



2025 SWOT Science Team Meeting

Tuesday, October 14 2025 - Friday, October 17 2025

Nearly three years after its launch, this science team meeting will showcase the extensive scientific advancements achieved using SWOT data, which has been made publicly available on a global scale. SWOT promises to highlight remarkable accomplishments in oceanography, hydrology, estuary studies, cryosphere research, and groundbreaking discoveries, as well as the emergence of new user communities inspired by SWOT.

One particular objective of this event is to assess the L2 'D0' products standard available since May 2025 in forward processing (PID0), the reprocessing is currently ongoing (PGD0).

With SWOT data now open to the public, this meeting marks the first occasion where participation is extended beyond the Science Team members. We are excited to share and discuss the impressive results from broader scientific and end users communities.

The workshop will be held in-person in Arcachon, France from 14 to 17 October, 2025.

Event's program

List of event's sessions

Tuesday, October 14 2025

09:00 - 12:30

[Opening Plenary Session](#)

Plenary session room (Auditorium)

14:00 - 18:00

[Afternoon Plenary Session: Deltas, Estuaries and Coasts](#)

Plenary session room (Auditorium)

18:00 - 21:00

[Poster Session: Part 1](#)

Poster session room

Wednesday, October 15 2025

08:45 - 10:45

[Oceanography: LR SWOT Data and Ocean CalVal](#)

Splinter room for Oceanography (Auditorium)

09:00 - 10:35

[Hydrology: Updates to HR products and performance assessment for version D](#)

Splinter room for Hydrology (Ambassadeur)

11:00 - 12:30

[Oceanography: Calibration and Validation](#)

Splinter room for Oceanography (Auditorium)

11:00 - 12:30

[Hydrology: Updates to prior databases, L2 discharge and storage change, and FloodPlain DEM](#)

Splinter room for Hydrology (Ambassadeur)

14:00 - 17:00

[Oceanography: Regional Validation](#)

Splinter room for Oceanography (Auditorium)

14:00 - 17:30

[Hydrology: HR SWOT Data \(Data Validation & Enhancement\)](#)

Splinter room for Hydrology (Ambassadeur)

17:30 - 18:30

[Poster Session: Part 2](#)

Poster session room

Thursday, October 16 2025

09:00 - 10:30

[Hydrology: SWOT Lakes, Estuaries and Wetlands \(SLEW\)](#)

Splinter room for Hydrology (Ambassadeur)

09:00 - 12:30

[Deltas, Estuaries and Coasts](#)

Splinter room for Deltas, Estuaries and Coasts (Moulleau)

09:00 - 12:30

[Oceanography: Velocities](#)

Splinter room for Oceanography (Auditorium)

11:00 - 12:30

[Hydrology: River Science Working Group](#)

Splinter room for Hydrology (Ambassadeur)

14:00 - 15:30

[Cryosphere: Sea Ice, SLA and glaciers](#)

Splinter room for Cryosphere (Moulleau)

14:00 - 15:30

[Oceanography: Wind and Waves](#)

[Splinter room for Oceanography \(Auditorium\)](#)

14:00 - 15:30

[Hydrology: Discharge Algorithms Working Group \(DAWG\)](#)

[Splinter room for Hydrology \(Ambassadeur\)](#)

16:00 - 17:00

[Oceanography: Tides and Inertia-Gravity Waves](#)

[Splinter room for Oceanography \(Auditorium\)](#)

16:00 - 17:30

[Hydrology: Global Hydrology Modeling Working Group](#)

[Splinter room for Hydrology \(Ambassadeur\)](#)

16:00 - 17:30

[Cryosphere: Lakes](#)

[Splinter room for Cryosphere \(Moulleau\)](#)

17:30 - 18:30

[Poster Session: Part 3](#)

[Poster session room](#)

Friday, October 17 2025

09:00 - 10:30

[Oceanography: Inversion/Assimilation](#)

[Splinter room for Oceanography \(Auditorium\)](#)

09:00 - 12:30

[Hydrology: Open Science & Applications](#)

[Splinter room for Hydrology \(Ambassadeur\)](#)

11:00 - 12:00

[Oceanography: Mean Sea Surface](#)

[Splinter room for Oceanography \(Auditorium\)](#)

14:00 - 16:00

[Closing Plenary Session](#)

[Plenary session room \(Auditorium\)](#)

Oral sessions

Tuesday, October 14 2025

08:00 - 09:00: Registration/Welcome Coffee

Opening Plenary Session

Session chairs: Francesco d'Ovidio, Hind Oubanas
(Tue, Oct 14 2025, 09:00 - 12:30)

Plenary session room (Auditorium)

09:00 - 09:15:

[Welcomes](#)

Hind Oubanas (INRAE, France), Francesco d'Ovidio (LOCEAN, France)

09:15 - 09:30:

[Program Status](#)

Yannice Faugere (CNES, France), Delphine Leroux (CNES, France), Nadya Vinogradova Shiffer (NASA, USA)

09:30 - 09:45:

[Mission Status](#)

Christophe Maréchal (CNES, France), Parag Vaze (NASA JPL, USA)

09:45 - 10:30:

[Science Status: Hydrology-Estuaries-Ocean-Cryosphere](#)

Francesco D'ovidio (LOCEAN, France), Tom Farrar (Woods Hole Oceanographic Institution, USA), Lee Fu (JPL, USA), Hind Oubanas (INRAE, France), Tamlin Pavelsky (University Of North Carolina at Chapel Hill, USA), Nadia Ayoub (LEGOS, France)

10:30 - 11:00: Coffee break

11:00 - 11:30:

[Products, Data Access and Tools](#)

Cyril Germineau (CNES, France), Charlotte Emery (CNES, France), TBD PODAAC (NASA JPL, USA)

11:30 - 12:00:

[Status of Version D, and differences between product versions](#)

Alejandro Bohé (CNES, France), Roger Fjørtoft (CNES, France), Curtis Chen (JPL, USA), Shailen Desai (JPL, USA)

12:00 - 12:30:

[The Arcachon Bay: A coastal laboratory for unlocking SWOT's topographic potential](#)

Frédéric Frappart (INRAE UMR ISPA, France), Edward Salameh (Université de Rouen Normandie, France)

12:30 - 14:00: Lunch Break (Espace Deganne)

Afternoon Plenary Session: Deltas, Estuaries and Coasts

Session chairs: Nadia Ayoub, Marc Simard, Imen Turki
(Tue, Oct 14 2025, 14:00 - 18:00)

Plenary session room (Auditorium)

14:00 - 14:20:

[Hydrodynamic and tide gauge data assimilation modeling of the Gironde Estuary : toward cal/val capabilities?](#)

Florent Lyard (CNRS/LEGOS, France), Nadia Ayoub (CNRS/LEGOS, France), Lucie Caubet (CNES/Université de Toulouse/LEGOS, France), Pascal Bonnefond (Observatoire de Paris/LTE, France)

14:20 - 14:40:

[A Benchmark Dataset of Water Levels and Waves for SWOT Calibration and Validation: Insights from the St. Lawrence Estuary and Saguenay Fjord](#)

Pascal Matte (Environment and Climate Change Canada, Canada), Marc Simard (Jet Propulsion Laboratory, USA), Alexandra Christensen (Jet Propulsion Laboratory, USA), Xavier Chartrand (Institut des Sciences de la Mer (ISMER), Canada), David Purnell (Precipice Sensors Inc., Canada), Silvia Innocenti (Environment and Climate Change Canada, Canada), Cédric Chavanne (Institut des Sciences de la Mer (ISMER), Canada), Dany Dumont (Institut des Sciences de la Mer (ISMER), Canada), Gabriela Siles (Université Laval, Canada), Mohammed Daboor (Environment and Climate Change Canada, Canada), Daniel Peters (Environment and Climate Change Canada, Canada)

14:40 - 15:00:

[Using SWOT Observations to Characterize Hydrodynamics and Hydroperiod in River Deltas and Estuaries](#)

Marc Simard (Jet Propulsion Laboratory, California Institute of Technology, United States), Alexandra Christensen (Jet Propulsion Laboratory, California Institute of Technology, USA), Michael Denbina (Jet Propulsion Laboratory, USA), Pascal Matte (Environment and Climate Change Canada, Canada), Ali Payandeh (Jet Propulsion Laboratory, California Institute of Technology, USA), Cecilia Lopez-Gamundi (Jet Propulsion Laboratory, California Institute of Technology, USA)

15:00 - 15:30:

[Discussion of Deltas, Estuaries and Coasts Working Group](#)

Deltas, Estuaries and Coasts Leads

15:30 - 16:00: Coffee break

16:00 - 16:15:

[SWOT-based intertidal topography retrieval using mission-only data: validation and potential applications](#)

Nushrat Yeasmin (LIENSs, UMR 7266, CNRS/La Rochelle Université, La Rochelle, France), Laurent Testut (LIENSs, UMR 7266, CNRS/La Rochelle Université, La Rochelle, France), Valérie Ballu (LIENSs, UMR 7266, CNRS/La Rochelle Université, La Rochelle, France)

16:15 - 16:30:

[Predicting flux partitioning in river delta networks using SWOT to produce global delta products and quantify the response of deltas to climate and human-induced change](#)

Paola Passalacqua (The University of Texas at Austin, United States), Eleanor Henson (The University of Texas at Austin, United States), Anastasia Piliouras (Pennsylvania State University, United States), Jon Schwenk (Los Alamos National Laboratory, United States), Michael Lamb (California Institute of Technology, United States), Colin Gleason (University of Massachusetts Amherst, United States)

16:30 - 16:45:

[Frontiers in Estuary modeling with SWOT– the tidal Bore in the Severn Estuary revealed from satellite.](#)

Rasmus Lørup Arildsen (Dr, Denmark), Ole Baltazar Andersen (DTU Space, Denmark), Bjarke Nilsson (DTU Space, Denmark)

16:45 - 17:00:

[Investigating Barotropic Pressure Gradients in River Plumes Using SWOT](#)

Agata Piffer Braga (Scripps Institution of Oceanography (UCSD), United States), Sarah N. Giddings (Scripps Institution of Oceanography (UCSD), United States), Iury Simoes-Sousa (Woods Hole Oceanographic Institution, United States), Angelica Rodriguez (Jet Propulsion Laboratory NASA, United States), Joanna L. Carter (Scripps Institution of Oceanography (UCSD), United States)

17:00 - 17:15:

[Poster presentations of Deltas, Estuaries and Coasts Working Group](#)

Deltas, Estuaries and Coasts Leads

17:15 - 17:30:

[Discussion of Deltas, Estuaries and Coasts Working Group](#)

Deltas, Estuaries and Coasts Leads

Poster Session: Part 1

Session chairs: Francesco d'Ovidio, Hind Oubanas
(Tue, Oct 14 2025, 18:00 - 21:00)

18:00 - 21:00: IceBreaker

Poster session room

18:00 - 21:00:

[Working Groups for poster session part 1: 'Oceanography: Regional Validation, Wind and Waves', 'Deltas, Estuaries and Coasts', 'Hydrology: Open Science & Applications', 'Cryosphere: Sea Ice, SLA, glaciers and Lakes'](#)

(see "Posters Sessions" section for posters' list)

Posters format shall be A0 (84.1 cm x 118.9 cm) vertical size

08:00 - 09:00: Welcome Coffee

Oceanography: LR SWOT Data and Ocean CalVal

Session chairs: Alejandro Bohé, Curtis Chen
(Wed, Oct 15 2025, 08:45 - 10:45)

Splinter room for Oceanography (Auditorium)

08:45 - 08:50:

[Introduction of the LR SWOT Data and Ocean CalVal session](#)

Alejandro Bohé (CNES, France), Curtis Chen (JPL, USA)

08:50 - 09:00:

[Impacts of FPGA Reconfigurations on Data Availability Over Polar Regions](#)

Albert Chen (JPL), Curtis Chen (JPL, USA), Alejandro Bohé (CNES, France)

09:00 - 09:10:

[Phase unwrapping over ice sheets](#)

Albert Chen (JPL), Curtis Chen (JPL, USA), Alejandro Bohé (CNES, France)

09:10 - 09:20:

[Doppler centroid jumps, potential performance improvement near coasts](#)

Albert Chen (JPL), Alex Fore (JPL), Curtis Chen (JPL, USA), Alejandro Bohé (CNES, France)

09:20 - 09:30:

[Improving the rain, ice and xcal flags](#)

Mathias Raynal (CNES, France)

09:30 - 09:40:

[Status on KaRIn's wind speed estimates](#)

Alejandro Bohé (CNES, France), Bryan Stiles (JPL, USA)

09:40 - 09:55:

[Refining KaRIn's SWH estimates \(open ocean and coastal\)](#)

Alejandro Bohé (CNES, France)

09:40 - 09:55:

[Refining KaRIn's SWH estimates \(open ocean and coastal\)](#)

Alejandro Bohé (CNES, France)

09:55 - 10:15:

[Sea State Bias: current work towards improving the model](#)

Alejandro Bohé (CNES, France)

10:15 - 10:30:

[Sea State Bias: using KaRIn's wind speed and SWH estimates as inputs to the correction](#)

Beatriz Molero (CLS, France)

10:30 - 10:45:

[Validation and calibration of the 2km x 2km mitigation Doppler](#)

Pierre Dubois (CLS, France)

Hydrology: Updates to HR products and performance assessment for version D

Session chairs: Roger Fjørtoft, Brent Williams
(Wed, Oct 15 2025, 09:00 - 10:35)

Splinter room for Hydrology (Ambassadeur)

09:00 - 09:10:

[Filtering of river products](#)

Alex Corben (JPL, USA), Roger Fjørtoft (CNES, France)

09:10 - 09:40:

[River performance update \(focus on river width\)](#)

Brent Williams (JPL, USA), Alex Corben (JPL, USA), Tamlin Pavelsky (University Of North Carolina at Chapel Hill, USA)

09:40 - 09:50:

[River uncertainty characterization](#)

Brent Williams (JPL, USA), Damien Desroches (CNES, France)

09:50 - 09:55:

[Future algorithm work: river width](#)

Alex Corben (JPL, USA), Charlotte Emery (CNES, France)

09:55 - 10:10:

[Lake performance update](#)

Claire Pottier (CNES, France), Roger Fjørtoft (CNES, France)

10:10 - 10:35:

[Future algorithm work: lake extent and reorganization of lake products](#)

Claire Pottier (CNES, France), Roger Fjørtoft (CNES, France)

10:30 - 11:00: Coffee break

Oceanography: Calibration and Validation

Session chairs: Pascal Bonnefond, Francesco Nencioli
(Wed, Oct 15 2025, 11:00 - 12:30)

Splinter room for Oceanography (Auditorium)

11:00 - 11:10:

[SWOT-KaRIn Level-3 Algorithms and Products Overview](#)

Cécile Anadon (CLS, France), Anaëlle Treboutte (CLS, France), Gaétan Meis (CLS, France), Robin Chevrier (CLS, France), Antoine Bonnin (CLS, France), Marie-Isabelle Pujol (CLS, France), Clément Ubelmann (Datlas, France), Gérald Dibarbouré (CNES, France)

11:10 - 11:20:

[Global assessment of SWOT small-scale performance via synergy with surface chlorophyll observations](#)

Aurelien Deniau (Collecte Localisation Satellites, France), Francesco Nencioli (Collecte Localisation Satellites, France), Pierre Prandi (Collecte Localisation Satellites, France), Maxime Ballarotta (Collecte Localisation Satellites, France), Matthias Raynal (CNES, France)

11:20 - 11:30:

[Extending the Corsica facilities up to SWOT swath](#)

Pascal Bonnefond (Observatoire de Paris - LTE, France), Olivier Laurain (OCA/Geoazur, France), Michel Calzas (DT-INSU, France), Christine Drezen (DT-INSU, France), Lionel Fichen (DT-INSU, France), Antoine Guillot (DT-INSU, France), Gérald Dibarbouré (CNES, France), Thierry Guinle (CNES, France), Nicolas Picot (CNES, France), Philippe Schaeffer (CLS, France)

11:30 - 11:40:

[Mediterranean Sea fine-scale dynamics as revealed by SWOT](#)

Louise Rousselet (CNRS, France), Jean-Baptiste Roustan (SHOM, France), Alexandre Barboni (LEGOS, France), Anne Petrenko (MIO, France), Anthony Bosse (MIO, France), Francesco d'Ovidio (LOCEAN, France), Pierre Garreau (IFREMER, France), Franck DUMAS (SHOM, France), Stéphanie Barrillon (MIO, France), Andrea Doglioli (MIO, France)

11:40 - 11:50:

[Objective Analysis Method for SWOT Microwave Radiometers: Wet Tropospheric Correction for Nadir and Karin altimeters](#)

Marie-Laure Frery (CNES, France), Bruno Picard (Fluctus, France), Gérald Dibarboure (CNES, France), Thibaut Pirotte (CLS, France), Francois Bignalet-Cazalet (CNES, France), Matthias Raynal (CNES, France)

11:50 - 12:00:

[Strengths and limitations of SWOT geophysical corrections](#)

Francesco Nencioli (Collecte Localisation Satellites, France), Matthias Raynal (CNES, France), Pierre Prandi (Collecte Localisation Satellites, France)

12:00 - 12:10:

[Can the Sentinel-3 Next Generation Topography Altimeter Mission's continuity with Sentinel-3 be assessed with a 4-Hour Tandem Phase?](#)

Noémie Lalau (Magellium, France), Thomas Vaujour (Magellium, France), Michaël Ablain (Magellium, France), Gérald Dibarboure (CNES, France), François Boy (CNES, France), Nicolas Picot (CNES, France), Alejandro Egido (ESA, Netherlands), Craig Donlon (ESA, Netherlands), Robert Cullen (ESA, Netherlands)

12:10 - 12:30:

[Discussion of Ocean Cal/Val Working Group](#)

Ocean Cal/Val Leads

Hydrology: Updates to prior databases, L2 discharge and storage change, and FloodPlain DEM

Session chairs: Hind Oubanas, Tamlin Pavelsky
(Wed, Oct 15 2025, 11:00 - 12:30)

Splinter room for Hydrology (Ambassadeur)

11:00 - 11:20:

[SWORD status](#)

Tamlin Pavelsky (University Of North Carolina at Chapel Hill, USA, USA)

11:20 - 11:30:

[PLD / Prior Lake Database Status](#)

Claire Pottier (CNES, France), Mathilde de Fleury (CS Group, France)

11:30 - 12:00:

[Discharge Status](#)

Hind Oubanas (INRAE, France), Tamlin Pavelsky (University Of North Carolina at Chapel Hill, USA), Colin Gleason (University of Massachusetts Amherst, USA), Pierre-Olivier Malaterre (INRAE, France)

12:00 - 12:10:

[Lake Storage change Status](#)

Mathilde de Fleury (CS Group, France), Claire Pottier (CNES, France)

12:10 - 12:30:

[FloodPlain DEM](#)

Damien Desroches (CNES, France), Brent Williams (JPL, USA)

12:30 - 14:00: Lunch Break (Espace Deganne)

Oceanography: Regional Validation

Session chairs: Louise Rousselet, Jinbo Wang
(Wed, Oct 15 2025, 14:00 - 17:00)

Splinter room for Oceanography (Auditorium)

14:00 - 14:17:

[Mapping the Known and Invisible in the age of SWOT: Fine-Scale Ocean Currents from the VERSO/FaSt-SWOT collaboration](#)

Ananda Pascual (IMEDEA(CSIC-UIB), Spain), Baptiste Mourre (IMEDEA(CSIC-UIB), Spain), Elisabet Verger-Miralles (IMEDEA(CSIC-UIB), Spain), Laura Gómez-Navarro (IMEDEA(CSIC-UIB), Spain), Bàrbara Barceló-Llull (IMEDEA(CSIC-UIB), Spain), Daniel Tarry (APL-UW, US), Eugenio Cutolo (IMT-Atlantique, France), Guiomar López (SOCIB, Spain), Emma Reyes (SOCIB, Spain), Nikolaus Zarokanellos (SOCIB, Spain)

14:17 - 14:34:

[Fine-Scale Upper Ocean Variability in the Kuroshio Extension Region from the Wide-Swath SWOT Measurements](#)

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

14:34 - 14:51:

[Studying the physical-biogeochemical coupling at fine scale with SWOT : first results of the BioSWOT-Med campaign.](#)

Andrea Doglioli (Aix Marseille Univ, Université de Toulon, CNRS, IRD, MIO, Marseille, France), Francesco d'Ovidio (Sorbonne Université, CNRS, IRD, MNHN, Laboratoire d'Océanographie et du Climat: Expérimentations et Approches Numériques (LOCEAN-IPSL), Paris, France), Gérald Grégori (Aix Marseille Univ, Université de Toulon, CNRS, IRD, MIO, Marseille, France), and the BioSWOT-Med Collaboration (*, *)

14:51 - 15:08:

[The Role Of Fine-Scale Circulation In Shaping The Nutricline Unveiled At The SWOT Era. Insights From BioSWOT-Med.](#)

Aude JOEL (MIO, France), Andrea Doglioli (Aix Marseille Univ, Université de Toulon, CNRS, IRD, MIO, Marseille, France., France), Anthony Bosse (Aix Marseille Univ, Université de Toulon, CNRS, IRD, MIO, Marseille, France., France), Léa Buniak (Aix Marseille Univ, Université de Toulon, CNRS, IRD, MIO, Marseille, France., France), Francesco D'Ovidio (Sorbonne University, CNRS, IRD, MNHN, Oceanography and Climate Laboratory: Experiments and Numerical Approaches (LOCEAN-IPSL), 75005, Paris, France, France), Ricardo Martellucci (National Institute of Oceanography and Applied Geophysics – OGS, Sgonico (TS), Italy., Italy), Thierry Moutin (Aix Marseille Univ, Université de Toulon, CNRS, IRD, MIO, Marseille, France., France), Sandra Nunige (Aix Marseille Univ, Université de Toulon, CNRS, IRD, MIO, Marseille, France., France), Massimo Pacciaroni (National Institute of Oceanography and Applied Geophysics – OGS, Sgonico (TS), Italy., Italy), Elvira Pulido-Villena (Aix Marseille Univ, Université de Toulon, CNRS, IRD, MIO, Marseille, France., France)

15:08 - 15:25:

[Fine scale observations in the very dynamic Antarctic Circumpolar Current Polar Front under SWOT over 18 months.](#)

Benoit Legresy (CSIRO, Australia), Yann-Treden TRANCHANT (University of Tasmania, Australia), Ash PARKER (CSIRO, Australia), Bea PENA-MOLINO (CSIRO, Australia)

15:30 - 16:00: Coffee break

16:00 - 16:17:

[Ocean Mesoscale Hot-spot at the High Latitudes: the Lofoten Basin](#)

Antonio Bonaduce (NERSC, Norway), Artem Moiseev (NERSC, Norway), Le Guillou Florian (Datlas, France), Hart-Davis Michael (DGF-TUM, Germany), Roshin Raj (NERSC, Norway), Fabio Mangini (NERSC, Norway), Johnny Johannessen (NERSC, Norway)

16:17 - 16:34:

[Examining the circulation on the Northwest Atlantic Shelf: along-shelf connectivity and hot spots of shelf-basin exchange](#)

Nicholas Foukal (Skidaway Institute of Oceanography, United States), Svenja Ryan (Woods Hole Oceanographic Institution, USA), W. Gordon Zhang (Woods Hole Oceanographic Institution, USA), Dihya Chaal (Skidaway Institute of Oceanography, USA)

16:34 - 16:51:

[Three-dimensional water mass transformation in the Norwegian Sea revealed by SWOT and in-situ data](#)

Leah Johnson (University of Washington, United States), Alejandra Sanchez-Rios (University of Hawaii, USA), Leo Middleton (University of Gothenburg, Sweden), Harper Simmons (University of Washington, USA), Jennifer MacKinnon (Scripps Institution of Oceanography, USA), Ilker Fer (University of Bergen, Norway), Ailin Brakstad (University of Bergen, Norway)

16:51 - 17:08:

[PATASWOT: Comprehending the physical processes impacting the PATagonian southwestern continental shelf and adjacent open ocean using SWOT data](#)

Laura Ruiz-Etcheverry (CIMA/CONICET-UBA, Argentina), Laura Saraceno (CIMA/CONICET-UBA, Argentina), Florence Birol (LEGOS, France), Maristella Berta (CNR-ISMAR, Italy), Alberto Piola (University of Buenos Aires, Argentina), Claudia Simionato (CIMA/CONICET-UBA, Argentina), Silvia Romero (Servicio de Hidrografía Naval, Argentina), Giuliana Berden (University of Victoria, Canada), Nicolas Bodnariuk (IPSL-CNRS, France), Valeria Guinder (Instituto Argentino de Oceanografía, Argentina), Matias Dinápoli (CIMA/CONICET-UBA, Argentina), Carola Ferronato (Instituto Argentino de Oceanografía, Argentina), Sebastian Cornejo-Guzmán (CIMA/CONICET-UBA, Argentina), Melina Martinez (CIMA/CONICET-UBA, Argentina), Urricariet Milagro (CIMA/CONICET-UBA, Argentina), Fernando Becker (Servicio de Hidrografía Naval, Argentina), Ornella Silvestri (Servicio de Hidrografía Naval, Argentina), Martin Rivarossa (INIDEP, Argentina), Fernando Ramirez (Instituto Argentino de Oceanografía, Argentina), Candela López Fidel (Universidad de Buenos Aires, Argentina), Celeste Antieco (Servicio de Hidrografía Naval, Argentina)

17:08 - 17:25:

[SWOT in the Cryosphere: Promise, Progress, and Challenges](#)

Tasha Snow (University of Maryland, United States), Cassie Stuurman (Jet Propulsion Laboratory, California Institute of Technology, United States), Sara Fleury (Laboratoire d'Etudes en Géophysique et Océanographie Spatiales, Centre National de la Recherche Scientifique (LEGOS/CNRS), France), Mohammed Dabboor (Science and Technology Branch, Environment and Climate Change Canada, Government of Canada, Canada), Laurie Padman (Earth and Space Research, United States), Susan Howard (Earth and Space Research, United States), Zachary Katz (Department of Geophysics, Colorado School of Mines, United States), Sonam F. Sherpa (Institute at Brown for Environment and Society, Brown University/School of Environment, Society, and Sustainability, University of Utah, United States), Ellianna Abrahams (Department of Geophysics and Stanford Data Science Institute, Stanford University, United States), Matthew R. Siegfried (Department of Geophysics, Colorado School of Mines, United States), Imogen Garlick (UCL Department of Space & Climate Physics, United Kingdom), Rosemary Willatt (UCL Department of Earth Sciences, United Kingdom), Felix L. Müller (Deutsches Geodätisches Forschungsinstitut (DGFI-TUM), TUM School of Engineering and Design, Technical University of Munich, Germany), Antonio Bonaduce (Nansen Environmental and Remote Sensing Center (NERSC), Norway), Andrew Thompson (Environmental Science and Engineering, California Institute of Technology, United States), Camryn Kluetmeier (Department of Earth, Marine, and Environmental Sciences, University of North Carolina at Chapel Hill, United States), Pierre Rampal (Institut de Géophysique de l'Environnement, Centre National de la Recherche Scientifique (IGE/CNRS), France), Khalil Bakhtiari Asl (Centre Eau Terre Environnement, Institut National de la Recherche Scientifique, Canada), Sahra Kacimi (Jet Propulsion Laboratory, United States)

Hydrology: HR SWOT Data (Data Validation & Enhancement)

Session chairs: Roger Fjortoft, Nicolas Picot, Brent Williams

(Wed, Oct 15 2025, 14:00 - 17:30)

Splinter room for Hydrology (Ambassadeur)

14:00 - 14:10:

[Performance assessment of the water surface elevation of HR SWOT products based on comparisons with in-situ networks and in-flight nadir altimetry missions](#)

Maxime Vayre (CLS, France), Julien Renou (CLS, France), Marie Chapellier (CLS, France), Nicolas Taburet (CLS, France), Roger Fjortoft (CNES, France), Nicolas Picot (CNES, France), Claire Pottier (CNES, France)

14:10 - 14:20:

[Evaluating SWOT inland water surface elevation with gage information in the United States and Canada](#)

Merritt Harlan (U.S. Geological Survey, United States), David Bjerklie (U.S. Geological Survey, United States), Jack Eggleston (U.S. Geological Survey, United States), Dongmei Feng (University of Cincinnati, United States), Ryan Riggs (U.S. Geological Survey, United States), Cécile Cazals (CS Group France, France), Robert Dudley (U.S. Geological Survey, United States), Elisa Friedmann (University of Massachusetts Amherst, United States), Megan Garner (Environment and Climate Change Canada, Canada), Colin Gleason (University of

Massachusetts Amherst, United States), Yuta Ishitsuka (University of Massachusetts Amherst, Japan), James Leach (Environment and Climate Change Canada, Canada), J. Toby Minear (Cooperative Institute for Research in Environmental Sciences, University of Colorado Boulder, United States), Hind Oubanas (INRAE, France), Tamlin Pavelsky (University of North Carolina Chapel Hill, United States), Taylor Rowley (University of Massachusetts Amherst, United States), Cassie Stuurman (Jet Propulsion Laboratory, California Institute of Technology, United States), Catalina Tagliatela (Jet Propulsion Laboratory, United States), Jacob Zwart (U.S. Geological Survey, United States)

14:20 - 14:30:

[Surface Water and Ocean Topography \(SWOT\) validation of wide swath interferometry over the lakes in the Pyrénées](#)

Jean-Francois Cretaux (CNES/LEGOS, France), Tamlin Pavelsky (University of North Carolina, Chapel Hill, United States of America), Claire Pottier (CNES, France), Damien Desroches (CNES, France), Emmanuel Chapron (GEODE, Université Toulouse Jean-Jaures, France), Arthur Compin (LEF, Toulouse, France), Matthias Raynal (CNES, France), Manon Delhoume (CS SopraSteria Group, France), Grant Parkins (University of North Carolina, Chapel Hill, United States of America), Paul-Gérard Gbetkom (CNRS/LEGOS, France), Muriel Berge-Nguyen (CNES/LEGOS, France), Daniel Moreira (SGB, Rio de Janeiro, Brazil), Roger Fjortoft (CNES, France)

14:30 - 14:40:

[Validation of SWOT in the Yukon River Basin, Alaska](#)

Camryn Kluetmeier (Duke University, United States), Tamlin Pavelsky (University of North Carolina at Chapel Hill, United States), Taylor Rowley (University of Massachusetts Amherst, United States), William Tooley (University of Colorado Boulder, United States), Audrey Turcotte (University of Colorado Boulder, United States), Fiona Bennitt (University of Massachusetts Amherst, United States), Audrey Thellman (University of North Carolina at Chapel Hill, United States), Sarah Cooley (Duke University, United States)

14:40 - 14:50:

[Uncertainty assessment of SWOT's systematic errors calibration algorithm: the complementarity of inland and ocean water elevation data](#)

Étienne Jussiau (CLS, France), Benjamin Flamant (CLS, France), Pierre Prandi (CLS, France), Matthias Raynal (CNES, France), Cécile Anadon (CLS, France), Clément Ubelmann (Datlas, France), Gérald Dibarbouré (CNES, France)

14:50 - 15:00:

[Global Validation of SWOT River Widths Using Deep Learning Water Masking of PlanetScope Imagery](#)

Taylor Rowley (University of Massachusetts, United States), Rangel Daroya (UMass Amherst, United States), Jonathan Flores (UMass Amherst, United States), Colin Gleason (UMass Amherst, United States), Subhansu Maji (UMass Amherst, United States)

15:00 - 15:10:

[Monitoring smaller water structures using SWOT L2 HR Pixel Cloud](#)

Nicolas Gasnier (CNES, France), Lionel Zawadzki (CNES, France)

15:30 - 16:00: Coffee break

16:00 - 16:10:

[DAHITI – Monitoring of water levels and water slopes surface using SWOT KaRIn measurements over small inland waters](#)

Christian Schwatke (DGFI-TUM, Germany), Daniel Scherer (DGFI-TUM, Germany), Denise Dettmering (DGFI-TUM, Germany)

16:10 - 16:20:

[An Enhanced SWOT River Product \(L3\) using Densification Approaches](#)

Hind Oubanas (INRAE, France), Cécile Cazals (CS Group, France), Igor Gejadze (INRAE, France), Isadora Rezende (INRAE, France), Pierre-Olivier Malaterre (INRAE, France), Quittard Dylan (INRAE, France)

16:20 - 16:30:

[An Enhanced Framework for Improving SWOT-based Surface Water Level and River Slope Estimations](#)

JIAMING CHEN (University of Bonn, Germany), Luciana Fenoglio (University of Bonn, Germany), Jürgen Kusche (University of Bonn, Germany)

16:30 - 16:40:

[Improving surface type classification in SWOT PIXC Data to enhance inland water monitoring](#)

Mohammad J. Tourian (University of Stuttgart, Institute of Geodesy, Germany), Danyang Zhao (University of Stuttgart, Institute of Geodesy, Germany), Omid Elmi (University of Stuttgart, Institute of Geodesy, Germany), Junyang Gou (Institute of Geodesy and Photogrammetry, ETH Zurich, Zurich, Switzerland, Switzerland)

16:40 - 16:50:

[Spatial interpolating of SWOT inland water maps based on a hydro/topography-based floodability index and water occurrence](#)

Megumi Watanabe (LIRA, Paris Observatory/IIS, The University of Tokyo, France), Victor Pellet (Laboratoire de Météorologie Dynamique, École Polytechnique, France), Filipe Aires (LIRA, Paris Observatory, France)

16:50 - 17:00:

[SABWAS – Semi-Arid Brazil Water Analysis with SWOT: Advancing Multi-Scale Reservoir Monitoring with Machine Learning and SWOT Products](#)

Rafael OLIVEIRA (Funceme/GET, Brazil), Marielle Gosset (IRD, France), Eduardo Martins (Funceme, Brazil)

Poster Session: Part 2

Session chairs:

(Wed, Oct 15 2025, 17:30 - 18:30)

Poster session room

17:30 - 18:30:

[Working Groups for poster session part 2: 'Oceanography: Calibration and Validation, Inversion/Assimilation, Mean Sea Surface', 'Hydrology: HR SWOT Data \(Data Validation & Enhancement\)'](#)

(see "Posters Sessions" section for posters' list)

Posters format shall be A0 (84.1 cm x 118.9 cm) vertical size

19:00 - 21:00: Movie 'Un rêve en eau pour 2100' displayed in a local cinema (English version). Free of charge

08:00 - 09:00: Welcome Coffee

Hydrology: SWOT Lakes, Estuaries and Wetlands (SLEW)

Session chairs: Sylvain Biancamaria, Mélanie Trudel, Jida Wang
(Thu, Oct 16 2025, 09:00 - 10:30)

Splinter room for Hydrology (Ambassadeur)

09:06 - 09:16:

[All-in-one SWOT lake approach: Volumes, Bathymetry and Uncertainty estimation by Implicit Neural Network Representations](#)

Santiago PENA LUQUE (CNES, France), Dawa DERKSEN (CNES, France), Laetitia LALLA (CS-Soprasteria, France), Benjamin TARDY (CS-Soprasteria, France)

09:16 - 09:26:

[Improved SWOT surface water storage monitoring through multi-sensor harmonization](#)

Eric Levenson (University of Oregon, United States), Sarah Cooley (Duke University, United States), Elizabeth Webb (Duke University, United States), Camryn Kluetmeier (Duke University, United States)

09:26 - 09:36:

[Water volume dynamics in West African lakes and reservoirs by SWOT and optical satellite sensors](#)

Manuela Grippa (GET, France), Felix Girard (Géosciences Environnement Toulouse, France), Hedwige Nikiema (Ki-Zerbo University, Ouagadougou, Burkina Faso), Cheikh Faye (Assane Seck University, Ziguinchor, Senegal), Amadou Abdourahame Toure (Abdou Moumouni University, Niamey, Niger), Ibrahim Mainassara (Abdou Moumouni University, Niamey, Niger), Maxime Wubda (Ki-Zerbo University, Ouagadougou, Burkina Faso), Laurent Kergoat (Géosciences Environnement Toulouse, France)

09:36 - 09:46:

[Mapping wetland vegetation using Sentinel-1 and SWOT data](#)

Yannick Duguay (Centre de géomatique du Québec, Canada), Mélanie Trudel (Université de Sherbrooke, Canada), Axel Chuette (Université de Sherbrooke, Canada), Anne-Marie Laroche (Université de Moncton, Canada), Alain N. Rousseau (Institut national de la recherche scientifique, Canada)

09:46 - 09:56:

[Global seasonal lake dynamics and phenology revealed by SWOT observations](#)

Jida Wang (University of Illinois Urbana-Champaign, United States), Md Safat Sikder (University of Illinois Urbana-Champaign, United States), George Allen (Virginia Tech, United States), Sylvain Biancamaria (Université de Toulouse, Laboratoire d'Études en Géophysique et Océanographie Spatiales (LEGOS) (CNES/CNRS/IRD/UT3), Toulouse, France, France), Casey Brown (University of Massachusetts Amherst, United States), Jean-François Crétaux (Université de Toulouse, Laboratoire d'Études en Géophysique et Océanographie Spatiales (LEGOS) (CNES/CNRS/IRD/UT3), Toulouse, France, France), Huilin Gao (Texas A&M University, United States), Colin Gleason (University of Massachusetts Amherst, United States), Tamlin Pavelsky (University of North Carolina at Chapel Hill, United States), Laurence Smith (Brown University, United States), Chunqiao Song (Nanjing Institute of Geography and Limnology, Chinese Academy of Sciences, Nanjing, China, China), Mélanie Trudel (University of Sherbrooke, Canada)

09:56 - 10:06:

[Global Daily Reservoir Evaporation Modeling Augmented by SWOT PIXC Data](#)

Anshul Yadav (Texas A&M University, United States), Huilin Gao (Texas A&M University, United States), Yinuo Zhu (Texas A&M University, United States), George Allen (Virginia Polytechnic Institute and State University, United States), Jida Wang (University of Illinois at Urbana-Champaign, United States)

Deltas, Estuaries and Coasts

Session chairs: Nadia Ayoub, Marc Simard, Imen Turki
(Thu, Oct 16 2025, 09:00 - 12:30)

Splinter room for Deltas, Estuaries and Coasts (Moulleau)

09:00 - 09:15:

[First quality assessment of SWOT data in the Gironde estuary](#)

Lucie CAUBET (LEGOS laboratory, CNRS/UPS/CNES/IRD, France), Florent LYARD (LEGOS laboratory, CNRS/UPS/CNES/IRD, France), Nadia AYOUB (LEGOS laboratory, CNRS/UPS/CNES/IRD, France), Robin CHEVRIER (CLS, France)

09:15 - 09:30:

[Fine scale structures in the coastal zone of Baltic Sea based on nadir-Altimeter and SWOT](#)

[Data](#)

Luciana Fenoglio (University of Bonn, Germany), Volker Mohrholz (IOW, Germany), Anna Bulczak (IOPAN, Poland), Peng Feng (Chalmers University of Technology, Sweden), Jiaming Chen (University of Bonn, Germany), Marco Rivera (University of Bonn, Germany), Faruque Abdulla (University of Bonn, Germany), Jaromir Jakacki (IOPAN, Poland), Christopher Buckhaupt (CISESS/UMD, College Park, Maryland, US), Ulf Graewe (IOW, Germany), Jürgen Kusche (University of Bonn, Germany)

09:30 - 09:45:

[Assessment of SWOT observations for monitoring nearshore and coastal waves](#)

Md Saiful Islam (University of Rouen Normandy, M2C, Rouen, France), Emma Imen Turki (University of Rouen Normandy, CNRS, M2C, Rouen, France), Carlos Lopez Solano (University of Rouen Normandy, CNRS, M2C, Rouen, France), Pascal Matte (Meteorological Research Division, Environment and Climate Change Canada, Quebec, Canada), Xavier Chartrand (Meteorological Research Division, Environment and Climate Change Canada, Institut des Sciences de la Mer de Rimouski, Université du Québec à Rimouski, Rimouski, Québec, Canada), Laurent Froideval (University of Caen Normandy, CNRS, M2C, Caen, France), Edward Salameh (University of Rouen Normandy, CNRS, M2C, Rouen, France), Benoit Laignel (University of Rouen Normandy, CNRS, M2C, Rouen, France), Nicolas Picot (CNES, Toulouse, France)

09:45 - 10:00:

[SWOT in the nearshore: Extending HR Pixel cloud product to the surfzone for hyperlocal wave measurements](#)

Tyler McCormack (Northeastern University, United States), Edward Beighley (Northeastern University, United States)

10:00 - 10:15:

[Assessing SWOT Performance to Measure SSH Variability over Rangiroa Atoll, French Polynesia](#)

Ewen Cottour (IFREMER, France), Guillaume Dodet (IFREMER, France), Clémence Chupin (ENSTA, France), Taina Postec (CNRS, France), Laurent Testut (LIENSs, France), Lisa Maillard (CNES, France), Swen Jullien (Laboratoire d'Océanographie Physique et Spatiale (LOPS), Univ. Brest, CNES, CNRS, IRD, Ifremer, IUEM, Brest, 29200, France, France), Frédéric Bouchette (Université de Montpellier, CNRS, France)

10:15 - 10:30:

[Discussion of Deltas, Estuaries and Coasts Working Group](#)

co-chaired with B. Molero and I. Pujol (CLS) and Deltas, Estuaries and Coasts Leads

10:30 - 11:00: Coffee break

11:00 - 11:15:

[Can satellite altimetry observe coastally trapped waves on sub-monthly timescales?](#)

Marcello Passaro (DGFI-TUM, Germany)

11:15 - 11:30:

[Integrating SWOT observations with numerical models for investigating water levels in the English Channel](#)

Carlos Lopez Solano (Université de Rouen Normandie, France), Emma Imen Turki (Université de Rouen Normandie, France), Md Saiful Islam (Université de Rouen Normandie, France), Edward Salameh (Université de Rouen Normandie, France), Ernesto Tonatihu Mendoza (Université de Caen Normandie - Cerema, France), Benoit Laignel (Université de Rouen Normandie, France)

11:30 - 11:45:

[SWOT to study coastal dynamics: the case of North Current intrusions in the Northwestern Mediterranean Sea](#)

Léna Tolu (CNRS LEGOS, France), Mathilde Cancet (CNRS LEGOS, France), Florence Birol (LEGOS - University of Toulouse, France), Claude Estournel (CNRS LEGOS, France), Maxime Arnaud (Aix Marseille Univ., University of Toulon, CNRS, MIO, France), Anne Petrenko (Aix Marseille Univ., University of Toulon, CNRS, MIO, France), Fabien Léger (CNRS LEGOS, France)

11:45 - 12:00:

[Enhancing surface water extent estimates derived from the SWOT raster product using a Markov Random Field-based algorithm](#)

Omid Elmi (Institute of Geodesy, University of Stuttgart, Germany), Ettehadieh Soheil (Institute of Geodesy, University of Stuttgart, Germany), Tourian Mohammad J. (Institute of Geodesy, University of Stuttgart, Germany)

12:00 - 12:15:

[SWOT-Satellite-Enabled Tidal Data in Estuaries](#)

Paul Bell (National Oceanography Centre, United Kingdom), Clive Neil (National Oceanography Centre, United Kingdom), Christine Sams (National Oceanography Centre, United Kingdom), Dougal Lichtman (National Oceanography Centre, United Kingdom), Christine Gommenginger (National Oceanography Centre, United Kingdom)

12:15 - 12:30:

[Discussion of Deltas, Estuaries and Coasts Working Group](#)

Deltas, Estuaries and Coasts Leads

Oceanography: Velocities

Session chairs: Patrice Klein, Aurelien Ponte, Andrey Shcherbina, Shafer Smith
(Thu, Oct 16 2025, 09:00 - 12:30)

Splinter room for Oceanography (Auditorium)

09:00 - 09:12:

[Reconstruction of Southern Ocean vertical velocities from SWOT and a km-scale regional simulation using 3 independent methods](#)

Elisa Carli (European Aerospace Agency (ESA), Italy), Yann-Treden Tranchant (Australian Antarctic Program Partnership, University of Tasmania, Australia), James Wyatt (University of Tasmania, Australia), Lia Siegelman (Scripps Institution of Oceanography (SIO), United States), Andrew Thompson (California Institute of Technology, United States), Benoit Legresy (Commonwealth Scientific and Industrial Research Organization (CSIRO), Australia), Marie-Helene Rio (European Aerospace Agency (ESA), Italy)

09:12 - 09:24:

[Ocean Vertical Velocities from Remote Sensing](#)

Eric Dasaro (University of Washington, United States), Ernesto Rodriguez (Jet Propulsion Laboratory, United States)

09:24 - 09:36:

[High-Resolution Observations from the FaSt-SWOT Campaigns: Validation and Fine-Scale Signal Analysis](#)

Laura Gomez-Navarro (IMEDEA (UIB-CSIC), Spain), Daniel R. Tarry (Applied Physics Laboratory, University of Washington, USA), Elisabet Verger-Miralles (IMEDEA (UIB-CSIC), Spain), Diego Cortes-Morales (IMEDEA (UIB-CSIC), Spain), Barbara Barcelo-Llull (IMEDEA (UIB-CSIC), Spain), Diego Vega-Gimenez (IMEDEA (UIB-CSIC), Spain), Nikolaos D. Zarokanellos (SOCIB, Spain), Lara Diaz-Barroso (SOCIB, Spain), Emma Reyes (SOCIB, Spain), Irene Lizaran (SOCIB, Spain), Baptiste Mourre (IMEDEA (UIB-CSIC), Spain), Ananda Pascual (IMEDEA (UIB-CSIC), Spain)

09:36 - 09:48:

[Signatures of fronts and waves in divergence-vorticity-strain joint probability-density functions created using surface velocities from a high-resolution ocean model](#)

C Spencer Jones (Texas A&M University, United States), Thomas Nicolas (Earthmover.io, United States), Dhruv Balwada (Lamont Doherty Earth Observatory, United States), Shafer Smith (New York University, United States), Julius Busecke (Columbia University, United States), Ryan Abernathy (Earthmover.io, United States)

09:48 - 10:00:

[Between the clouds: An unprecedented view of ocean surface currents](#)

Luc Lenain (Scripps Institution of Oceanography - UCSD, United States), Nick Pizzo (URI, United States), Roy Barkan (TAU/UCLA, United States), Kaushik Srinivasan (UCLA, United States)

10:00 - 10:12:

[A Practical Separation of Oceanic Vortical and Wavy Motions Entangled in the SWOT](#)

[Measurements](#)

Zhiyu Liu (Xiamen University, China), Chuanyin Wang (Southern Marine Science and Engineering Guangdong Laboratory (Zhuhai), China)

10:12 - 10:24:

[The Horizontal and Vertical structures of sub-10 km Submesoscale Cyclones](#)

Jinbo Wang (Texas A & M University, United States), Hector Torres (Jet Propulsion Laboratory, USA), Patrice Klein (Caltech, USA), Matthew Archer (Jet Propulsion Laboratory, USA), Eugenio Cutolo (IMT Atlantique, France), J. Thomas Farrar (Woods Hole Oceanographic Institute, USA), Bo Qiu (University of Hawaii, USA), Lee-Lueng Fu (Jet Propulsion Laboratory, USA)

10:30 - 11:00: Coffee break

11:00 - 11:12:

[Deciphering Ocean Surface Dynamics with SWOT and drifters](#)

Margot Demol (Ifremer, France), Aurelien Ponte (Ifremer, France), Pierre Garreau (Ifremer, France), Jean-François Piolle (Ifremer, France), Gwenael Caer (Ifremer, France), Cyril Germaineaud (CNES, France)

11:12 - 11:24:

[Diagnosing the Dynamic Balance of the Surface Ocean Using In-Situ Drifter Observations and](#)

[SWOT](#)

Andrey Shcherbina (Applied Physics Laboratory, University of Washington, United States)

11:24 - 11:36:

[Assessing submesoscale sea surface height signals from the SWOT mission](#)

Xihan Zhang (California Institute of Technology, United States), Jörn Callies (California Institute of Technology, United States)

11:36 - 11:48:

[Ocean cyclones from space](#)

Hector Torres (Jet Propulsion Laboratory, United States), Matthew Archer (Jet Propulsion Laboratory, California Institute of Technology, USA), Patrice Klein (Jet Propulsion Laboratory, California Institute of Technology, USA), Lia Siegelman (Scripps Institution of Oceanography, UCSD, USA), Andrew Thompson (Caltech, USA), Dimitris Menemenlis (San Jose State University, USA), Lee-Lueng Fu (Jet Propulsion Laboratory, California Institute of Technology, USA), Jinbo Wang (Texas A&M University, USA)

11:48 - 12:00:

[Vertical velocities and deep subduction events from coincident SWOT and glider observations](#)

[in the Southern Ocean](#)

Andrew Thompson (California Institute of Technology, United States), Lilian Dove (Brown University, United States), Yann-Treden Tranchant (University of Tasmania, Australia), Patrice Klein (California Institute of Technology, United States), Beatriz Peña Molino (CSIRO, Australia), Laura Herraiz Borreguero (CSIRO, Australia), Benoit Legresy (CSIRO, Australia), Elisa Carli (Laboratoire d'Études en Géophysique et Océanographie Spatiale (LEGOS), France), Lia Siegelman (Scripps Institution of Oceanography, United States)

Hydrology: River Science Working Group

Session chairs: Toby Minear, Fabrice Papa
(Thu, Oct 16 2025, 11:00 - 12:30)

Splinter room for Hydrology (Ambassadeur)

11:00 - 11:10:

[Wide-swath Satellite Altimetry Observes Water Storage Variability in the World's Rivers](#)

Arnaud Cerbelaud (Jet Propulsion Laboratory, Caltech, United States), Jeffrey Wade (Jet Propulsion Laboratory, Caltech, United States), Cédric David (Jet Propulsion Laboratory, Caltech, United States), Michael Durand (School of Earth Sciences, and Byrd Polar and Climate Research Center, The Ohio State University, United States), Renato P. M. Frasson (Jet Propulsion Laboratory, Caltech, United States), Tamlin Pavelsky (Department of Earth, Marine and Environmental Sciences, University of North Carolina, United States), Hind Oubanas (INRAE, France)

11:10 - 11:20:

[Assessing and Improving SWOT's Hydraulic Visibility on French narrow rivers \(20-100 m\): Precision Flow Lines and Slope variation in different flow condition](#)

Thomas LEDAUPHIN (ICUBE-SERTIT, France), Pierre-André Garambois (INRAE, RECOVER, Aix-Marseille University, France), Kevin Larnier (Hydro Matters, France), Maxime Azzoni (ICUBE-SERTIT, France), Amanda Samine Montazem (INRAE, RECOVER, Aix-Marseille University, France), Sabine Amzil (ICUBE-SERTIT, France), Nicolas Picot (CNES, France), Roger Fjortoft (CNES, France), Jérôme Maxant (ICUBE-SERTIT, France), Hervé Yésou (ICUBE-SERTIT, France)

11:20 - 11:30:

[SAMBA \(SWOT for the AMazon BASin\)](#)

Fabrice Papa (LEGOS/IRD, France), Daniel Moreira (SGB, Brazil), Ayan S. Fleischmann (Mamiraua Institute, Brazil), Frédéric Frappart (ISPA/INRAE, France), Alice Fassoni (University of Brasilia, Brazil), Jean-Francois Crétaux (LEGOS/CNES, France), Adrien Paris (Hydro Matters, France), Mauricio Cezar Rebello Cordeiro (ANA, Brazil), Santiago Pena Luque (CNES, France), Fernando Jaramillo (Stockholm University, Sweden), Rodrigo Paiva (IPH-UFRGS, Brazil), George Allen (Virginia Tech, USA), Etienne Fluet-Chouinard (Pacific Northwest Nat. Lab., USA), Jefferson Santana Melo (SGB-Rio, Brazil), Michel Calzas (DT INSU/CNRS, France), Sly Wongchuig (CNES-LEGOS, France), Benjamin Kitambo (Institute of Geodesy, University of Stuttgart, Germany), Marie-Paule Bonnet (ESPACEDÉV/IRD, France), Rodrigo Abarca del Rio (University Concepcion, Chile), Charlotte Blondel (LEGOS/CNRS, France), Andre Martinelli (SGB, Brazil), Pierre-André Garambois (INRAE/RECOVER, France), Stéphane Calmant (LEGOS/IRD, France)

11:30 - 11:40:

[Advancing SWOT and Fluvial Geomorphology: River Hydraulics and Sediment Transport](#)

J. Toby Minear (University of Colorado, Boulder, United States), Joel Johnson (University of Colorado, Boulder, USA), Michael Lamb (California Institute of Technology, USA), Taylor Rowley (University of Massachusetts, Amherst, USA)

11:40 - 11:50:

[SWOT River Bathymetry Product](#)

Hind Oubanas (INRAE, France), Pierre-Olivier Malaterre (INRAE, France), Michael Durand (Ohio State University, USA), Igor Gejadze (INRAE, France), Isadora Rezende (INRAE, France), Tamlin Pavelsky (University of North Carolina, USA), Daniel Jose (University of North Carolina, USA), Paul Bates (Bristol University, United Kingdom), Jeffrey Neal (Bristol University, United Kingdom), Stephen Chuter (Bristol University, United Kingdom), Colin Gleason (University of Massachusetts Amherst, USA)

11:50 - 12:00:

[Detecting river flow waves at large scales with the SWOT satellite](#)

Hana R. Thurman (Department of Geosciences, Virginia Tech, United States), Arnaud Cerbelaud (Jet Propulsion Laboratory, California Institute of Technology, United States), Cedric H. David (Jet Propulsion Laboratory, California Institute of Technology, United States), George H. Allen (Department of Geosciences, Virginia Tech, United States)

12:00 - 12:10:

[Detecting narrow rivers with SWOT: what does detected mean?](#)

Fiona B. Bennitt (University of Massachusetts Amherst, United States), Colin J. Gleason (University of Massachusetts Amherst, United States), Brent A. Williams (Jet Propulsion Laboratory, California Institute of Technology, United States), Craig B. Brinkerhoff (Yale University, United States), Tamlin M. Pavelsky (University of North Carolina, United States), Cassie Stuurman (Jet Propulsion Laboratory, California Institute of Technology, United States), Jonathan A. Flores (University of Massachusetts Amherst, United States), Elisa

Friedmann (University of Massachusetts Amherst, United States), Travis T. Simmons (University of Massachusetts Amherst, United States)

12:10 - 12:30:

[Discussion of River Science Working Group](#)

River Science Leads

12:30 - 14:00: Lunch Break (Espace Deganne)

Cryosphere: Sea Ice, SLA and glaciers

Session chairs: Sarah Fleury, Tasha Snow, Cassie Stuurman
(Thu, Oct 16 2025, 14:00 - 15:30)

Splinter room for Cryosphere (Moulleau)

14:00 - 14:05:

[Introduction for Sea Ice, SLA and glaciers session](#)

Cryosphere Leads

14:05 - 14:15:

[Sea ice classification, concentration and topography using SWOT](#)

Gwenaël Jestin (LEGOS / CNRS, France), Sara Fleury (LEGOS / CNRS, France), Fanny Piras (CLS, France), Marta Alves (CLS, France), Sammy Metref (DATLAS, France), Inès Benabdillah (CNES, France), Matthias Raynal (CNES, France), Nicolas Picot (CNES, France), Gérald Dibarbouré (CNES, France)

14:15 - 14:25:

[Towards Improved Mapping of Sea Ice Concentration and Sea Ice Thickness with SWOT](#)

Sammy Metref (Datlas, France), Sara Fleury (LEGOS, Université de Toulouse, CNES, CNRS, IRD, UPS, Toulouse, France), Pierre Rampal (Université Grenoble Alpes, CNRS, IRD, IGE, Grenoble, France), Gwenaël Jestin (LEGOS, France), Florian Le Guillou (Datlas, France), Clément Ubelmann (Datlas, France)

14:25 - 14:35:

[Sea ice characterization from KaRIn HR data and application to S3NG-T](#)

Laetitia Rodet (CLS, France), Louise Yu (CNES, France), Pierre Dubois (CLS, France), Gwenaël Jestin (LEGOS, France), Sara Fleury (LEGOS, France), Laiba Amarouche (CLS, France), Thomas Moreau (CLS, France), Fanny Piras (CLS, France), François Boy (CNES, France), Matthias Raynal (CNES, France), Nicolas Picot (CNES, France)

14:35 - 14:47:

[Discussion panel of Cryosphere Working Group](#)

Cryosphere Leads

14:47 - 14:57:

[SWOT's Sea Surface Height Observations in Sea Ice Zones: A First Look and Comparison with](#)

[ICESat-2](#)

Felix Müller (Deutsches Geodätisches Forschungsinstitut (DGFI), Germany), Denise Dettmering (DGFI-TUM, Germany), Maria Pisareva (DGFI-TUM, Germany)

14:57 - 15:07:

[Using SWOT High-Resolution Raster data to map and monitor rifts on Antarctic ice shelves.](#)

Susan L. Howard (Earth and Space Research, Seattle, WA, United States), Matt R. Siegfried (Department of Geophysics, Colorado School of Mines, Golden, CO, United States), Laurie Padman (Earth and Space Research, Corvallis, OR, United States), Tasha Snow (NASA Goddard Space Flight Center and ESSIC, University of Maryland, United States), Zachary S. Katz (Department of Geophysics, Colorado School of Mines, Golden, CO, United States), Ellie Abrahams (Stanford University, Stanford, CA, United States)

15:07 - 15:17:

[Surface height extraction over alpine glaciers using SWOT](#)

Cassie Stuurman (Jet Propulsion Laboratory, California Institute of Technology, United States), Laurence Smith (Department of Earth, Environmental, and Planetary Sciences, Brown University, United States)

15:17 - 15:30:

[Discussion panel of Cryosphere Working Group](#)

Cryosphere Leads

Oceanography: Wind and Waves

Session chairs: Fabrice Ardhuin, Bia Villas Boas
(Thu, Oct 16 2025, 14:00 - 15:30)

Splinter room for Oceanography (Auditorium)

14:00 - 14:15:

[Submesoscale air-sea interactions as revealed by SWOT](#)

Guillaume Lapeyre (Laboratoire de Meteorologie Dynamique, France), Mohamed Kaouah (LMD & LEGOS, France), Lionel Renault (LEGOS, France)

14:15 - 14:30:

[Orographic waves signatures in SWOT KaRIn data](#)

Perrine Abjean (CLS, France), Loren Carrere (CLS, France), Gérald Dibarbouré (CNES, France)

14:30 - 14:45:

[Convection within atmospheric storms organized by ocean submesoscale fronts](#)

Félix Vivant (LMD-IPSL, France), Lia Siegelman (Scripps Institution of Oceanography, USA), Patrice Klein (LMD-IPSL, JPL-Caltech, USA), Torres Hector (JPL-Caltech, USA), Dimitris Menemenlis (SJSU, JPL-Caltech, USA), Andrea Molod (NASA Goddard Space Flight Center, USA)

14:45 - 15:00:

[Leveraging SWOT Radar Data for Machine Learning: Tagging Oceanic and Atmospheric Features at Kilometer Scales](#)

Justin Stopa (The University of Hawaii at Manoa, United States), Yannik Glaser (The University of Hawaii at Manoa, USA), Doug Vandemark (The University of New Hampshire, USA), Alexis Mouche (IFREMER, France), Ralph Foster (The University of Washington, USA), Bertrand Chapron (IFREMER, France)

15:00 - 15:15:

[Sizing the largest ocean waves using the SWOT mission](#)

Fabrice Ardhuin (LOPS, France), Taina Postec (LOPS, France), Accensi Mickael (LOPS, FR), Jran-François Piolle (LOPS, France), Guillaume Dodet (LOPS, France), Marcello Passaro (TUM, Germany), Marine De Carlo (CLS, France), Romain Husson (CLS, France), Gilles Guirron (OceanDataLab, France), Fabrice Collard (OceanDataLab, France)

Hydrology: Discharge Algorithms Working Group (DAWG)

Session chairs: Michael Durand, Colin Gleason, Kévin Larnier, Pierre-Olivier Malaterre
(Thu, Oct 16 2025, 14:00 - 15:30)

Splinter room for Hydrology (Ambassadeur)

14:00 - 14:20:

[Merged presentation from submitted contributions](#)

DAWG Leads

14:20 - 15:30:

[Discussion of DAWG Working Group](#)

DAWG Leads

15:30 - 16:00: Coffee break

16:00 - 18:00: Movie 'Un rêve en eau pour 2100' displayed in a local cinema (French version). Free of charge

Oceanography: Tides and Inertia-Gravity Waves

Session chairs: Florent Lyard, Edward D. Zaron
(Thu, Oct 16 2025, 16:00 - 17:00)

Splinter room for Oceanography (Auditorium)

16:00 - 16:12:

[Near-inertial wave trapping inside a fine-scale anticyclonic eddy during the BioSWOT-Med 2023 cruise: Turbulence and energy flux](#)

Robin Rolland (LOCEAN - SU, France), Pascale Bouruet-Aubertot (LOCEAN - SU, France), Yannis Cuypers (LOCEAN - SU, France), Anthony Bosse (MIO - CNAP, France), Anne Petrenko (MIO - AMU, France), Aurélien Ponte (LOPS - IFREMER, France), Tancrède Maytie (MIO, France), Stéphanie Barrillon (MIO - CNRS, France), Maristella Berta (ISMAR - CNR, Italy), Ananda Pascual (IMEDEA - CSIC, Spain), Baptiste Murre (IMEDEA - SOCIB, Spain), Lloyd Izard (LOCEAN - CNRS, France), Xavier Capet (LOCEAN - CNRS, France), Gérald Grégori (MIO - CNRS, France), Francesco d'Ovidio (LOCEAN - CNRS, France), Andrea Doglioli (MIO - AMU, France)

16:12 - 16:24:

[Internal solitary wave activity quantified by SWOT](#)

Matthew Archer (JPL, United States), Lee-Lueng Fu (JPL, USA), Maarten Buijsman (USM, USA), Gautier Bardi de Fourtou (MIT, USA), Thomas Lu (JPL, USA), Jinbo Wang (Texas A & M, USA), Aurelien Ponte (IFREMER, France)

16:24 - 16:36:

[Tides in complex coastal and polar regions](#)

Michael Hart-Davis (DGFI-TUM, Germany), Ole Andersen (DTU Space, Denmark), Richard Ray (NASA, USA), Maximilian Lippert (Technical University of Munich, Germany), Edward Zaron (Oregon State University, USA), Rasmus Arildsen (DTU Space, Denmark), Antonio Bonaduce (NERSC, Norway), Christian Schwatke (Technical University of Munich, Germany), Denise Dettmering (Technical University of Munich, Germany)

16:36 - 16:48:

[SWOT observations of the seiche that shook the world](#)

Thomas Monahan (University of Oxford, United Kingdom), Tianning Tang (University of Manchester, UK), Stephen Roberts (University of Oxford, UK), Thomas Adcock (University of Oxford, UK)

16:48 - 17:00:

[Mapping internal tides with SWOT and HYCOM](#)

Yadidya Badarvada (University of Michigan, United States), Brian Arbic (University of Michigan, United States), Jay Shriver (Naval Research Laboratory, United States), Edward Zaron (Oregon State University, United States), Maarten Buijsman (University of Southern Mississippi, United States), Loren Carrère (CLS, France), Michel Tchilibou (CLS, France)

Hydrology: Global Hydrology Modeling Working Group

Session chairs: Cédric David, Augusto Getirana, Simon Munier, Mohammad J. Tourian
(Thu, Oct 16 2025, 16:00 - 17:30)

Splinter room for Hydrology (Ambassadeur)

16:00 - 16:06:

[GHyM Introduction](#)

Cédric David, Augusto Getirana, Simon Munier, Mohammad J. Tourian

16:06 - 16:18:

[Using SWOT to assess and correct global hydrology models](#)

Colin Gleason (UMass Amherst, United States), Paul Bates (University of Bristol, United Kingdom), Paper Team The SWOT Global Hydrology Assessment (28 authors, from around the world)

16:18 - 16:30:

[SWOT Derived River Bathymetry for Global Flood Model Applications](#)

Stephen Chuter (Fathom, United Kingdom), Jeffrey Neal (University of Bristol, United Kingdom), James Savage (Fathom, United Kingdom), Paul Bates (University of Bristol, United Kingdom), Oliver Pollard (Fathom, United Kingdom), Peter Uhe (Fathom, United Kingdom)

16:30 - 16:42:

[Advancing Global Hydrological Assimilation: First Applications of CTRIP-HyDAS with Real SWOT Observations](#)

KAUSHLENDRA VERMA (CNRM, Université de Toulouse, Météo-France, CNRS, Toulouse, France, France), Simon Munier (CNRM, Université de Toulouse, Météo-France, CNRS, Toulouse, France, France), Aaron Boone (CNRM, Université de Toulouse, Météo-France, CNRS, Toulouse, France, France), Patrick Le Moigne (CNRM, Université de Toulouse, Météo-France, CNRS, Toulouse, France, France)

16:42 - 16:54:

[Towards a better understanding of global terrestrial water storage and fluxes through SWOT data assimilation](#)

Augusto Getirana (NASA Goddard Space Flight Center, United States), Yeosang Yoon (NASA Goddard Space Flight Center, USA), Elyssa Collins (NASA Goddard Space Flight Center, USA), Sujay Kumar (NASA Goddard Space Flight Center, USA)

16:54 - 17:06:

[Towards Consistent Hydrological-Hydrodynamic Predictions at Large Scale: Multi-Satellite Data Assimilation in the Amazon and the Emerging Role of SWOT Observations](#)

Sly Wongchuig (Laboratoire d'Etudes en Géophysique et Océanographie Spatiales (LEGOS), Université de Toulouse, CNES/CNRS/IRD/UT3, Toulouse, France, France), Fabrice Papa (Laboratoire d'Etudes en Géophysique et Océanographie Spatiales (LEGOS), Université de Toulouse, CNES/CNRS/IRD/UT3, Toulouse, France, France), Charlotte Blondel (Laboratoire d'Etudes en Géophysique et Océanographie Spatiales (LEGOS), Université de Toulouse, CNES/CNRS/IRD/UT3, Toulouse, France, France), Rodrigo Paiva (Instituto de Pesquisas Hidráulicas IPH, Universidade Federal do Rio Grande do Sul UFRGS, Brazil, Brazil), Vinícius Siqueira (Instituto de Pesquisas Hidráulicas IPH, Universidade Federal do Rio Grande do Sul UFRGS, Brazil, Brazil), Ayan Fleischmann (Instituto de Desenvolvimento Sustentável Mamirauá, Tefé, AM, Brazil, Brazil), Sylvain Biancamaria (Laboratoire d'Etudes en Géophysique et Océanographie Spatiales (LEGOS), Université de Toulouse, CNES/CNRS/IRD/UT3, Toulouse, France, France), Adrien Paris (Hydro Matters, 1 Chemin de la Pousaraque, 31460 Le Faget, France, France), Stéphane Calmant (Laboratoire d'Etudes en Géophysique et Océanographie Spatiales (LEGOS), Université de Toulouse, CNES/CNRS/IRD/UT3, Toulouse, France, France)

17:06 - 17:18:

[SWOT-Hydro2-Learning \(tosca project\): Learning regionalization of hydrological-hydraulic models and discharge laws over river networks with SWOT and multi-source data assimilation](#)

Pierre-André GARAMBOIS (INRAE, RECOVER, Aix-Marseille University, France), Jérôme Monnier (INSA, IMT, Toulouse University, France), Sylvain Biancamaria (LEGOS-CNRS, Toulouse University, France), Robin Bouclier (INSA, IMT, Toulouse University, France), Mouad Ettalbi (INRAE, RECOVER, Aix-Marseille University; Aaway, France), Truyen Huynh (INRAE, RECOVER, Aix-Marseille University, France), Kevin Larnier (Hydro Matters, France), Thomas Ledauphin (Icube-Sertit, Strasbourg University, France), Jérôme Maxant (Icube-Sertit, Strasbourg University, France), Bao Ngoc (INRAE, RECOVER, Aix-Marseille University, France), Adrien Paris (Hydro Matters, France), Olivier Roustant (INSA, IMT, Toulouse University, France), Hélène Roux (IMFT, INPT-ENSEEIH, Toulouse University, France)

17:18 - 17:30:

[Estimation of Discharge and River Channel Parameters through Hydrology-Hydraulic \(H&H\) Coupling with SWOT Altimetry: Toward Learnable Parameterizations](#)

Léo Pujol (INRAE, RECOVER, Aix-Marseille University, France), Pierre-André Garambois (INRAE, Aix-Marseille Université, RECOVER, Aix-en-Provence, France), Kevin Larnier (Hydro Matters, France), Jérôme Monnier (INSA-IMT, France)

Cryosphere: Lakes

Session chairs: Sarah Fleury, Tasha Snow, Cassie Stuurman
(Thu, Oct 16 2025, 16:00 - 17:30)

Splinter room for Cryosphere (Moulleau)

16:00 - 16:08:

[Introduction for Lakes session](#)
Cryosphere Leads

16:08 - 16:18:

[Tracking Glacial Lake Floods with SWOT](#)
Sonam Sherpa (Institute at Brown for Environment and Society, Brown University, Providence, RI, USA/School of Environment, Society and Sustainability, University of Utah, UT, USA, United States), Laurence Smith (Institute at Brown for Environment and Society, Brown University, Providence, RI, USA, United States), Bo Wang (Department of Earth and Atmospheric Sciences, Saint Louis University, St. Louis, MO, USA, United States), Cassie Stuurman (Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA, USA, United States)

16:18 - 16:28:

[Assessing the Potential of the SWOT Mission for the Retrieval of Freshwater Lake Ice and Overlying Snow Properties](#)
Grant Gunn (University of Waterloo, Canada), Claude Duguay (University of Waterloo, Canada), Jennifer Fatt (University of Waterloo, Canada), Hayley Kavanagh (University of Waterloo, Canada)

16:28 - 16:38:

[Lake and river ice classifications with SWOT](#)
Melanie Trudel (Universite de Sherbrooke, Canada), Gabriela Siles (Universite Laval, Canada), Samuel Foucher (Universite de Sherbrooke, Canada), Sylvain Biancamaria (LEGOS, France), Anthony Mandeville (Universite de Sherbrooke, Canada), Toumia Ghribi (Universite de Sherbrooke, Canada)

16:38 - 16:50:

[Discussion panel of Cryosphere Working Group](#)
Cryosphere Leads

16:50 - 17:30:

[Open discussion of Cryosphere Working Group](#)
Cryosphere Leads

Poster Session: Part 3

Session chairs:
(Thu, Oct 16 2025, 17:30 - 18:30)

Poster session room

17:30 - 18:30:

[Working Groups for poster session part 3: 'Oceanography: Tides and Inertia-Gravity Waves, Velocities', 'Hydrology: Discharge Algorithms Working Group, Global Hydrology Modeling Working Group, River Science, SWOT Lakes, Estuaries and Wetlands'](#)
(see "Posters Sessions" section for posters' list)

Posters format shall be A0 (84.1 cm x 118.9 cm) vertical size

20:00 - 23:00: Social Dinner: Halles du marché

09:30 - 09:40:

[Simulating flooding for tropical cyclones in Southern Africa with SWOT](#)

Jeffrey Neal (University of Bristol, United Kingdom), Xiaoli Su (University of Bristol, United Kingdom), Laurence Hawker (University of Bristol, United Kingdom)

09:40 - 09:50:

[What wide swath altimetry has made visible: two case studies of flood events](#)

Nicolas Gasnier (CNES, France), Lionel Zawadzki (CNES, France)

09:50 - 10:00:

[A comprehensive study of Surface Water and Ocean Topography Pixel Cloud data for flood extent extraction](#)

Quentin Bonassies (CECI, Université de Toulouse, CERFACS/CNRS/IRD, Toulouse, France), Christophe Fatras (Collecte Localisation Satellites, Ramonville-Saint-Agnes, France), Santiago Pena Luque (CNES, Toulouse, France), Pierre Dubois (Collecte Localisation Satellites, Ramonville-Saint-Agnes, France), Ludovic Cassan (CECI, Université de Toulouse, CERFACS/CNRS/IRD, Toulouse, France), Andrea Piacentini (CERFACS, Toulouse, France), Sophie Ricci (CECI, Université de Toulouse, CERFACS/CNRS/IRD, Toulouse, France), Nguyen Thanh Huy (Luxembourg Institute of Science and Technology (LIST), Luxembourg)

10:00 - 10:30:

[Discussion of Open Science & Applications Working Group](#)

Open Science & Applications Leads

10:30 - 11:00: Coffee break

11:00 - 11:10:

[Advancing India's Inland Waterbodies Monitoring with focus on SWOT mission](#)

Pankaj R. Dhote (Indian Institute of Remote Sensing, Indian Space Research Organisation, Dehradun, India), Praveen K. Thakur (Indian Institute of Remote Sensing, Indian Space Research Organisation, Dehradun, India), Vaibhav Garg (Indian Institute of Remote Sensing, Indian Space Research Organisation, Dehradun, India), Hind Oubanas (G-EAU, INRAE, Montpellier, France, France), Pierre-Olivier Malaterre (G-EAU, INRAE, Montpellier, France, France), Shubhangam Garg (Indian Institute of Remote Sensing, Indian Space Research Organisation, Dehradun, India), Kartikeya Gaur (Indian Institute of Remote Sensing, Indian Space Research Organisation, Dehradun, India), Kshitiij Srivastava (Indian Institute of Remote Sensing, Indian Space Research Organisation, Dehradun, India), Harish Karnataka (Indian Institute of Remote Sensing, Indian Space Research Organisation, Dehradun, India), Pramod Kumar (Indian Institute of Remote Sensing, Indian Space Research Organisation, Dehradun, India), Raghavendra P Singh (Indian Institute of Remote Sensing, Indian Space Research Organisation, Dehradun, India)

11:10 - 11:20:

[Evaluating the Potential of the SWOT Mission for Hydrological Applications in India](#)

Girish Patidar (Indian Institute of Technology Bombay, India), Jayaluxmi Indu (Indian Institute of Technology Bombay, India), Subhankar Karmakar (Indian Institute of Technology Bombay, India)

11:20 - 11:30:

[Using Surface Water Ocean Topography \(SWOT\) observations to analyse Land Use Land Cover changes: the case of the Pacific Coast of Ecuador](#)

Valentine Sollier (INRAE, France), Frédéric Frappart (INRAE, UMR1391 ISPA, 33140 Villenave d'Ornon, France, France), Luc Bourrel (GET, UMR 5563, Université de Toulouse, CNRS/IRD/OMP/CNES, Toulouse, France, France), Bertrand Ygorra (INRAE, UMR1391 ISPA, 33140 Villenave d'Ornon, France, France), Cassandra Normandin (INRAE, UMR1391 ISPA, 33140 Villenave d'Ornon, France, France), Luis Huaraca (SCA, Ministerio de Ambiente Agua y Transición Ecológica, Quito, Ecuador, Ecuador), Jean-Pierre Wigneron (INRAE, UMR1391 ISPA, 33140 Villenave d'Ornon, France, France)

11:30 - 11:40:

[SWOT SAR Ka-band Captures Irrigation Events](#)

Cécile Cazals (CS GROUP, France), Hassan Bazzi (UMR TETIS, University of Montpellier, AgroParisTech, INRAE, CIRAD, CNRS, France), Nicolas Baghdadi (UMR TETIS, University of Montpellier, AgroParisTech, INRAE, CIRAD, CNRS, France), Cécile Cazals (CS GROUP, France), Sami Najem (UMR TETIS, University of Montpellier, AgroParisTech, INRAE, CIRAD, CNRS, France), Damien Desroches (CNES, France), Frédéric Frappart (ISP INRAE, France), Mehrez Zribi (CESBIO, UMR 5126 Université Toulouse UT3/CNRS/IRD/CNES, USC INRAE, France), François Charron (G-EAU Unit, University of Montpellier, AgroParisTech, CIRAD, INRAE, Institut Agro, IRD, Domaine du Merle, France)

11:40 - 11:50:

[Hydrologic impacts on greenhouse gas emissions from streams and rivers](#)

Peter Raymond (Yale, United States), Dongmei Feng (Univ Cincinnati, USA), Craig Brinkerhoff (Yale, USA), Minhui Li (Yale, USA)

11:50 - 12:00:

[Promoting and explaining a new technology: Swot outreach](#)

Vinca Rosmorduc (CLS, France), Nicolas Picot (CNES, France)

Oceanography: Mean Sea Surface

Session chairs: Ole B. Andersen, Marie-Isabelle Pujol

(Fri, Oct 17 2025, 11:00 - 12:00)

Splinter room for Oceanography (Auditorium)

11:00 - 11:10:

[Global Bathymetry Estimation from SWOT Altimetry Using Deep Learning and Integrated Geophysical Features](#)

Farshad Salajegheh (The University of Newcastle, Australia), Xiaoli Deng (School of Engineering, University of Newcastle, Newcastle, Australia, Australia), Ole Baltazar Andersen (DTU Space, Technical University of Denmark, Lyngby, Denmark., Denmark), Richard Coleman (Institute for Marine and Antarctic Studies (IMAS), University of Tasmania, Tasmania, Australia, Australia)

11:10 - 11:20:

[The new CNES CLS 2025 MSS model leveraging SWOT KaRIn data](#)

Rémy Charayon (CLS, France), Philippe Schaeffer (CLS, France), Maxime Ballarotta (CLS, France), Antoine Delepoule (CLS, France), Marie-Isabelle Pujol (CLS, France), Gerald Dibarbouré (CNES, France)

11:20 - 11:30:

[Bathymetry Prediction from SWOT derived gravity using Machine Learning](#)

Bjarke Nilsson (Technical University of Denmark, DTU Space, Denmark), Biao Lu (Technical University of Denmark, DTU Space, Denmark), Farshad Salajegheh (School of Engineering, University of Newcastle, Callaghan, NSW, Australia), Benjamin J. Phrampus (United States Naval Research Laboratory, Stennis Space Center, MS, USA), Jonathan Kirby (Technical University of Denmark, DTU Space, Denmark), Paul Elmore (Applied Physics Laboratory, Johns Hopkins University, Laurel, MD, USA), Xiaoli Deng (School of Engineering, University of Newcastle, Callaghan, NSW, Australia), Luis Altamirano (The University of Southern Mississippi, Division of Marine Science, MS, USA), Yao Yu (Scripps Institution of Oceanography, University of California San Diego, La Jolla, CA, USA), Walter H. F. Smith (8 Center for Satellite Applications and Research, National Oceanographic and Atmospheric Administration, College Park, MD, USA), Ole B. Andersen (Technical University of Denmark, DTU Space, Denmark), David Sandwell (Scripps Institution of Oceanography, University of California San Diego, La Jolla, CA, USA)

11:30 - 11:40:

[Enhancing Coastal Bathymetry Prediction by Integrating SWOT and Air-Marine Gravimetry Data with Machine Learning](#)

Biao Lu (DTU Space, Technical University of Denmark, Denmark), Bjarke Nilsson (DTU Space, Denmark), Andreas Stokholm (DTU Space, Denmark), Bjørnar Dale (DTU Space, Denmark), Tim Jensen (DTU Space, Denmark), Gabriel Strykowski (DTU Space, Denmark), Jonathan Kirby (DTU Space, Denmark), René Forsberg (DTU Space, Denmark), Ole Andersen (DTU Space, Denmark), Walter Smith (Laboratory for Satellite Altimetry, National Oceanic and Atmospheric Administration (NOAA), United States), David Sandwell (Scripps Institution of Oceanography, United States)

11:40 - 11:50:

[ADVANCING MARINE GRAVITY FIELD RECOVERY IN THE BAY OF BENGAL USING SURFACE WATER AND OCEAN TOPOGRAPHY ALTIMETRY DATA](#)

Milaa Murshan (IIT Bombay, India), Indu Jayaluxmi (IIT Bombay, India), Ropesh Goyal (Indian Institute of Technology (BHU), Varanasi, India)

11:50 - 12:00:

[The Case for Moving SWOT to an Interlaced Orbit](#)

Ole Baltazar Andersen (Professor, Denmark), Bjarke Nilsson (DTU Space, Denmark), Jon Kirby (DTU Space, Denmark), Farshad Salajegheh (University of Newcastle, NSW, Australia), Benjamin J. Phrampus (United States Naval Research Laboratory, Stennis Space Center, USA), Paul Elmore (Applied Physics Laboratory, Johns Hopkins University, USA), James Beale (National Geospatial-Intelligence Agency, St Louis, , USA), Roberts Jamie (National Geospatial-Intelligence Agency, St Louis, , USA), Luis Pareiz (The University of Southern Mississippi, USA), Yao Yu (Scripps Institution of Oceanography, University of California San Diego, USA), David Sandwell (Scripps Institution of Oceanography, University of California San Diego, USA), Walter Smith (Center for Satellite Applications and Research, National Oceanographic and Atmospheric Administration, USA)

12:00 - 14:00: Lunch Break (Espace Deganne)

Closing Plenary Session

Session chairs: Francesco d'Ovidio, Hind Oubanas
(Fri, Oct 17 2025, 14:00 - 16:00)

Plenary session room (Auditorium)

14:00 - 14:30:

[Future](#)

SWOT Project and Science Leads

14:30 - 15:30:

[Synthesis Oceanography-Estuaries-Hydrology-Cryosphere](#)

SWOT Science Leads

15:30 - 16:00:

[Discussion/Feedback](#)

Posters Sessions

Cryosphere: Lakes

Session chairs: Sarah Fleury, Tasha Snow, Cassie Stuurman

Tue, Oct 14 2025, 18:00 - 21:00 - Poster session part 1

ST2025CS2_001 - [Remote sensing of reservoir levels for global water availability assessment](#)

Sarah Esenther (Institute at Brown for Environment and Society (IBES)/Department of Earth, Environmental, and Planetary Sciences (DEEPS), Brown University), Seth N. Goldstein (Institute at Brown for Environment and Society (IBES)), Laurence Smith (Department of Earth, Environmental, and Planetary Sciences, Brown University)

ST2025CS2_002 - [Ice detection with SWOT data](#)

Louis Kern (Magellium), Matthieu Denisselle (Magellium), Thomas Vaujour (Magellium), Noémie Lalau (Magellium), Michaël Ablain (Magellium)

ST2025CS2_003 - [Applying Machine Learning to Analyze SWOT's Potential for Lake Ice Detection](#)

Yanqi Ye (Brown University), Laurence C. Smith (Brown University), Thomas Howard (Brown University), Cassie Stuurman (NASA JPL)

ST2025CS2_004 - [SWOT mission for study and monitoring of ice-covered rivers and lakes](#)

Elena Zakharova (EOLA), Alexei Kouraev (LEGOS/UPS), Inna Krylenko (IWP RAS), Nicholas Hall (LEGOS/UPS), Jean-Francois Crétaux (LEGOS/CNES)

ST2025CS2_005 - [Investigating Ice Jams in Arctic Rivers with SWOT's High-Resolution Altimetry](#)

Linda Christoffersen (Technical University of Denmark), Karina Nielsen (Technical University of Denmark)

ST2025CS2_006 - [Antarctic Ice Shelf Tidal Displacement from SWOT](#)

Zachary Katz (Department of Geophysics, Colorado School of Mines, Golden, CO), Matthew Siegfried (Department of Geophysics, Colorado School of Mines, Golden, CO), Susan Howard (Earth and Space Research, Seattle, WA), Laurie Padman (Earth and Space Research, Corvallis, OR), Ellianna Abrahams (Department of Geophysics and Stanford Data Science Institute, Stanford University, Stanford, CA), Tasha Snow (NASA Goddard Space Flight Center and ESSIC, University of Maryland)

ST2025CS2_007 - [Machine Learning-Based Mapping of Lake Ice Cover from SWOT KaRIn](#)

[Backscatter: Preliminary Results](#)

Jaya Sree Mugunthan (H2O Geomatics), Claude Duguay (University of Waterloo and H2O Geomatics)

ST2025CS2_008 - [Evaluating SWOT elevation retrieval on lake and river ice cover near Fairbanks,](#)

[Alaska](#)

Xiao Yang (Southern Methodist University), Sunwoo Yoon (Department of Earth Sciences, Southern Methodist University, Dallas, TX, USA), Christopher Arp (Water and Environmental Research Center, University of Alaska Fairbanks, Fairbanks, AK, USA), Allen Bondurant (Water and Environmental Research Center, University of Alaska Fairbanks, Fairbanks, AK, USA), Tamlin Pavelsky (Department of Earth, Marine and Environmental Sciences, University of North Carolina at Chapel Hill, NC, USA)

ST2025CS2_009 - [Cryosphere Applications for the SWOT SAR Interferometry and Altimetry](#)

Rosemary Willatt (UCL), Connor Burke (UCL), Imogen Garlick (UCL)

Cryosphere: Sea Ice, SLA and glaciers

Session chairs: Sarah Fleury, Tasha Snow, Cassie Stuurman

Tue, Oct 14 2025, 18:00 - 21:00 - Poster session part 1

ST2025CS1_001 - [Sea Ice Classification from SWOT Observations: A Preliminary Analysis](#)

Khalil Bakhtiari Asl (Centre Eau Terre Environnement, Institut National de la Recherche Scientifique), Mohammed Dabboor (Science and Technology Branch, Environment and Climate Change Canada), Saeid Homayouni (Centre Eau Terre Environnement, Institut National de la Recherche Scientifique)

ST2025CS1_002 - [SWOT observations over sea ice: what can we learn for nadir altimetry](#)

Marta Alves (CLS), Fanny Piras (CLS), Gwenaél Jestin (LEGOS), Sara Fleury (LEGOS), Matthias Raynal (CNES), Filomena Catapano (ESA/ESRIN)

ST2025CS1_003 - [iSWOT: Project Updates and Initial Results on Cryosphere Monitoring](#)

Mohammed Dabboor (Environment and Climate Change Canada), Adrienne Tivy (Science and Technology Branch, Environment and Climate Change Canada), John Mackay (Defence Research and Development Canada), Jose Lagunas-Morales (Defence Research and Development Canada), Mathieu Plante (Science and Technology Branch, Environment and Climate Change Canada), Pascal Matte (Science and Technology Branch, Environment and Climate Change Canada), Daniel Peters (Watershed Hydrology and Ecology Research Division, Environment and Climate Change Canada), Saeid Homayouni (Institut national de la recherche scientifique), Christine Gommenginger (National Oceanography Centre), adrien Martin (Noveltis)

ST2025CS1_004 - [Multi-frequency radar scattering analysis using SWOT](#)

Imogen Garlick (UCL Department of Earth Sciences), Rosemary Willatt (UCL Department of Earth Sciences, London, UK)

Deltas, Estuaries and Coasts

Session chairs: Nadia Ayoub, Marc Simard, Imen Turki

Tue, Oct 14 2025, 18:00 - 21:00 - Poster session part 1

ST2025DEC2_001 - [Enhancing Australian Coastal Bathymetry Using Deep Learning and SWOT-Derived Geophysical Data](#)

Farshad Salajegheh (The University of Newcastle), Xiaoli Deng (School of Engineering, University of Newcastle, Newcastle, Australia.), Ole Baltazar Andersen (DTU Space, Technical University of Denmark, Lyngby, Denmark.), Richard Coleman (Institute for Marine and Antarctic Studies (IMAS), University of Tasmania, Tasmania, Australia)

ST2025DEC2_002 - [Detecting Mekong River plume fronts using SWOT altimetry and drifter observations](#)

Alexei Sentchev (Univ. Littoral Cote d'Opale, UMR8187 LOG), Stefano Berti (Univ. Lille, Unité de Mécanique de Lille (UML)), Nadia Ayoub (Univ. Toulouse, UMR5566 LEGOS)

ST2025DEC2_003 - [SWOT observations and corrections assesment in the Northeast Atlantic shelf](#)

Florent Lyard (CNRS/LEGOS), Nadia Ayoub (CNRS/LEGOS), Lucie Caubet (CNES/Université de Toulouse/LEGOS), Michel Tchilibou (CLS)

ST2025DEC2_004 - [Rivers and Tides: a first global analysis from the SWOT satellite mission](#)

Daniel Scherer (DGFI-TUM), Michael G. Hart-Davis (DGFI-TUM), Christian Schwatke (DGFI-TUM), Tamlin M. Pavelsky (UNC), Audrey H. Sawyer (OSU), Richard D. Ray (NASA), Denise Dettmering (DGFI-TUM), Florian Seitz (DGFI-TUM)

ST2025DEC2_005 - [Evaluation of omission error in FES2022 nonlinear wave spectrum across various coastal areas of the globe](#)

Chafih Skandrani (NOVELTIS), Florent Lyard (LEGOS), Loren Carrere (CLS), Mahmoud El hajj (NOVELTIS), Gérald Dibarbouré (CNES)

ST2025DEC2_006 - [Barotropic tide filtering in SWOT observations through data assimilation](#)

Chafih Skandrani (NOVELTIS), Florent Lyard (LEGOS), Loren Carrere (CLS), Mahmoud El hajj (NOVELTIS), Gérald Dibarbouré (CNES)

ST2025DEC2_007 - [A step forward in the improvement of the SWOT Wet Tropospheric Correction through GPD+ in the coastal zone](#)

Isabel Cardoso (Universidade do Porto), Clara Lázaro (Universidade do Porto), Telmo Vieira (Universidade do Porto), M. Joana Fernandes (Universidade do Porto)

ST2025DEC2_008 - [ACCURACY ASSESSMENT OF SWOT KaRIn SEA LEVEL DATA](#)

Jesus Gomez-Enri (Associate Professor), Barbara Arribas-Rodríguez (Graduate student), Begoña Tejedor (Associate Professor), Oscar Alvarez (Associate Professor), Carlos Jose Gonzalez (Assistant Professor), Stefano Vignudelli (Research staff)

ST2025DEC2_009 - [What can we learn about nearshore dynamics from spatial altimetry ? : preliminary results from the TOSCA/POSPOW project](#)

Yann Krien (LEGOS, University of Toulouse), Florence Birol (LEGOS), Jamal Khan (LEGOS, IRD)

ST2025DEC2_010 - [Stream direction reversals in Baltic rivers derived from SWOT water level observations](#)

Dan Jansson (Stockholm University), Jaramillo Fernando (Department of Physical Geography and Bolin Centre for Climate Research, Stockholm University, Stockholm, Sweden.)

ST2025DEC2_011 - [The DTU25GRA SWOT derived global gravity field and evaluation with airborne gravity in the Norwegian coastal zone](#)

Bjarke Nilsson (Dr), Ole Baltazar Andersen (DTU Space), Bjørnar Dala (DTU Space), Rene Forsberg (DTU Space), Tim jensen (DTU Space), Ove Omang (Statens Kartverk)

ST2025DEC2_012 - [Propagation of Ocean Tides and their Influence on Estuarine Systems as Observed by SWOT](#)

Martin Kolster (University of Colorado), R. Steven Nerem (University of Colorado), J. Toby Minear (University of Colorado)

ST2025DEC2_013 - [Monitoring interannual evolution of Normandy intertidal areas using spaceborne imagery: A decade of observations with Sentinel-2&1 and SWOT](#)

Simon Déchamps (Univ Rouen Normandie, Univ Caen Normandie, CNRS, M2C, UMR 6143, F-76000 Rouen, France), Edward Salameh (Univ Rouen Normandie, Univ Caen Normandie, CNRS, M2C, UMR 6143, F-76000 Rouen, France), Erwin Bergsma (CNES, 18 Avenue Edouard Belin, CEDEX 9, 31401 Toulouse, France), Frédéric Frappart (ISPA, UMR 1391 INRAE/Bordeaux Science Agro, 33140 Villenave-D'Ornon, France), Ernesto Tonatuih Mendoza (Univ Rouen Normandie, Univ Caen Normandie, CNRS, M2C, UMR 6143, F-76000 Rouen, France), Imen Turki (Univ Rouen Normandie, Univ Caen Normandie, CNRS, M2C, UMR 6143, F-76000 Rouen, France), Tatiana Goulas (Univ Rouen Normandie, Univ Caen Normandie, CNRS, M2C, UMR 6143, F-76000 Rouen, France), Julien Deloffre (Univ Rouen Normandie, Univ Caen Normandie, CNRS, M2C,

UMR 6143, F-76000 Rouen, France), Sophie Le Bot (Univ Rouen Normandie, Univ Caen Normandie, CNRS, M2C, UMR 6143, F-76000 Rouen, France), Benoit Laignel (Univ Rouen Normandie, Univ Caen Normandie, CNRS, M2C, UMR 6143, F-76000 Rouen, France)

ST2025DEC2_014 - [Exploring Estuarine Sea Level Fluctuations and Dynamics Using the Surface Water and Ocean Topography \(SWOT\) Mission: Resolving Estuaries](#)

Sarah N Giddings (UCSD Scripps Institution of Oceanography), Angelica Rodriguez (JPL, CalTech), Joanna L Carter (Scripps Institution of Oceanography, UCSD), Agata Piffer Braga (Scripps Institution of Oceanography, UCSD), Iury Simoes-Sousa (WHOI)

ST2025DEC2_015 - [SCOEPUS project: on the use of SWOT ocean products in shelf seas and estuaries and for the study of internal tides](#)

Nadia Ayoub (LEGOS/CNRS), Florent Lyard (LEGOS/CNRS), Moussa Aw (LOPS), Simon Barbot (LEGOS), Loren Carrère (CLS), Lucie Caubet (LEGOS/Univ de Toulouse), Alexis Chaigneau (USTH/IRD), Guillaume Charria (LOPS/IFREMER), Pierre De Mey-Frémaux (LEGOS/CNRS), Noémie Ferdinand (LEGOS/Univ de Toulouse), Marine Herrmann (LEGOS/IRD), Yann Krien (LEGOS/Univ de Toulouse), Maud Martinez Almoyna (LOPS), Patrick Marsaleix (LEGOS/CNRS), Florence Toubanc (LEGOS/CNRS), Alexei Sentchev (LOG/Univ du Littoral Cote d'Opale)

ST2025DEC2_016 - [Evaluating SWOT in the Estuarine and Nearshore Region: A Comparative Study of the Baltic Sea and the Bay of Bengal](#)

Faruque Abdullah (Institute of Geodesy and Geoinformation, University of Bonn), Marco Rivera (Institute of Geodesy and Geoinformation, University of Bonn), Md Jamal Uddin Khan (LEGOS/UT/IRD, Toulouse), Jiaming Chen (Institute of Geodesy and Geoinformation, University of Bonn), Christopher Buchhaupt (CISESS/UMD, College Park, Maryland), Luciana Fenoglio (Institute of Geodesy and Geoinformation, University of Bonn), Jürgen Kusche (Institute of Geodesy and Geoinformation, University of Bonn)

ST2025DEC2_017 - [Leveraging SWOT data to estimate hydrologic connectivity between channels and islands in coastal river deltas](#)

Eleanor Henson (The University of Texas at Austin), Paola Passalacqua (The University of Texas at Austin), Jon Schwenk (Los Alamos National Laboratory), Anastasia Piliouras (Pennsylvania State University)

ST2025DEC2_018 - [Observing deltaic surface water elevation with an integrated SWOT-based workflow](#)

Florin Miron (University of Bucharest), Florin Zăinescu (Aix-Marseille University, University of Bucharest), Florin Tătui (University of Bucharest), Edward J Anthony (Aix-Marseille University, University of Bucharest)

Hydrology: Discharge Algorithms Working Group (DAWG)

Session chairs: Michael Durand, Colin Gleason, Kévin Larnier, Pierre-Olivier Malaterre

Thu, Oct 16 2025, 17:30 - 18:30 - Poster session part 3

ST2025HS4_002 - [Typological drivers of SWOT discharge accuracy](#)

Steve Coss (School of Earth Sciences, Ohio State University, Columbus, OH, USA Byrd Polar and Climate Research Center, Columbus, OH, USA), Michael Durand (School of Earth Sciences, Ohio State University, Columbus, OH, USA Byrd Polar and Climate Research Center, Columbus, OH, USA)

ST2025HS4_003 - [Estimating river discharge using a SWOT-based statistical approach](#)

Izzy Probyn (University of Bristol), Jeff Neal (University of Bristol), Stephen Chuter (Fathom), Paul Bates (University of Bristol)

ST2025HS4_004 - [Building an Integrated Satellite-Hydrography Framework for SWOT-Based Discharge Estimation](#)

Heejin An (University of Massachusetts Amherst), Colin J. Gleason (University of Massachusetts Amherst)

ST2025HS4_005 - [Variability in Arctic river discharge, suspended sediment transport, and turbidity](#)

Anastasia Piliouras (Penn State University), Xiwei Guo (Penn State University), Nynaee Phillipson (Penn State University), Ben Crosby (Idaho State University)

ST2025HS4_006 - [Estimating Daily Discharge Using SWOT Data](#)

Siqi Ke (Institute of Geodesy, University of Stuttgart), Mohammad J. Tourian (Institute of Geodesy, University of Stuttgart), Pierre-Olivier Malaterre (INRAE, UMR G-eau, Montpellier), Colin Gleason (Department of Civil and Environmental Engineering, University of Massachusetts Amherst, Amherst), Michael Durand (School of Earth Sciences, Ohio State University, Columbus)

ST2025HS4_007 - [Assessing SWOT River Discharge Performance Between Fast Sampling and Science Orbits](#)

Elisa Friedmann (UMass Amherst), Colin Gleason (UMass Amherst), Cécile Cazals (CNES), Michael Durand (The Ohio State University), Stephen Coss (The Ohio State University), Jonathan Flores (UMass Amherst), Merritt Harlan (USGS)

ST2025HS4_008 - [Estimation of Ungauged River Discharges from SWOT-like Measurements with Uncertainty Quantification](#)

Jerome Monnier (INSA - Mathematics Institute of Toulouse), Kevin Larnier (Hydro-Matters / INSA-Mathematics Institute of Toulouse), Olivier Roustant (INSA - Mathematics Institute of Toulouse)

ST2025HS4_009 - [Global River Discharge from SWOT at Gauging Stations: A Complementary Perspective](#)

Peyman Saemian (Institute of Geodesy, University of Stuttgart), Siqi Ke (Institute of Geodesy, University of Stuttgart), Omid Elmi (Institute of Geodesy, University of Stuttgart), Benjamin M. Kitambo (Institute of Geodesy, University of Stuttgart), Fabrice Papa (Laboratoire d'Etudes en Géophysique et Océanographie Spatiales (LEGOS), Université de Toulouse, CNES/CNRS/IRD/UT3, Toulouse), Mohammad J. Tourian (Institute of Geodesy, University of Stuttgart)

ST2025HS4_010 - [Incorporating SWOT into a deep learning framework of global river discharge.](#)

Theodore Langhorst (University of Massachusetts Amherst), Colin Gleason (University of Massachusetts Amherst), Konstantinos Andreadis (University of Massachusetts Amherst)

ST2025HS4_011 - [Discharge Algorithm Working Group Update](#)

Michael Durand (Ohio State University), Colin Gleason (University of Massachusetts), Kevin Larnier (Hydro Matters), Pierre Olivier Malaterre (INRAE)

ST2025HS4_012 - [HYdraulic retrievals from Data assimilation: River Observation with Swot \(HYDROS Project\)](#)

Hind Oubanas (INRAE), Sophie Ricci (Cerfacs), Pierre-Olivier Malaterre (INRAE), Cassan Ludovic (Cerfacs), Igor Gejadze (INRAE), Piacentini Andrea (Cerfacs)

Hydrology: Global Hydrology Modeling Working Group

Session chairs: Cédric David, Augusto Getirana, Simon Munier, Mohammad J. Tourian

Thu, Oct 16 2025, 17:30 - 18:30 - Poster session part 3

ST2025HS5_001 - [A Raster-Vector Hydrologic-Hydrodynamic Modeling Framework for Regional Applications with SWOT and Multi-Source Data Integration: Toward Effective Bathymetry Learning](#)

Mohamed Amine BERKAOU (Institut de Mécanique des Fluides de Toulouse (IMFT), Université de Toulouse, CNRS, Toulouse), Mohamed Saadi (Institut de Mécanique des Fluides de Toulouse (IMFT), Université de Toulouse, CNRS, Toulouse), Pierre-André Garambois (INRAE, Aix-Marseille Université, RECOVER, Aix-en-Provence), François Colleoni (INRAE, Aix-Marseille Université, RECOVER, Aix-en-Provence), Truyen Huynh (INRAE, Aix-Marseille Université, RECOVER, Aix-en-Provence), Kevin Larnier (Hydro Matters, Toulouse), Ludovic Cassan (CERFACS, Toulouse), Hélène Roux (Institut de Mécanique des Fluides de Toulouse (IMFT), Université de Toulouse, CNRS, Toulouse)

ST2025HS5_002 - [Joint training of hydrologic and hydraulic models Using Deep Learning and SWOT Pixel Cloud Data for the Torne River](#)

Simon Jakob Köhn (DTU Space), Karina Nielsen (DTU Space), Peter Bauer-Gottwein (KU), Cécile Kittel (DHI), Connor Chewning (DHI)

ST2025HS5_003 - [Evaluating the potential of reach water surface elevation product from SWOT mission using Assimilation and Hydrodynamic modelling.](#)

Manu K Soman (Indian Institute of Technology Bombay), Indu Jayaluxmi (Indian Institute of Technology Bombay)

ST2025HS5_007 - [Towards integrating Pixel Cloud HR SWOT data into a hydrogeological model](#)

Elena GOALIC (CNES - Centre national d'études spatiales), Jean-Pierre VERGNES (BRGM), Anne JOST (METIS), Nicolas GASNIER (CNES), Marcello DE MICHELE (BRGM)

ST2025HS5_008 - [Leveraging SWOT Data to Improve Coupled Lake–River Routing Models](#)

Yuanzhi Ma (University of Illinois Urbana-Champaign), Md Safat Sikder (University of Illinois Urbana-Champaign), Jida Wang (University of Illinois Urbana-Champaign)

ST2025HS5_009 - [Contribution of SWOT Data to Wetland Hydrological Modelling with HYDROTEL: The Oromocto Watershed Case Study](#)

Anne-Marie Laroche (Université de Moncton), Mélanie Trudel (Université de Sherbrooke), Yannick Duguay (Centre de géomatique du Québec), Alain N. Rousseau (Institut national de la recherche scientifique), Arij Messai (Université de Moncton)

ST2025HS5_010 - [Hydrographic Mapping of Chile: SWOT-Based Characterization of National Rivers Through Integrated Hydrological Modeling](#)

Rodrigo Abarca del Rio (Department of Geophysics (DGEO), University of Concepción), Cristobal Caro (Doctoral Program in Environmental Sciences, University of Concepción), Fernando Campos (Doctoral Program in Applied Sciences with a Specialization in Mathematical Engineering, University of Concepción), Oscar Link (Department of Civil Engineering, University of Concepción), Mauricio Sepulveda (Department of Mathematical Engineering, University of Concepción)

ST2025HS5_011 - [Assessing Global Flood Inundation Model Accuracy with SWOT HR Raster Observations](#)

Stephen Chuter (Fathom), Oliver Wing (Fathom), Colin Gleason (University of Massachusetts, Amherst), Paul Bates (University of Bristol), Jeffrey Neal (University of Bristol), James Savage (Fathom)

Hydrology: HR SWOT Data (Data Validation & Enhancement)

Session chairs: Roger Fjortoft, Nicolas Picot, Brent Williams

Wed, Oct 15 2025, 17:30 - 18:30 - Poster session part 2

ST2025HS1_001 - [Validation of SWOT Lake water level using in situ measurements: results from a student project at Lake Guerledan \(France\)](#)

Clémence Chupin (Ecole Nationale des Sciences et Techniques Avancées (ENSTA) / IP Paris, Campus de Brest, France), Pierre Bosser (Ecole Nationale des Sciences et Techniques Avancées (ENSTA) / IP Paris, Campus de Brest, France), Séverine Enet (Ecole Nationale des Sciences et Techniques Avancées (ENSTA) / IP Paris, Campus de Brest, France), Clémentine Beau (Ecole Nationale des Sciences et Techniques Avancées (ENSTA) / IP Paris, Campus de Brest, France), Scott Bédart (Ecole Nationale des Sciences et Techniques Avancées (ENSTA) / IP Paris, Campus de Brest, France), Zoé Besnard (Ecole Nationale des Sciences et Techniques Avancées (ENSTA) / IP Paris, Campus de Brest, France), Lola Henneuse (Ecole Nationale des Sciences et Techniques Avancées (ENSTA) / IP Paris, Campus de Brest, France), Kim Monoury—Homert (Ecole Nationale des Sciences et Techniques Avancées (ENSTA) / IP Paris, Campus de Brest, France), Siméon Ridet (Ecole Nationale des Sciences et Techniques Avancées (ENSTA) / IP Paris, Campus de Brest, France), Jules Faguet (École Nationale des Sciences Géographiques, France / Ecole Nationale des Sciences et Techniques Avancées (ENSTA) / IP Paris, Campus de Brest, France)

ST2025HS1_002 - [SWOT meets GRDC: Assigning SWORD nodes to in situ stations from the Global Runoff Data Centre](#)

Simon Mischel (Federal Institute of Hydrology, Germany), Henning Plessow (Federal Institute of Hydrology), Claudia Zentis (Federal Institute of Hydrology), Mohammadjavad Tourian (Institute of Geodesy, University of Stuttgart), Peyman Saemian (Institute of Geodesy, University of Stuttgart), Omid Elmi (Institute of Geodesy, University of Stuttgart)

ST2025HS1_003 - [SWOT River Water Surface Elevation Data in the Pantanal: A Sub-Regional Performance Assessment](#)

Jahdy Oliveira (National Institute for Space Research), Alice Fassoni-Andrade (University of Brasília (UnB)), Evelyn Márcia Leão de Moraes Novo (National Institute for space research)

ST2025HS1_004 - [Validation of Water Surface Elevation and Extent over French lakes using the Surface Water Ocean Topography \(SWOT\) mission](#)

Cassandra Normandin (INRAE), Frédéric Frappart (INRAE), Christophe Moisy (INRAE), Nicolas Baghdadi (TETIS, INRAE), Bertrand Ygorra (INRAE), Luc Bourrel (GET), Philippe Maisongrande (CNES), Delphine Leroux (CNES), Jean-Pierre Wigneron (INRAE)

ST2025HS1_005 - [Influence of Bitwise Quality Flags on SWOT Vector Node and Reach Product Accuracy in Indian River Basins](#)

Rucha Sanjay Deshpande (Indian Institute of Technology Kanpur), Tajdarul Hassan Syed (Indian Institute of Technology Kanpur)

ST2025HS1_006 - [Investigating SWOT observations for river hydrodynamics: A case study from the Po River](#)

Farid Kurdnezhad (DICAM – School of Civil Engineering, University of Bologna and Research Institute for Geo-Hydrological Protection, National Research Council), Angelica Tarpanelli (Research Institute for Geo-Hydrological Protection, National Research Council), Alessio Domeneghetti (DICAM, School of Civil Engineering, University of Bologna)

ST2025HS1_007 - [Assessment of SWOT-RiverSP Data Reliability and Accuracy over Canadian Rivers](#)

Victoria Litalien (Université de Sherbrooke), Yanis Papin (Université de Sherbrooke), Cheick Doumbia (Université de Sherbrooke), Anne-Marie Laroche (Université de Moncton), Mélanie Trudel (Université de Sherbrooke)

ST2025HS1_008 - [Evaluation of the Water Masks Generated by the SWOT Satellite and Comparison with Optical Sensors](#)

Maurício Cordeiro (National Water and Sanitation Agency (ANA)), Santiago Pena-Luque (CNES), Renato Frasson (JPL), Mohammad J. Tourian (University of stuttgart), Tati de Almeida (UNB), Daniel Moreira (SGB), Fabrice Papa (IRD)

ST2025HS1_009 - [Validation and refinement of water level and water surface estimations from SWOT in floodplains environments](#)

Lucas Sengsourinho (Univ Rouen Normandie, Univ Caen Normandie, CNRS, M2C, UMR 6143, F-76000 Rouen, France), Edward Salameh (Univ Rouen Normandie, Univ Caen Normandie, CNRS, M2C, UMR 6143, F-76000 Rouen, France), Frédéric Frappart (ISPA, UMR1391 INRAE Bordeaux Science Agro, F-33140, Villenave d'Ornon, France), Cassandra Normandin (ISPA, UMR1391 INRAE Bordeaux Science Agro, F-33140, Villenave d'Ornon, France), Valentine Sollier (ISPA, UMR1391 INRAE Bordeaux Science Agro, F-33140, Villenave d'Ornon, France)

ST2025HS1_010 - [Field validation of SWOT for measuring water level and inundated areas of geographically isolated wetlands](#)

Frances O'Donnell (Auburn University), Suranjana Chatterjee (Auburn University), Emma Marzolf (The Jones Center at Ichauway), Steven Brantley (The Jones Center at Ichauway), John Beck (The University of Alabama in Huntsville)

ST2025HS1_011 - [From Field to Swath: Validating and Refining SWOT Water Surface Elevations in Steep Rivers Using Quantile Regression](#)

Trevor Wilkerson (Montana State University), Eric Sproles (Montana State University), Kathryn Plymessenger (Montana State University), Pablo Iribarren (Universidad Austral de Chile), Toby Minear (University of Colorado)

ST2025HS1_012 - [Assessment of Water Surface Elevation Products of the SWOT Satellite in the Northeast Brazil](#)

Alfredo Ribeiro Neto (Federal University of Pernambuco), Jonas Santos de Souza (Federal University of Pernambuco), Mayara Silva de Oliveira (Federal University of Pernambuco), Marielle Gosset (Institut de Recherche pour le Développement)

ST2025HS1_013 - [GNSS-IR monitoring of coastal and river water levels in Cameroon for Sentinel and SWOT Altimetry validation](#)

Makan Karegar (University of Bonn), Loudi Yap (Research Laboratory in Geodesy, National Institute of Cartography, Cameroon), Jiaming Chen (Institute of Geodesy and Geoinformation, University of Bonn, Germany), Jürgen Kusche (Institute of Geodesy and Geoinformation, University of Bonn, Germany), Abdou Nasser Ngouh (Research Laboratory in Geodesy, National Institute of Cartography, Cameroon), Chrétien Ngouanet (Research Laboratory in Geodesy, National Institute of Cartography, Cameroon), Ludovic Houetchak Kandé (Research Laboratory in Geodesy, National Institute of Cartography, Cameroon), Paul Gautier Kamto (Research Laboratory in Geodesy, National Institute of Cartography, Cameroon)

Hydrology: Open Science & Applications

Session chairs: Matthew Bonnema, Charlotte Emery, Santiago Pena Luque, Angelica Rodriguez

Tue, Oct 14 2025, 18:00 - 21:00 - Poster session part 1

ST2025HS6_001 - [Sentinel-3 Next Generation Topography Mission Performance and Uncertainty Assessment \(S3NGT-MPUA\)](#)

Noemie Lalau (Magellium), Thomas Vaujour (Magellium), Michael Ablain (Magellium), Clement Ubelmann (DATLAS), Lucile Gaultier (ODL), Fabrice Collard (ODL), Nicolas Taburet (CLS), Julien Renou (CLS), Maxime Vayre (CLS), Emma Woolliams (NPL), Sajedah Behnia (NPL), Frederic Nougier (Ifremer), François Boy (CNES), Louise Yu (CNES), Alejandro Egido (ESA), Craig Donlon (ESA), Robert Cullen (ESA)

ST2025HS6_003 - [Analysis of relationships between soil moisture and false water detections in SWOT PIXC products](#)

Maxime Azzoni (ICUBE-SERTIT), Thomas Ledauphin (ICUBE-SERTIT), Hervé Yésou (ICUBE-SERTIT)

ST2025HS6_004 - [Yangtze intermediate basin lakes and sub-lakes monitoring based on SWOT products](#)

Sabrine Amzil (ICUBE-SERTIT), Thomas Ledauphin (ICUBE-SERTIT), Maxime Azzoni (azzoni@unistra.fr), Hervé Yésou (ICUBE-SERTIT)

ST2025HS6_005 - [Global hydropower potential of world rivers revealed by the SWOT Mission](#)

Jonathan Flores (University of Massachusetts), Colin Gleason (University of Massachusetts), Casey Brown (University of Massachusetts), Jida Wang (University of Illinois Urbana-Champaign), Rangel Daroya (University of Massachusetts), Fiona Bennitt (University of Massachusetts), Elisa Friedmann (University of Massachusetts), Dongmei Feng (University of Cincinnati)

ST2025HS6_006 - [Topography of Amazon floodplain lakes from SWOT: preliminary results](#)

Alice Fassoni-Andrade (University of Brasília), Deborah Correia-Lima (UnB), Fabrice Papa (IRD), Daniel Moreira (SGB), Fleischmann Ayan (IDSM)

ST2025HS6_007 - [Harnessing SWOT observations to advance well water disaster surveillance](#)

Edward Beighley (Northeastern University), Reza Jamshidi (Northeastern University), Yuyang Li (Northeastern University), Jenna Brooks (Northeastern University), Kelsey Pieper (Northeastern University), Nate Jones (University of Alabama), Wilson Mize (North Carolina Dept. of Health and Human Services)

ST2025HS6_008 - [Perspectives of Application of SWOT data in South America](#)

Alfredo Ribeiro Neto (Federal University of Pernambuco), Rodrigo Abarca del Rio (University of Concepción), Oliver Saavedra Valeriano (Universidad Privada Boliviana), Rômulo Oliveira (Hydro Matters), Paula Pacheco Mollinedo (Espace-dev)

ST2025HS6_010 - [Operational modes and hydrological implications of cascade reservoirs on major rivers revealed by SWOT observations](#)

Meng Ding (Kansas State University), Jida Wang (University of Illinois Urbana-Champaign)

ST2025HS6_011 - [Deriving Lake Circulation from SWOT: A Physically Constrained, Scalable Approach](#)

Rodrigo Abarca del Rio (Department of Geophysics, Faculty of Physical and Mathematical Sciences, University of Concepción, Concepción, Chile), Jean-Francois Cretaux (Laboratoire d'Études en Géophysique et Océanographie Spatiales (LEGOS), Université de Toulouse, IRD, CNRS, CNES, UPS, Toulouse)

ST2025HS6_012 - [Quantification of Water Resources and Their Evolution](#)

Guillaume HUGUET (ATOS)

Hydrology: River Science Working Group

Session chairs: Toby Minear, Fabrice Papa

Thu, Oct 16 2025, 17:30 - 18:30 - Poster session part 3

ST2025HS3_002 - [Estimation of Bathymetry Profiles For Poorly Gauged River Networks](#)

Jérôme Monnier (INSA-Mathematics Institute of Toulouse), Jessie Levillain (CNES / INSA-Mathematics Institute of Toulouse), Kevin Larnier (Hydro-Matters / INSA-Mathematics Institute of Toulouse)

ST2025HS3_003 - [Assessing River Avulsion Risk Ratios with NASA SWOT](#)

Carly Koppe (Saint Louis University), Bo Wang (Saint Louis University)

ST2025HS3_004 - [Altimetry River Reach Methods \(ARRM\)](#)

Karina Nielsen (DTU Space)

ST2025HS3_005 - [Evaluating the potential of Surface Water and Ocean Topography \(SWOT\) satellite data for detecting water-surface superelevation in meandering rivers](#)

Tasneem Haq Meem (University of Illinois Urbana-Champaign), Bruce L Rhoads (University of Illinois Urbana-Champaign), Jida Wang (University of Illinois Urbana-Champaign)

ST2025HS3_006 - [Assessment of SWOT estimated hydraulic parameters through hydrological experiments over Ganga River](#)

Shard Chander (Space Applications Centre ISRO), Ritesh Agrawal (Space Applications Centre), Amit Dubey (Space Applications Centre), Rohit Pradhan (Space Applications Centre), Ashwin Gujrati (Space Applications Centre), Shishir Gaur (Indian Institute of Technology (BHU)), Anurag Ohri (Indian Institute of Technology (BHU)), Praveen Kumar Gupta (Space Applications Centre)

ST2025HS3_007 - [SWOT Validation over the Amazon Basin](#)

Daniel Moreira (SGB - Geological Survey of Brazil), Fabrice Papa (IRD/LEGOS), Fabrice Papa (IRD/LEGOS), Alice Fassoni-Andrade (Unb), Ayan Fleischmann (Mamirauá Institute), Jefferson Melo (SGB), Leandro Guedes (SGB), Charlotte Blondel (CNES/LEGOS), Sly Wongchuig (CNES/LEGOS), Adrien Paris (Hydro-Matters), Andre Santos (SGB), Jean-Francois Cretaux (CNES/LEGOS), Stéphane Calmant (IRD/LEGOS)

ST2025HS3_008 - [Leveraging SWOT Lake and River Data and Physics-Embedded Machine Learning to Advance Streamflow Simulation](#)

Peijun Li (Pennsylvania State University), Chaopeng Shen (Pennsylvania State University), Colin Gleason (University of Massachusetts, Amherst), Theodore Langhorst (University of Massachusetts, Amherst), Kostas Andreadis (University of Massachusetts, Amherst), Casey Brown (University of Massachusetts, Amherst)

ST2025HS3_009 - [Assimilation of SWOT nodes products into basin-scale hydraulic models](#)

Ludovic Cassan (Univ Toulouse, CNRS/CERFACS/IRD, CECI), Hind Oubanas (INRAE), Pierre-Olivier Malaterre (INRAE), Sophie Ricci (Univ Toulouse, CNRS/CERFACS/IRD, CECI), Quentin Bonassies (Univ Toulouse, CNRS/CERFACS/IRD, CECI), Igor Gejadze (INRAE), Andrea Piantentini (Univ Toulouse, CNRS/CERFACS/IRD, CECI), Thanh Huy Nguyen (LIST), Patrick Matgen (LIST), Marco Chini (LIST)

ST2025HS3_010 - [Global Riverbank Slope Patterns Inferred from SWOT-Derived Hypsometry Curves](#)

J. Daniel Velez (University of North Carolina at Chapel Hill), Tamlin Pavelsky (University of North Carolina at Chapel Hill)

ST2025HS3_011 - [Variational Assimilation of SWOT Altimetry into a 1D-2D Porosity-based Hydraulic River Model with Upstream Hydrology: Toward Integrated Hydrological-Hydraulic Discharge Estimation from SWOT](#)

Léo Pujol (INRAE RECOVER), Pierre-André Garambois (INRAE RECOVER), Jérôme Monnier (INSA-IMT)

Hydrology: SWOT Lakes, Estuaries and Wetlands (SLEW)

Session chairs: Sylvain Biancamaria, Mélanie Trudel, Jida Wang

Thu, Oct 16 2025, 17:30 - 18:30 - Poster session part 3

ST2025HS2_001 - [Reservoir monitoring based on SWOT products, comparison with imaging and altimetric multi-mission approach: applications to the Grand lacs de Seine reservoirs \(France\)](#)

Sabrina Amzil (ICUBE-SERTIT), Carlos Yanez (CNES), Thomas Ledauphin (ICUBE-SERTIT), Maxime Azzoni (ICUBE-SERTIT), Nicolas Picot (CNES), Émilie Mangold (ICUBE-SERTIT), Claire Pottier (CNES), Jérôme Maxant (ICUBE-SERTIT), Hervé Yésou (ICUBE-SERTIT)

ST2025HS2_002 - [Lake Shoreline Morphometry Influences the Accuracy of SWOT-Derived Water-Level Estimates](#)

David Lindao Caizaguano (Department of Physical Geography and Bolin Centre for Climate Research, Stockholm University, Stockholm, Sweden.), Fernando Jaramillo (Department of Physical Geography and Bolin Centre for Climate Research, Stockholm University, Stockholm, Sweden.)

ST2025HS2_003 - [Lakes and reservoirs storage changes from SWOT and ancillary database in Quebec \(Canada\)](#)

Axel Chuette (Université de Sherbrooke), Mélanie Trudel (Université de Sherbrooke), Sylvain Biancamaria (CNRS/LEGOS), Manon Delhoume (CS), Mathilde De Fleury (CS), Gabriela Siles (Université Laval)

ST2025HS2_004 - [Leveraging SWOT observations for global reservoir monitoring](#)

Elyssa Collins (NASA GSFC / UMD ESSIC), Augusto Getirana (NASA GSFC/SAIC), Sujay Kumar (NASA GSFC), Yeosang Yoon (NASA GSFC/SAIC), Chi-Hsiang Huang (Texas A&M University), Huilin Gao (Texas A&M University), Fuad Yassin (Environment and Climate Change Canada)

ST2025HS2_005 - [Comparing multi-mission altimetry derived reservoir storage changes with SWOT Level 2 Lake Single-Pass product](#)

Abhilasha Garkoti (Indian Institute of Technology, Kanpur), Aditya Sati (Indian Institute of Technology, Kanpur), Balaji Devaraju (Indian Institute of Technology, Kanpur)

ST2025HS2_006 - [Global integration of lake and river hydrology with SWOT and the LakeFlow algorithm](#)

George Allen (Virginia Tech), Hana Thurman (Virginia Tech), Ryan Riggs (United States Geological Survey), Travis Simmons (University of Massachusetts Amherst), Anshul Yadav (Texas A&M University), Huilin Gao (Texas A&M University), Jida Wang (University of Illinois Urbana-Champaign)

ST2025HS2_007 - [Hydrological dynamics of the floodplains in the Cuvette Centrale \(Congo River Basin\) using the Surface Water and Ocean Topography \(SWOT\) mission](#)

Cassandra Normandin (INRAE), Frédéric Frappart (INRAE), Bertrand Ygorra (INRAE), Valentine Sollier (INRAE), Julie Betbeder (CIRAD), Valéry Gond (CIRAD), Fabrice Papa (LEGOS), Benjamin Kitambo (Université de Stuttgart), Averti Ifo Suspens (Université Marien N'GOUABI à Brazzaville), Serge Razianoff (VisioTerra), Jean-Pierre Wigneron (INRAE)

ST2025HS2_008 - [Monitoring surface water storage in Peruvian Andean lakes and reservoirs with SWOT and Sentinel-1: Toward integrated mountain hydrology](#)

Kimberly Karime Visitation Bustamante (ISPA - INRAE), Santiago Pena Luque (CNES), Nafissa Sfaksi (MEOSS), Pedro Rau (CITA-UTEC), Marie Paule Bonnet (ESPACE-DEV, Univ Montpellier, IRD), Luc Bourrel (GET, UMR 5563 CNRS/IRD/UPS), Frederic Frappart (ISPA-INRAE)

ST2025HS2_009 - [Assessing SWOT's capability in characterizing reservoir backwater dynamics](#)

Xinchen He (University of Illinois Urbana-Champaign), Jida Wang (University of Illinois Urbana-Champaign), George Allen (Virginia Tech), Huilin Gao (Texas A&M University)

ST2025HS2_010 - [Mapping the wetlands of the Amazon and Congo rainforests with PALSAR-2 and SWOT](#)

Paul Senty (DHI & University of Copenhagen), Cécile Kittel (DHI), Fabrice Papa (Laboratoire d'Etudes en Géophysique et Océanographie Spatiales (LEGOS), Université Toulouse, IRD, CNRS, CNES), Monica Coppo Frias (DHI & University of Copenhagen), Rasmus Fensholt (Department of Geosciences and Natural Resource Management, University of Copenhagen), Stéphanie Horion (Department of Geosciences and Natural Resource Management, University of Copenhagen)

ST2025HS2_011 - [Use of SWOT for understanding dynamics of Amazonian ria lakes and its interaction with the Amazon River](#)

Kei Yamato (University of Illinois Urbana-Champaign), Jida Wang (University of Illinois Urbana-Champaign), James Best (University of Illinois Urbana-Champaign)

ST2025HS2_012 - [Monitoring water storage change in lakes and reservoirs from space](#)

Luciana Fenoglio (Chalmers University of Technology, University of Bonn), Jiaming Chen (University of Bonn)

ST2025HS2_013 - [A SWOT-Based Climatology of Seasonal Variability in Southern Chilean Lakes.](#)

Rodrigo Abarca del Rio (Department of Geophysics (DGEO), Faculty of Physical and Mathematical Sciences, University of Concepción, Concepción), Javier Andrade-Jiménez (Department of Geophysics (DGEO), Faculty of Physical and Mathematical Sciences, University of Concepción, Concepción, Chile), Jean-Francois Cretaux (Laboratoire d'Études en Géophysique et Océanographie Spatiales (LEGOS), Université de Toulouse, Toulouse)

Oceanography: Calibration and Validation

Session chairs: Pascal Bonnefond, Francesco Nencioli

Wed, Oct 15 2025, 17:30 - 18:30 - Poster session part 2

ST2025OS1_001 - [Atmospheric Gravity Waves signature on the sea surface: Insights from SWOT and OSCAR observations](#)

Adrien Martin (NOVELTIS), Eva Le Merle (NOVELTIS), David McCann (NOC), Christine Gommenginger (NOC), José Da Silva (University of Porto), Mahmoud El Hajj (NOVELTIS), Francesco D'OVIDIO (LOCEAN-IPSL), Tania Casal (ESA-ESTEC), Gérald Dibarboure (CNES), Yannice Faugère (CNES)

ST2025OS1_002 - [Assessment of the Wet Tropospheric Correction from the SWOT Radiometer](#)

Thibault Pirotte (CLS), Marie-Laure Frery (CNES), Bruno Picard (Fluctus), Laiba Amarouche (CLS), Hélène Roinard (CLS), François Bignalet-Cazalet (CNES), Gérald Dibarboure (CNES), Matthias Raynal (CNES)

ST2025OS1_003 - [Advances in Sea Level Mapping with SWOT KaRIn Data](#)

Maxime Ballarotta (CLS), Clément Ubelmann (DATLAS), Antoine Delepoulle (CLS), Florian Le Guillou (DATLAS), Cécile Anadon (CLS), Alice Laloue (CLS), Sammy Metref (DATLAS), Anaëlle Treboutte (CLS), Marie-Isabelle Pujol (CLS), Ronan Fablet (IMT), Gérald Dibarboure (CNES)

ST2025OS1_004 - [KaRIn Noise reduction using a Convolutional Neural Network for the SWOT 2km and 250m ocean product](#)

Gaétan Meis (Collecte Localisation Satellite CLS), Anaëlle Tréboutte (CLS), Marie-Isabelle Pujol (CLS), Gérald Dibarboure (CNES)

ST2025OS1_005 - [Cross-comparison at cross-over between SWOT LR SSH products and Sentinel-3 marine altimetry products](#)

Salvatore Dinardo (EUMETSAT), Bruno Lucas (EUMETSAT), Carolina Nogueira Lodo (EUMETSAT)

ST2025OS1_006 - [The effects of rain on a Ka-band swath altimeter: lessons learned from the SWOT mission](#)

Bruno Picard (Fluctus SAS), Aurélien Colin (CLS), Romain Husson (CLS)

ST2025OS1_007 - [Sea State Bias on SWOT measurements](#)

Samuel Osina (LOPS), Frederic Nouguier (LOPS), Alejandro Bohe (CNES), Fabrice Ardhuin (LOPS)

ST2025OS1_008 - [A new approach using the Automatic Identification System \(AIS\) data and SWOT data : a mesoscale study case](#)

Camille Cardot (LEGOS/eOdyn), Isabelle Dadou (LEGOS), Gwenaëlle Jan (eOdyn), Clement Le Goff (eOdyn), Yves Morel (LEGOS), Habib Micael Aguedjou (CNES), Louise Rousselet (LOCEAN/LEGOS)

ST2025OS1_009 - [SWOT and the drifter's odyssey in the NW Mediterranean Sea: riding current meanders and escaping eddies](#)

Mathilde Cancet (CNRS LEGOS), Florence Birol (LEGOS, University of Toulouse), Claude Estournel (CNRS LEGOS), Léna Tolu (CNRS LEGOS), Louise Rousselet (CNRS LOCEAN), Fabien Léger (CNRS LEGOS)

ST2025OS1_010 - [S3NG-T swath altimetry performance assessments with the CNES simulator Radarspy](#)

Louise Yu (CNES), François Boy (CNES), Alejandro Bohé (CNES)

ST2025OS1_011 - [In situ geometric validation of SWOT satellite observations in Bass Strait, Australia](#)

Andrea Hay (University of Tasmania), Christopher Watson (University of Tasmania), Benoit Legresy (CSIRO), Matt King (University of Tasmania), Boye Zhou (University of Newcastle), Jack Beardsley (University of Tasmania), Alejandro Bohé (CNES)

ST2025OS1_012 - [Contributions to SWOT validation from Bass Strait and the Southern Ocean](#)

Christopher Watson (University of Tasmania), Andrea Hay (University of Tasmania), Benoit Legresy (CSIRO), Matt King (University of Tasmania), Boye Zhou (University of Newcastle), Jack Beardsley (University of Tasmania), Alejandro Bohé (CNES)

ST2025OS1_013 - [Shipborne GNSS atmospheric water vapor retrieval for SWOT radiometer validation in the framework of the Wem-SWOT / C-SWOT dual campaigns](#)

Aurélien Panetier (CNES, Toulouse, Shom, Brest), Félix Mercier (ENSG-Géomatique, Marne-la-Vallée, ENSTA, Brest), Pierre Bosser (ENSTA, Brest), Clémence Chupin (ENSTA, Brest), Jean-Baptiste Roustan (Shom, Brest), Aurélien Ponte (Ifremer, Plouzané), Pierre Garreau (Ifremer, Plouzané), Franck Dumas (Shom, Brest), Félix Perozans (CNES, Paris)

ST2025OS1_014 - [Eddy Hunter: a SWOT data mining system to foster altimetry product integration](#)

Federico Scarscelli (GEOMAR), Florian Schütte (GEOMAR), Claudius Zelenka (Kiel University), Peer Kröger (Kiel University)

ST2025OS1_015 - [Assessing SWOT-Derived Surface Velocities Against HFR Data: Insights from the Ibiza Channel](#)

Guimar Lopez (SOCIB), Emma Reyes (SOCIB), Ananda Pascual (IMEDEA (UIB-CSIC)), Baptiste Mourre (IMEDEA (UIB-CSIC)), Joaquín Tintoré (SOCIB, IMEDEA (UIB-CSIC))

ST2025OS1_016 - [Level 4 global topography mapping including SWOT data with 4DVarNet](#)

Cecile Anadon (CLS), Anaëlle Treboutte (CLS), Hugo Georgenthum (IMT Atlantique), Alice Laloue (LEGOS), Daniel Zhu (IMT Atlantique), Ronan Fablet (IMT Atlantique), Marie-Isabelle Pujol (CLS), Gérald Dibarbouré (CNES)

ST2025OS1_017 - [Using SWOT sea surface height to study coastal eddy dynamics](#)

Luke Kachelein (Jet Propulsion Laboratory, California Institute of Technology), Jinbo Wang (Texas A&M University), Patrice Klein (Jet Propulsion Laboratory, California Institute of Technology), Andrew Thompson (California Institute of Technology)

ST2025OS1_018 - [SWOT KaRIN Calibration Algorithm: principle, updates and analysis of the absorption of geophysical corrections residues such as tide and sea state bias](#)

Cecile Anadon (CLS), Clément Ubelmann (DATLAS), Perrine Abjean (CLS), Michel Tchilibou (CELAD), Emeline Cadier (CLS), Marie-Isabelle Pujol (CLS), Loren Carrere (CLS), Gérald Dibarbouré (CNES)

ST2025OS1_019 - [Sub-mesoscale and coastal ocean dynamics in the North Indian Ocean using SWOT and EOS-06/OCM-3 observations](#)

Aditya Chaudhary (Space Applications Centre, ISRO), Neeraj Agarwal (Space Applications Centre, ISRO), Rashmi Sharma (Space Applications Centre, ISRO)

ST2025OS1_020 - [Absolute Calibration and Validation of SWOT Nadir Altimetry Products over the Pertuis Charentais Using In-Situ Observations and Local Model](#)

Audrey Hyeans (LIENSs), Laurent Testut (LIENSs), Valérie Ballu (LIENSs)

ST2025OS1_021 - [Simulation-informed deep learning for enhanced SWOT observations of fine-scale ocean dynamics](#)

Eugenio Cutolo (IMT Atlantique), Carlos Granero Belinchon (IMT Atlantique), Ptashanna Thiriaux (IMT Atlantique), Jinbo Wang (Texas AM University), Ronan Fablet (IMT Atlantique)

ST2025OS1_022 - [Assessing and Reducing Uncertainty in the Wet Tropospheric Correction for Wide Swath Altimetry](#)

Shannon Brown (JPL)

Oceanography: Inversion/Assimilation

Session chairs: Shane Keating, Pierre-Yves Le Traon

Wed, Oct 15 2025, 17:30 - 18:30 - Poster session part 2

ST2025OS6_002 - [Assimilating SWOT Observations into OTIS for Improved Regional Tidal Modeling in the Canadian Arctic Archipelago](#)

Peter Matheson (The Ohio State University), Jason Otero-Torres (NGA), CK Shum (Ohio State University)

ST2025OS6_003 - [Data Assimilation of Surface Geostrophic Currents Derived from SWOT data in the Northwestern Pacific Ocean and marginal seas](#)

Dohyeop Yoo (Department of Oceanography, Chonnam National University, Gwangju, Republic of Korea), Byoung-Ju Choi (Department of Oceanography, Chonnam National University, Gwangju, Republic of Korea)

ST2025OS6_004 - [Assimilating Nadir SLA at Multiple Resolutions in the Western Mediterranean Sea](#)

Maximo Garcia-Jove Navarro (Balearic Islands Coastal Observing and Forecasting System (SOCIB), Palma, Spain), Baptiste Mourre (Instituto Mediterráneo de Estudios Avanzados (IMEDEA (CSIC-UIB)), Esporles, Spain), Nikolaos Zarokanellos (Balearic Islands Coastal Observing and Forecasting System (SOCIB), Palma, Spain), Emma Reyes (Balearic Islands Coastal Observing and Forecasting System (SOCIB), Palma, Spain), Joaquín Tintoré (1) Balearic Islands Coastal Observing and Forecasting System (SOCIB), Palma, Spain 2) Instituto Mediterráneo de Estudios Avanzados (IMEDEA (CSIC-UIB)), Esporles, Spain)

ST2025OS6_005 - [Toward an Ocean Foundation Model Integrating SWOT and Conventional Altimetry](#)

Eugenio Cutolo (IMT Atlantique), Jinbo Wang (Texas A&M University), Ananda Pascual (IMEDEA), Carlos Granero Belinchon (IMT Atlantique), Ronan Fablet (IMT Atlantique)

ST2025OS6_006 - [Toward Assimilating SWOT Altimetry Data into the Current and Next-Generation GMAO Subseasonal-to-Seasonal Forecast System](#)

David Russell (University of Maryland / NASA), Eric Hackert (NASA), Doruk Ardag (Science Systems and Applications, Inc. / NASA), Cheng Da (University of Maryland / NASA)

ST2025OS6_007 - [Inverse modeling of the internal tide using the Coupled-mode Shallow Water model](#)

Samuel Kelly (University of Minnesota Duluth)

ST2025OS6_008 - [Assessment of High-Resolution Ocean Models Using SWOT Observations](#)

Habib Micael Aguedjou (CNES), Flavien Gouillon (CNES), Eric Chassignet (FSU/COAPS)

ST2025OS6_009 - [Variational method for dynamical reconstruction and separation of Balanced Motions and Internal Tide from SWOT](#)

Valentin Bellemin-Laponnaz (Institut des Géosciences de l'Environnement, Université Grenoble Alpes), Florian Le Guillou (Datlas), Clément Ubelmann (Datlas), Eric Blayo (Laboratoire Jean Kuntzmann, Université Grenoble Alpes), Emmanuel Cosme (Institut des Géosciences de l'Environnement, Université Grenoble Alpes)

ST2025OS6_010 - [From SWOT Swaths to Global Ocean: A Machine Learning Proof of Concept for Estimating Incoherent Tidal Variability](#)

Ergane Fouchet (Ergane FOUCHET), Jerome Chanut (Mercator Ocean International), Clément Bricaud (Mercator Ocean International)

Oceanography: Mean Sea Surface

Session chairs: Ole B. Andersen, Marie-Isabelle Pujol

Wed, Oct 15 2025, 17:30 - 18:30 - Poster session part 2

ST2025OS7_001 - [From open ocean to the coastal zone: benefits from SWOT in the mean sea surface](#)

Bjarke Nilsson (Technical University of Denmark, DTU Space), Ole Baltazar Andersen (Technical University of Denmark, DTU Space), Per Knudsen (Technical University of Denmark, DTU Space)

ST2025OS7_002 - [Seamounts from SWOT: Expanding the global catalogue and revealing their interactions with ocean currents](#)

Yao Yu (UCSD), David Sandwell (University of California San Diego), Martin Hawks (University of California San Diego), Sarah Gille (University of California San Diego)

Oceanography: Regional Validation

Session chairs: Louise Rousselet, Jinbo Wang

Tue, Oct 14 2025, 18:00 - 21:00 - Poster session part 1

ST2025OS2_001 - [4D-Var and SWOT: producing a month-long state estimate of the California Current System](#)

Ariane Verdy (UCSD), Sarah Gille (UCSD), Matthew Mazloff (UCSD), Bruce Cornuelle (UCSD)

ST2025OS2_002 - [Towards adjoint-based assimilation of SWOT data in a global ocean circulation model](#)

Shoshi Reich (Oden Institute, University of Texas at Austin), Patrick Heimbach (Oden Institute, University of Texas at Austin)

ST2025OS2_003 - [Super Resolution of DUACS Sea Surface Height near the coast of Norway using SWOT](#)

Antoine Bernigaud (NERSC), Julien Brajard (NERSC), Antonio Bonaduce (NERSC)

ST2025OS2_004 - [The spatial organization of Sargassum aggregations by ocean frontal dynamics : insights from SWOT data](#)

Pierre-Etienne Brilouet (LEGOS - IRD), Julien Jouanno (LEGOS - IRD)

ST2025OS2_006 - [Capsizing and impact wave detection – Case study of iceberg A-76A](#)

Constance Hjort (DTU Space), Ole Andersen (DTU Space), Bjarke Nilsson (DTU Space)

ST2025OS2_007 - [Internal solitary waves reflection and diffraction from interaction with eddies on the Amazon Shelf from SWOT](#)

Chloé Goret (CECI CNRS/Cerfacs/IRD, Université de Toulouse), Ariane Koch-Larrouy (CECI CNRS/Cerfacs/IRD, Université de Toulouse), Jorge Manuel Magalhães (Interdisciplinary Centre of Marine and Environmental Research & Department of Geosciences, Environment and Spatial Planning, University of Porto (CIMAR/CIIMAR)), José Carlos Bastos da Silva (Interdisciplinary Centre of Marine and Environmental Research & Department of Geosciences, Environment and Spatial Planning, University of Porto (CIMAR/CIIMAR)), Fabius Kouogang (CECI, Université de Toulouse, CERFACS/CNRS/IRD ; Departamento de Oceanografia, Universidade Federal de Pernambuco (DOCEAN/UFPE)), Carina Regina de Macedo (LEGOS, Université de Toulouse, CNRS, OMP, IRD ; Univ. Littoral Côte d'Opale, CNRS, Univ. Lille, IRD, UMR 8187 – LOG – Laboratoire d'Océanologie et de Géosciences ; Earth Observation and Geoinformatics Division, National Institute for Space Research (INPE)), Michel Tchilibou (Collecte Localisation Satellites (CLS)), Camila Artana (Laboratoire LOCEAN-IPSL, Sorbonne Universités, UPMC, Univ. Paris 6-CNRS-IRD-MNHN), Isabelle Dadou (LEGOS, Université de Toulouse, CNRS, OMP, IRD), Antoine Delepoulle (Collecte Localisation Satellites (CLS)), Maxime Ballarota (Collecte Localisation Satellites (CLS)), Loren Carrère (Collecte Localisation Satellites (CLS)), Simon Barbot (LEGOS, Université de Toulouse, CNES, CNRS, IRD, UPS), Alex Costa (Departamento de Oceanografia, Universidade Federal de Pernambuco (DOCEAN/UFPE)), M'hamdi Amine (LEGOS, Université de Toulouse, CNRS, OMP, IRD ; Departamento de Oceanografia, Universidade Federal de Pernambuco (DOCEAN/UFPE) ; CECI CNRS/Cerfacs/IRD, Université de Toulouse)

ST2025OS2_008 - [Investigating Mediterranean phytoplankton diversity in fine-scale structures from space.](#)

Théo Garcia (Institut de Mathématiques de Marseille (I2M) - UMR 7373, 3 place Victor Hugo Case 19, 13331 Marseille Cedex 3), Louise Rousselet (Laboratoire d'Etudes en Géophysique et Océanographie Spatiales (LEGOS), Toulouse), Laurina Oms (Aix-Marseille Université, Université de Toulon, CNRS/INSU, IRD, Mediterranean Institute of Oceanography (MIO), UM 110, Campus universitaire de Luminy, Marseille), Xavier Milhaud (Institut de Mathématiques de Marseille (I2M) - UMR 7373, 3 place Victor Hugo Case 19, 13331 Marseille Cedex 3), Andrea Doglioli (Aix-Marseille Université, Université de Toulon, CNRS/INSU, IRD, Mediterranean Institute of Oceanography (MIO), UM 110, Campus universitaire de Luminy, Marseille), Monique Messié (Monterey Bay Aquarium Research Institute, Moss Landing, CA), Claire Lacour (Laboratoire d'analyse et de mathématiques appliquées, Université Gustave Eiffel, 5 boulevard Descartes, 77454 Marne-la-Vallée Cedex 2), Pierre Vandekerckhove (Laboratoire d'analyse et de mathématiques appliquées, Université Gustave Eiffel, 5 boulevard Descartes, 77454 Marne-la-Vallée Cedex 2), Francesco d'Ovidio (Sorbonne Université, CNRS, IRD, MNHN, Laboratoire d'Océanographie et du Climat: Expérimentations et Approches Numériques (LOCEAN-IPSL), Paris), Julien Le Sommer (CNRS, IRD, Grenoble INP, IGE, Univ. Grenoble Alpes, Grenoble), Gérald Grégori (Aix-Marseille Université, Université de Toulon, CNRS/INSU, IRD, Mediterranean Institute of Oceanography (MIO), UM 110, Campus universitaire de Luminy, Marseille), Denys Pommeret (Institut de Mathématiques de Marseille (I2M) - UMR 7373, 3 place Victor Hugo Case 19, 13331 Marseille Cedex 3)

ST2025OS2_009 - [SWOT data validation on the Patagonian Continental Shelf: Optimized tidal and atmospheric corrections for submesoscale resolution](#)

Sebastián Cornejo-Guzmán (DCAO-CIMA, IFAECI), Martín Saraceno (DCAO-CIMA, IFAECI), Laura Ruiz Etcheverry (DCAO-CIMA, IFAECI), Juan Pablo Pisoni (CESIMAR), Juan Gabriel Vázquez (CESIMAR), Matías G. Dinapoli (DCAO-CIMA, IFAECI), Claudia G. Simionato (DCAO-CIMA, IFAECI)

ST2025OS2_010 - [Evidence and likely mechanisms underlying the existence of fine-Scale frontal phytoplankton communities in the SWOT era](#)

Laurina Oms (Aix Marseille Univ., Toulon University, CNRS, IRD, MIO UM 110, Marseille, 13288, France;), Monique Messié (Monterey Bay Aquarium Research Institute, Moss Landing, CA, USA;), Léo Berline (Aix Marseille Univ., Toulon University, CNRS, IRD, MIO UM 110, Marseille, 13288, France;), Marco Bellacicco (Institute of Marine Science, National Research Council of Italy, Via Fosso del Cavaliere, 100, 00133, Rome, Italy), Gérald Grégori (Aix Marseille Univ., Toulon University, CNRS, IRD, MIO UM 110, Marseille, 13288, France;), Andrea Doglioli (Aix Marseille Univ., Toulon University, CNRS, IRD, MIO UM 110, Marseille, 13288, France;)

ST2025OS2_011 - [First insights from SWOT fast sampling phase: High Frequency Coastal Trapped Waves over the Patagonian Shelf.](#)

Léa Poli (Mercator Ocean International), Camila Artana (Laboratoire LOCEAN-IPSL, CNRS, IRD, MNHN, Sorbonne Universités, Paris, France), Christine Provost (Laboratoire LOCEAN-IPSL, CNRS, IRD, MNHN, Sorbonne Universités, Paris, France), Alba Le Dissez (Laboratoire LOCEAN-IPSL, CNRS, IRD, MNHN, Sorbonne Universités, Paris, France)

ST2025OS2_012 - [Ecological role of fine-scale ocean structures in structuring heterotrophic bacterioplankton communities: BioSWOT-Med campaign](#)

Ludivine Grand (Institut Méditerranéen d'Océanologie), Aude Barani (Institut Méditerranéen d'Océanologie), Marceau Dupin (Institut Méditerranéen d'Océanologie), Elvira Pulido (Institut Méditerranéen d'Océanologie), Andrea Doglioli (Institut Méditerranéen d'Océanologie), Gérald Grégori (Institut Méditerranéen d'Océanologie)

ST2025OS2_013 - [Heat supply to the fast-thinning Denman glacier in Antarctica: ice and eddies interactions revealed by SWOT and in situ observations.](#)

Benoit Legresy (CSIRO), Laura HERRAIZ BORREGUERO (CSIRO), Ole RIEKE (University of Tasmania), Yuhang LIU (University of Tasmania), Annie FOPPERT (University of Tasmania), Matthias AUGER (University of Tasmania), Yann-Treden TRANCHANT (University of Tasmania), Bea PENA-MOLINO (CSIRO), Maxim NIKURASHIN (University of Tasmania)

ST2025OS2_014 - [New insights on mesoscale activity and associated retention properties from SWOT gridded products in the western Mediterranean Sea](#)

Laura Gomez-Navarro (IMEDEA (UIB-CSIC)), Ananda Pascual (IMEDEA (UIB-CSIC)), Diego Cortes-Morales (IMEDEA (UIB-CSIC)), Maxime Ballarotta (CLS), Marie-Isabelle Pujol (CLS), Laura Fortunato (Università degli studi di Napoli Parthenope), Baptiste Mourre (IMEDEA (UIB-CSIC))

ST2025OS2_015 - [Comprehensive studies on sub-mesoscale phenomena: coastal SSHA validations in the Bungo Channel, Japan, and impacts of assimilating SWOT data in ocean and hydrological models](#)

Kaoru Ichikawa (Kyushu University)

ST2025OS2_016 - [Unveiling Mediterranean Mesoscale to Sub-mesoscale Dynamics: Insights from WEMSWOT and C-SWOT-2023 Twin Ship Campaigns](#)

Jean-Baptiste Roustan (Shom), Valérie Garnier (LOPS), Pierre Garreau (LOPS), Franck Dumas (Shom), Aurélien Ponte (LOPS), Alexandre Barboni (LEGOS)

ST2025OS2_017 - [Submesoscale Sea Surface Height Mapping Along the East Greenland Coast From SWOT](#)

Sara N. Jensen (Dr), Ole baltazar Andersen (DTU Space), Bjarke Nilsson (DTU Space)

ST2025OS2_018 - [Southern Ocean latent heat flux variability driven by high atmospheric frequencies and oceanic meso- and submesoscale motions](#)

Lucie Reymondet (Scripps Institution of Oceanography, University of California San Diego), Lia Siegelman (Scripps Institution of Oceanography, University of California San Diego), Luc Lenain (Scripps Institution of Oceanography, University of California San Diego), Dimitris Menemenlis (Moss Landing Marine Laboratories, San José State University), Andrea Molod (NASA Goddard Space Flight Center)

ST2025OS2_019 - [Patagonian Shelf Break Front \(PSBF\): Seabed morphology, water masses and ocean currents](#)

Laura Ruiz-Etcheverry (CIMA/CONICET-UBA), Silvia Romero (Servicio de Hidrografía Naval), Graziella Bozzano (Servicio de Hidrografía Naval), Ornella Silvestri (Servicio de Hidrografía Naval)

ST2025OS2_020 - [Modelling the high-wavenumber ocean dynamics revealed by SWOT in the ACC](#)

Yann-Treden Tranchant (Australian Antarctic Program Partnership, University of Tasmania), Benoit Legresy (Commonwealth Scientific and Industrial Research Organisation), Clothilde Langlais (Commonwealth Scientific and Industrial Research Organisation), Paul Sandery (Commonwealth Scientific and Industrial Research Organisation), Darren Engwirda (Commonwealth Scientific and Industrial Research Organisation), Mike Herzfeld (Commonwealth Scientific and Industrial Research Organisation)

ST2025OS2_021 - [Submesoscale Eddies Identification and Characterization in the Oceanic Region of Fernando de Noronha and Rocas Atoll Using SWOT Satellite Observations](#)

Diogenes Fontenele (Universidade Federal do Ceará), Antonio Geraldo Ferreira (Universidade Federal do Ceará), Fabrice Hernandez (Institut de Recherche pour le Développement), Eduardo Savio Martins (Fundação Cearense de Meteorologia e Recursos Hídricos)

ST2025OS2_022 - [Surface ocean variability in the northern North Atlantic: Insights from the new SWOT mission](#)

Ingvild Olden Bjerkelund (Norwegian Meteorological Institute), Pål Erik Isachsen (University of Oslo), Jonathan M. Lilly (Planetary Science Institute), Marina Durán Moro (Norwegian Meteorological Institute), Martina Idžanovic (Norwegian Meteorological Institute), Antonio Bonaduce (NERSC)

ST2025OS2_023 - [Assessment of SWOT satellite observations and integration with high-resolution regional simulations in the Western Mediterranean Sea](#)

Baptiste Moure (Mediterranean Institute for Advanced Studies, IMEDEA (CSIC-UIB)), Jen-Ping Peng (Mediterranean Institute for Advanced Studies, IMEDEA (CSIC-UIB)), Elisabet Verger-Miralles (Mediterranean Institute for Advanced Studies, IMEDEA (CSIC-UIB)), Laura Gómez-Navarro (Mediterranean Institute for Advanced Studies, IMEDEA (CSIC-UIB)), Máximo García-Jové (Balearic Islands Coastal Observing and Forecasting System, ICTS SOCIB), Eugenio Cutolo (IMT-Atlantique), Bàrbara Barcelo-Llull (Mediterranean Institute for Advanced Studies, IMEDEA (CSIC-UIB)), Daniel R. Tarry (Applied Physics Laboratory, University of Washington), Nikolaos Zarokanellos (Balearic Islands Coastal Observing and Forecasting System, ICTS SOCIB)

ST2025OS2_024 - [TROPIC-SWOT: Submesoscale Ocean Currents In The Tropical Pacific](#)

Daniel Whitt (NASA Ames), Kydd Pollock (The Nature Conservancy), Dimitris Menemenlis (San Jose State University/Moss Landing Marine Lab), Santha Akella (NOAA), Brian Arbic (University of Michigan), Morgan Gilmour (NASA Ames)

ST2025OS2_025 - [Fine Scales Structures of the Abrolhos Bank Circulation during the SWOT FSP together with Insitu and Copernicus Data](#)

Fabrice Hernandez (IRD), Alex Costa (UFPE/DOCEAN), Ramilla Vieira de Assunção (UFPE)

ST2025OS2_026 - [SWOT-ETAO project : 2D mesoscale/submesoscale dynamics in the Eastern Tropical Atlantic Ocean using the SWOT data with multisensor and modelling approach](#)

Isabelle Dadou (LEGOS), Gaël Alory (LEGOS), Micaël Aguedjou (CNES), Yves Morel (LEGOS), Camille Cardot (LEGOS, eOdyn), Karim Thiam (LEGOS), Pierre-Etienne Brilouet (LEGOS), Guillaume Morvan (LEGOS), Clément Le Goff (LEGOS), Séréna Illig (LEGOS), Florent Gasparin (LEGOS), Julien Jouanno (LEGOS), Yann Krien (LEGOS), Florent Lyard (LEGOS)

ST2025OS2_027 - [Evaluating the impact of SWOT assimilation in Mercator Ocean International's forecasting system: insights from AdAC campaigns](#)

Ergane Fouchet (Ergane FOUCHET), Mounir Benkiran (Mercator Ocean International), Pierre-Yves Le Traon (Mercator Ocean International)

Oceanography: Tides and Inertia-Gravity Waves

Session chairs: Florent Lyard, Edward D. Zaron

Thu, Oct 16 2025, 17:30 - 18:30 - Poster session part 3

ST2025OS5_001 - [Use of new baroclinic tide models to improve the correction of internal tides in SWOT data](#)

Loren Carrere (CLS), Mei-Ling Dabat (CLS), Michel Tchilibou (CLS), Perrine Abjean (CLS), Florent Lyard (LEGOS/CNRS), Clément Ubelmann (DATLAS), Gérald Dibarboure (CNES)

ST2025OS5_002 - [A test case for correcting coherent and incoherent tides in altimetry data using MIOST](#)

Michel Tchilibou (CLS), Loren Carrere (CLS), Gérald Dibarboure (CNES), Maxime Ballarotta (CLS), Clément Ubelmann (Datlas)

ST2025OS5_003 - [Combining SWOT and numerical modeling in the Indonesian seas to investigate the internal tides and internal solitary wave interactions](#)

Simon Barbot (Université de Toulouse, LEGOS (CNES/CNRS/IRD/UT3)), Florent Lyard (Université de Toulouse, LEGOS (CNES/CNRS/IRD/UT3)), Michel Tchilibou (CLS), Patrick Marsaleix (Université de Toulouse, LEGOS (CNES/CNRS/IRD/UT3)), Marine Herrmann (Université de Toulouse, LEGOS (CNES/CNRS/IRD/UT3))

ST2025OS5_004 - [Baroclinic Tides Estimated from SWOT Science Mission Data](#)

Edward Zaron (Oregon State University)

ST2025OS5_005 - [Assessment of internal wave propagation through combined observations from SWOT \(sea surface height and backscatter coefficient\) and Sentinel-1 \(surface roughness and Doppler radial velocities\)](#)

Clément Le Goff (LEGOS (CNES/CNRS/IRD/UT), OMP 14, avenue Édouard Belin, 31400 TOULOUSE), Bertrand Chapron (IFREMER centre de Brest, 1625 Rte de Sainte-Anne, 29280 Plouzané), Isabelle Dadou (LEGOS (CNES/CNRS/IRD/UT), OMP 14, avenue Édouard Belin, 31400 TOULOUSE)

ST2025OS5_006 - [Capturing the evolution of baroclinic tides into internal solitary waves in the St. Lawrence Estuary with SWOT altimetry](#)

Xavier Chartrand (Université du Québec à Rimouski - Institut des sciences de la mer), Cédric Chavanne (Université du Québec à Rimouski - Institut des sciences de la mer), Pascal Matte (Environment and Climate Change Canada - Meteorological Research and Development)

ST2025OS5_007 - [The decay of the low-mode internal tide due to near-resonant wave-wave interactions](#)

Maarten Buijsman (University of Southern Mississippi), Dheeraj Varma (University of Southern Mississippi), Mujeeb Abdulfatai (University of Southern Mississippi), Miguel Solano (Sofar Ocean)

ST2025OS5_008 - [Internal tide energy decay in the Equatorial Pacific](#)

Oladeji Siyanbola (University of Southern Mississippi), Maarten Buijsman (University of Southern Mississippi), Roy Barkan (Tel Aviv University), Michal Shaham (Tel Aviv University)

ST2025OS5_009 - [Mapping Instantaneous Internal Tides from SWOT by An Improved Mapping Technique](#)

Zhongxiang Zhao (University of Washington), James Girtton (University of Washington)

Oceanography: Velocities

Session chairs: Patrice Klein, Aurelien Ponte, Andrey Shcherbina, Shafer Smith

Thu, Oct 16 2025, 17:30 - 18:30 - Poster session part 3

ST2025OS3_001 - [Dynamic Mode Decomposition of Geostrophically Balanced Motions from SWOT Cal/Val in the separated Gulf Stream](#)

Takaya Uchida (Moscow Institute of Physics and Technology), Badarvada Yadidya (University of Michigan), Karl Lapo (Universitat Innsbruck), Xiaobiao Xu (Florida State University), Jeffrey Early (NorthWest Research Associates), Brian Arbic (University of Michigan), Dimitris Menemenlis (San Jose State University), Luna Hiron (Florida State University), Eric Chassignet (Florida State University), Jay Shriver (Naval Research Laboratory), Maarten Buijsman (University of Southern Mississippi)

ST2025OS3_002 - [Relative dispersion at the surface of the ocean: role of balanced motions and internal waves](#)

Stefano Berti (Unité de Mécanique de Lille J. Boussinesq, Université de Lille), Michael Maalouly (Unité de Mécanique de Lille J. Boussinesq, Université de Lille), Apolline Dekens (Unité de Mécanique de Lille J. Boussinesq, Université de Lille), Guillaume Lapeyre (LMD/IPSL, CNRS, Ecole Normale Supérieure, PSL Research University, Paris), Aurélien L. S. Ponte (Ifremer, Université de Brest, CNRS, IRD, Laboratoire D'Océanographie Physique et Spatiale, IUEM, Brest)

ST2025OS3_003 - [Dynamical interpretation of SWOT SSH: an in-situ approach to disentangle balanced and unbalanced motions beneath SWOT swaths](#)

Arne Bendinger (LOPS), Clément Vic (LOPS), Sophie Cravatte (IRD), Lionel Gourdeau (LEGOS)

ST2025OS3_004 - [Observing and understanding internal solitary waves in the Maluku's Sea with SWOT](#)

Aurélien Ponte (Ifremer), Noé Lahaye (Inria)

ST2025OS3_005 - [Vertical velocities measurements in fine-scale processes during the BioSWOT-Med cruise](#)

Maxime Arnaud (Aix Marseille Univ., Université de Toulon, CNRS, MIO, 13288, Marseille, France), Stéphanie Barrillon (Aix Marseille Univ., Université de Toulon, CNRS, MIO, 13288, Marseille, France), Jean-Luc Fuda (Aix Marseille Univ., Université de Toulon, CNRS, MIO, 13288, Marseille, France), Robin Rolland (Sorbonne Université, CNRS, IRD, MNHN, LOCEAN-IPSL, 4 place Jussieu, Paris, 75005, France), Gérald Grégori (Aix Marseille Univ., Université de Toulon, CNRS, MIO, 13288, Marseille, France), Andrea Doglioli (Aix Marseille Univ., Université de Toulon, CNRS, MIO, 13288, Marseille, France), Francesco d'Ovidio (Laboratoire d'Océanographie et du Climat: Expérimentations et Approches Numériques (LOCEAN-IPSL), Sorbonne), Ananda Pascual (Mediterranean Institute for Advanced Studies, IMEDEA, (CSIC-UIB), Esporles, Spain), Anne Petrenko (Aix Marseille Univ., Université de Toulon, CNRS, MIO, 13288, Marseille, France)

ST2025OS3_006 - [Ubiquity and seasonality of deep submesoscales in the Southern Ocean revealed by elephant seals and SWOT](#)

Lia Siegelman (UCSD), Patrice Klein (Caltech), Christophe Guinet (CEBC CNRS)

ST2025OS3_007 - [Energy partition between internal waves and quasi-geostrophic motions in the moderately energetic area of the BioswotMed cruise](#)

Julien Lenne (LOCEAN), Pascale Bouruet-Aubertot (Sorbonne université), Yannis Cuypers (Sorbonne université), Anne Petrenko (Mediterranean Institute of Oceanography), Léo Berline (Mediterranean Institute of Oceanography), Anthony Bosse (Mediterranean Institute of Oceanography), Robin Rolland (Sorbonne université), Louise Rousselet (Sorbonne université), Ananda Pascual (IMEDEA), Francesco D'Ovidio (Sorbonne université), Andrea Doglioli (Mediterranean Institute of Oceanography)

ST2025OS3_009 - [Revealing the submesoscale structure of subthermocline eddies in the North East Pacific](#)

Giuliana Berden (University of Victoria), Jody Klymak (University of Victoria), Tetjana Ross (Institute of Ocean Sciences, Fisheries and Oceans Canada (DFO)), Guoqi Han (Institute of Ocean Sciences, Fisheries and Oceans Canada (DFO))

ST2025OS3_010 - [Spectral Kinetic Energy Cascades from SWOT Observations in the Kuroshio Region](#)

Jia-Xuan Chang (University of Michigan), Brian Arbic (University of Michigan)

ST2025OS3_011 - [Mixed layer mechanisms detected by SWOT](#)

Abigail Bodner (Massachusetts Institute of Technology), Bianca Champenois (Massachusetts Institute of Technology), Leah Johnson (University of Washington)

ST2025OS3_012 - [SWOT reveals fine-scale balanced motions and dispersion in the Antarctic Circumpolar Current](#)

Yann-Treden Tranchant (Australian Antarctic Program Partnership, University of Tasmania), Benoit Legresy (Commonwealth Scientific and Industrial Research Organisation), Annie Foppert (Australian Antarctic Program Partnership, University of Tasmania), Beatriz Peña Molino (Commonwealth Scientific and Industrial Research Organisation), Helen Phillips (University of Tasmania)

ST2025OS3_013 - [Lagrangian characterization of fine-scale processes \(1 to 10 km\) using an array of surface drifters in the Brazil Current](#)

Candela Lopez Fidel (University of Buenos Aires), Martín Saraceno (CIMA/CONICET-UBA), Sebastián Cornejo Guzmán (CIMA/CONICET-UBA), Laura Ruiz Etcheverry (CIMA/CONICET-UBA)

ST2025OS3_014 - [Inferring submesoscale transport from SWOT](#)

K. Shafer Smith (kss3@nyu.edu), Abigail Bodner (MIT), Dhruv Balwada (Columbia University), Spencer Jones (Texas A&M University), Leah Johnson (U Washington), Tatsu Monkman (NYU), Ryan Shijie Du (NYU)

ST2025OS3_015 - [Extrapolating high resolution SWOT SSH fields via deep learning techniques](#)

Tatsu Monkman (New York University), K. Shafer Smith (New York University), Dhruv Balwada (Columbia University), Spencer Jones (Texas A&M University)

ST2025OS3_016 - [Approaches to estimating heat and transport using sea surface height](#)

Feier Yan (Lamont-Doherty Earth Observatory, Columbia University), Dhruv Balwada (Lamont-Doherty Earth Observatory, Columbia University), Tatsu Monkman (Courant Institute of Mathematical Sciences, New York University), Shafer Smith (Courant Institute of Mathematical Sciences, New York University)

ST2025OS3_017 - [Assessing the seasonality of ocean macroturbulence in circulation models with SWOT data : first results from a cloud-based, distributed intercomparison study](#)

Julien Le Sommer (IGE/CNRS), Marcela Contreras (IGE/CNRS), Micaël Aguedjou (CNES), Amine Ouehechou (IGE/CNRS), Flavien Gouillon (CNES), Aurélie Albert (IGE/CNRS), Takaya Uchida (MIPT), Cyril Germaineaud (CNES), Eric Chassignet (COAPS)

ST2025OS3_018 - [Comparisons between SWOT measurements and surface currents obtained from optical sensors](#)

Nicolas Rasle (IFREMER), Renaud Binet (CNES), Erwin Bergsma (CNES)

ST2025OS3_019 - [Evaluating SWOT's Performance in Capturing Mesoscale and Submesoscale Currents in the Cape Basin](#)

A. Nathanael Dossa (Rosenstiel School of Marine, Atmospheric and Earth Sciences, University of Miami, Miami, FL, USA), M. Lisa Beal (Rosenstiel School of Marine, Atmospheric and Earth Sciences, University of Miami, Miami, FL, USA), Guillaume Novelli (Rosenstiel School of Marine, Atmospheric and Earth Sciences, University of Miami, Miami, FL, USA), J. Thomas Farrar (Woods Hole Oceanographic Institution, Woods Hole, MA, USA)

Oceanography: Wind and Waves

Session chairs: Fabrice Ardhuin, Bia Villas Boas

Tue, Oct 14 2025, 18:00 - 21:00 - Poster session part 1

ST2025OS4_001 - [Wave Spectra from SWOT: Overview of the New Level 3 Wind Wave Product](#)

Beatriz Molero (CLS), Molero Beatriz (CLS), Ardhuin Fabrice

(LOPS, Univ. Brest, CNRS, IRD, Ifremer, IUEM), Nigou Adrien (CLS), Dibarboure G rald (CNES), Postec Taina (LOPS, Univ. Brest, CNRS, IRD, Ifremer, IUEM), Chevrier Robin (CLS), Boh  Alejandro (CNES), Germaineaud Cyril (CNES), Mertz Fran oise (CLS), Mahler L a (CLS), Anne-Sophie Tonneau (CELAD), Romain Husson (CLS), Marine De Carlo (CLS), Ollivier Annabelle (CLS), Daniel Sandrine (CLS)

ST2025OS4_002 - [Observing Sea State Gradients from SWOT: Preliminary Results and Ongoing Efforts](#)

Bia Villas Boas (Colorado School of Mines), Alejandro Boh  (CNES), Gwendal Marechal (LEGOS), Han Wang (University of Hamburg), Ryan D  (Colorado School of Mines), Momme Hell (WHOI), Luc Lenain (Scripps Institution of Oceanography)

ST2025OS4_003 - [On the assimilation of upgraded L2 SWOT-swath SWH in the wave model MFWAM](#)

Lotfi Aouf (M t o-France, DIOP-CNRM), Ferraton L on (M t o France, DIOP/MAR), Wagner-Luiz Langer-Cosat (M t o France, DIOP/MAR)

ST2025OS4_004 - [Spatiotemporal Variability of Ocean Surface Waves in the Argentine Continental Shelf - SWOT Mission Contribution](#)

Leilou LEVARD (LEGOS), Martin SARACENO (University of Buenos Aires), Yann KRIEN (LEGOS), Florence BIROL (LEGOS)

ST2025OS4_005 - [SWOT as a new global ocean imager for air-sea interaction applications in synergy with present and future ocean SAR missions](#)

Doug Vandemark (Univ. of New Hampshire), Justin Stopa (U. Hawaii), Ralph Foster (Univ. of Washington/APL), Bertrand Chapron (IFREMER), Ryan Eastman (Univ. of Washington)

ST2025OS4_006 - [The 2025 Drake Passage Tsunami imaged by SWOT](#)

Lucie Rolland (Universit  C te d'Azur, Observatoire de la C te d'Azur, CNRS, IRD, G oazur), Antoine Delepou le (CLS), Faug re Yannice (CNES), Mauricio Fuentes (Universidad de Chile, Programa Riesgo Sismico), H l ne H bert (CEA), Gabriela Herrera Malig (Universidad de Chile, Programa Riesgo Sismico), Jean Roger (Earth Structure and Processes Department, GNS Science, Lower Hutt, Aotearoa New Zealand), Patricio Toledo (Universidad de Chile, Programa Riesgo Sismico), Francisco Uribe (Universidad de Chile, Programa Riesgo Sismico)

ST2025OS4_007 - [Observing variability in ocean wave climates with SWOT](#)

Ho Allison (Jet Propulsion Laboratory, California Institute of Technology), Jinbo Wang (Texas A&M University), Bruce Haines (Jet Propulsion Laboratory, California Institute of Technology), Andy Wu (Jet Propulsion Laboratory, California Institute of Technology), Scott Stalin (NOAA PMEL)

ST2025OS4_008 - [Wave Observations across Tuamotu Archipelago from Wide Swath Radar Altimetry \(SWOT\)](#)

Taina Postec (Laboratoire d'Oc anographie Physique et Spatiale (LOPS), Univ. Brest, CNES, CNRS, IRD, Ifremer, IUEM, Brest, 29200, France), Guillaume Dodet (Laboratoire d'Oc anographie Physique et Spatiale (LOPS), Univ. Brest, CNES, CNRS, IRD, Ifremer, IUEM, Brest, 29200, France), Fabrice Ardhuin (Laboratoire d'Oc anographie Physique et Spatiale (LOPS), Univ. Brest, CNES, CNRS, IRD, Ifremer, IUEM, Brest, 29200, France), Swen Jullien (Laboratoire d'Oc anographie Physique et Spatiale (LOPS), Univ. Brest, CNES, CNRS, IRD, Ifremer, IUEM, Brest, 29200, France), Lisa Maillard (Laboratoire d'Oc anographie Physique et Spatiale (LOPS), Univ. Brest, CNES, CNRS, IRD, Ifremer, IUEM, Brest, 29200, France)