

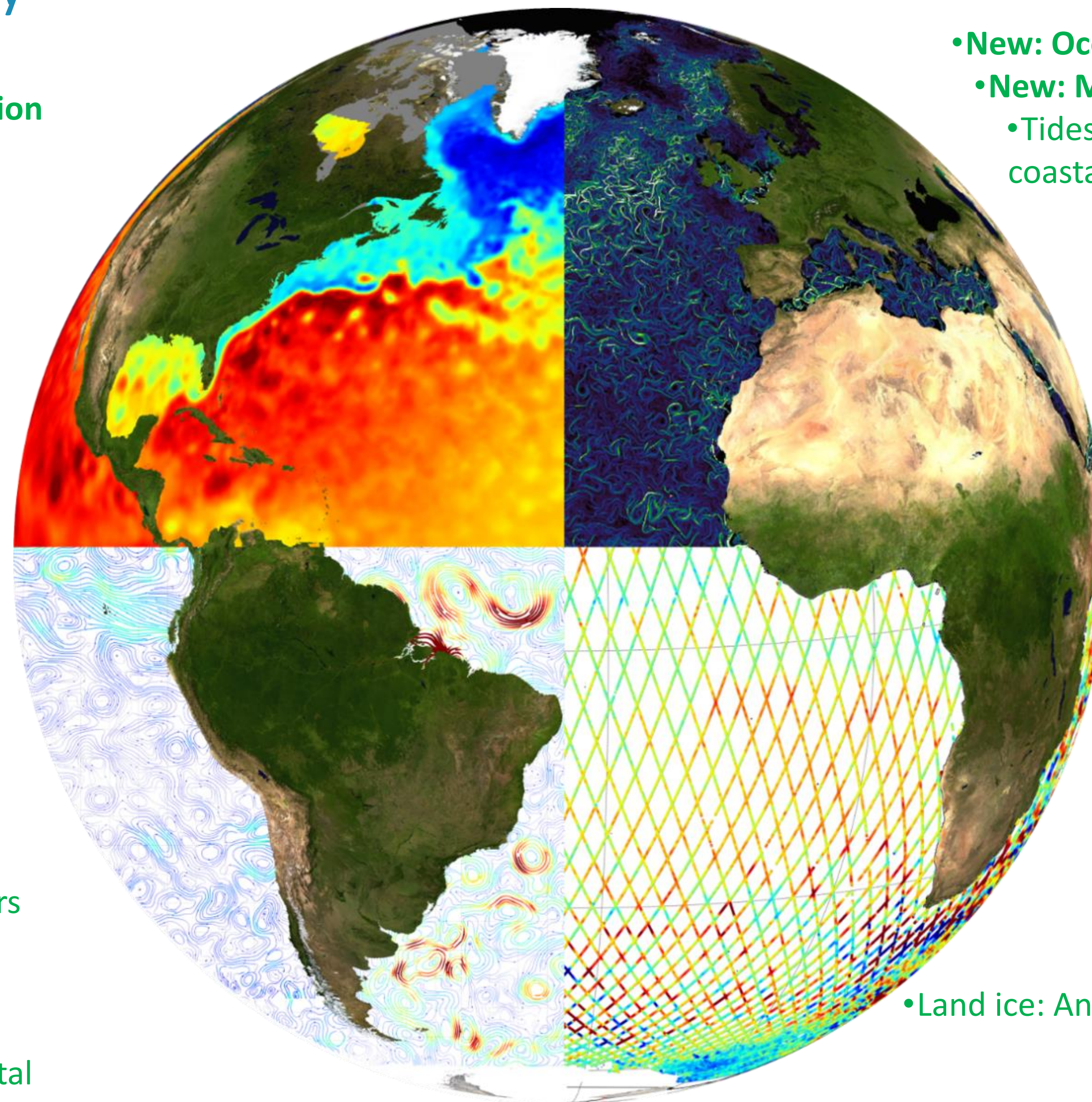
Aviso+ products & services: what's new?

The products

Ocean surface topography

- Indicators
 - Mean Sea Level
 - ENSO index & maps
 - Kuroshio index
 - Ionian Sea index
- Mean Sea Surface
 - MSS CNES-CLS 2015
 - hybrid SIO/CNES_CLS2015/DT15
- Mean Dynamic Topography
 - MDT CNES-CLS18
 - MDT-HYBRID-CNES-CLS18-CMEMS2020
- GDR altimetry product along-track
- Monomission Corrected SLA (L2P)
- New: Sentinel-6 MF
- Coastal products
 - X-TRACK SLA 23 zones New version L2P
- Ssalto/Duacs Climatology Maps of SLA
- Ssalto/Duacs experimental gridded Sea Level Heights and velocities
 - Regional: Arctic, Antarctic
 - Global: DYMOST, MIOST, Altimetry + drifters
 - MIOST Altimetry + drifters,
- Ssalto/Duacs experimental along-track Sea Level Anomalies
 - Regional: North Atlantic (5Hz), Arctic, coastal
 - Global: Sentinel-3A LR-RMC mode
 - New: SWOT SSH simulated products

New: DUACS version DT2021



Ocean: other variables

- New: Ocean heat content and earth energy imbalance
- New: Maps of Sargassum detection over the Atlantic
 - Tides: global model (FES), internal tides (MIOST-IT), coastal tides (X-TRACK), calibration tide gauge series
 - Mesoscale Eddy Trajectory Atlas
 - Ocean surface currents
 - Filaments (FSLE)

Ocean: wind & waves

- Maps of Wind speed modulus
- Maps of Significant Wave Heights
- Along-track Wave NRT for Sentinel-3A, Sentinel-3B and Sentinel-6 MF (new)
- New: experimental wave products L3 5Hz
- New: CFOSAT wave products

Atmosphere

- Dynamic Atmospheric Corrections
- GDP+ wet tropospheric correction

Cryosphere

- Sea Ice (grid)
- Land ice: Antarctica and Greenland ice sheets (along-track)

Hydrology

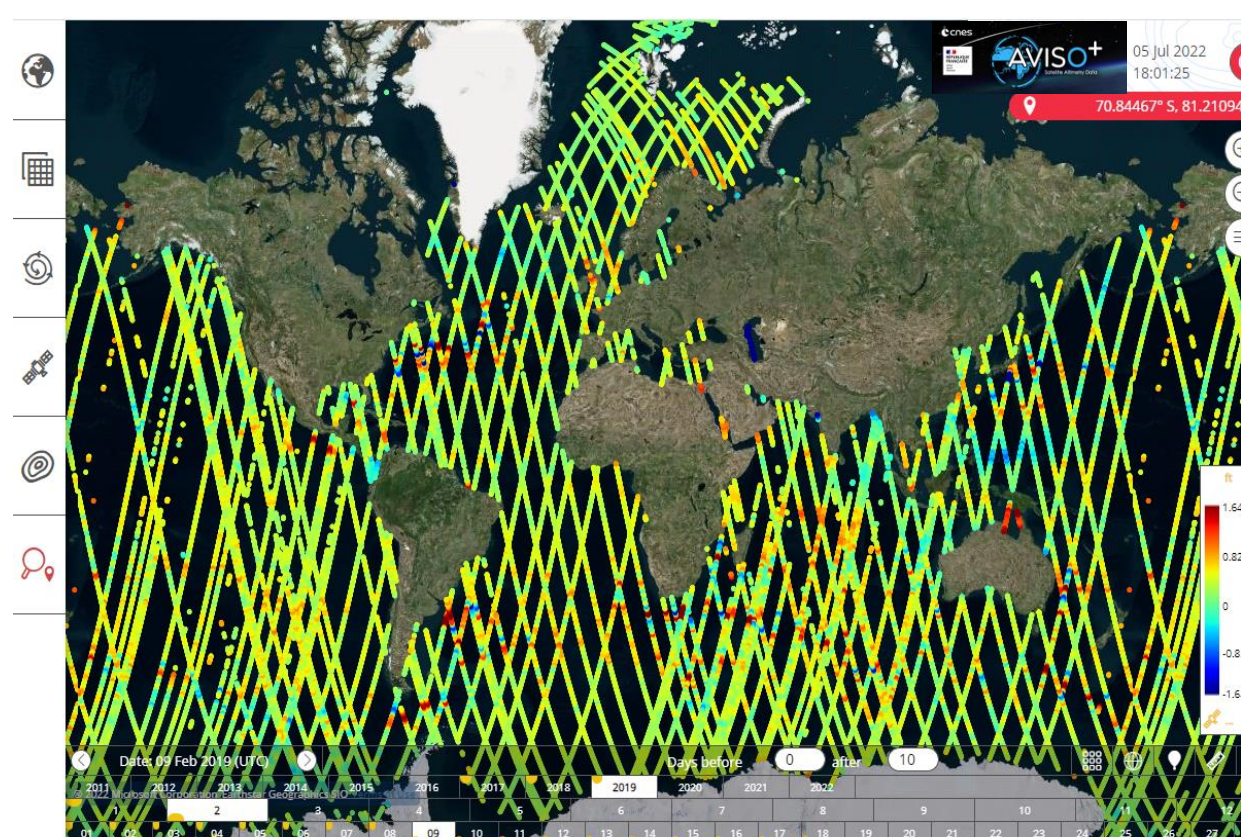
- Experimental products along track (L2) for inland water heights

Upcoming products

- New barotropic ocean tide model FES2022 (Carrere et. al, OSTST 2022)
- New Mean Sea Surface CNES CLS 2022 (Schaeffer et al., OSTST 2022)
- Local heat content change over the Atlantic Ocean, 4DAtlantic-OHC Project (Ablain et al., OSTST 2022)
- New version of the Mesoscale Eddy Trajectory Atlas META 4.0exp DT (Pegliasco et al., OSTST 2022)
- Sentinel-1 SAR images of sea state
- SWOT oceanic products (2023)

Diffusion & Visualization

- Since 2021, all AVISO products have been accessible on our Thredds Data Server (TDS Aviso+): <https://tds.aviso.altimetry.fr/> with the protocols: Opendap for L2, L3, L4 / FileServer for L2, L3 / WMS for L4 / NetcdfSubset for L4

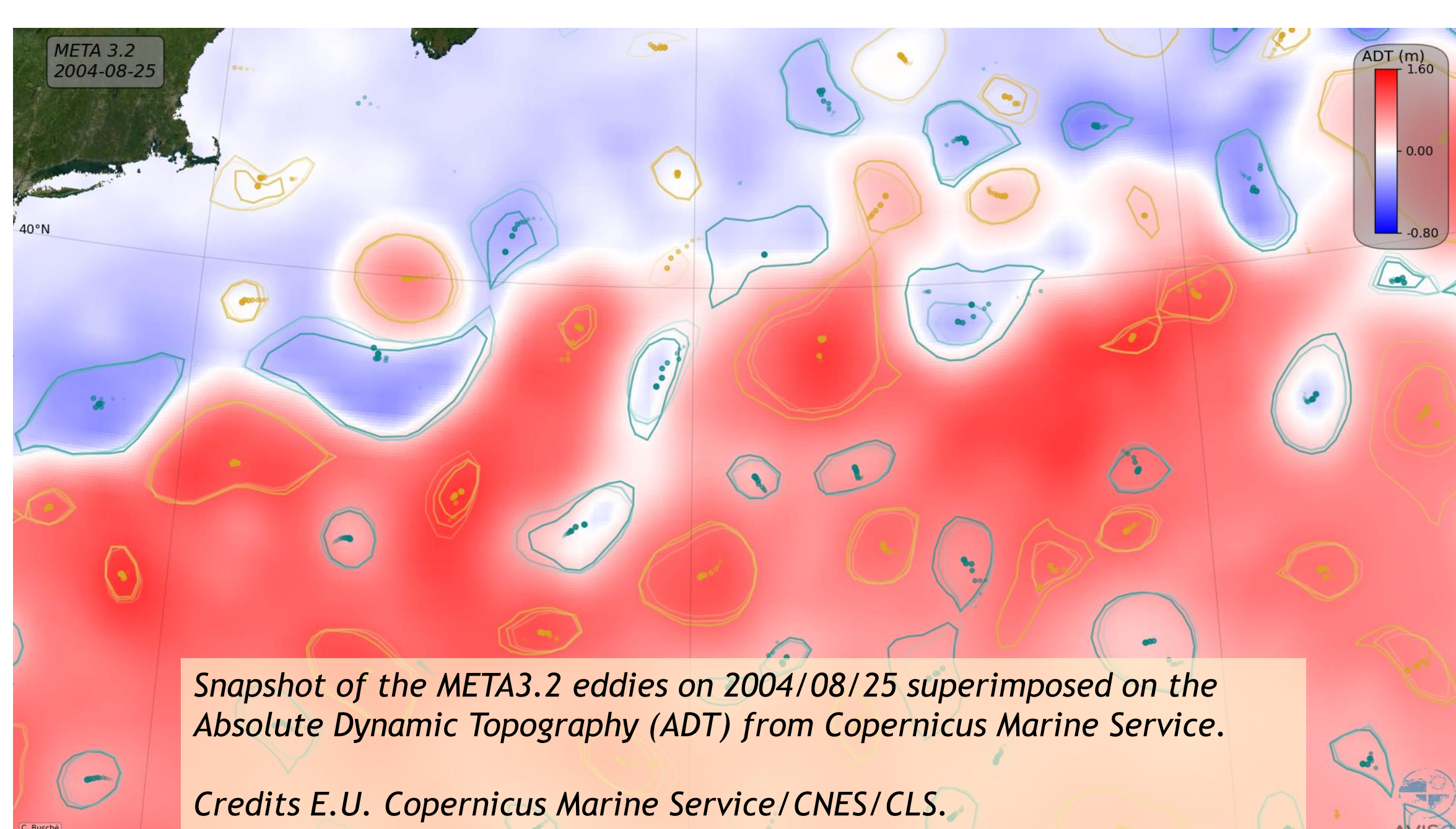


- A new visualizer is under development and will be proposed in 2023 to visualize ocean products from the SWOT mission and products from the Aviso+ catalogue. Many features will be offered for displaying and downloading. Stay tuned!

Mesoscale eddy trajectory atlas (META)

Several versions of the Mesoscale Eddy Trajectory Atlas are available to users:

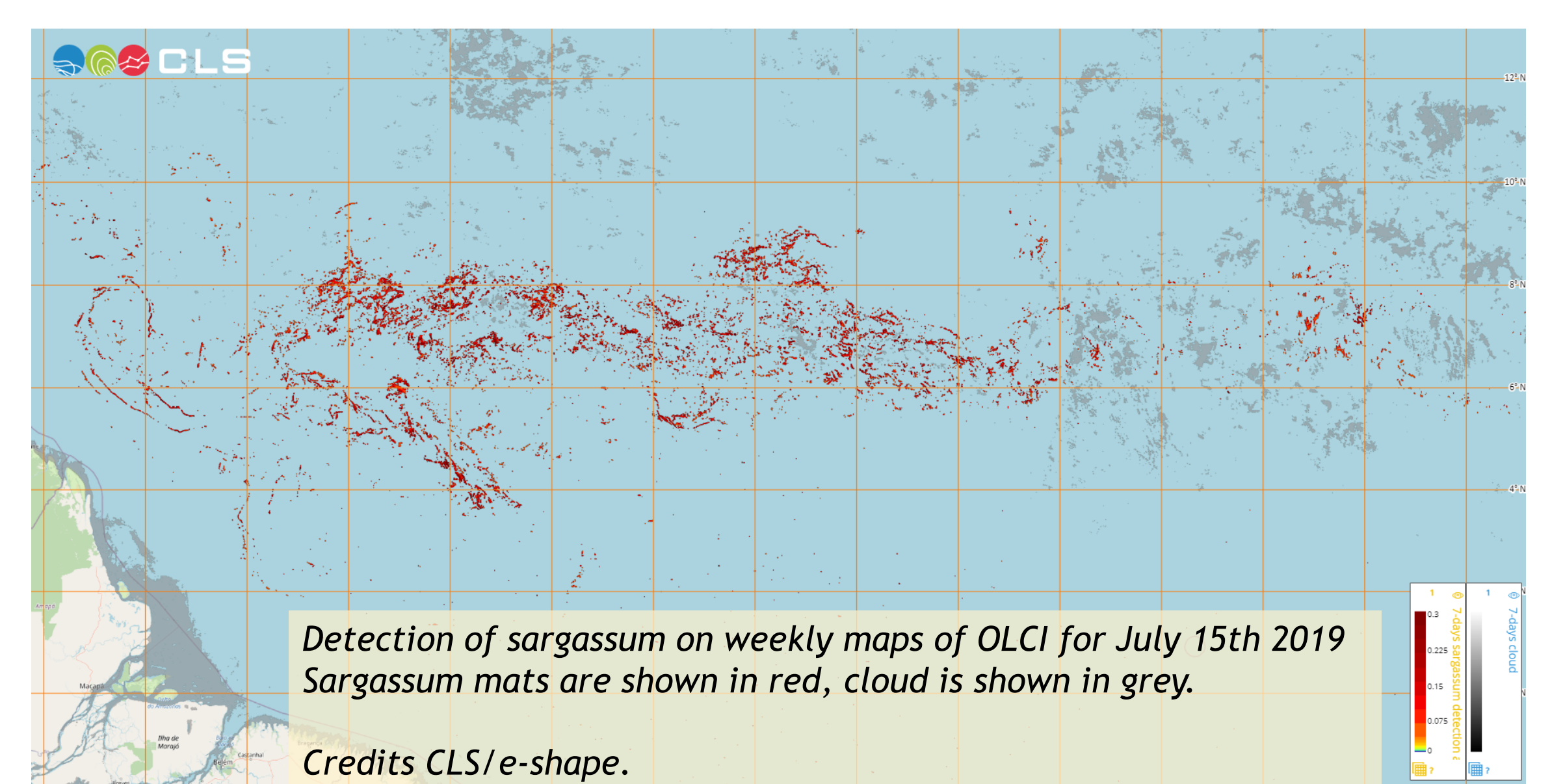
- Global META in Delayed and Near-Real Time
 - META 3.2 DT all satellites DOI [10.24400/527896/a01-2022.005](https://doi.org/10.24400/527896/a01-2022.005)
 - META 3.2 DT two satellites DOI [10.24400/527896/a01-2022.006](https://doi.org/10.24400/527896/a01-2022.006)
 - META 3.2exp NRT all satellites
- Atlas of 3D Eddies in the Mediterranean Sea from 2000 to 2019 (DYNED Atlas) DOI: [10.24400/527896/a01-2022.014](https://doi.org/10.24400/527896/a01-2022.014)



Sargassum detection

Two products of floating sargassum algae detection are available to users:

- sargassum detection index (NFAI) computed from daily images of OLCI Sentinel-3A & 3B at 300m resolution and averaged at 1-km and 7 days on weekly maps for the year 2019 DOI [10.24400/527896/a01-2022.007](https://doi.org/10.24400/527896/a01-2022.007)
- maps of sargassum detection index (FAI anomaly): instantaneous maps of ABI-GOES16 every 10 minutes and daily mean maps at 1-km resolution, from 01 Mar 2022 - ongoing DOI: [10.24400/527896/a01-2022.008](https://doi.org/10.24400/527896/a01-2022.008)



Contact: aviso@altimetry.fr
Web: www.aviso.altimetry.fr

