

# International Sea Level Workshop Draft Program

## 2 - 4 June 2026, Brest, France

Organized by LOPS/CNRS and CREOCEAN

with support from CNES

### Day 1 - Tuesday 2 June

- 13:30 - 14:00 *Coffee & Registration*
- 14:00 - 14:15 **Introduction to the workshop (William Llovel & Lucia Pineau-Guillou)**
- 14:15 - 17:45 **SESSION 1: GLOBAL AND REGIONAL SEA LEVEL (Chair William Llovel)**
- 14:15 - 14:40 **How is the global and regional sea level budget closed from the latest observations?**  
Marie Bouih, Robin Fraudeau, Ramiro Ferrari\*, Michaël Ablain, Anny Cazenave, Benoit Meyssignac, Alejandro Blazquez, Martin Horwath, Jonathan Bamber, Antonio Bonaduce, Thorben Döhne, Roshin Raj, Stéphanie Leroux, Nicolas Kolodziejczyk, Erwan Oulhen, William Llovel, Giorgio Spada, Andrea Storto, Chunxue Yang
- 14:40 - 15:05 **33 years of Global Mean Sea Level measurement and associated uncertainties based on L2P vDT2024 products**  
Victor Quet, Pierre Prandi, François Bignalet-Cazalet, Lionel Zawadzki, Benoit Meyssignac
- 15:05 - 15:35 **Extended reality modeling to raise coastal flooding risk awareness in Guissény (Brittany, France)**  
Pauline Letortu, Maxime Kernec, Pierre Mahieux, Riwalenn Ruault, Ronan Querrec, Nicolas Loncle, Julien Dilasser, Jérôme Ammann, Sébastien Hervé
- 15:35 - 16:30 *Coffee Break - **Test extended reality and coastal flooding on the dedicated stand during the coffee break !***
- 16:30 - 16:55 **Sea level trends and budget closure in the ice-covered Southern Ocean from multi-mission altimetry**  
Cosme Mosneron-Dupin, William Llovel, Casimir De Lavergne, Jean-Baptiste Sallée
- 16:55 - 17:20 **North Atlantic sea level budget revisited**  
Zhe Song, Anny Cazenave, William Llovel, Andrea Storto, Marie Bouih
- 17:20 - 17:45 **ECCC (Environment and Climate Change Canada)'s 65-Year Global Total Sea Level Hindcast: Current Product and Ongoing Upgrade**  
Pengcheng Wang, Natacha Bernier

### Day 2 - Wednesday 3 June

- 09:00 - 10:20 **SESSION 1: GLOBAL AND REGIONAL SEA LEVEL (continued) (Chair William Llovel)**
- 09:00 - 09:25 **Assessing the predictability of steric sea level through observations**  
Florian Sévellec, Nicolas Kolodziejczyk, William Llovel
- 09:25 - 09:50 **Connecting the past and the future to build regional sea-level projections**  
Dewi Le Bars, Sybren Drijfhout
- 09:50 - 10:15 **Uncertainty in ocean heat uptake estimate from the combination of altimetry, gravimetry and in-situ data**  
Elisabeth Armaut, Ramiro Ferrari, Michaël Ablain, Benoit Meyssignac, Alejandro Blazquez, Thomas Duvignacq, Sébastien Fourest, Robin Fraudeau
- 10:15 - 10:45 *Coffee Break*
- 10:45 - 12:05 **SESSION 2: REGIONAL AND COASTAL SEA LEVEL (Chair Lucia Pineau-Guillou)**
- 10:45 - 11:10 **Towards a broad scale climate service for coastal adaptation to sea level rise in Europe: The CoCliCo project.**  
Rémi Thiéblemont, Gonéri Le Cozannet, Angélique Melet, Paul Sayers, Arjen Luijendijk, Iñigo Losada, Melisa Menéndez, Robert J. Nicholls, Alexandra Toimil, Elco Koks, Athanasios Vafeidis, Jochen Hinkel, Daniel Lincke, Vincent Bascoul, Susana Romao

11:10 - 11:35 **Historical sea level measurement series in France: Preliminary results of the reconstruction of tide gauge series in Normandy (France)**

Inge Van Den Beld, Titouan Hamon, Salome Ferre, Marie Dauguet, Nicolas Pouvreau, Nathalie Giloy

11:35 - 12:00 **Reconstructing regional 20th century sea level changes from tide gauges using the Analog Method**

Erwan Oulhen, Aimée Slangen, Matthew D. Palmer

12:00 - 14:00 *Lunch*

**14:00 - 16:05 SESSION 3: EXTREMES & COASTAL FLOODING (Chair TBC)**

14:00 - 14:25 **Compound flooding on the coast of Madagascar: Impacts of land-ocean interactions and sea level rise**

Md Jamal Uddin Khan, Fabien Durand, Afroosa Malik, Paul Coulet, Xavier Bertin, Valérie Mueller, Yann Krien, Caroline Wainwright

14:25 - 14:50 **Trends vs multidecadal variability in extreme sea level components: mean sea level, tide and storm surges**

Julie Cheynel, Lucia Pineau-Guillou, Pascal Lazure

14:50 - 15:15 **Extreme sea levels, flooding and uncertainties for coastal planning**

Lucia Pineau-Guillou

15:15 - 15:40 **Disentangling drivers of chronic coastal flooding on the French Atlantic coast**

Guilhem Chicot, Rémi Thiéblemont, Guy Woppelmann, Deborah Idier

15:40 - 16:05

16:05 - 16:30 *Coffee Break*

**16:30 - 18:00 POSTER SESSION**

18:00 - 19:00 *Cocktail*

## Day 3 - Thursday 4 June

**09:00 - 10:20 SESSION 3: EXTREMES & COASTAL FLOODING (continued) (Chair TBC)**

09:00 - 09:25 **Influence of wave-sea level interactions on coastal erosion and flooding along the European coastline**

Alisée Chaigneau, Alexandra Toimil, Angélique Melet, Aurore Voltaire, Guillaume Reffray, Stéphane Law-Chune, Lotfi Aouf, Melisa Menendez

09:25 - 09:50 **The origins of the Senyar tropical cyclone and its impacted areas in Sumatra, Indonesia**

Erma Yulihastin, Sanaullah Zehri, Prawira Yudha Kombara, Narizka Nanda Purwandani, Eka Oktavia Sari, Wirid Birastris, Inovasita Alifidini, Albertus Sulaiman, Simon Barbot, Josephine Brown

09:50 - 10:15 **Dynamical properties of sea level extremes**

Théophile Caby, Lucia Pineau-Guillou, Florian Sévellec, Jean-Marc Delouis,

**10:15 - 12:50 SESSION 4: WAVES (Chair Fabrice Ardhuin)**

10:15 - 10:40 **On the influence of reef geometry on nearshore water levels**

France Floc'h, Emmanuel Cordier, William Bruch, Jaimie Machabée, Samuel Osina, Gwenäelle Pennober, Christophe Delacourt

10:40 - 11:10 *Coffee Break*

11:10 - 11:35 **Noise in sea level measurements with SWOT: waves, wave groups and other phenomena**

Fabrice Ardhuin, Beatriz Molero, Pierre Dubois, Alejandro Bohé

11:35 - 12:00 **Assessing SWOT performance to measure waves and sea level variability over Rangiroa atoll, French Polynesia**

Ewen Cottour, Guillaume Dodet, Clémence Chupin, Laurent Testut, Taina Postec, Lisa Maillard, Swen Jullien, Frédéric Bouchette

12:00 - 12:25 **Candhis, the French coastal observatory for in-situ wave measurements: evolution of storms over the years**

Xavier Kergadallan

12:25 - 12:50 **ResourceCode: overview of the hindcast database development and the use of the toolbox**

Nicolas Raillard, Mickael Accensi, Christophe Maisondieu, Charlie Andre

12:50 - 14:00 *Lunch*

14:00 Closing

## List of posters

P1 **Combining SWOT and idealized numerical modeling to investigate the internal tides fate in Indonesian seas**

Simon Barbot, Patrick Marsaleix, Clément Le Goff, Florent Lyard, Michel Tchilibou

P2 **Deep learning–based downscaling and bias correction of CMIP6 sea level projections over the Indonesian region using CMEMS Reanalysis**

Adityo Wicaksono

P3 **Estimation of uncertainties in sea-level trends through a comparison of tide gauge and model data**

Simona Flavoni, Melanie Becker, Mikhail Karpytchev

P4 **Reconstructing 20th Century regional sea-level change**

Elisa Van Merkesteyn, Aimée Slangen, R Van de Wal, Kristin Richter

P5 **Sea Level Rise along East coast of India : Implications to shore line changes**

Nadimikeri Jayaraju

P6 **Sea level rise and internal variability along French coasts**

Océane Du Laurent de la Barre, Lucia Pineau-Guillou, William Llovel

P7 **Zonal asymmetry of the belt-like dynamic Sea Level Change in the Southern Ocean**

Zhen Liu, Changlin Chen, William Llovel

P8 **Local sea level budget evolution over the 20th century at tide gauges in the North Atlantic**

Blandine Jacob, William Llovel, Lucia Pineau-Guillou and Virginie Thierry

P9 **Evaluation of sea-level monitoring using GNSS interferometric reflectometry**

Odilon J. Houndegnonto, Pierre Bossier, Gaël André, Clémence Chupin and Ronan Autret

P10 **Physical processes controlling regional halosteric sea level rise in the south-east Indian Ocean**

Geoffroy Tourneux, Antoine Hochet and William Llovel