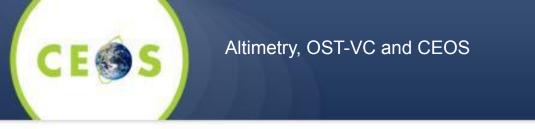


Committee on Earth Observation Satellites

OST-VC

VC Co-Leads: Annick Sylvestre-Baron/CNES, Remko Scharroo/EUMETSAT CEOS SIT Technical Workshop 2020 Session and Agenda Item # 3.2 Virtual Meeting 11 September 2020





OST-VC links the agencies, OSTST, altimetry user community, and CEOS

- Ocean Surface Topography Science Team
 - ROSES call (<u>https://nspires.nasaprs.com/external/index.do</u>) & TOSCA call (<u>https://www.aviso.altimetry.fr/en/news/front-page-news/news-detail.html?tx_ttnews%5Btt_news%5D=2556</u>) for renewal of the ST for 2021-2024 are on going
 Proposals due on October 1st (TOSCA call) and on October 8th (ROSES call)
 - Proposals due on October 1st (TOSCA call) and on October 8th (ROSES call)
 2020 OSTST meeting planned next October was cancelled due to covid-19
- Inter-agency cooperation on current and future missions
 - CFOSAT: CNSA, CNES, EUMETSAT (NRT distribution)
 - Jason-3: NOAA, EUMETSAT, NASA, CNES
 - SARAL/AltiKa: ISRO, CNES, EUMETSAT (NRT distribution)
 - Hy-2A/2B/2C/2D: CNSA, CNES
 - Sentinel-3 A/B/C/D: EU, EUMETSAT (ocean), ESA (land)
 - Sentinel-6 Mickael Freilich//B: EU, EUMETSÄT, ESA, NÓAA, NASA, CNES
 - CRISTAL: EU, ESA (polar areas), EUMETSAT (global ocean)
 - SWOT: NASA/JPL, ČNES, CSA, UKSA
 - WISA: ESA, CNES
 - CryoSat-2: ESA
 - CÓMPIRA: JAXA
 - GUANLAN: CNSA
 - Copernicus Next Generation Topography Constellation (Follow-on of S3, S6 and CRISTAL)
- OST-VC suited to discuss constellation-wide programmatic issues
 - From virtual to actual coordinated constellation
 - Update of Constellation URD
- OST-VC representative in COVERAGE initiative
- OST-VC is interested by some coordination with the CEOS COAST (Coastal Observations and Applications Study Team) especially in the context of coastal altimetry.



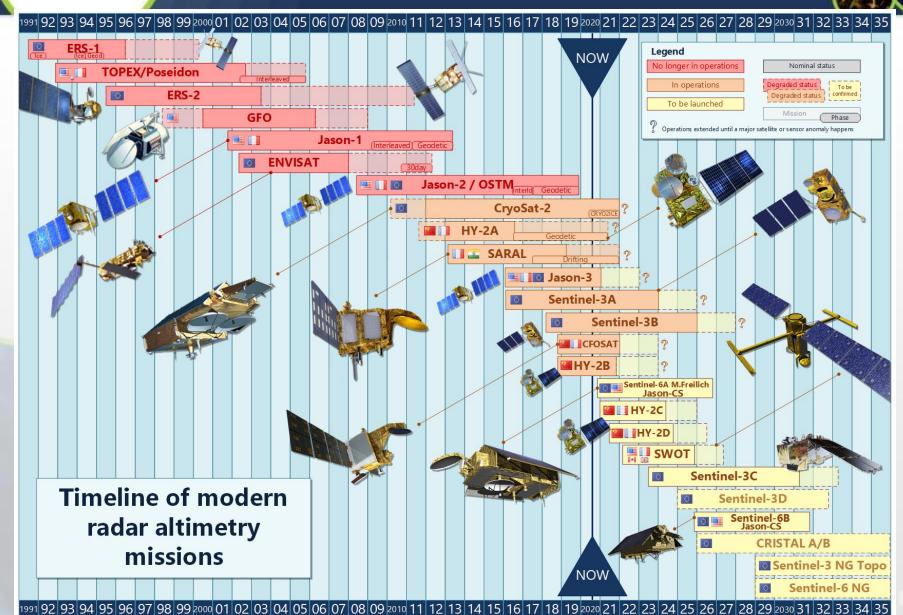
Co-chairs:

- Remko Scharroo (EUMETSAT) also OSTST project scientist, to be replaced by Estelle Obligis (proposed to the SIT meeting for approval in October)
- Annick Sylvestre-Baron (CNES)

Other members:

- Craig Donlon (ESA) also OSTST project scientist
- Eric Leuliette (NOAA) also OSTST project scientist
- Nadya Vinogradova (NASA) Eric Lindstrom retired end of 2019
- Gregg Jacobs (US Navy)
- Kai Matsui (JAXA)
- Rashmi Sharma (ISRO)
- Wang Chen left CNSA last year A new CNSA representative to be designed

OST-VC constellation updates (1)



4



CFOSAT

- Launched 29 October 2018 Not directly for ocean topography, but winds and waves 0
- All data released to science community since July 2020 0
- L3 SWH CFOSAT available on CMEMS catalogue 0

SARAL

- Extension of mission to end of 2021 0
- Current drifting phase for winds, waves and geodetic applications 0

Jason-3

- Since Jason-2 decommissioning, Jason-3 is the altimetry reference mission 0
- Still on historical TOPEX/Poseidon orbit S6 Michael Freilich on the same orbit as Jason-3 for at least 6 months then Jason-3 will change 0 to a TBD orbit (OSTST action)

Sentinel-3

• C unit planned for 2023 and D unit for 2025. Phasing with A/B under discussion.

Sentinel-6 Michael Freilich

- To be launched on November 10th, 2020 (LORR on 10th of September)
 Will be the future altimetry reference mission
- Sentinel-6B to be launched around 2026. 0

HY₂

- HY2-B Nominal guality of data and nominal availability. L2 products available from CNSA. L3 in CMEMS catalogue since this summer. 0
- HY2-CTo be launched this fall 0

SWOT

Official launch date (decision before covid-19 crisis): Feb 2022 0

Reprocessing

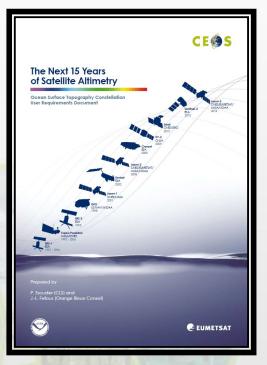
- To secure and improve the climate quality sea level time series various reprocessing efforts are on-going 0
- Sentinel-3: full reprocessing for A and B satellites done in 2020 0
- TOPEX/Poseidon: to be available soon 0
- Jason-3 reprocessing is ongoing (alignment with Sentinel-6 standards). Jason-1 & 2 to follow. 0



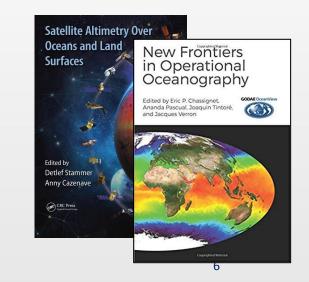


Important action from last 2019 CEOS Strategic Implementation Team Technical Workshop (SIT TW 2019) – 11/12 September 2019, Fairbanks, USA

 Update of the "Next 15 years of altimetry – OST Constellation User Requirement Document", 2009.



 Integrate new user needs (included specific requirement from the CEOS COAST team) from recent books and white papers from the community. E.g.



Deliver a new OST-VC White Paper Document (action VC-19-06) by Q4 2020



- OST-VC Side meeting at 2019 Ocean Surface Topography Team (OSTST) Meeting in Chicago, 21-25 October 2019 mainly dedicated to action VC-19-06
 - OST-VC presentation done during the OSTST plenary closure session to present the OST-VC action (contents, implementation planning, OSTST solicitation)
 - ✓ OSTST will be be solicited:
 - For specific contributions in their area of expertise
 - For overall review of the first draft
 - Remaining parts will be done by the OST-VC members under Eumetsat/CNES coordination.
- Beginning of 2020, ESA kicked off the Copernicus Next Generation Topography Constellation (NG-TC) Expert Team. Because of the large overlap with the activities considered for the writing of a White Paper on this by the OST-VC, it was concluded that the activities for the White Paper would best be delayed until the NG-TC activities have concluded (later 2020), and the scope of the OST-VC White Paper can be reassessed. The NG-TC MATER (Mission Assumptions and the derived Technical Requirements) will be an additional input to update the OST-VC white paper.
 - OST-VC members were informed mid of May
 - Information done via OST-VC May monthly report
 - □ New deadline for VC-19-06 is End of 2021