B1, King M1 1University Of Tasmania, 2Integrated Marine Observing System, 3CSIRO	Christopher Watson	University of Tasmania
08:50	09:10	20	THE ESA PERMANENT FACILITY FOR ALTIMETRY CALIBRATION IN CRETE: RANGE, SIGMA0, AND SEA-SURFACE CALIBRATION WITH TRANSPONDERS, CORNER REFLECTORS AND COASTAL REFERENCE SITES Mertikas S1, Donlon C2, Piretzidis D3, Kokolakis C3, Cullen R2, Femenias P4, Fornari M2, Bouffard J4, Di Bella A4, Boy F5, Frantzis X1, Tripolitsiotis A3, Lin M6, Yang L7 1Technical University of Crete, 2European Space Agency-ESTEC, 3Space Geomatica P.C., 4European Space Agency-ESRIN, 5 Centre National d'Études Spatiales, France, 6National Satellite Ocean Application Service, 7First Institute of Oceanography	Stelios Mertikas	Technical University of Crete
09:10	09:30	20	EXTENDING THE CORSICA FACILITIES UP TO SWOT SWATH Bonnefond P1, Laurain O2, Calzas M3, Drezen C3, Fichen L3, Guillot A3, Guinle T4, Picot N4 1SYRTE, Observatoire de Paris, 2Geoazur, Observatoire de la Cote d'Azur, 3DT-INSU, 4CNES	Pascal Bonnefond	SYRTE - Observatoire de Paris
09:30	09:50	20	30 YEARS OF CALIBRATION WITH TRANSPONDERS García-Mondéjar A1, Flores de la Cruz A1, Mertikas S2, Kokolakis C2, Piretzidis D3, Mosca A4, Perticaroli S4, Lombardi F4, Cordisco L4, Pierdicca N5, Desjonqueres J6, Boy F7, Maraldi C7, Picot N7, Francis R8, Powell J13, Birks A13, Fornari M9, Donlon C10, Mavrocordatos C10, Borde F10, Di Bella A11, Bouffard J12, Femenias P12, Roca i Aparici M1 1isardSAT, 2Technical University of Crete, 3Space Geomatica, 4Radio Analog Micro Electronics, 5Sapienza University of Rome, 6Jet Propulsion Laboratory, 7Centre National D'Etudes Spatiales, 8GerSpatial, 9RHEA / ESA-ESTEC, 10ESA-ESTEC, 11RHEA / ESA-ESRIN. 12ESA-ESRIN. 13STFC RAL Space	Albert García-Mondéjar	isardSAT
09:50	10:10	20	SIGNIFICANT WAVE HEIGHT AND WIND CALIBRATION OF SENTINEL-6 MF WITH SEA-STATE OPTICAL TECHNIQUES AND GNSS INTERFEROMETRIC REFLECTOMETRY AT THE ESA PERMANENT FACILITY FOR ALTIMETRY CALIBRATION IN CRETE. Mertikas S1, Donlon C2, Collard F3, Larson K4, Williams S6, Frantzis X1, Piretzidis D5, Kokolakis C5, Tripolitsiotis A5 1Technical University of Crete, 2European Space Agency-ESTEC, 3OceanDataLab, 4Institute of Geodesy and Geoinformation, University of Bonn, 5Space Geomatica P.C., 6Marine Physics and Ocean Climate, National Oceanography Center	Stelios Mertikas	Technical University of Crete
10:10	10:40	30	**Coffee Break**		
10:40	12:20	01:40	**Poster Session**		

Barthez: Round Table (in parallel with the poster session) - Women trailblazers: the present and the future of Remote Sensing Ocean and Hydrology science and engineering

Session Moderator: Luisella Giulicchi, President WIA-Europe, ESA Copernicus System Manager
Session Composition: Dr Anny Cazenave, Geodesist and Ocean Scientist, Dr Rosemary Morrow, Ocean Scientist, CTOH/LEGOS/University Toulouse & CNES Ocean Lead, Dr Estelle Obligis, Marine Applications Manager, EUMETSAT, Dr Severine Fournier, Ocean Scientist, NASA JPL/Caltech

10:40	11:20	40	The session will bring together prominent figures from diverse organizations, academia, industries, and associations to engage in a focused dialogue on the present and future of remote sensing ocean and Hydrology science and engineering. The main objective is to inspire and to discuss the current status and future development in remote sensing monitoring of the oceans and hydrology as crucial elements of the Earth system in the Climate Change.
12:20	14:00	01:40	**Lunch**

Day 2, Tuesday 3 September 2024, Afternoon

Barthez: Session 8.2 - Building the 30 Year Record

Co-chairs: Frank Lemoine, Remko Scharroo

14:00	14:20	20	STILL IMPROVING THE ERS-1, ERS-2 AND ENVISAT ALTIMETER AND RADIOMETER HISTORICAL DATASETS: TOWARDS A NEW VERSION OF THE FDR4ALT PRODUCTS Piras F1, Aublanc J1, McMillan M2, Guilhen J1, Calmettes B1, Fell F3, Picard B4, Roinard H1, Niño F5, Tran N1, Behnia S6, Woolliams E6, Ollivier A1, Nigou A1, Asfour K1, Garcia P7, Fernandes J8, Vieira T8, Otten M9, Springer T9, Fouchet E10, Thibaut P1, Catapano F11, Femenias P11 1CLS, 2Lancaster University, 3Informus, 4Fluctus, 5LEGOS, 6NPL, 7IsardSat, 8Porto University, 9Positim, 10Noveltis, 11ESA-ESRIN	Fanny Piras	CLS
14:20	14:40	20	30 YEARS OF SEA ICE THICKNESS AND VOLUME OVER ARCTIC AND ANTARCTIC FROM SATELLITE ALTIMETRY Fleury S1, Bocquet M1, Rémy F1, Piras F2, Picot N3, Femenias P4, Bouffard J4 1LEGOS/CNRS, 2CLS, 3CNES, 4ESA/ESRIN	Sara Fleury	LEGOS/CNRS
14:40	15:00	20	REFERENCE OBSERVATIONS IN SUPPORT OF SEA ICE ALTIMETRY MISSIONS – AN OVERVIEW AND FUTURE NEEDS Skourup H1, Olsen I2, Fleury S3, Fredensborg Hansen R1, Sallila H4, Hendricks S5, Kern S6, Paul S5, Bocquet M3, Lavergne T7, Hvidegaard S1, Rinne E8 1Technical University Of Denmark, 2Danish Meteorological Institute, 3Université de Toulouse, LEGOS (CNES/CNRS/IRD/UT3), 4Finnish Meteorological Institute (FMI), 5Alfred Wegener Institute (AWI), 6University of Hamburg, 7Norwegian Meteorological Institute, 8University Centre in Svalbard (UNIS)	Eero Rinne	Technical University of Denmark
15:00	15:20	20	SENTINEL-6MF PERFORMANCES OVER OCEAN Bignalet-Cazalet F1, Maraldi C1, Cadier E2, Courcol B2, Martin Puig C3 1Cnes, 2CLS, 3Eumetsat	François Bignalet-Cazalet	CNES
15:20	15:40	20	WET TROPOSPHERIC CORRECTION FOR ALTIMETRY: PROGRESS MADE SINCE THE BEGINNING OF ALTIMETRY ERA AND CHALLENGES TO COME Obligis E1 1Eumetsat	Estelle Obligis	EUMETSAT
15:40	16:10	30	**Coffee Break**		

Barthez: Session 8.3 - Building the 30 Year Record

Co-chairs: Severine Fournier, Stelios Mertikas

16:10	16:30	20	LONG TERM ASSESSMENT OF THE GLOBAL MEAN SEA LEVEL RECORD AND ASSOCIATED UNCERTAINTIES BASED ON NEW L2P DT 24 PRODUCTS Quet V1, Mangilli A1, Prandi P1, Kocha C1, Dibarboure G2 1CLS (Collecte Localisation Satellites), 2CNES (Centre National d'Etudes Spatiales)	Victor Quet	CLS
16:30	16:50	20	SEA LEVEL RISE FROM ALTIMETRY: CLIMATE BELLWETHER AND IMPLICATIONS FOR FUTURE MISSIONS Scharroo R1, Obligis E1, Bojkov B1, Figa J1, Egido A2, Donlon C2 1EUMETSAT, 2ESA/ESTEC	Remko Scharroo	EUMETSAT
16:50	17:10	20	HOW DO MEASUREMENT ERROR AND NATURAL VARIABILITY CONTRIBUTE TO TREND ESTIMATION UNCERTAINTY? Loizeau X1, Howard T1, Woolliams E1, Behnia S1 1National Physical Laboratory	Xavier Loizeau	National Physical Laboratory
17:10	17:30	20	IMPROVEMENTS IN ESTIMATING 30-YEAR MEAN SEA LEVEL TRENDS AND ACCELERATION FROM GLOBAL TO REGIONAL SCALES Mangilli A1, Prandi P1, Meyssignac B2,3, Quet V1, Fourest S2,3, Octau F1, Labroue S1, Barnoud A4, Ablain M4, Dibarboure G2, Connors S5 1CLS, 2CNES, 3LEGOS, 4Magellium, 5ESA ECSAT	Anna Mangilli	CLS
17:30	17:50	20	RECONCILING GLOBAL AND REGIONAL SEA LEVEL CHANGES FROM 30 YEARS OF ALTIMETRY AND 20 YEARS OF GRACE AND GRACE FOLLOW ON OBSERVATIONS. Ludwigsen C1, Andersen O1, Watson C, King M 1DTU Space	Carsten Ludwigsen	DTU Space

Day 2, Tuesday 3 September 2024, Afternoon

Rondelet: Session 10.1 - Outreach

Co-chairs: Vinca Rosmorduc, Margaret Srinivasan

16:10	16:30	20	30 YEARS OF SOCIETAL BENEFITS FROM OCEAN ALTIMETRY MISSION DATA Srinivasan M1 1Nasa JPL	Margaret Srinivasan	JPL
16:30	16:50	20	ACCELERATING SOCIETAL BENEFIT OF THE SURFACE WATER AND OCEAN TOPOGRAPHY MISSION Bonnema M1, Rodriguez A1, Nickles C1 1NASA JPL	Angelica Rodriguez	NASA Jet Propulsion Laboratory
16:50	17:10	20	PROMOTING & EXPLAINING A NEW TECHNOLOGY: SWOT OUTREACH Rosmorduc V1 1CLS	Vinca Rosmorduc	CLS
17:10	17:30	20	THE HORIZON2020 OPEN CLOUD FOR RESEARCH ENVIRONMENT PROJECT'S HIGH-RESOLUTION ALTIMETRY DATA FOR COASTAL ANALYSIS Ponce De León Alvarez S1, Orrú C2, Iesué M2, Orlandi M2, Rivolta G2, Restano M3, Benveniste J4 1CENTEC, 2Progressive Systems-EarthConsole, 3SERCO-ESRIN, 4Formerly, ESA-ESRIN	Sonia Ponce De León Alvarez	CENTEC
17:30	17:50	20	OUTREACH SHOWCASE Various volunteer short presentations	ALL	VARIOUS

Day 3, WEDNESDAY 4 September 2024, Morning

Pasteur Auditorium: Session 4.2 - Polar Ocean

Co-chairs: Alessandro Di Bella, Sara Fleury

08:30	08:45	15	SEA-ICE DETECTION FROM SWIM OFF NADIR BEAMS: FOCUS ON WAVE FORECASTING IN POLAR OCEANS Gounou A1, Aouf L2, Peureux C3, Hauser D4, Ollivier A3, Hazan D5, Tourain C5 1Cs Group, 2Meteo France, 3CLS, 4LATMOS CNRS, 5CNES	Amanda Gounou	CS Group
08:45	09:00	15	RECENT FRESHENING IN THE LOFOTEN BASIN AND THE ROLE OF MESOSCALE EDDIES P. Raj R1,2, Dong H3, Bonaduce A1,2, Chatterjee S4, Puig Moner L1, Umbert M5, A. Johannessen J1 1Nansen Environmental and Remote Sensing Center, 2Bjerknes Center for Climate Research, 3Shanghai Jiao Tong University, 4National Center for Polar and Ocean Research, 5 Barcelona Expert Center on Remote Sensing, Institut de Ciències del Mar, CSIC	Roshin P. Raj	NERSC
09:00	09:15	15	ICEBERG DETECTION IN THE SOUTHERN OCEAN BASED ON A MULTI-SENSOR APPROACH. Mercier F1, VIARD J, Legeais J, Calvez M 1Cls	Franck Mercier	CLS
09:15	09:30	15	FIRST SEA ICE TOPOGRAPHY MEASUREMENTS USING SWOT Jestin G1, Fleury S1, Piras F2, Rampal P4, Reynal M3, Boy F3 1LEGOS/CNRS, 2CLS, 3CNES, 4IGE	Gwenael Jestin	LEGOS/CNRS
09:30	09:45	15	SWOT OVER THE ICE-COVERED POLAR OCEANS Kacimi S1, Kwok R2, Jaruwatanadilok S1 1Jet Propulsion Laboratory, 2Applied Physics Laboratory, Polar Science Center, University of Washington	Sahra Kacimi	Jet Propulsion Laboratory
09:45	10:00	15	POLARIMETRIC RADAR ALTIMETRY OVER THE CRYOSPHERE: SURFACE-BASED DATA AND FUTURE POSSIBILITIES Willatt R1,2, Stroeve J3,2, Nandan V3,4, Sandells M1, Selley H5, Hogg A5, Baker S2, Mallett R6 1Northumbria University, 2UCL, 3University of Manitoba , 4University of Calgary, 5University of Leeds, 6UiT	Rosemary Willatt	Northumbria University
10:10	10:40	30	**Coffee Break**		

Pasteur Auditorium: Session 3.1 - Coastal Ocean

Co-chairs: Jesus Gomes-Enri, Claire Maraldi

10:40	11:00	20	ARE NEAR-COASTAL SEA LEVELS ACCELERATING FASTER THAN GLOBAL DURING THE SATELLITE ALTIMETRY ERA? Jevrejeva S1, Qu Y2, Palanisamy H3 1National Oceanography Centre, 2School of Geography	Jevrejeva Svetlana	National Oceanography Centre
11:00	11:20	20	20-YEAR-LONG SEA LEVEL CHANGES ALONG THE WORLD'S COASTLINES FROM SATELLITE ALTIMETRY: THE NEW ESA CCI DATASET OF COASTAL VIRTUAL STATIONS Legeais J1, Cazenave A2, Leclercq L2, Léger F2, Birol F2, Niño F2, Passaro M3, Calafat F4, Shaw A5, Oelsmann J3, Restano M6, Benveniste J7 1CLS, 2LEGOS, 3TUM, 4NOC, 5Skymat Ltd, 6 Serco/ESRIN, 7Formerly, ESA-ESRIN	Legeais Jean-François	CLS
11:20	11:40	20	OBSERVING WATER LEVELS IN COASTAL, ESTUARINE, AND RIVERINE ENVIRONMENTS WITH IN-SITU GAUGES, NADIR ALTIMETRY AND SWATH ALTIMETRY: CHALLENGES AND OPPORTUNITIES Gommenginger C1, Lichtman I1, Banks C1, Calafat F2, Bell P1 1National Oceanography Centre, 2University of the Balearic Islands	Gommenginger Christine	National Oceanography Centre
11:40	12:00	20	Coastal Sea Level Rise in the Gulf of Mexico Leclercq L1, Cazenave A1, Léger F1, Thirion G1, Gravelle M2 1Université de Toulouse, LEGOS (CNES/CNRS/IRD/UT3), 2LIENSs, CNRS-La Rochelle University	Lancelot Leclercq	LEGOS
12:00	12:20	20	FULLY FOCUSED SAR ALTIMETRY AND INNOVATIVE RIVER LEVEL GAUGES FOR COASTAL MONITORING – THE FFSAR-COASTAL PROJECT Cotton D1, Nielsen K2, Andersen O2, Kruse M2, Poisson J3, Thompson C4, Becker A5, Restano M6, Benveniste J7 1SATOC, 2DTU, 3VorteX.io, 4Channel Coast Observatory, 5National Oceanography Centre, 6SERCO/ESA, 7Formerly,ESA-ESRIN	David Cotton	SATOC
12:20	14:00	01:40	**Lunch**		

Day 3, WEDNESDAY 4 September 2024, Afternoon

Pasteur Auditorium: Session 3.2 - Coastal Ocean

Co-chairs: Christine Gommenginger, Imen Turki

14:00	14:20	20	COASTAL HYDROLOGY SUPPORTED BY SATELLITE ALTIMETRY RADAR (CRYOSAT-2) Gómez-Enri J1, Aldarias A2, Mulero-Martínez R1, Vignudelli S3, Bruno M1, Mañanes R1, Izquierdo A1, Fernández-Barba M4 1University of Cadiz, 2Spanish Institute of Oceanography, 3CNR-IBF, 4Institute of Marine Science of Andalusia-CSIC	Gómez-Enri Jesús	University of Cadiz
14:20	14:40	20	IMPROVING SAR ALTIMETER PROCESSING OVER THE COASTAL ZONE, THROUGH IMPLEMENTATION OF INNOVATIVE PROCESSING ALGORITHMS AND ASSESSMENT OF A NEW COASTAL ZONE DATA SET. RESULTS FROM THE ESA HYDROCOASTAL PROJECT Cotton D1, Urien S2, Escorihuela M2, Nielsen K3, Fenoglio-Marc L4, Vignudelli S5, De Biasio F6, Shaw A7, Fernandes J8, Slobbe C9, Gómez-Enri J10, Restano M11, Benveniste J12 1SATOC, 2isardSAT, 3DTU Space, 4University of Bonn, 5CNR-IBF, 6CNR-ISP, 7SKYMAT Ltd, 8University of Porto, 9TU Delft, 10University of Cadiz, 11SERCO/ESA, 12Formerly, ESA-ESRIN	David Cotton	SATOC
14:40	15:00	20	SHELF/DEEP-OCEAN INTERACTIONS IN THE SW ATLANTIC Matano R1, Combes V2 1Ceoas, Oregon State University, 2Institut Mediterrani d'Estudis Avançats	Ricardo Matano	CEOAS, Oregon State University
15:00	15:20	20	SEASONAL TO DECADAL VARIATIONS IN OCEAN CURRENTS OFF CANADA'S PACIFIC AND ATLANTIC COASTS Han G1 1Fisheries And Oceans Canada	Guoqi Han	Fisheries And Oceans Canada
15:20	15:40	20	OCEAN TIDES IN THE COASTAL REGION: INSIGHTS GAINED FROM SWOT Hart-Davis M1, Ray R2, Andersen O3, Arildsen R3, Zaron E4, Schwatke C1, Dettmering D1 1DGFI-TUM, 2Geodesy & Geophysics Lab., NASA Goddard Space Flight Center, 3National Space Institute, Technical University of Denmark, 4College of Earth, Ocean, and Atmospheric Sciences, Oregon State University	Michael Hart-Davis	DGFI-TUM
15:40	16:10	30	**Coffee Break**		

Pasteur Auditorium: Session 3.3 - Coastal Ocean

Co-chairs: Lotfi Aouf, Sonia Ponce De León Alvarez

16:10	16:30	20	MONITORING THE BALTIC SEA COASTAL ZONE WITH SWOT AND NADIR-ALTIMETERS Fenoglio-Marc L1, Morholz V2, Chen J1, Kusche J1 1University Of Bonn, 2Leibnitz Institute for Baltic Sea research (IOW)	Luciana Fenoglio-Marc	University of Bonn
16:30	16:50	20	30 YEARS OF WIND AND WAVE ENERGY ASSESSMENT IN THE OFFSHORE AREAS OF CHINA FROM SATELLITE ALTIMETRY LI Q1, BAO L1,2, WU L1, WANG Y1,2 1State Key Laboratory of Geodesy and Earth's Dynamics, Innovation Academy for Precision Measurement Science and Technology, Chinese Academy of Sciences, 2University of Chinese Academy of Sciences	Qianqian LI	State Key Laboratory of Geodesy and Earth's Dynamics
16:50	17:10	20	ASSESSMENTS OF WAVE RESOURCES USING THE HORIZON2020 OPEN CLOUD FOR RESEARCH ENVIRONMENT PROJECT'S HIGH-RESOLUTION ALTIMETRY DATA IN THE ATLANTIC FRENCH AND PORTUGAL Ponce De León Alvarez S1, Restano M2, Benveniste J3 1CENTEC, 2SERCO-ESRIN, 3Formerly, ESA-ESRIN	Sonia Ponce De León Alvarez	CENTEC, IST-ID
17:10	17:30	20	DEVELOPMENT OF A NEW UAV-BASED LIDAR ALTIMETRY SOLUTION FOR IN-SITU WAVE SPECTRUM ESTIMATION IN COSTAL AREA Fouqueau V1, Poisson J-C1, Lesnard-Evangelista E1, Riou Y1, Valladeau G1, Tourain C2, Picot N2, Boy F2 1Vortex-io, 2CNES	Valentin Fouqueau	Vortex-io
17:30	17:50	20	COASTAL PROCESSING USING SAR INTERFEROMETRIC MEASUREMENTS Garcia P1, Guerra M1, Granados A1, Roca i Aparici M1, García-Mondéjar A1, Vendrell E1, Femenias P2, Lucas B3 1isardSAT, 2ESA-ESRIN, 3EUMETSAT	Pablo Garcia	isardSAT
19:30	23:00	03:30	**SYMPOSIUM DINNER - Le Château de Pouget (buses from Corum will leave at 18:45)**	Sponsored by EUMETSAT	

Day 3, WEDNESDAY 4 September 2024, Morning

Einstein Auditorium: Session 6.6 - Inland Water

Co-chairs: Guy Schumann, Angelica Tarpanelli

08:30	08:50	20	14 YEARS OF WATER LEVEL CHANGE IN LAKES AND RESERVOIRS OBSERVED BY CRYOSAT-2 Nielsen K1, Jiang L2 1DTU-Space, 2SUSTech	Karina Nielsen	DTU-Space
08:50	09:10	20	DEEP-LEARNING AIDED METEOTSUNAMI EVOLUTIONS OVER LAURENTIAN GREAT LAKES Shum C1, Wang S2, Jia Y1, Akyilmaz O2, Uz M3 1Division of Geodetic Science, School of Earth Sciences, The Ohio State University, 2Department of Geomatics, Istanbul Technical University, 3Helmholtz Centre Potsdam, GFZ German Research Centre For Geosciences	C K Shum	Division of Geodetic Science, School of Earth Sciences, Ohio State University
09:10	09:30	20	CHANGES IN WATER LEVELS, EXTENT AND STORAGE OF THE TITICACA LAKE USING SWOT DATA Frappart F1, Normandin C, Visitacion K, Bourrel L, Peña Luque S, Rau P, Lavado W, Wigneron J-P 1INRAE	Frédéric Frappart	INRAE
09:30	09:50	20	COMPARISON OF METHODS TO DERIVE THE HEIGHT-AREA RELATIONSHIP OF SHALLOW LAKES IN WEST AFRICA USING REMOTE SENSING Girard F1, Kergoat L1, Nikiema H2, Wubda M3, Yonaba R4, Fowé T4, Abdourhamane Touré A5, Mainassara I6, de Fleury M1, Grippa M1 1Geosciences Environnement Toulouse (GET, Université de Toulouse, CNRS, IRD, CNES), 2LERMIT, Université Joseph Ki-Zerbo, 3Université Joseph Ki-Zerbo, UFR-SVT/DST, 4Laboratoire Eaux, Hydro-Systèmes et Agriculture (LEHSA), Institut International d'Ingénierie de l'Eau et de l'Environnement (2iE), 5 Université Abdou Moumouni, Faculté des Sciences et Techniques, Département de Géologie, 6HydroSciences Montpellier (HSM, Univ Montpellier, CNRS, IRD)	Felix Girard	GET
09:50	10:10	20	INLAND WATER EXTENT MEASUREMENTS FOR THE CRISTAL MISSION Gómez Olivé A1, Gibert F1, García-Mondéjar A1, McKeown C2, McMillan M3, Scagliola M4 1isardSAT SL., 2isardSAT Ltd., 3Lancaster University, 4RHEA, ESA ESRIN	Adrià Gómez Olivé	isardSAT SL.
10:10	10:40	30	**Coffee Break**		

Einstein Auditorium: Session 9.1 - Synergy

Co-chairs: William Llovel, Nathalie Zilberman

10:40	10:55	15	PRECISE SEA LEVEL AND GRAVIMETRIC MEASUREMENTS, ALONG WITH IN-SITU ARGO PROFILES, ENABLE THE ESTIMATION OF CHANGES IN THE GLOBAL WATER-ENERGY CYCLE AND THE CONSTRAINING OF CLIMATE SENSITIVITY. Meyssignac B1, Chenal J, Guillaume-Castel R, Fourest S, Blazquez A 1Legos/cnes	Benoit Meyssignac	LEGOS/CNES
10:55	11:10	15	DEEP STERIC SEA LEVEL VARIABILITY INFERRED FROM SATELLITE OBSERVATIONS, OCEAN REANALYSIS AND DEEP ARGO PROFILES Llovel W1, Hochet A1, Zilberman N2, Steinberg J3 1Cnrs/lops, 2Scripps Institution of Oceanography, 3Woods Hole Oceanographic Institution	William Llovel	CNRS/LOPS
11:10	11:25	15	STERIC SEA LEVEL VARIATIONS IN THE DEEP WESTERN BOUNDARY CURRENT OF THE NORTHWEST ATLANTIC OCEAN REVEALED USING FULL-DEPTH IN SITU AND SATELLITE OBSERVATIONS Zilberman N1, Llovel W2, Steinberg J3, Meyssignac B4, Ablain M5, Hochet A2 1Scripps Institution of Oceanography, University of California San Diego, 2Laboratoire d'Océanographie Physique et Spatiale (LOPS), Univ. Brest, CNRS, IRD, Ifremer, IUEM, Brest, France., 3National Oceanic and Atmospheric Administration (NOAA) Geophysical Fluid Dynamic Laboratory (GFDL), Princeton, New Jersey, USA., 4Université de Toulouse, LEGOS (CNES/CNRS/IRD/UT3), Toulouse, France., 5Magellium, Ramonville Saint-Agne, France.	Nathalie Zilberman	Scripps Institution of Oceanography
11:25	11:40	15	STERIC HEIGHT CONTRIBUTION TO INTRASEASONAL SEA SURFACE HEIGHT IN THE SOUTHWESTERN ATLANTIC Ruiz-Etcheverry L1, Saraceno M1, Martinez M1 1CIMA/CONICET-UBA	Laura Ruiz-Etcheverry	CIMA/CONICET-UBA
11:55	12:10	15	VARIABILITY OF THE FULL-DEPTH SEA LEVEL BUDGET IN THE SOUTHWEST PACIFIC BASIN USING DEEP ARGO Lavin P1,2, Johnson G3 1University of Maryland (CISESS), 2NOAA/STAR, 3NOAA/PMEL	Paige Lavin	University of Maryland; NOAA/STAR
12:10	12:25	15	SIMULTANEOUS DYNAMICAL RECONSTRUCTIONS OF SEA SURFACE HEIGHT AND TEMPERATURE FROM MULTI-SENSOR SATELLITE OBSERVATIONS Le Guillou F1, Rio M1, Ciani D2, Storto A2, Buongiorno Nardelli B2 1ESA-ESRIN, 2Consiglio Nazionale delle Ricerche, Istituto di Scienze Marine (CNR-ISMAR)	Florian Le Guillou	ESA-ESRIN
12:20	14:00	01:40	**Lunch**		

Day 3, WEDNESDAY 4 September 2024, Afternoon

Einstein Auditorium: Session 9.2 - Synergy

Co-chairs: William Llovel, Nathalie Zilberman

14:00	14:15	15	ASSESSING SPATIOTEMPORAL MISCLOSURE OF THE SEA LEVEL BUDGET THROUGH A COMPREHENSIVE ANALYSIS OF ALTIMETRY, TIME-VARIABLE GRAVITY, AND OCEAN SALINITY MEASUREMENTS Croteau M1, Beckley B1, Ray R1, Loomis B1, Lemoine F1 1NASA Goddard Space Flight Center	Michael Croteau	NASA Goddard Space Flight Center
14:15	14:30	15	GLOBAL OCEAN HEAT CONTENT: METHODS AND SOURCES OF UNCERTAINTY Boyer T1, Hakuba M2, Cheng L3, Reagan J1, Lavin P1,4, Roman-Stork H1,5, Meyssignac B6, Wang Z1, Locarnini R1, Mishonov A1,4, Hogan P1, Byrne D1, Leuliette E1 1NOAA/NESDIS, 2NASA/JPL, 3Institute of Atmospheric Physics/International Center for Climate and Environment Sciences, 4Cooperative Institute for Satellite Earth System Studies, University of Maryland, 5Global Science and Technology, Inc, 6Université de Toulouse	Deirdre Byrne (on behalf of Tim Boyer)	NOAA/NESDIS
14:30	14:45	15	THE HISTORY OF NOAA'S NEAR REAL-TIME OCEAN HEAT CONTENT PRODUCTS Byrne D1, Shay L2, Trinanes J2,3,7, Maturi E4, Goni G4, Donahue D1, Trossman D1,5, Lavin P1,5, Zhang B1,6 1NOAA/NESDIS, 2University of Miami, 3NOAA/AOML, 4Retired, 5Cooperative Institute for Satellite Earth System Sciences, University of Maryland, 6Global Science and Technology, Inc., 7Dept. Electronics and Computer Sciences. Universidade de Santiago de Compostela	Deirdre Byrne	NOAA/NESDIS
14:45	15:00	15	LATEST IMPROVEMENTS IN ASSESSING THE GLOBAL OCEAN HEAT CONTENT AND EARTH ENERGY IMBALANCE FROM SPACE GEODETIC DATA Fraudeau R1, Marti F1, Meyssignac B2, Blazquez A2, Fourest S2, Ablain M1, Rousseau V1, Larnicol G1, Restano M3, Sabia R4, Dibarboure G5, Benveniste J6 1Magellium, 2LEGOS, Université de Toulouse, CNES, CNRS, UPS, IRD, 3SERCO/ESRIN, 4ESA-ESRIN, 5CNES, 6Formerly, ESA-ESRIN	Robin Fraudeau	Magellium
15:00	15:15	15	SENSITIVITY OF CLIMATE SIGNALS TO ALTIMETRY MAPPING. Legresy B1, Monselesan D1 1CSIRO Climate Science Centre	Benoit Legresy	CSIRO Climate Science Centre
15:15	15:30	15	IMPACT OF ALTIMETRY OBSERVATIONS ON GLOBAL AND REGIONAL OCEAN PREDICTION SYSTEMS FROM OCEANPREDICT Remy E1, Fujii Y2 1Mercator Ocean, 2MRI/JMA	Elisabeth Remy	Mercator Ocean
15:40	16:10	30	**Coffee Break**		

Einstein Auditorium: Session 9.3 - Operational Oceanography

Co-chairs: Deirdre Byrne, Sarah Gille

16:10	16:30	20	AUSTRALIA'S REGIONAL SEAS AND HOW WE MONITOR THEM Griffin D1, Semolini Pilo G1, Jones E1, Sandery P1 1Csiro	David Griffin	CSIRO
16:30	16:50	20	USE OF ALTIMETER DATA IN A COUPLED DATA ASSIMILATION SYSTEM Semane N1, Browne P1, Massart S1, Abdalla S1, Anesiadou A1, Healy S1 1European Centre for Medium-Range Weather Forecasts	Aikaterini Anesiadou	ECMWF
16:50	17:10	20	SWOT VALIDATION IN THE WESTERN MEDITERRANEAN SEA WITH HIGH-RESOLUTION OBSERVATIONS AND MODELLING DURING THE FAST-SWOT FIELD CAMPAIGNS Gomez-Navarro L1, Verger-Miralles E1, Barceló-Llull B1, Casas B2, Combes V1, Cutolo E3, Diaz-Barroso L2, Garcia-Jove M2, Lizarrán I2, Reyes E2, Tarry D4, Zarokanellos N2, Mourre B1,2, Pascual A1 1IMEDEA (UIB-CSIC), 2SOCIB, 3IMT Atlantique, 4Applied Physics Laboratory and UW	Laura Gomez-Navarro	IMEDEA (UIB-CSIC)
17:10	17:30	20	PHYTO- AND ZOO-PLANKTON RESPONSE TO EDDIES IN THE NORTH ATLANTIC Han G1, Quartly G1, Chen G1, Yang J1 1Plymouth Marine Laboratory	Graham Quartly	PML
17:30	17:50	20	COMPARISON OF HF RADAR MEASUREMENTS WITH AIS-DERIVED SURFACE CURRENTS, GLORYS REANALYSIS, AND GLOBCURRENT ANALYSIS IN THE AGULHAS CURRENT REGION Guichoux Y1, Jan g1 1Eodyn	Yann Guichoux	Eodyn
19:30	23:00	03:30	**SYMPOSIUM DINNER - Le Château de Pouget (buses from Corum will leave at 18:45)**	Sponsored by EUMETSAT	

Day 3, WEDNESDAY 4 September 2024, Morning

Barthez: Session 8.4 - Building the 30 Year Record

Co-chairs: Bruce Haines, Cristina Martin-Puig

08:30	08:50	20	SEA-LEVEL RECONSTRUCTION AT THE REGIONAL SCALE OVER THE LAST SEVEN DECADES	C K Shum	Division of Geodetic Science, School of Earth Sciences, The Ohio State University
			Shum C1, Wang S1, Lan W2, Kuo C3, Guo J1 1Division of Geodetic Science, School of Earth Sciences, Ohio State University, 2Department of Civil Engineering, National Kaohsiung University of Science and Technology, 3Department of Geomatics, National Cheng Kung University		
08:50	09:10	20	30 YEARS OF SEA LEVEL MULTI-MISSION REPROCESSED TO IMPROVE CLIMATE AND MESOSCALE SATELLITE DATA RECORD	Cecile Kocha	CLS
			Kocha C1, Lievin M1, Philipps S1, Pageot Y4, Rubin C5, Dibarboure G2, Nogueira-Loddo C3, Denis I2, Guinle T2 1CLS, 2CNES Centre National d'Etudes Spatiales, 3EUMETSAT, 4CELAD, 5ALTEN		
09:10	09:30	20	THIRTY-YEAR TRENDS IN OCEAN TIDES: RETRACKED TOPEX TO SENTINEL-6, WITH AN ASSORTMENT OF POTENTIAL SYSTEMATIC ERRORS	Richard Ray	NASA Goddard Space Flight Center
			Ray R1 1NASA Goddard Space Flight Center		
09:30	09:50	20	FROM 30 YEARS OF STABLE SEA LEVEL ALTIMETRY MEASUREMENTS TO ACCURATE ESTIMATES OF THE EARTH ENERGY IMBALANCE	Michaël Ablain	Magellium
			Ablain M1, Meyssignac B2, Fraudeau R1, Marti F1, Rousseau V1, Barnoud A1, Bouih M1, Lalau N1, Pfeffer J1, Szczypta C1, Vaujour T1, Blazquez A2, Fourest S2, Prandi P3, Quiet V3, Mangilli A3, Dibarboure G4, Egido A5, Donlon C5, Benveniste J6 1Magellium, 2LEGOS, CNES, CNRS, IRD, Université Paul Sabatier, 3CLS, 4CNES, 5ESA-ESTEC, 6Formerly, ESA-ESRIN		
09:50	10:10	20	IAS PILOT SERVICE FOR SCIENTIFIC AND GEODETIC APPLICATIONS	Xiaoli Deng	University of Newcastle
			Deng X1, Shum C2, Benveniste J3, Vignudelli S4 1University of Newcastle, 2Ohio State University, 3Formerly, ESA-ESRIN, 4Consiglio Nazionale delle Ricerche		
10:10	10:40	30	**Coffee Break**		

Barthez: Session 13.1 - S3VT-S6VT-OSTST Technical Presentations

Co-chairs: Alejandro Egido, Cristina Martin Puig

10:40	11:00	20	ASSESSMENT OF SENTINEL-6 MF SAR MODE AND REPROCESSED JASON-3 LRM SEA LEVEL MEASUREMENTS OVER GLOBAL COASTAL OCEANS	Fukai Peng	Tongji University
			Peng F1, Deng X2, Shen Y1 1Tongji University, 2The University of Newcastle		
11:00	11:20	20	SENTINEL-6/MICHAEL FREILICH PERFORMANCES ASSESSMENT OVER INLAND WATERS DURING TANDEM PHASE WITH JASON-3	Nicolas Taburet	CLS
			Taburet N1, Moreau T1, Boy F2 1CLS, 2CNES		
11:20	11:40	20	SENTINEL-3 STM MPC: PERFORMANCE OF THE S3A AND S3B SURFACE TOPOGRAPHY MISSION OVER SEA-ICE	Sara Fleury	LEGOS/CNRS
			Fleury S1, Piras F2, Hendricks S3, Megain T1, Aublanc J2, Femenias P4 1LEGOS/CNRS, 2CLS, 3AWI, 4ESA/ESRIN		
11:40	12:00	20	IMPROVEMENTS OF OCEAN RETRACKER SOLUTIONS FOR THE REFERENCE MISSIONS: OVERVIEW, RESULTS AND PERSPECTIVES	Anna Mangilli	CLS
			Mangilli A1, Moreau T1, Piras F1, Daguzé J1, Thibaut P1, Maraldi C2, Boy F2, Bignalet-Cazalet F2, Picot N2 1CLS, 2CNES		
12:00	12:20	20	PERFORMANCE ASSESSMENT OF SENTINEL-3 HIGH LATITUDE OBSERVATIONS FOR THE FUTURE POLAR OCEAN PRODUCTS	Lucia Rinchiuso	CLS
			Rinchiuso L1, Prandi P1, Durand C3, Nencioli F1, Alves M1, Daguzé J1, Lucas B2, Dinardo S2 1Collecte Localisation Satellites (CLS), 2EUMETSAT, 3CELAD		
12:20	14:00	01:40	**Lunch**		

Day 3, WEDNESDAY 4 September 2024, Afternoon

Barthez: Session 13.2 - S3VT-S6VT-OSTST Technical Presentations

Co-chairs: Pierre Femenias, Remko Scharroo

14:00	14:20	20	SWELL CHARACTERIZATION FROM SENTINEL-3 AND SENTINEL-6MF SAR ALTIMETRY DATA	Laetitia Rodet	CLS
			Rodet L1, Moreau T1, Altiparmaki O2, Ehlers F3, Maraldi C4, Boy F4, Picot N4 1CLS, 2Astrodynamics and Space Mission, Delft University of Technology, 3Geoscience and Remote Sensing, Delft University of Technology, 4CNES		
14:20	14:40	20	A FAST-TIME COMPLEX CORRECTION FOR THE END-TO-END RANGE IMPULSE RESPONSE OF THE SENTINEL-3 AND SENTINEL-6 ALTIMETER SYSTEMS	Albert García-Mondéjar	isardSAT
			García-Mondéjar A1, Dinardo S2, Gómez Olivé A1, Garcia P1, Fornari M3, Cullen R4, Martin Puig C2, Scharroo R2 1isardSAT, 2EUMETSAT, 3RHEA / ESA - ESTEC, 4ESA – ESTEC		
14:40	15:00	20	ENHANCING SAR ALTIMETRY PRODUCTS THROUGH CORRELATION-INFORMED STRATEGIES	Frithjof Ehlers	Geoscience and Remote Sensing, Delft University Of Technology
			Ehlers F1, Slobbe C1, Moreau T2, Rodet L2, Alves M2, Maraldi C3, Verlaan M4 1Geoscience and Remote Sensing, Delft University Of Technology, 2CLS, 3CNES, 4Mathematical Physics, Delft University of Technology		
15:00	15:20	20	TIDE GAUGE COMPARISONS FOR SENTINEL-3 AND SENTINEL-6	Eric Leuliette	NOAA
			ILeuliette E1, Plagge A1 1NOAA		
15:20	15:40	20	TOWARDS A RECONCILIATION OF THE LRM AND SAR ALTIMETRY OCEAN MEASUREMENTS IN AN OPERATIONAL CONTEXT FOR SENTINEL-3	Salvatore Dinardo	EUMETSAT
			Dinardo S1, Scharroo R1, Lucas B1 1EUMETSAT		
15:40	16:10	30	**Coffee Break**		

Barthez: Session 13.3 - S3VT-S6VT-OSTST Technical Presentations

Co-chairs: Eric Leuliette, Bruno Lucas

16:10	16:30	20	COASTAL EVALUATION OF THE FIRST THREE YEARS OF SENTINEL-6MF HIGH-RESOLUTION WET TROPOSPHERIC CORRECTION	Telmo Vieira	DGAOT
			Vieira T1,2, Fernandes J1,2, Aguiar P1,2, Lázaro C1,2 1DGAOT, Faculdade de Ciências, Universidade do Porto, 2Centro Interdisciplinar de Investigação Marinha e Ambiental (CIIMAR)		
16:30	16:50	20	REFINING THE ACCURACY AND STABILITY OF TROPOSPHERIC CORRECTIONS FOR SATELLITE ALTIMETRY OVER COASTAL ZONES AND CONTINENTAL SURFACES	Joana Fernandes	DGAOT
			Fernandes J1,2, Vieira T1,2, Aguiar P1,2, Lázaro C1,2 1DGAOT, Faculdade de Ciências, Universidade do Porto, 2Centro Interdisciplinar de Investigação Marinha e Ambiental (CIIMAR)		
16:50	17:10	20	VALIDATION OF LONG-TERM MICROWAVE RADIOMETER MEASUREMENTS OF DIFFERENT ALTIMETRY MISSIONS FOR WET TROPOSPHERE PATH DELAY RETRIEVALS	Bin Zhang	Global Science & Technology
			Zhang B1, Leuliette E 1Global Science & Technology, Inc.		
17:10	17:30	20	PERFORMANCE OF THE RADIOMETERS ON SENTINEL-6 AND SWOT FOR WET PATH DELAY CORRECTION	Shannon Brown	JPL
			Brown S1, Chae C 1Jet Propulsion Laboratory		
17:30	17:50	20	GDR-G ALTIMETRY STANDARDS	Bruno Lucas	EUMETSAT
			Lucas B1, Bignalet-Cazalet F2, Di Bella A3, Cullen R4, Maraldi C2, Leuliette E5, Desjonqueres J6, Martin Puig C1 1Eumetsat, 2CNES, 3Randstad for ESA/ESRIN, 4ESA/ESTEC, 5NOAA, 6NASA/JPL		
19:30	23:00	03:30	**SYMPOSIUM DINNER - Le Château de Pouget (buses from Corum will leave at 18:45)**	Sponsored by EUMETSAT	

Day 3, WEDNESDAY 4 September 2024, Morning

Rondelet: Session 5.1 - Geodesy: MSS, GEOID, MDT, POD

Co-chairs: Ole Baltazar Andersen, Sean Bruinsma, Marie-Hélène Rio

08:30	08:50	20	CONSISTENT MEAN SEA SURFACE AND SEA LEVEL CHANGE ESTIMATION IN THE ERA OF CLIMATE CHANGE – OUTLOOK TO SWOT. Andersen O1, Nilsson B1, Nerem S2 1DTU Space, 2Colorado Center for Astrodynamics Research , U. Colorado	Ole Baltazar Andersen	DTU Space
08:50	09:10	20	GLOBAL MARINE GRAVITY RECOVERY USING SWOT WIDE-SWATH ALTIMETRY Yu Y1, Sandwell D1 1Ucsd	Yao Yu	UCSD
09:10	09:30	20	INVESTIGATION OF SWOT ALTIMETRY FOR THE IMPROVED MARINE GRAVITY FIELD OFFSHORE THE WESTERN AUSTRALIA Zhou M, Deng X, Andersen O, Salajegheh F, Jin T 1The University of Newcastle, Australia; Wuhan University, China	Mao Zhou	The University of Newcastle
09:30	09:50	20	MAPPING THE DIRECTIONAL SEA SURFACE SLOPES WITH SWOT AND ICESAT-2 Nilsson B1, Andersen O1 1DTU Space, National Space Institute	Bjarke Nilsson	DTU Space
09:50	10:10	20	COMPARISON OF SLR BIASES DETERMINED FROM SATELLITE ALTIMETRY AND GEODETIC SPHERES Saquet E1,2, Couhert A2,3, Reinquin F2,3, Banos Garcia A1,2 1CLS, 2Centre National d'Etudes Spatiales, 3GET-Université de Toulouse (CNES, CNRS, IRD, UPS)	Eléonore Saquet	CLS
10:10	10:40	30	**Coffee Break**		

Rondelet: Session 5.2 - Geodesy: MSS, GEOID, MDT, POD

Co-chairs: Alexandre Couhert, Michiel Otten, CK Shum

10:40	11:00	20	GPS-BASED PRECISE ORBIT DETERMINATION OF THE SENTINEL-6 MF AND JASON-3 MISSIONS Conrad A1, Desai S1, Haines B1 1NASA Jet Propulsion Laboratory	Alex Conrad	NASA Jet Propulsion Laboratory
11:00	11:20	20	ASSESSMENT OF SENTINEL-3A AND SENTINEL-3B RESIDUAL RADIATION PRESSURE MODELING ERRORS Cherrier M1,2, Couhert A2,3, Mercier F2,3, Saquet E1,2 1CLS, 2Centre National d'Etudes Spatiales, 3GET-Université de Toulouse (CNES, CNRS, IRD, UPS)	Marie Cherrier	CLS
11:20	11:40	20	PROGRESS IN PRECISE ORBIT DETERMINATION OF ALTIMETRY SATELLITES Rudenko S1, Dettmering D1, Bloßfeld M1, Zeitlhöfler J1, Kehm A1 1Deutsches Geodätisches Forschungsinstitut, Technical University of Munich (DGFI-TUM)	Sergei Rudenko	DGFI-TUM
11:40	12:00	20	ASSESSING ATMOSPHERE AND OCEAN DE-ALIASING MODEL UNCERTAINTY FOR PRECISE EARTH OBSERVATION Zhang W1, Yang F1,2, Luo Z1 1Huazhong University of Science and Technology, 2Aalborg University	Weihang Zhang	Huazhong University of Science and Technology
12:00	12:20	20	REVISITING THE GEOCENTER MOTION FOR AND FROM SATELLITE ALTIMETRY Couhert A1,2, Moyard J1, Mercier F1,2, Exertier P2 1CNES, 2GET–Université de Toulouse (CNES, CNRS, IRD, UPS	Alexandre Couhert	CNES
12:20	14:00	01:40	**Lunch**		

Day 3, WEDNESDAY 4 September 2024, Afternoon

Rondelet: Session 12.1 - IDS Workshop

Co-chairs: Cécile Manfredi, Jérôme Saunier

14:00	14:05	5	Welcome		
14:05	14:20	15	IDS NEWS Soudarin L1, Boniface C2, Lemoine F3, Moreaux G1, Saunier J4 1CLS, 2CNES, 3NASA/GSFC, 4IGN	Laurent Soudarin	CLS
14:20	14:35	15	DORIS SYSTEM STATUS IN 2024 AND FUTURE PROSPECTS Didelot F1, MANFREDI C1 1Cnes	Cécile Manfredi	CNES
14:35	14:50	15	DORIS NETWORK 2024 STATUS REPORT Saunier J1 1IGN	Jérôme Saunier	IGN
14:50	15:10	20	QUALITY ASSESSMENT OF DORIS STATIONS ENVIRONMENT BASED ON POD RESIDUALS AND SIGNAL INTENSITY VARIATIONS Yaya P1 1CLS	Philippe Yaya	CLS
15:10	15:25	15	DORIS STATIONS CO-LOCATION: STATUS AND RESULTS Saunier J1, Moreaux G2, Garcia V3, Pesce D1 1IGN, 2CLS, 3CNES	Jérôme Saunier	IGN
15:25	15:30	5	Co-located space geodetic techniques observatory in India: progress toward installation of the IDS scientific station (poster flash presentation) Goyal R1, Saunier J2, Kumar V1, Dikshit O1, Balasubramanian N1 1National Centre for Geodesy, Indian Institute of Technology Kanpur, Kanpur, India, 2Institut national de l'information géographique et forestière	Vikash Kumar	NCG-IITK
15:30	15:35	5	NASA's CDDIS: 2024 Status Update (poster flash presentation) Yates T1 1SSAI	Taylor Yates	SSAI
15:40	16:10	30	**Coffee Break**		

Rondelet: Session 12.2 - IDS Workshop

Co-chairs: Guilhem Moreaux, Petr Stepanek

16:10	16:30	20	ITRF2020 UPDATES AND THE IDS CONTRIBUTION Altamimi Z1, Rebischung P1, Collilieux X1, Métivier L1, Chanard K1 1IGN-IPGP	Zuheir Altamimi	IGN-IPGP
16:30	16:45	15	DTRF2020 UPDATE: CHALLENGES AND FIRST RESULTS Seitz M1, Bloßfeld M, Glomsda M, Angermann D, Rudenko S, Zeitlhöfler J 1DGFI-TUM	Manuela Seitz	DGFI-TUM
16:45	17:00	15	DORIS EVALUATION OF THE FIRST ITRF2020 UPDATE Moreaux G1 1CLS	Guilhem Moreaux	CLS
17:00	17:15	15	RECENT UPDATES AT THE GSC DORIS ANALYSIS CENTER Lemoine F1, Chinn D2,1, Zelensky N3,1, Yang X2,1 1NASA Goddard Space Flight Center, 2KBR Inc., 3ESSIC/University of Maryland	Frank Lemoine	CNES
17:15	17:30	15	GOP ANALYSIS CENTER: DORIS DATA ANALYSIS STRATEGY AND INNOVATIONS Stepanek P1, Filler V1, Kumar V2 1Reseach Institute of Geodesy, Topography and Cartography, 2Indian Institute of Technology	Petr Stepanek	VUGTK
17:30	17:45	15	LATEST CNES/CLS IDS ANALYSIS CENTER SOLUTION UPDATES Capdeville H1, Mezerette A1, Lemoine J2 1CLS, 2CNES	Hugues Capdeville	CLS
19:30	23:00	03:30	**SYMPOSIUM DINNER - Le Château de Pouget (buses from Corum will leave at 18:45)**	Sponsored by EUMETSAT	

Day 4, Thursday 5 September 2024, Morning

Pasteur Auditorium: Session 11.1 - Outlook (future missions)

Co-chairs: Paolo Cipollini, Lee-Lueng Fu

08:30	08:50	20	SWATH ALTIMETRY: HOW WE GOT HERE AND WHERE MIGHT WE GO? Rodriguez E1, Morrow R2 1Jet Propulsion Laboratory, 2LEGOS	Rosemary Morrow (on behalf of Ernesto Rodriguez)	LEGOS JPL
08:50	09:10	20	MEASURING SIGNIFICANT WAVE HEIGHT FIELDS IN TWO DIMENSIONS AT KILOMETRIC SCALES WITH SWOT Bohe A1, Chen A2, Chen C2, Dibarboure G1, Dubois P6, Fore A2, Hajj G2, Hay A5, Legresy B4, Lenain L3, Molero B6, Peral E2, Raynal M1, Stiles B2 1CNES, 2Jet Propulsion Laboratory, California Institute of Technology, 3Scripps Institution of Oceanography, UC San DIego, 4CSIRO, 5University of Tasmania, 6CLS	Alejandro Bohe	CNES
09:10	09:30	20	BLENDING 2D TOPOGRAPHY IMAGES FROM SWOT INTO THE ALTIMETER CONSTELLATION WITH THE LEVEL-3 MULTI-MISSION DUACS SYSTEM Dibarboure G2, Briol F1, Chevrier R1, Delepoulle A1, Faugere Y2, Morrow R3, Picot N2, Prandi P1, Pujol M1, Raynal M2, Treboutte A1, Ubelmann C4 1CLS, 2CNES, 3LEGOS, 4Datlas	M-Isabelle Pujol	CLS
09:30	09:50	20	DYNAMICAL MAPPING OF SWOT: PERFORMANCES FROM REAL OBSERVATIONS Le Guillou F1, Ubelmann C2, Ballarotta M4, Cosme E3, Metref S2, Rio M1 1ESA-ESRIN, 2Datlas, 3Institut des Geosciences et de l'Environnement (IGE), 4Collecte Localisation Satellite (CLS)	Florian Le Guillou	ESA
09:50	10:10	20	THE NEXT GENERATION COPERNICUS ALTIMETRY MISSIONS: ENHANCING CONTINUITY, PERFORMANCE AND OBSERVATIONAL CAPABILITIES Egido A1 1ESA	Alejandro Egido	ESA
10:10	10:40	30	**Coffee Break**		
10:40	12:20	01:40	**Poster Session**		
12:20	14:00	01:40	**Lunch**		

Day 4, Thursday 5 September 2024, Afternoon

Pasteur Auditorium: Session 11.2 - Outlook (future missions)

Co-chairs: Alejandro Egido, Nicolas Picot

14:00	14:20	20	PERFORMANCES OF THE SWATH ALTIMETER SAOOH ON BOARD THE SENTINEL 3 NEXT GENERATION TOPOGRAPHY MISSION Demeestere F1, Houpert A1, Phalippou L1, Deschaux-Beaume M1, Rey L1, Rys L1, Dubois P2, Amarouche L2, Thibaut P2, Vuilleumier P3, Egido A3 1Thales Alenia Space, 2CLS, 3ESA/ESTEC	Franck Demeestere	Thales Alenia Space
14:20	14:40	20	THE CRISTAL MISSION FOR CRYOSPHERIC SCIENCE, OCEANOGRAPHY AND HYDROLOGY: FEATURES, DESIGN AND EXPECTED PERFORMANCE. Cipollini P1, Berdahl M2, Borde F1, Bouffard J3, Brown S4, Casal T1, Di Bella A3, Farrell S5, Fleury S6, Fournier S4, Gantois K1, Gracheva V1, Humbert A7, Kacimi S4, Khlystova I1, March G1, Martin Puig C8, Miniscalco R1, Rinne E9, Scagliola M3, Shepherd A10, Skourup H11, Tilling R5,12, Vaze P4, Wouters B13, Yackel J14, Zelli C1, Zuo H15 1ESA-ESTEC, 2DG.DEFIS European Commission, 3ESA-ESRIN, 4Jet Propulsion Laboratory, California Institute of Technology, 5University of Maryland, 6LEGOS/CNRS, 7Alfred Wegener Institute, 8EUMETSAT, 9The University Centre in Svalbard, 10Northumbria University, 11DTU Space, National Space Institute, 12NASA Goddard Space Flight Center, 13Utrecht University, 14University of Calgary, 15ECMWF	Paolo Cipollini	ESA
14:40	15:00	20	CRISTAL PERFORMANCE ASSESSMENT: AN END-TO-END SIMULATION APPROACH García-Mondéjar A1, Moyano G1, Urien S1, López-Zaragoza J1, Izzo A2, Recchia L2, Guccione P2, Lieb V3, Mank E3, Fornari M4, Scagliola M5, Di Bella A5, Bouffard J6, Cipollini P7, Zelli C7, Borde F7 1isardSAT, 2ARESYS, 3Airbus Defence and Space, 4RHEA / ESA-ESTEC, 5RHEA / ESA-ESRIN, 6ESA-ESRIN, 7ESA–ESTEC	Albert García-Mondéjar	isardSAT
15:00	15:20	20	DAILY MONITORING OF INLAND SURFACE WATERS WITH A CONSTELLATION OF SMALL ALTIMETRY SATELLITES (SMASH) Biancamaria S1, Calmant S1, David C2, Frappart F3, Garambois P4, Gosset M5, Grippa M5, Kouraev A1, Malaterre P6, Moreira D7, Munier S8, Papa F1, Yésou H9, Gal L10, Pedinotti V11, Amiot T12, Cheymol C12 1LEGOS, 2JPL/CalTech, 3ISPA, 4RECOVER, 5GET, 6G-EAU, 7CPRM, 8CNRM, 9ICUBE, 10Hydro Matters, 11Magellium, 12CNES	Sylvain Biancamaria	LEGOS/CNRS
15:20	15:40	20	AN OVERVIEW OF THE SWOT TECHNOLOGICAL BREAKTHROUGH: A PERSPECTIVE OF MAIN DIFFERENCES WITH RESPECT TO NADIR ALTIMETRY OVER OCEAN Raynal M1 1CNES	Matthias Raynal	CNES
15:40	16:10	30	**Coffee Break**		

Pasteur Auditorium: Open Discussion

16:10	17:50		**Open Discussion on Future Science in all Themes**

Day 4, Thursday 5 September 2024, Morning

Einstein Auditorium: Session 9.4 - Operational Oceanography

Co-chairs: Deirdre Byrne, Sarah Gille

08:30	08:50	20	EVALUATION OF SWOT SEA LEVEL DATA IN THE COASTAL AREAS OF THE BALTIC SEA Kupavõh A1, Delpeche-Ellmann N2, Ellmann A1 1Department of Civil Engineering and Architecture, Tallinn University of Technology, Estonia, 2Department of Cybernetics, School of Science, Tallinn University of Technology, Estonia	Nicole Delpeche-Ellmann	Tallinn University of Technology
08:50	09:10	20	OCEAN MESOSCALE HOT-SPOT AT THE NORDIC HIGH LATITUDES: THE LOFOTEN BASIN Bonaduce A1, P. Raj R1, Mangini F1, Moiseev A1, P. Moner L1, A. Johannessen J1 1Nansen Environmental and Remote Sensing Center	Antonio Bonaduce	Nansen Environmental and Remote Sensing Center
09:10	09:30	20	CONTRIBUTION OF THE OPEN OCEAN TO SEA-LEVEL VARIATIONS OVER THE NORWEGIAN CONTINENTAL SHELF Mangini F1, Bonaduce A, P. Raj R 1Nansen Environmental And Remote Sensing Center	Fabio Mangini	Nansen Environmental and Remote Sensing Center
09:30	09:50	20	GRIDDING OF SEA LEVEL ANOMALIES USING COLLOCATED CO-VARIABLES Juhl M1, Passaro M, Dettmering D 1DGFI-TUM	Marie-Christin Juhl	DGFI-TUM
09:50	10:10	20	SUBMESOSCALE-TO-MESOSCALE VARIABILITY IN THE CALIFORNIA CURRENT SYSTEM: FINDINGS FROM SWOT ASSIMILATION Gille S1, Verdy A1, Mazloff M1, Cornuelle B1, Gopalakrishnan G1, Gutierrez-Villanueva M1, Soares S1 1University of California San Diego	Sarah Gille	University of California San Diego
10:10	10:40	30	**Coffee Break**		
10:40	12:20	01:40	**Poster Session**		
12:20	14:00	01:40	**Lunch**		

Day 4, Thursday 5 September 2024, Morning

Barthez: Session 13.4 - S3VT-S6VT-OSTST Technical Presentations

Co-chairs: Josh Willis, Claire Maraldi

08:30	08:50	20	COPERNICUS POD SERVICE: STATUS OF COPERNICUS SENTINEL SATELLITE ORBIT DETERMINATION Fernandez C1, Muñoz M1, Fernandez J1, Peter H2, Femenias P3, Nogueira-Loddo C4 1GMV Aerospace & Defence, 2PosiTim UG, 3ESA/ESRIN, 4EUMETSAT	Carlos Fernandez	GMV Aerospace & Defence
08:50	09:10	20	POD STATUS FOR THE REFERENCE MISSIONS AND THE DETERMINATION OF GLOBAL MEAN SEA LEVEL Lemoine F1, Zelensky N2, Beckley B3, Yang X3, Thomas T4, Luthcke S1, Pennington T3, Chinn D3 1Nasa Goddard Space Flight Center, 2ESSIC/University of Maryland, 3KBR Inc., 4SAIC	Frank Lemoine	NASA Goddard Space Flight Center
09:10	09:30	20	THE HARVEST EXPERIMENT AFTER THIRTY YEARS: CHALLENGES AND NEW PERSPECTIVES Haines B1, Desai S1, Desjonqueres J1, Wu A1, Stalin S2 1Jet Propulsion Laboratory, California Institute of Technology, 2NOAA, Pacific Marine Environmental Laboratory	Bruce Haines	NASA
09:30	09:50	20	ST3TART: FIDUCIAL REFERENCE MEASUREMENTS FOR SENTINEL-3 LAND ALTIMETRY Miller C1, Le Merle E1, Poisson J2, Picot N3, Skourup H4, Fleury S12, Picard G5, Moholdt G6, Wooliams E7, Munesa E1, Ferrari R1, Segura D1, Sabalbal J1, Fouqueau V2, Mikolajczak G2, Hahn J2, Yanez C3, Lefebve J3, Fredensborg Hansen R4, Simonsen S4, Hvidegaard S4, Favier V5, Arnaud L5, Lemeur E5, Behnia S7, Haas C8, Krumpen T8, Neudert M8, Taburet N9, Renou J9, Chapellier M9, Aublanc J9, Tarpanelli A10, Sneeuw N11, Tourian M11, Foster J11, Vivier F13, Lourenco A13, Ricker R14, Rydeng Jenssen R14, Yésou H15, Azzoni M15, Amzil S15, Le Dauphin T15, Bonnefond P16, Laurain O16, El Hajj M1, Catapano F17, Femenias P18 1NOVELTIS, 2vorteX.io, 3CNES, 4Technical University of Denmark (DTU), 5Institute of Environmental Geosciences (IGE), 6Norwegian Polar Institute (NPI), 7National Physical Laboratory (NPL), 8Alfred Wegener Institute (AWI), 9CLS, 10CNR-IRPI, 11University of Stuttgart (GIS), 12LEGOS-CNRS, 13LOCEAN-CNRS, 14Norwegian Research Centre (NORCE), 15SERTIT/CONECTUS, 16SYRTE, 17Rhea Group for ESA, 18ESA-ESRIN	Claire Miller	NOVELTIS
09:50	10:10	20	CORNER REFLECTORS FOR RADAR ALTIMETER EXTERNAL CALIBRATION: LESSONS LEARNT FROM THE FIRST THREE YEARS OF MEASUREMENTS AT THE MONTSEC CALIBRATION FACILITY Gibert F1, Gómez Olivé A1, García-Mondéjar A1, Flores de la Cruz A1, Hernández S1, Vendrell E1, Roca i Aparici M1 1isardSAT S.L.	Ferran Gibert	isardSAT S.L.
10:10	10:40	30	**Coffee Break**		
10:40	12:20	01:40	**Poster Session**		
12:20	14:00	01:40	**Lunch**		

Day 4, Thursday 5 September 2024, Morning

Rondelet: Session 12.3 - IDS Workshop

Co-chairs: Alexandre Couhert, Frank Lemoine

08:30	08:50	20	PRECISE ORBIT DETERMINATION OF ALTIMETRY SATELLITES USING DORIS AND SLR OBSERVATIONS IN DIFFERENT REFERENCE FRAME REALISATIONS Zeitlhöfler J1, Bloßfeld M1, Rudenko S1 1DGFI-TUM	Julian Zeitlhöfler	DGFI-TUM
08:50	09:10	20	PROGRESS REPORT AND LESSONS LEARNED FROM DEVELOPING A DORIS POD SOFTWARE Papanikolaou X1, Tsakiri M1, Nahmani S2, Pollet A2, Anastasiou D1, Zacharis V1 1National Technical University of Athens (NTUA), Dionysos Satellite Observatory, 2Université de Paris, Institut de Physique du Globe de Paris (IPGP)	Maria Tsakiri	National Technical University of Athens
09:10	09:30	20	IMPROVEMENTS IN THE PRECISE ORBIT DETERMINATION USING DORIS AND LASER DATA FOR CRYOSAT-2 Schrama E1, Visser P1 1Delft University Of Technology	Ernst Schrama	Delft University of Technology
09:30	09:50	20	IMPACT OF THE SOUTH-ATLANTIC ANOMALY RADIATIONS ON DORIS ULTRA-STABLE OSCILLATOR: RESULTING EFFECTS ON DORIS MEASUREMENTS AND ORBIT DETERMINATION FOR SENTINEL-3A AND SENTINEL-6A Nilsson B1, Andersen O1 1DTU Space, National Space Institute	Théo Gravalon	CELAD/CLS
09:50	10:10	20	DORIS PROCESSING USING FOCUSPOD Fernandez C1, Fernandez M1, Varela M1, Fernandez J1, Peter H2, Femenias P3, Nogueira-Loddo C4 1GMV Aerospace & Defence, 2PosiTim, 3ESA/ESRIN, 4EUMETSAT	Carlos Fernandez	GMV Aerospace & Defence
10:10	10:40	30	**Coffee Break**		

Rondelet: Session 12.4 - IDS Workshop

Co-chairs: Karine Le Bail, Ningbo Wang

10:40	11:00	20	THREE DECADES OF ALTIMETRY ORBITS: CONSISTENT DORIS-BASED ORBIT SERIES AND VALIDATION Schreiner P1, Reinhold A1, Schöne T1, Esselborn S1, König R2 1Helmholtz Centre Potsdam, GFZ German Research	Patrick Schreiner	Helmholtz Centre Potsdam, GFZ German Research Centre for Geosciences
11:00	11:20	20	DSO DORIS ANALYSIS SOFTWARE INTERMEDIATE OUTCOMES Serelis G1, Anastasiou D1, Papanikolaou X1, Tsakiri M1, Zacharis V1, Krey V1 1National Technical University of Athens, Dionysos Satellite Observatory	Maria Tsakiri	National Technical University of Athens
11:20	11:40	20	EVALUATING WEIGHTING STRATEGIES IN DORIS MEASUREMENT PROCESSING FOR GEODETIC APPLICATIONS Nahmani S1,2, Pollet A1,2, Bertiger W3, Rebischung P1,2, Lion G1,2 1Université Paris Cité, Institut de physique du globe de Paris, CNRS, IGN, 2Univ Gustave Eiffel, ENSG, IGN, 3Jet Propulsion Laboratory, California Institute of Technology	Samuel Nahmani	IGN - IPGP - CNRS
11:40	12:00	20	EXPLORING STRATEGIES FOR AN OPTIMAL COMBINATION OF MONO-SATELLITE DORIS SOLUTIONS Le Bail K1, Lemoine F, Moreaux G 1Chalmers University Of Technology / Onsala Space Observatory	Karine Le Bail	Chalmers University Of Technology / Onsala Space Observatory
12:00	12:20	12	ESTIMATION OF THE LENGTH OF DAY (LOD) FROM DORIS OBSERVATIONS Kumar V1, Stepanek P2, Filler V2, Dikshit O1, Balasubramanian N1 1Indian Institute of Technology, Geoinformatics, Civil Engineering Department, Kanpur, India , 2Research Institute of Geodesy, Topography and Cartography	Vikash Kumar	Indian Institute of Technology
12:20	14:00	01:40	**Lunch**		

Day 4, Thursday 5 September 2024, Afternoon

Rondelet: Session 12.5 - IDS Workshop

Co-chairs: Karine Le Bail, Ningbo Wang

14:00	14:20	20	EVALUATION OF THE ZHD TROPOSPHERIC MODELLING WITH VMF1 ON DORIS ORBITS AND STATION COORDINATES Banos Garcia A1 1CLS	Adrian Banos Garcia	CLS
14:20	14:40	20	THE COOPERATIVE GLOBAL IONOSPHERIC MAP USING NEAR-REAL-TIME DORIS DATA Liu A1, Wang N1, Li Z1 1Aerospace Information Research Institute Chinese Academy Of Sciences	Ang Liu	Aerospace Information Research Institute Chinese Academy Of Science
14:40	15:00	20	EFFECT OF THE SECOND ORDER IONOSPHERIC DELAY ON PRECISE ORBIT DETERMINATION OF DORIS SATELLITES AND ON THE CNES/CLS IDS ANALYSIS CENTER SOLUTION Mezerette A1, Capdeville H1, Lemoine J2 1Cls, 2CNES	Adrien Mezerette	CLS
15:00	15:20	20	CONTRIBUTION OF DORIS SYSTEM TO GLOBAL IONOSPHERIC SCINTILLATION MAPPING Cherrier M1, Yaya P1 1CLS	Marie Cherier	CLS
15:20	15:40	20	Discussion		
15:40	16:10	30	**Coffee Break**		

Rondelet: IDS Governing Board

16:10	18:15	02:05	**IDS Governing Board**		

Day 5, Friday 6 September 2024, Morning

Pasteur Auditorium: ROUND TABLE #1 (Looking at the past, lesson learned and discussions on the 30 Year Record)

Invited Panelists: Sarah Gille (University of California San Diego), David Griffin (CSIRO), Rosemary Morrow (LEGOS), Steve Nerem (University of Colorado), Tamlin Pavelski (University of North Carolina), Eero Rinne (University Centre In Svalbard)

08:30	10:10	01:40	
10:10	10:40	30	**Coffee Break**

Pasteur Auditorium: ROUND TABLE #2 (Future scientific challenges, open science questions, ...)

Invited Panelists: Michaël Ablain (Magellium), Paolo Cipollini, Cédric David (JPL), Yannice Faugère (CNES), Pierre-Yves Le Traon (Mercator Ocean), Eric Leuliette (NOAA), Estelle Obligis (EUMETSAT), Nadya Vinogradova Shiffer (NASA)

10:40	12:20	01:40	
12:20	14:00	01:40	**Lunch**

Day 5, Friday 6 September 2024, Afternoon

Pasteur Auditorium: SYMPOSIUM PLENARY SESSION - session recommendations summaries

15:30	16:00	30	**Coffee Break**

Pasteur Auditorium: SYMPOSIUM PLENARY SESSION - Final Discussion and general recommendations, Closing

16:00	17:30	01:30	
17:30			**Meeting Adjournment**

Day 6, Saturday 7 September 2024

Einstein Auditorium: TRAINING

08:30	11:00	01:30	**On LRM, SAR and FFSAR altimetry processing & applications in coastal, inland water and polar regions**	Sergi Hernández (isardSAT) and Marco Restano (Starion Group c/o ESA-ESRIN)

Summary:
Associated lectures will focus on FF-SAR theory & applications in all the altimetry domains and consider all the relevant missions (CryoSat-2, Sentinel-3 and Sentinel-6), datasets and synergies with other EO systems.
A brief lecture on LRM and Unfocused SAR altimetry processing will introduce the role played by radar altimetry in Earth Observation to students having different competencies.

11:00	11:30	30	**Coffee Break**

Einstein Auditorium: TRAINING

11:30	13:00	01:30	**SWOT over ocean surfaces**	Cyril Germineaud (CNES)

Summary:
As part of the release of the SWOT KaRIn Low Rate (Ocean) products, we will present a range of ocean-related applications along with basic access steps and SWOT-adapted tools available from CNES AVISO for optimal data use. More specifically, this presentation will showcase SWOT data dissemination through various means (i.e. download platforms, data visualization and exploration capabilities) from CNES AVISO services, including technical and thematic helpdesk support. The presentation will also showcase the dedicated CNES cloud infrastructure services that enable cloud-based scientific research related to SWOT ocean data. CNES cloud support includes, but is not limited to: (i) access to computing power with an efficient coding environment, (ii) ready-made Python-based scripts to explore SWOT ocean data with few lines of code, (iii) access to additional datasets useful for exploring SWOT data, and (iv) dedicated cloud-enabled support services.
1. SWOT LR (Low Rate, Oceanography) products: data products and applications (30')
2. Data access and related data usage services (15')
3. Presentation of ready-to-use tutorials (Jupyter notebooks) for the exploration and manipulation of SWOT LR data (30')
4. SWOT products and data usage perspectives and questions (15')

13:00	14:30	01:30	**Lunch** (off site - no host)

Einstein Auditorium: TRAINING

14:30	16:30	02:00	**SWOT over inland water surfaces**	Mathilde Simeon (CNES)

Summary:
SWOT HR products are now publicly available. In this training, we will use different Jupiter notebook python scripts (python code) in order to help different users to access, explore, use and understand the data.
Different subjects will be covered during the training:
1. What are the different SWOT products and their related use.
2. How to access to the data through to distribution tools
3. What are the most common issues and questions to interpret the data
4. Presentation of some phenomenology (SWOT errors, dark water, etc...)
5. Questions session

16:30	17:00	30	**Coffee Break**

Einstein Auditorium: TRAINING

17:00	18:30	01:30	**Open questions, discussion, feedback, closing**

Detailed Posters' List by Themes

POSTER ID	POSTER PROGRAMME Theme 1: 30 YEARS OF PROGRESS IN RADAR ALTIMETRY: A HISTORICAL PERSPECTIVE (KEYNOTE PRESENTATIONS)	Presenter	Abs. ID
~~1~~	~~Perspectives on developing the Surface Water Ocean Topography Mission (SWOT) from concept to reality for observing Earth's precious water from space~~	~~Parag Vaze~~	~~73~~
2	30 years of altimetry Sea Level L3/L4 products record: major improvements in recent decades	M-Isabelle Pujol	155
3	Impact of SWOT assimilation on Mercator Ocean International global forecasting system	Mounir Benkiran	182
4	Assimilation of SWOT data (1-day orbit) into Mercator Ocean International's global forecasting system	Ergane Fouchet	184
5	China's HY-2 Satellite Radar Altimetry Missions: Review and Prospect	Maofei Jiang	314
6	30 Years of Progress in Technology and Algorithms for the Altimetry Wet Tropospheric Path Delay Correction	Shannon Brown	416
7	Review and outlook for surface topography missions,applications and services	Julia Figa Saldana	462
	Altimetry and the many scales of the ocean surface elevation: wave heights, wave groups, skewness, and sea level "noise"	Fabrice Ardhuin	215

Detailed Posters' List by Themes

POSTER ID	POSTER PROGRAMME Theme 2: ADVANCES IN OUR UNDERSTANDING OF THE DYNAMIC OCEAN	Presenter	Abs. ID
8	SWOT's contribution to the study of coastal ocean circulation, and more specifically the north current (NW Mediterranean Sea)	Léna Tolu	11
9	Changing patterns in the Gulf Stream over the last three decades as observed in the altimetric record	Antonio Sanchez-Roman	20
10	The Average Impulse Response of a Sea Surface at the Oblique Sensing	Vladimir Karaev	29
11	A Deep Learning Approach to Separate Balanced and Unbalanced Motions from Sea Surface Height Snapshot	Zhanwen Gao	42
12	Monitoring Kuroshio meanders around the Izu Ridge by ferry-born GNSS and SWOT altimetry data	Kaoru Ichikawa	52
13	Drivers of Halosteric Regional Sea Level Interannual Variations	Antoine Hochet	56
14	Meso and submesoscale dynamics : a new approach combining the Automatic Information System (AIS) data and SWOT data.	Camille Cardot	72
15	Short-term submesoscale eddy variations observed in SWOT KaRIn SLA fields	Xiaoyan Chen	74
16	Achieving sigma0 consistency for the entire TOPEX/Jason record	Graham Quartly	118
17	New definitions for the high frequency correlated noise in the Global Mean Sea Level uncertainty budget using SWOT Cal/Val phase data	Victor Quet	197
18	Ocean wind-wave parameters from SWIM-CFOSAT for downstream applications	Charles Peureux	219
19	Improvement of the Dynamic Atmospheric Correction facing the new challenges of the coastal regions and the high-resolution altimeter data	Loren Carrere	225
~~20~~	~~Robustness of altimetry-derived tidal amplitude trends to alternative mesoscale correction~~	~~Koen Haelkman~~	~~232~~
21	Topological Lagrangian analysis from altimetric and elephant seal data	Juan Cruz Bonel	242
22	Dynamic response of the ocean surface to the passage of a tropical cyclone	Liudmila Vanina-Dart	243
23	Ocean swell parameters retrieval using Sentinel-6 FF-SAR cross-spectra.	Michel Guerra	247
24	Key Factors for Improving the Resolution of Mapped Sea Surface Height from Multi-Satellite Altimeters in the South China Sea	Xiaoya Zhang	249
25	On the utility of satellite altimetry in measuring the Florida Current volume transport	Denis Volkov	263
26	Assessing barotropic tides estimation from SWOT measurements	Eva Le Merle	264
27	Observing Upper-Ocean and Surface Properties, Currents and their Gradients from Meso to Submesoscales	Luc Lenain	268
28	SWOT 2D observations of the internal tide surface signature: an unprecedented insight of IT dynamics and IT corrections adequacy	Loren Carrere	297
29	Evaluating altimeter products for the computation of cross-shore geostrophic velocities against in-situ data	Saulo Soares	354
30	The role of Steric height in mesoscale activity in the Southwestern Atlantic Ocean derived from high resolution in situ data, satellite altimetry and a reanalysis model.	Melina M Martinez	437
31	An Evaluation of Recent Ocean Tide Models	Jason Otero Torres	465
32	On the Effects of Ocean Surface Motion on Delay-Doppler Altimetry	Louis Marie	474
33	Variability of Argentine Continental Shelf Currents in Southern Patagonia from In-situ Timeseries, Satellite Altimetry and GLORYS Reanalysis Outputs	Loreley Lago	475
34	Large-scale (and quasi-global) bottom pressure variations induced by oceanic Chaotic Intrinsic Variability	Thierry Penduff	481
35	Temporal and Spatial Variability of Eddy Kinetic Energy in the Southern Ocean	Jessica Caggiano	480
36	Joint role of the Natal pulse and large meanders of the Agulhas Return Current for the Early retroflection of the Agulhas Current	Johnny Johannessen	482

POSTER ID	POSTER PROGRAMME Theme 3: ADVANCES IN OUR UNDERSTANDING OF COASTAL PROCESSES	Presenter	Abs. ID
37	Use of GNSS-IR to detect recent and historical storms surges in Hong Kong	Dongju Peng	53
38	Seasonal and Interannual Variability of Water Exchange Through the Kerch Strait Based on Radar Altimetry	Sergey Lebedev	77
39	Assessing the performance of SWOT altimetry against tide gauge observations in the western Mediterranean Sea	Diego Vega-Gimenez	85
40	Coastal altimetry products: from historical 1 Hz along-track data to virtual tide gauges	Fabien Léger	94
41	Synergy of fine-resolution regional model and SWOT measurements to study coastal dynamics	Nushrat Yeasmin	106
42	Towards an operational global coastal altimetry product: AltiCAP (ALTimetry Innovative Coastal Approach Product)	Fabien Léger	160
43	Understanding tropospheric variability over short spatial scales in the coastal zone: Insights from the Bass Strait validation facility using SWOT swath altimetry	Andrea Hay	191
44	The Severn Estuary tidal bore from fast sampled SWOT data	Ole Baltazar Andersen	198
45	Upgraded Copernicus IBI wave reanalysis thanks to altimetry wave data	Louna Louis	250
46	Coherent Modes of Global Coastal Sea Level Variability	Julius Oelsmann	342
47	Trends and acceleration of sea-level changes from GGOS Observations with PCA/ICA noise reduction algorithm	Xiaoxing He	353
48	Research on Two steps retracking algorithm for constructed waveforms of nearshore radar altimeter	Yongjun Jia	386
49	Evaluation of SWOT wide-swath products in the south Chesapeake Bay	Christopher Buchhaupt	436
50	Determination of the Lowest Astronomical Tide over the Algerian Coast and on the large of Western Mediterranean	Ali Rami	446
51	Global Lagoon Altimetry allows improved Coastal Sea Level from Space	Stefano Vignudelli	456
52	CEOS COAST: Transformational Altimetry Earth Observation in Coastal Regions	Jérôme Benveniste	470
53	An Improvement to short term variability in Global Mean Sea level reconstruction	Andrew Shaw	478

POSTER ID	POSTER PROGRAMME Theme 4: ADVANCES IN OUR UNDERSTANDING OF THE POLAR OCEAN	Presenter	Abs. ID
54	30 Years of Arctic Sea Level from Radar Altimetry: Assessing the Climate Change in the Arctic Region	Stine Kildegaard Rose	23
55	Enhanced Iceberg Measurements from CRISTAL mission	Albert García-Mondéjar	137
56	Assimilating CryoSat-2 FB to improve modeled sea ice thickness	Imke Sievers	188
57	Arctic Freshwater flux from altimetry and EO data.	Ole Baltazar Andersen	192
58	Polar ocean MSS development combining radar and laser altimetry	Ole Baltazar Andersen	200
59	Polar Ocean tides from retracked Cryosat-2 altimetry.	Ole Baltazar Andersen	203
60	Retrieval of Sea Ice Concentration from Sentinel-3 A/B MWR brightness temperatures	Morgane Farradèche	252
61	Classifying Arctic Ice Types Using Nadir-Observing Radiometer and Altimeter Data from the Marine Dynamic Environment Satellite HY-2B	Chengfei Jiang	313
62	Arctic and Southern Ocean sea level maps from satellite altimetry from 2011 to 2021	Pierre Veillard	330
63	CRISTAL Sea Ice & Iceberg L2 processing: Baseline approach and new developments	Steven G Baker	400

Detailed Posters' List by Themes

POSTER ID	POSTER PROGRAMME Theme 5: ALTIMETRIC CONTRIBUTIONS TO GRAVITY FIELD, MARINE GEOID, BATHYMETRY MODELING AND ORBIT DETERMINATION	Presenter	Abs. ID
64	The CNES-CLS 2024 free air marine gravity anomaly model: a preliminary global solution.	Philippe Schaeffer	80
65	Mean Sea Surface state of the art over the last 30 years.	Philippe Schaeffer	84
66	Bathymetry from SWOT and ICESat-2 – Case studies in Australia waters	Xiaoli Deng	157
67	Impact of POE-G orbits on Sentinel-6 MF and Jason-3 altimetric performances	Bastien Courcol	248
68	A new method of ocean gravity field model fusion based on water depth	Qiankun Liu	280
69	Precise Orbit Determination of HY-2D Satellite Using Onboard GNSS Data	Hailong Peng	290
70	Comparison of SLR biases determined from satellite altimetry and geodetic spheres	Eléonore Saquet	404

Detailed Posters' List by Themes

POSTER ID	POSTER PROGRAMME Theme 6: ALTIMETRY OVER LAND AND INLAND WATER	Presenter	Abs. ID
71	DREAMing - from deserts to river basins	Philippa Berry	14
72	Variability of water levels, areas, and volumes of the Southern Chilean lakes through Satellite Altimetry and its Interaction with Climate	Hayleen Cid	15
73	Estimation of the quality difference between Sentinel-6 and Jason-3 using the tandem phase over Polish rivers using a hydrodynamic model and gauging stations	Natalia Strojna	16
74	Ice cover and eddies in large deep seasonally-freezing Eurasian lakes: insights from satellite remote sensing and field observations	Alexei Kouraev	26
75	Remote Sensing-Based Extension of GRDC Discharge Time Series - A Monthly Product with Uncertainty Estimates	Omid Elmi	35
76	Validation of the satellite radar altimetry from ERS-1, ERS-2 and ENVISAT for Inland Water Thematic Data Product	Stefania Camici	37
77	Long term analysis of global surface water volume change using remote sensing data	Omid Elmi	38
78	Preliminary assessment of SWOT L2 Lake products over small water bodies in the Alsace and Lorraine regions (France)	Hervé Yésou	44
79	Insight into the dynamics of Sahelian shallow lakes with SWOT KaRIn	Felix Girard	46
80	Globally trained LSTM machine learning-based approach to estimate river discharge using the Global Runoff Data Centre (GRDC) river discharge and inland altimetry water level data	Amin Shakya	55
81	River Discharge Data Assimilation from Simulated Daily Wide-Swath Observations in the Mississippi Basin	Hind Oubanas	62
82	A Method for Estimating Daily Discharge Using Space-based Discharge Estimates	Siqi Ke	69
83	Interannual Variability of Water Level in Ladoga and Onega Lakes Based on Radar Altimetry	Sergey Lebedev	76
84	Assessing the accuracy of Sentinel-3A altimetry-based water levels of the Odra River using UAV photogrammetry	Matylda Witek	79
85	Preliminary performance assessment of the water surface elevation of HR SWOT products based on comparisons with in-situ networks and in-flight nadir altimetry missions	Julien Renou	81
86	Inland water monitoring using Cryosat-2 data: advantages and limitations	Angelica Tarpanelli	83
87	Improving inland water altimetry based on analyzing dual-frequency altimeter waveform data	shuhua yu	91
88	SARMat: SAR Altimetry Matlab software package for Level 1 and Level 2 processing	Shahin Khalili	97
89	Low water maps of groundwater table using multisatellite data in the Inner Niger Delta (IND) over the period 2000-2022	Cassandra Normandin	105
90	Navigating Uncertainties: Optimizing SWOT Assimilation for River Discharge Estimation	Kaushlendra Verma	115
91	Global Evaluation of Lake Water Height and Variability Using ICESat-2 Satellite Altimetry	Jérémy Guilhen	122
92	Using Spatial Altimetry to Calibrate and Validate Surface Water Storage Modelling In The Floodplains of the Amazon Basin	Jérémy Guilhen	123
93	Indus basin water storage variation estimation combining altimetry and gravimetry data sets	Julien Lefebve	124
94	Three Decades of Altimetry Data Records and Progress: Global Water Measurements of Surface Elevation over Lakes, Reservoirs, Wetlands, and Rivers	Martina Ricko	131
95	How far does river flooding change the morphology of a floodplain? A case study using UAV images analysis related to Sentinel-3A satellite altimetry on the Odra River, Poland.	Joanna Remisz	134
96	Monitoring lakes and reservoirs from space using ICESat-2 and GRACE Follow-On missions	Jean-Paul Boy	164
97	Validation of SWOT data and analysis of multi-scale hydraulic signatures visibility with a wavelet-based algorithm and in situ data on the Maroni, Negro and Tsirinbihina Rivers	Pierre-andré Garambois	166
98	Inland Water Level Monitoring with Radar Altimetry : the SpecR retracker	Fernando Niño	170
99	C3S: An increased spatial coverage of monitored lakes with nadir altimetry for water level products.	Gabriel Calassou	180
100	Validation of lake levels from Sentinel-6MF with in-situ data and other satellite altimeters	Bjarke Nilsson	183
101	"Swath processing" with Sentinel-6: Measuring densely sampled river elevation profiles	Frithjof Ehlers	185
102	Increasing lake temporal coverage with data from ERS-1, ERS-2 and ENVISAT. TDP Inland Water from FDR4ALT	Beatriz Calmettes	187
103	First results of the CCI River Discharge precursor project	Sylvain Biancamaria	207
104	Introducing JASTER (Jason-2/3 Altimetry Stand-Alone Tool for Enhanced Research) for Monitoring Reservoir Water Elevation Changes	Hyongki Lee	238
105	Application of Satellite SAR Altimetry Over the coast and Sebkha of Oran (Algeria)	Benkouider Touati	241
106	hydroweb.next: a centralized access to hydrology data, including SWOT-HR	Lionel Zawadzki	261
107	IRIS: Global Reach-Scale River Surface Slopes from the ICESat-2 Satellite	Daniel Scherer	269
108	Innovative Autonomous UAV solution for in-situ Cal/Val of satellite altimetry over inland waters and other surfaces	Valentin Fouqueau	275
109	The performance of SWOT nadir altimeter for monitoring inland water bodies: A first assessment	Mohammad J. Tourian	293
110	Sentinel-6 Hydrology Measurements Demonstration over the Garonne	Jean-Damien Desjonqueres	352
111	Assessment of SWOT L2 HR PIXC (pixel cloud) products for riverbed recognition and characterization: case of the Old Rhine, between Kembs (France) and Breisach (Germany).	Hervé Yésou	359
112	Evaluation of the ICESat-2 Inland Water Level Product ATL13 over Dams in Khuzestan, Iran	Abdolnabi Abdeh Kolahchi	361
113	Raspberry Pi Reflector Deployment along the Rhine River	Makan Karegar	383
114	Multivariate Data Assimilation for Hydrological Forecasting in Large River Basins: A Case Study on the Niger River Basin Using the HYFAA Modeling Platform	Vanessa Pedinotti	395
115	Evaluation of nadir-altimetry over Chinese River	Jiaming Chen	413
116	Performance of Satellite Altimetry Observations of Water Surface Elevation over Tropical Rivers in Indonesian Borneo	Yohanes Budi Sulistioadi	417
117	Monitoring water level and discharge over a 200 km reach of the Rhine River	Luciana Fenoglio-Marc	418
118	On the Feasibility of Monitoring Lakes Volume Variations with Satellite Imagery and Altimetry	Pierre Fabry	447
119	Global River Discharge Estimation from Traditional Altimetry Missions and SWOT	Isadora Rezende De Oliveira Silva	449
120	On the performance of the old and new generation of satellite altimetry missions to monitor inland water bodies	Shirzad Roohi	460
121	Surface Water and Ocean Topography (SWOT) Mission for Flood Mapping and Hydrological Model Calibration in India	Girish Patidar	464
122	Comparing water levels obtained from Sentinel-3A altimetry with field measurements conducted using UAV LiDAR: a case study from the Odra River (W Poland)	Grzegorz Walusiak	471
123	Assessing the Impact of Climate Change on Lake İznik: A Decade of Water Level and Surface Area Dynamics	Muharrem Hilmi Erkoç	472

Detailed Posters' List by Themes

POSTER ID	POSTER PROGRAMME Theme 7: ADVANCES IN OUR UNDERSTANDING OF THE CRYOSPHERE	Presenter	Abs. ID
124	14 years of CryoSat Data Quality Control: Current Status of the Ice and Ocean Processors	Alice Charles	24
125	Deep Topographic Profile Regression using Satellite Radar Altimetry over Antarctica	Joe Phillips	125
126	Cryo-TEMPO: Expanding the radar altimetry portfolio with CryoSat-2 Thematic Products over Land and Sea Ice, Polar and Coastal Oceans, and Inland Waters	Malcolm McMillan	138
127	Producing Ice Sheet Surface Elevation Change Time Series with Kalman Filtering	Robert Wassink	142
128	PRODEM: An annual series of summer DEMs (2019-2023) for the marginal areas of the Greenland Ice Sheet	Mai Winstrup	205
129	AWI-ICENet1: A convolutional neural network retracker for ice altimetry	Veit Helm	260
130	Observation of the spatial-temporal variation of Antarctic sea ice thickness from CryoSat-2	Xiaoyi Shen	321

POSTER ID	POSTER PROGRAMME Theme 8: BUILDING THE 30-YEAR ALTIMETRIC RECORD: CHALLENGES AND ACHIEVEMENTS	Presenter	Abs. ID
131	Exploring Siamese Network to Estimate Sea State Bias for Wide-Swath Altimetry	Chunyong Ma	39
132	The Jason-3 error budget performance	Benjamin Flamant	102
133	The Longest Single Satellite Altimetry Record for Oceans: CryoSat Ocean Products Validation and Science	Chris Banks	126
134	A Kalman-based approach to simultaneously estimate regional vertical land motion and mission-specific systematic errors using combined altimeter, tide gauge, and GPS records	Mohammad-Hadi Rezvani	152
135	Physically-consistent mapped altimetry products on user-customizable grids	Cimarron Wortham	154
136	Validation and Understanding of SWOT and coastal altimetric data	Audrey Hyeans	173
137	CryoSat Long-Term Ocean Data Analysis and Validation: Final Words on GOP Baseline-C	Marc Naeije	206
138	Improving the filtering scheme of the ionospheric correction	Bastien Courcol	214
139	Comparison between variations of mean sea sevel topography using satellite altimetry and missions with synthetic aperture radar technology in the Brazilian coast.	Larissa Souza	222
140	Assembling 30 years of satellite wave measurements for climate science : the Sea State Climate Change Initiative	Guillaume Dodet	226
141	Global review of Haiyang-2 satellites: data performances, contributions, and prospects	Alexandre PHILIP	229
142	Jason-3 In-flight performance	Benjamin Flamant	255
143	Assessing the use of on-board calibration to unbias the sigma0 estimated by Jason-2 and Jason-3 missions on SSB and GMSL	Victor Quet	273
144	Comparison of Jason-3 and Sentinel-6MF observations in the equatorial band: was Topex right from the start?	Emeline Cadier	298
145	Deriving an end-to-end sea level rise stability uncertainty budget to improve the altimetry record and reach the scientific requirements: the ESA ASELSU project	Noémie Lalau	300
146	SWOT Nadir in orbit Cal/Val and performances assessment	François Bignalet-Cazalet	307
147	Ionospheric correction modelling for altimetry	Remko Scharroo	322
148	Understanding Differences Between Conventional and SAR Altimetry – Resolving Biases and More Opportunities	Christopher Buchhaupt	327
149	Evaluation of water levels derived from past and current radar altimetry missions over the Pacific slope of South America	Frederic Frappart	377
150	Improving Baltic & North Sea Altimetry Products by Integrating Regionalized Corrections	Ludwig Schröder	387
151	Approaching a decade of Sentinel-3 and Sentinel-6 SAR observations: lessons learned and way forward	Emeline Cadier	407
152	Towards Credible Sea Level Projections: Current Status of the 30+ Year Sea Surface Height Climate Data Record	Brian Beckley	445
153	Validation of multi-mission radar altimetry since 2008 at coastal tide gauges	Saskia Esselborn	453

POSTER ID	POSTER PROGRAMME Theme 9: SYNERGY BETWEEN ALTIMETRY, OTHER DATA AND MODELS: "THE INTEGRATED APPROACH"	Presenter	Abs. ID
154	Wave contribution to sea level in the French Façade over 2002-2021 inferred from high-resolution simulations and altimetric observations.	Sonia Ponce De Leon Alvarez	8
155	Comprehensive assessment of sea-ice thickness datasets: The ESA SIN'XS project	Carole Belot	21
156	Towards Synthetizations of the Satellite Altimetry Sea Surface Height Anomaly and NCEI in situ DART® and Tide Gauge Observations in the Improvement of the Gridded Production Using Machine Learning Techniques	Yongsheng Zhang	25
157	Effect of built infrastructure on water regime of Arctic river from synergy of satellite altimetry and hydrodynamic modelling.	Elena Zakharova	33
158	Reconstruction of ocean temperature and salinity profiles in the Northwestern Pacific using satellite SSH and ARGO float data	Osamu Isoguchi	40
159	Synergy between satellite altimetry, sea surface salinity and Argo float data to diagnose mesoscale eddy fluxes of salt	Oleg Melnichenko	49
160	Advancements in Mapping Surface Currents with Doppler Oceanography: Historical Development and Insights from OSCAR Airborne Data during the BioSWOT-Med Campaign	Adrien Martin	109
161	Analysis of fine-scale dynamics in the Balearic Sea through high-resolution in-situ observations, modelling, and SWOT satellite data	Elisabet Verger-Miralles	130
162	Testing ocean currents geostrophy using altimetry products and in situ drifters in a meander of the Antarctic Circumpolar Current South of Tasmania.	Benoit Legresy	165
163	Forecasting river stages at virtual stations of Sentinel-3A: case study from the Odra River (western Poland)	Tomasz Niedzielski	167
164	Contribution of daily surface waters observations versus the current operational constellation of altimeters for hydrological monitoring of under-monitored basins: the Cases of Maroni and Niger basins	Adrien Paris	176
165	Wave-Current Interactions in the Agulhas Current: A Comparative Analysis of Altimeter Products and Wave Models Against Drifters	Ourania Altiparmaki	177
166	Utilizing Satellite Altimetry to Enhance In-Situ Water Level Observations in Least Developed Countries	Guy Schumann	178
167	Multi-observation data assimilation for large-scale hydrologic-hydrodynamic prediction	Sly Wongchuig	181
168	Investigation of GNSS and altimeter derived wave characteristics at the Southern Ocean SOFS site during the SWOT Fast Sampling Phase	Andrea Hay	194
169	Assessing the impact of assimilating high-resolution SLA fields (SWOT) into MOVE/MRI.COM-JPN	Hiroaki Asai	212
170	Operational detection and monitoring of reservoirs using satellite radar altimetry in a multi-mission approach	Cecile Kittel	216
171	Operational Hydrology and the Need for CEOS FRMs	Sajedeh Behnia	217
172	Complementarity of CFOSAT-SWIM, SAR wave mode and spectral ocean wave model for sea-state characterization from space	Charles Peureux	221
173	Portagauge and Satellite Sea level monitoring system for the Southwest Indian Ocean – PASS-SWIO	David Cotton	223
174	Last improvement of the L4 Wave-TAC significant wave height nadir products	Loren Carrere	224
175	WAVE-TAC Copernicus Marine Service : Integrating space observations and improving synergy since 2017	Annabelle Ollivier	230
176	Co-located OLCI optical imagery and SAR altimetry from Sentinel-3 for enhanced surface classification in sea ice	Weibin Chen	232
177	Enhancing Offshore Wind Farm Met-Ocean Data Accessibility: A Machine Learning Approach with Satellite-Derived Wave Measurements in the Celtic Sea	Sophie Whistler	234
178	On the origins of the low-frequency sea surface height variability of the Patagonia shelf region	Vincent Combes	236
179	Preliminary analysis of Mean Sea Surface models along the Brazilian coast	Tulio Alves Santana	240
180	Assessing spatiotemporal misclosure of the Sea Level Budget through a comprehensive analysis of altimetry, time-variable gravity, and ocean salinity measurements	Michael Croteau	254
181	Utilizing Multiparameter Mesoscale Eddy Tracking to Monitor Coral Reef Resiliency	Heather Roman-Stork	258
182	Global mean and local sea level budget from updated observations and residual analysis	Anne Barnoud	266
183	Validation of the SWOT data for eddy identification in open ocean and marginal ice zone	Nikita Sandalyuk	274
184	Cross comparison between altimetric missions data (SWOT, S3, S6) and multiple in-situ campaigns and means over the Garonne River near Marmande	Valentin Fouqueau	277
185	Climate and human impacts on hydrological processes and flood risk in the Ganges delta	Augusto Getirana	304
186	The mean dynamic topography model DTUUH22MDT from satellite and in-situ observations	Per Knudsen	329
187	A Comparison Between KaRIn and Buoy SSH Estimates During the SWOT Cal/Val Phase	Andy Wu	331
188	Toolbox for NGGM/MAGIC	Per Knudsen	332
189	Integrating GNSS-IR into the Greenland tide gauge network – perspectives and first results	Per Knudsen	333
190	Leveraging Multi-Sensor Synergy for Enhanced Understanding of SWOT Data	Lucile Gaultier	334
191	Sea surface height observation experiment by UAV synchronized with SWOT	Zetao Hu	336
192	Towards the next combination mean dynamic topography model DTUUH25MDT	Per Knudsen	339
193	Satellite Altimetry Derived Dynamic Topography Using High-Resolution Geoid Model with Synergized Sea Level Data Sources	Nicole Delpeche-Ellmann	362
194	Recent advancements in joint use of dual-radar ocean observations from CFOSAT mission	Alexey Mironov	376
195	CIMR and CRISTAL: synergies in the polar domain	Michele Scagliola	381
196	Learning from CFOSAT to refine altimetry Wave and Sea Level uncertainty	Marine De Carlo	385
197	Synergy between Altimetry, AIS and Satellite tracer data to reconstruct surface ocean currents.	Brahim Boussidi	409
198	Analysis of Submesoscale Processes in the Southwestern Atlantic: Starting Insights for Biogeochemical Ecoregions from SWOT Altimetry	Sebastián Cornejo-Guzmán	424
199	Bayesian trans-dimensional inversion for Arctic ice and snow retrievals from radar (CryoSat-2) and laser (ICESat-2) altimetry.	Elie René-Bazin	479

POSTER ID	POSTER PROGRAMME Theme 10: OUTREACH	Presenter	Abs. ID
200	Expanding the use of Copernicus marine altimetry data: EUMETSAT user support and training activities	Vinca Rosmorduc	113
201	CTOH products to extend the range of altimetry applications over the ocean and contiental surfaces	Fabien Léger	117
202	OpenADB: DGFI-TUM's Open Altimeter Database	Christian Schwatke	468

POSTER ID	POSTER PROGRAMME Theme 11: OUTLOOK: THE NEXT GENERATION ALTIMETRY	Presenter	Abs. ID
203	Assessment of SWOT KaRIn spectral performance and error requirements during the 1-day repeat orbit	Francesco Nencioli	114
204	Collaborative Data Challenge for Sea Level and Surface Current Mapping: Review of Operational Products and Emerging Methods	Sammy Metref	116
205	CLEV2ER: The CRISTAL Level-2 Prototype Processors and R&D for Land Ice and Inland Water	Malcolm McMillan	136
206	Combining Fully Focused and Swath Processing for Glacier applications	Charlie McKeown	145
207	A Performance Assessment Tool (PAT) to evaluate CRISTAL End-to-End Performances	Martina Gallego	148
208	The CRISTALair processor	Clara Colet Díaz	282
209	CRISTALair: CRISTAL's Airborne Demonstrator	Valeria Gracheva	371
210	Fast estimation of spatio-temporal covariance models of SSH from satellite track data	Arthur Guillaumin	435
211	Approximated Likelihood for Global SSH interpolation	Cliff Lo	438
212	Vertical Ranging and Slant Ionospheric TEC Precision Evaluation for GNSS-R Spaceborne Wide Swath Interferometric Alitmetry Based on Shore-Based Experiments	Junming Xia	458
213	Status in the development of the CRISTAL Marine Data Centre	Thomas Moreau	477

POSTER ID	POSTER PROGRAMME Theme 12: The International DORIS Service (IDS) : new challenges	Presenter	Abs. ID
214	Co-located space geodetic techniques observatory in India: progress toward installation of the IDS scientific station	Vikash Kumar	340
215	NASA's CDDIS: 2024 Status Update	Taylor Yates	432

POSTER ID	POSTER PROGRAMME Theme 13: S3 - S6 VT and OSTST Technical Presentations	Presenter	Abs. ID
216	Assessment of an Adaptive Subwaveform Coastal Retracker (ASCR) over global coastal oceans for SAR altimetry	Fukai Peng	18
217	Sentinel-3 Land STM: Performance of the S3A and S3B Surface Topography Mission over Land Ice	Stine Kildegaard Rose	22
218	Comparison of CERES and ERA5 products for the Earth Radiation Pressure modelling of Copernicus Sentinel Satellites	Heike Peter	31
219	Level-1 processing of Unfocused SAR altimetry data: 15 years of innovations	Michele Scagliola	48
220	Sentinel-3 Land STM: performances of the Hydrology Thematic Products over Inland Waters	Julien Renou	65
221	Global Ocean Data Quality Assessment of SARAL/AltiKa's GDR-F products	Sabine Philipps	104
222	TOPEX GDR-F and SWOT nadir: calibration of two new datasets from the beginning and end of the 30 years of altimetry time series	Denise Dettmering	110
223	Instrumental calibration of Copernicus altimeters	Pablo Garcia Arnaud	111
224	DUACS DT-2024: the new reprocessing of the sea level anomaly Level-3&4 altimetry products	M-Isabelle Pujol	156
225	Improvements in in situ instrumentation at the Bass Strait satellite altimetry cal/val facility to respond to the advances in altimetry precision.	Benoit Legresy	161
226	Numerical convolutional model for retracking Sentinel-6 delay/Doppler altimetry data	Alba Granados	175
227	Sentinel 3 active radar calibrator ground transponder data analysis: an overview of 1.5 years collected statistics at Frank Silvio Marzano Cal/Val site in Leonessa.	Stefano Perticaroli	179
228	Enhanced wet tropospheric correction coastal methodologies for the Sentinel-3 mission	Pedro Aguiar	202
229	The new Sentinel-3 Hydro-Cryo (Land) thematic products: Current status and future evolutions	Giovanni D'Apice	210
230	Development of Altimetry Quality Assurance Guidelines	Sajedeh Behnia	213
231	Advancing Sea-State Characterization with fully-focused SAR Altimetry: Insights and Innovations	Ourania Altiparmaki	245
232	Homogeneous multi-mission 20Hz sea level anomaly products assessment	Sabine Philipps	246
233	Evaluating Sentinel6-MF High- and Low- resolution altimeter sea state range bias (SSB) across differing numerical retrackers	Hui Feng	257
234	Preliminary assessment of the radiometer-based wet tropospheric correction on SWOT products	Isabel Cardoso	262
235	Added value of 20 Hz corrections in Sentinel-3 SRAL level 2 products	Hassan H. Farahani	272
236	Applying new processing capabilities in the SPP chain for improving wave characterization from Sentinel-3 and Sentinel-6MF mission data	Laetitia Rodet	283
237	Results from Independent Calibration and Validation of the Sentinel-6 Michael Freilich Mission	Linda Forster	286
238	Altimeter calibrations in the preliminary four years' operation of Wanshan calibration site	Wanlin Zhai	287
239	Jason-3 Near-Real Time Products Latency and Availability From September 1, 2023 to August 31, 2024	Donald Richardson	301
240	NOAA's Jason Products and current Jason-3 NOAA Near Realtime Ground Processing System	Donald Richardson	303
241	Sentinel-6B Commissioning Calibration and Validation Implementation Plan	Cristina Martin Puig	316
242	Validation of Sentinel-6 Michael Freilich operational products in a multi-mission context	Clément Lacrouts	323
243	Processing Fully-Focussed SAR with GPUs	Albert García-Mondéjar	324
244	Revisiting the Antenna Pattern for Conventional and SAR Altimetry – Is Gaussian Good Enough?	Christopher Buchhaupt	325
245	Sentinel-3 Marine Products - Status and Evolutions	Bruno Lucas	338
246	Catalina Island Dual Band Transponder	Jean-Damien Desjonqueres	351
247	An accelerated processor for the Fully-Focussed SAR backprojection algorithm	Pol Villalvilla Ornat	360
248	Jason-2 GDR-F reprocessing impact on mission performances over ocean	Helene Roinard	366
249	Improvement and homogenization of the long-term sea-level estimations series through the TOPEX/Poseidon-1 GDR-F reprocessing	Helene Roinard	370
250	MicroWave Expertise center : a work environment for microwave data exploration	Marie-laure Frery	373
251	A performance analysis of Fully Focused SAR processors: From classic and GPU-accelerated backprojection to numerical and closed-form omega-K algorithms.	Sergi Hernández-Burgos	379
252	An overview of the Fully Focused SAR Omega-K Closed-Form algorithm	Sergi Hernández-Burgos	380
253	Impact of a linear scaling scheme of GIM ionopsheric correction on Jason mission performances	Pierre Prandi	384
254	Portable Corner Reflector Campaigns: Results and Lessons Learnt	Adrià Gómez Olivé	390
255	Statistics of estimated geophysical parameters for sea states with swell.	Chris Ray	406
256	Comparing Sentinel-6 delay doppler altimeter and SWOT interferometer ocean measurement performance under varied ocean wave conditions	Doug Vandemark	428
257	CRYOSAT-2 OCEAN PROCESSOR: PRESENTATION OF THE BASELINE D	Laiba Amarouche	461
258	Sentinel-3A/B microwave radiometers performance assessment and long-term monitoring	Mohamed Mrad	463
259	Sentinel-6 Michael Freilich and Jason-3 Tandem Flight Exploitation (S6-JTEX) study	Thomas Moreau	476