

OBJECTIVES OF THE WORKSHOP (5-7 FEBRUARY 2020)

- Review of the science and applications of coastal altimetry, from data processing through emerging applications to new technologies.
- Review studies using the latest missions (Sentinel-3A/B, CryoSat-2, HY-2, AltiKa and Jason-3) and the anticipation of synergies with the SWOT mission.
- Discuss Sea Level, Dynamic Topography, Currents, Winds and Waves, Sea State, Extreme Events, etc., exploiting altimetry and other data for both real-time monitoring and long-term change studies.
- Collect requirements from users to stimulate the improvement of current applications and shaping future ones, space-borne and in situ products, models, and consolidate the recurring requirements for a Global Coastal Altimetry Product Standard.

PARTICIPATION AND ABSTRACT SUBMISSION

- Authors are kindly invited to submit abstract(s) (up to 500 words) by 15 November 2019.
- The working language of the Workshop is English.
- No participation/registration fee will be charged.
- Participants are expected to finance their own travel and accommodation expenses.
- Papers will be selected by the Scientific Committee on the basis of their content and relevance to the themes of the workshop.
- Authors will be notified of the decision and the type of presentation (oral or poster) by 13 December 2019.

Presentations given at the workshop will be published on the workshop website: www.coastalaltimetry.org

ORGANISING COMMITTEE

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CONTACTS

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VENUE

ESA's Centre for Earth Observation (ESRIN) will host the workshop. It is located in Frascati, Italy, a town in the Rome south-east suburb.

Location Address:

ESA-ESRIN - Largo Galileo Galilei, 1 - 00044 Frascati (RM), Italy

www.coastalaltimetry.org



→ 12th COASTAL ALTIMETRY WORKSHOP

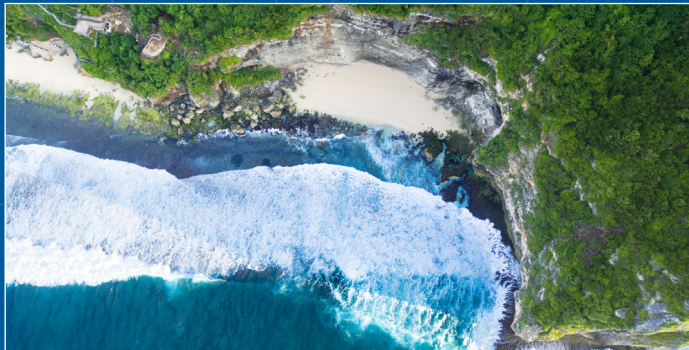
Coastal Altimetry Training

4-7 February 2020 | ESA-ESRIN | Frascati (Rome), Italy

OBJECTIVES OF THE TRAINING COURSE

(4 FEBRUARY 2020)

- Introduce altimetry missions and technologies to a non-expert audience.
- Present applications for oceanography and discuss challenges in coastal zone altimetry.
- Provide a description of existing coastal altimetry datasets.
- Present toolboxes and online processing platforms.



PROGRAMME OF THE TRAINING COURSE

Altimetry: Principles, Issues and Progresses in the Coastal Zone

Altimetry Principles
Advanced Altimetry

Datasets for Coastal Altimetry

Sea Level_cci+ Going Coastal (ALES, X-TRACK)

Fields of Application for Coastal Altimetry

Coastal Circulation and Currents
Coastal Wave Climate and Storm Surges
Synergy and Validation with Tide Gauges
Synergy with Models

Online Processing Platforms & Toolboxes

SARvatore & BRAT Demos

THEMES OF THE WORKSHOP

Technical Issues in Coastal Altimetry:

- Progress on waveform modelling and retracking.
- Sea State Bias correction in coastal regions & improvements in other corrections.
- Performance assessment of coastal altimetry.
- Calibration and validation of coastal altimetry data and intercalibration amongst various missions.

Applications of Coastal Altimetry Data:

- Use of data from the various data providers and/or reprocessing initiatives (such as SL_cci, SS_cci, Reaper, CTOH, ALES/ALES+) and others from NASA/NOAA and other worldwide space or funding agencies.
- Possible applications comprise coastal sea level variations, coastal sea state & sea level interactions, coastal currents, coastal wave field, storm surge research, interaction between inland water discharge & coastal sea level and 2D Altimetry in the coastal zone in preparation of SWOT.
- Assimilation of data in coastal dynamics and storm surge models.

Synergistic and Climate Studies:

- Synergies of coastal altimetry with in situ, model and other satellite data (like SAR, SST, ocean colour).
- Integration of coastal altimeter data into coastal observing systems.
- Investigation of Climate-scale variations of sea level and sea state in the coastal zone.

DEADLINES

Deadline for Abstract Submission	15 November 2019
Notification of Acceptance	13 December 2019
Deadline for Registration to the Coastal Altimetry Training Course (free of charge)	8 January 2020
Deadline for Registration to the Workshop (free of charge)	8 January 2020

