# Outreach & Data Services

Co-Chairs: Vinca Rosmorduc, Collecte Localisation Satellite

Margaret Srinivasan, Jet Propulsion Laboratory California Institute of Technology Jack Mcnelis, Jet Propulsion Laboratory California Institute of Technology

OSTST Virtual 21-22 March 2022

# Data services

### Change track

• keeping a permanent track of changes is of foremost importance:

- users may get lost between versions / satellites,
- and/or have missed the information when it is released

## Continuity

- As much homogeneity as possible between missions would be appreciated by users
- In:
  - data format & nomenclature,
  - processing,
  - standards
- But also in data distribution (whatever the mission)

### Future

- 30 years Focus on data connectivity across missions & partners CNES – NASA - EUMETSAT
- New Datasets
- New Data distribution interfaces, including clouds
- User trainings

•



# Continuity!

• main message:

# 30 years of continuous, intercalibrated, high-resolution, altimetry time series

OSTST Virtual 21-22 March 2022



Benefits of having a 30 year conversation about altimetry • 30 years = a climatologically-relevant period.

- Public awareness of the data we have and of their quality, reliability
- societal impacts
- Maturity of the technique, science team & international collaboration
- An opportunity to engage public
- Future! (S6-B & follow-ons for continuity, Swot ...)

30-year time series topics

- Possible topics:
  - the most obvious: Mean Sea Level
  - Ocean heat content,
  - circulation,
  - ocean-atmosphere coupled oscillations (including ENSO),
  - iced areas variations,
  - Hydrology / Surface waters (lakes, reservoirs, large rivers variations)
  - Interannual variations (e.g., yearly mean maps or trends), seasonal variations, variations with respect to climatologies...
  - Impacts, including societal ones (coastal, water resources...)

### Global mean sea level



Latest MSL Measurement 14 December. 2021

+3.52 mm/yr

(Seasonal signal removed)

## E.g. ENSO



- Value of the historical record
- Show the year-to-year variability outside of sea level rise

#### OSTST Virtual 21-22 March 2022

#### El Niño: years in altimetry's life



Partners in Communicating Mission Value to the Public

#### OSTST

- Science Team member public engagement activities reporting
- Support of talks/activities (slides, graphics, etc.)

#### CNES / Aviso:

- General public infographics: <u>https://corporate.cnes.fr/qqf-quand-la-terre-prend-leau/</u> (planned to be translated in English)
- Updates of all movies (including the one on MSL)
- Indicators (MSL, ENSO, Kuroshio, Adriatic)
- Web site resources / updates

#### NASA/JPL, PO.DAAC

• Web site resources / updates

#### ESA:

- Climate Change Initiative sea level, lake level... several of the projects within the program are altimetryrelated, all are climate-related.
- · Movies / animations available

#### NOAA

#### EUMETSAT:

• Trainings, including short S6 course (mid-June) & 30 years of altimetry training (envisioned end 2022/beginning 2023)

Copernicus Program (Marine & Land)

OSTST Virtual 21-22 March 2022



# Contact us!