

Coastal Altimetry Status and Recommendations from the 11th Coastal Altimetry Workshop (CAW-11)

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and the session chairs and participants in CAW-11



CAW-11, ESRIN, 12-15 June 2018

88 participants
37 Talks **26 posters**



→ 11th COASTAL ALTIMETRY WORKSHOP & TRAINING

12-15 June 2018 | ESA-ESRIN | Frascati (Rome), Italy

Many results, plenty of discussion time

Review of technical improvements (retracking/corrections)

Review of datasets for coastal altimetry

Many Processing Platforms:

Coastal TEP, GPOD, Co-ReSyF, X-TRACK....

Plenty of applications

sea level, currents, wind&waves, surges,
climate...

Synergy among coastal altimetry data, in-situ observations
and models has been a central topic

| ID | Produced by | Altimeter | Product level | Posting rate | Coverage | Download from | Comments |
|-----------|-------------|---------------------------|---------------|--------------|-----------------------------|---------------|---|
| PISTACH | CLS | | | | | | |
| | CNES | j2 | L2 | 20 Hz | Global | | |
| PEACHI | CLS | | | | | | |
| | CNES | sa, (j2 to be added soon) | L2 | | | AVISO+ | Experimental Jas studies with special of 2016 in favor of experimental SAR back and correct coastal zones, hydro also j2 products |
| XTRACK | LEGOS-CTOP | | | | | | processing using files alongside |
| ALES | | | | | | | On-demand Processing service data where the user can configure parameters to meet specific coastal zone) |
| SARvatore | ESA | | | | | | Global products for CryoSat-2 from output is in PLRM over the SAR specific coastal processing |
| COP | ESA | | | | | | Dedicated coastal altimetry sea level enhanced ALES retracker |
| COSTA | DGFI-TU | | | | | | |
| | | (j2, e1 to be added soon) | L3 | 20 Hz | Global | | |
| | | | | 1 Hz | Mediterranean and North Sea | | |
| | | | | 20 Hz | | | |
| | | | | | | | |

Table with links at www.coastalt.eu
Community is working towards a synthesis of the datasets

Recommendations – support/funding

The CAW Community recommends to all Space Agencies, the European Commission and the National Funding Agencies:

to investigate how to fund non-French and non-US-based research teams in the next SWOT (2019) and OSTST (2020) Science calls.

to support contributions to the joint exploitation of the CEOS Ocean Surface Topography Constellation, in order to induce and facilitate the preparation of the SWOT data uptake, in conjunction with the already flying altimeters.



Output from CAW-11

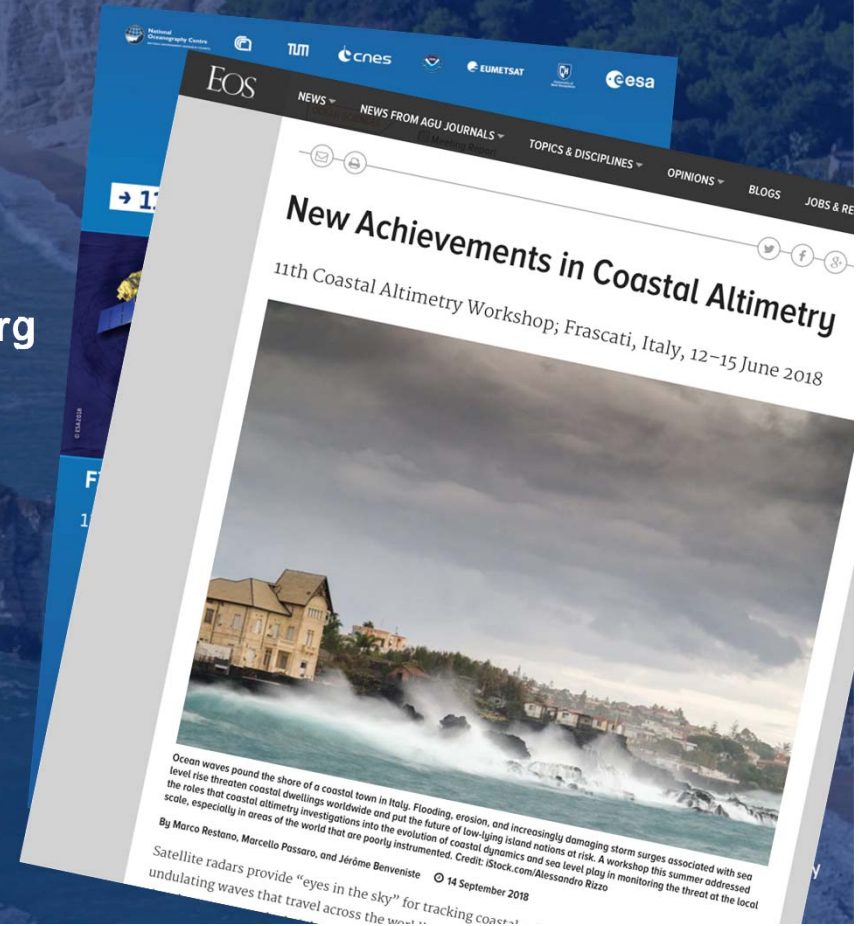
Comprehensive Workshop Report

All presentations and posters

→ All available on www.coastalaltimetry.org

Summary in EOS (Restano, Passaro & Benveniste)

→ 11th COASTAL ALTIMETRY WORKSHOP & TRAINING



...and the First Coastal Altimetry Training Course

organized by Marcello Passaro, Marco Restano, Stefano Vignudelli, Jérôme Benveniste

with lectures by Remko Scharroo, Marie-Hélène Rio, Doug Vandemark, John Wilkin, Marcello Passaro, Fabien Léger, Claire Dufau, Walter Smith, Salvatore Dinardo, Marco Restano



..bringing more young scientists and users into the community

What next?

Coastal Altimetry remains very topical – see the many contributions at 25YPRA and OSTST
2019 a busy year.... (we start with special coastal altimetry session @ AGU Fall Dec '18!)

ESA Living Planet Symposium (May) → special session on “**Monitoring the coastal zone from space**” – please contribute!!

IUGG/IAPSO (July)

OceanObs'19 (September) → **white paper on coastal zone**

OSTST (October)

**Proposal: Coastal altimetry splinter at OSTST
(like in Miami 2017)**

...and then CAW-12 + Training in Feb/Mar 2020

(ESRIN as baseline solution, but proposals for other locations welcome!)