

Advances in methods and applications for satellite altimetry

EGU 2020
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General Information

- We will go through the uploaded displays following the topics “**ocean altimetry**”, “**coastal altimetry**”, “**sea and land ice altimetry**”, “**inland altimetry**”, and “**altimetry toolboxes**”.
- Each uploaded material will be presented and discussed for about **5 minutes**. As author, please summarise your contribution in a few sentences and indicate when you are ready for questions.
- We do not see if someone is typing. Thus, please indicate if you need some time for typing to answer questions
- We ask you not to discuss previous displays any longer, after a new author started his or her presentation. You can always continue the discussions in the comments below the uploaded material.
- In the remaining time we will have an open discussion about some seed questions which can also be found in the uploaded material.

Schedule of Displays: Ocean Altimetry

Rosemary Morrow and Lee-Lueng Fu	Preparing for fine-scale ocean surface topography observations with the Surface Water and Ocean Topography (SWOT) Mission
Mao Zhou , Taoyong Jin, Jiancheng Li, Shengjun Zhang, and Minzhang Hu	Analysis on the Accuracy of Marine Gravity Inversion from the Wide-swath Altimeter Mission
Milaa Murshan , Balaji Devaraju, Nagarajan Balasubramanian, and Onkar Dikshit	Regional Mean Sea Surface Model over the Eastern Mediterranean Sea
Róbert Čunderlík , Marek Macák, Michal Kollár, and Karol Mikula	High-resolution numerical modelling of the altimetry-derived gravity disturbances and disturbing gradients

Schedule of Displays: Coastal Altimetry

David Cotton et al., and Jérôme Benveniste	Improved Retrieval Methods for Sentinel-3 SAR Altimetry over Coastal and Open Ocean and recommendations for implementation: ESA SCOOP Project Results
Luciana Fenoglio-Marc , Bernd Uebbing, Jürgen Kusche, and Salvatore Dinardo	Coastal Sea Level Change from in the North Eastern Atlantic
Marcello Passaro, Felix L. Müller , et al.	Using the Baltic Sea to advance algorithms to extract altimetry-derived sea-level data from complex coastal areas, featuring seasonal sea-ice

Schedule of Displays: Sea and Land Ice Altimetry

Sea Ice

Alessandro Di Bella, Ron Kwok, Thomas Armitage, Henriette Skourup, and René Forsberg

Multi-Peak Retracking of CryoSat-2 SARIn Waveforms: Potential for Sea Ice Applications

Land Ice

Thomas Slater et al.

withdrawn

Seasonal elevation changes in the Greenland Ice Sheet from CryoSat-2 altimetry

Inès Otosaka et al.

Correlated Fluctuations in Surface Melting and Ku-band Radar Penetration in West Central Greenland

Natalia Havelund, Louise S. Sørensen, and Sebastian B. Simonsen

Investigation of the added value of a varying coherence threshold for CryoSat-2 swath processing

Schedule of Displays: Inland Altimetry

Moshe Armon , Elad Dente, Yuval Shmilovitz, Amit Mushkin, Efrat Morin, Tim J. Choen, and Yehouda Enzel	High-resolution bathymetry mapping of shallow and ephemeral desert lakes using satellite imagery and altimetry
Giada Molari , Alessio Domeneghetti, Mohammad Tourian, Angelica Tarpanelli, Tommaso Moramarco, and Nicolaas Sneeuw	Satellite altimetry for hydraulic model calibration: potential of single and multi-mission series

Schedule of Display: Toolboxes

Américo Ambrózio, Marco Restano, and
Jérôme Benveniste

The BRAT and GUT Couple: Broadview Radar Altimetry and
GOCE User Toolboxes

Seed Questions

- What are the most prominent observational gaps in satellite altimetry of the cryo- and hydrosphere?
- What are your expectation on the SWOT mission?