The dissemination of the SSALTO/DUACS Sea Level Anomalies, Absolute Dynamic Topographies Height and geostrophic velocities and Gridded Wave products is divided between the Copernicus Marine Environment Monitoring Service (CMEMS), the Copernicus Climate Change Service (C3S) and AVISO+.

You will find hereafter the list of products with their dissemination and the useful links to the different services:

0/ CMEMS, C3S and AVISO+ **useful links**

1/ **Experimental Along-track and Gridded Sea Level Anomalies and Absolute Dynamic Topography heights and currents** in Delayed-time

2/ **Along-track Sea Level Anomalies and Absolute Dynamic Topography** in Near-Real-Time and in Delayed-time

3/ **Gridded Sea Level Anomalies and Absolute Dynamic Topography heights and currents** in Near-Real-Time

4/ **Gridded Sea Level Anomalies and Absolute Dynamic Topography heights and currents** in Delayed-time **allsat** series

5/ **Gridded Sea Level Anomalies and Absolute Dynamic Topography heights and currents** in Delayed-time **twosat** series

6/ **Along-track Sea Level Anomalies and Gridded Sea Level Anomalies for** Mozambique products in Near-real-time

7/ **Gridded Sea Level Anomalies Averages and Climatologies** in Delayed-time

8/ **Along-track and Gridded Wave** Products in Near-real-time

9/ **Along-track and Gridded Wind** Products in Near-real-time

0/ CMEMS, C3S and AVISO+ useful links

CMEMS links

All the CMEMS links are listed hereafter:

- Online catalogue of all the CMEMS products
- Registration to get access to CMEMS products
- CMEMS Service commitments and Licence
- For questions regarding those products, please connect on: https://marine.copernicus.eu/contact

C3S Links

All the C3S links are listed hereafter:

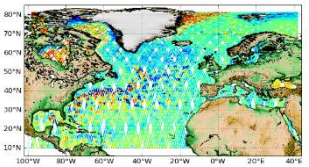
- Online catalogue of all the C3S products
- Registration to get access to C3S products
- C3S Service License Agreement and Privacy Statement
- For questions regarding those products, please connect on: https://confluence.ecmwf.int//display/CKB/

Aviso+ Links

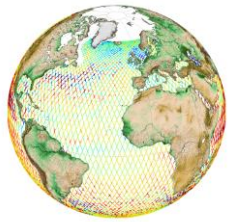
All the AVISO+ links are listed hereafter:

- Online Catalogue of all the AVISO+ products
- Registration to get access to AVISO+ products
- AVISO+ License Agreement
- For questions regarding those products, please contact aviso@altimetry.fr

1/ **Experimental Along-track and Gridded Sea Level Anomalies and Absolute Dynamic Topography heights and currents** in Delayed-time. Several products of Sea level heights and currents are disseminated. They are computed with experimental techniques:



AVISO+ product name	AVISO+ dissemination	CMEMS dissemination
Experimental Along-track **SLA-H** DT **5Hz North Atlantic** and **Agulhas current**	See product page	SEALEVEL_**ATL**_PHY_HR_L3_MY_008* on http://marine.copernicus.eu/services-portfolio/access-to-products/
Experimental Gridded **SLA-H** DT with **Dynamic** Interpolation **Gulf Stream** and **Udinstev**		No
Experimental Gridded **SLA-UV** DT with **Dynamic** Interpolation **Gulf Stream** and **Udinstev**		
Experimental Gridded **ADT-H** DT with **Dynamic** Interpolation **Gulf Stream** and **Udinstev**		
Experimental Gridded **ADT-UV** DT with **Dynamic** Interpolation **Gulf Stream** and **Udinstev**		
Experimental Gridded **SLA-H** DT with **Multiscale** Interpolation **Global**		
Experimental Gridded **SLA-UV** DT with **Multiscale** Interpolation **Global**		
Experimental Gridded **ADT-H** DT with **Multiscale** Interpolation **Global**		
Experimental Gridded **ADT-UV** DT with **Multiscale** Interpolation **Global**		
Experimental Gridded **SLA-H** DT combining altimetry and drifters **Gulf of Mexico**		
Experimental Gridded **SLA-UV** DT combining altimetry and drifters **Gulf of Mexico**		
Experimental Gridded **ADT-UV** DT combining altimetry and SST **Global**		



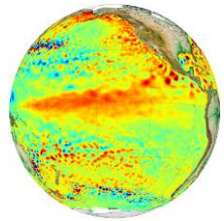
2/ **Along-track Sea Level Anomalies and Absolute Dynamic Topography** in Near-Real-Time and in Delayed-time (NRT-**SLA**-**H**, NRT-**ADT**-**H**, DT-**SLA**-**H** and DT-**ADT**-**H**) for regions Arctic, Black Sea, European Seas, Mediterranean Sea, Global coverage, with the CMEMS services FTP/DGF/WMS (no Subsetter).

- In Near Real-Time

AVISO+ product name	**AVISO+ dissemination**	**CMEMS dissemination**
Along-track **SLA**-**H** NRT **Global** area	*No*	SEALEVEL_**GLO**_PHY_L3_NRT_OBSERVATIONS_008_* on http://marine.copernicus.eu/services-portfolio/access-to-products/
Along-track **ADT**-**H** NRT **Global** area		
Along-track **SLA**-**H** NRT **Mediterranean**		SEALEVEL_**EUR**_PHY_L3_NRT_OBSERVATIONS_008_* on http://marine.copernicus.eu/services-portfolio/access-to-products/
Along-track **ADT**-**H** NRT **Mediterranean**		
Along-track **SLA**-**H** NRT **Black Sea**		
Along-track **SLA**-**H** NRT **Europe**		
Along-track **SLA**-**H** NRT **Arctic**		Replaced by the global product
Along-track **SLA**-**H** NRT **Mozambique**	*See product page*	*No*

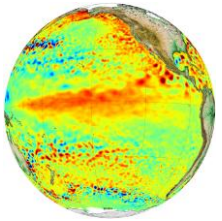
- In Delayed-Time (REP for REPROCESSING)

Along-track **SLA**-**H** DT **Global** area	*No*	SEALEVEL_**GLO**_PHY_L3_MY_008_* on http://marine.copernicus.eu/services-portfolio/access-to-products/
Along-track **ADT**-**H** DT **Global** area		
Along-track **SLA**-**H** DT **Mediterranean**		SEALEVEL_**EUR**_PHY_L3_MY_008_* on http://marine.copernicus.eu/services-portfolio/access-to-products/
Along-track **ADT**-**H** DT **Mediterranean**		
Along-track **SLA**-**H** DT **Black Sea**		



3/ **Gridded-Gridded Sea Level Anomalies and Absolute Dynamic Topography heights and currents** in Near-Real-Time (NRT-**MSLA-H**, NRT-**MSLA-UV**, NRT-**MADT-H**, NRT-**MADT-UV**) for regions Black Sea, Mediterranean Sea, Global with the CMEMS services FTP/DGF/Subsetter/WMS.

AVISO+ product name	**AVISO+ dissemination**	**CMEMS dissemination**
Gridded **SLA-H** NRT **Global** area	*No (only viewable with LAS, note that Mediterranean and Black Seas are viewable via the Europe product))*	SEALEVEL_**GLO**_PHY_L4_NRT_OBSERVATIONS_008_* on http://marine.copernicus.eu/services-portfolio/access-to-products/
Gridded **SLA-UV** NRT **Global** area		
Gridded **ADT-H** NRT **Global** area		
Gridded **ADT-UV** NRT **Global** area		
Gridded **SLA-H** NRT **Mediterranean**		SEALEVEL_**EUR**_PHY_L4_NRT_OBSERVATIONS_008_* on http://marine.copernicus.eu/services-portfolio/access-to-products/
Gridded **SLA-UV** NRT **Mediterranean**		
Gridded **ADT-H** NRT **Mediterranean**		
Gridded **ADT-UV** NRT **Mediterranean**		
Gridded **SLA-H** NRT **Black Sea**		
Gridded **SLA-UV** NRT **Black Sea**		
Gridded **SLA-H** NRT **Mozambique**	*See product page*	*No*
Gridded **SLA-UV** NRT **Mozambique**		
Gridded **SLA NOISE** NRT	*No*	SEALEVEL_GLO_NOISE_L4_NRT_OBSERVATIONS_008_* on http://marine.copernicus.eu/services-portfolio/access-to-products/



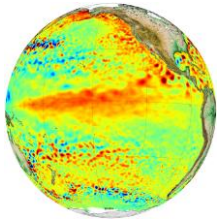
4/ **Gridded Sea Level Anomalies and Absolute Dynamic Topography heights and currents** in Delayed-time **allsat** series (DT-**MSLA**-**H**, DT-**MSLA**-**UV**, DT-**MADT**-**H**, DT-**MADT**-**UV**) for regions Black Sea, Mediterranean Sea, Global with the CMEMS services FTP/DGF/Subsetter/WMS.

The "**allsat**" series means that the Gridded maps have been computed with all the satellites available at a given time. Thus the series are of the best quality but not homogeneous over the time period.

AVISO+ product name	**AVISO+ dissemination**	**CMEMS dissemination (*)**
Gridded **SLA**-**H** DT **Global** area allsat	*No (only viewable with LAS)*	SEALEVEL_**GLO**_PHY_L4_MY_008_* on http://marine.copernicus.eu/services-portfolio/access-to-products/
Gridded **SLA**-**UV** DT **Global** area allsat		
Gridded **ADT**-**H** DT **Global** area allsat		
Gridded **ADT**-**UV** DT **Global** area allsat		
Gridded **SLA**-**H** DT **Mediterranean** allsat		SEALEVEL_**EUR**_PHY_L4_MY_008_* on http://marine.copernicus.eu/services-portfolio/access-to-products/
Gridded **SLA**-**UV** DT **Mediterranean** allsat		
Gridded **ADT**-**H** DT **Mediterranean** allsat		
Gridded **ADT**-**UV** DT **Mediterranean** allsat		
Gridded **SLA**-**H** DT **Black Sea** allsat		
Gridded **SLA**-**UV** DT **Black Sea** allsat		
Gridded **SLA NOISE** DT	*No*	SEALEVEL_GLO_NOISE_L4_REP_OBSERVATIONS_008__* on http://marine.copernicus.eu/services-portfolio/access-to-products/

(*) Some other products may be disseminated by CMEMS in addition to those identified here

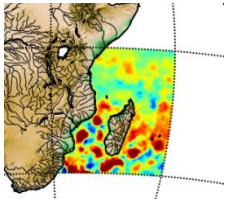
5/ **Gridded Sea Level Anomalies and Absolute Dynamic Topography heights and currents** in Delayed-time **twosat** series (DT-**MSLA-H**, DT-**MSLA-UV**, DT-**MADT-H**, DT-**MADT-UV**) for regions Black Sea, Mediterranean Sea, Global with the C3S service.



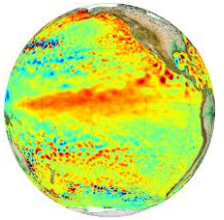
The "**twosat**" series means that the Gridded maps have been computed with two satellites at most. Thus the series are homogeneous over the time period thanks to a stable sampling.

AVISO+ product name	C3S dissemination	CMEMS dissemination
Gridded **SLA-H** DT **Global** area twosat	Sea level daily gridded data for the global ocean from 1993 to present	SEALEVEL_**GLO**_PHY_CLIMATE_L4_MY_008_* on http://marine.copernicus.eu/services-portfolio/access-to-products/
Gridded **SLA-UV** DT **Global** area twosat		
Gridded **ADT-H** DT **Global** area twosat		
Gridded **ADT-UV** DT **Global** area twosat		
Gridded **SLA-H** DT **Mediterranean** twosat	Sea level daily gridded data for the Mediterranean Sea from 1993 to present	Not yet
Gridded **SLA-UV** DT **Mediterranean** twosat		
Gridded **ADT-H** DT **Mediterranean** twosat		
Gridded **ADT-UV** DT **Mediterranean** twosat		
Gridded **SLA-H** DT **Black Sea** twosat	Sea level daily gridded data for the Black Sea from 1993 to present	
Gridded **SLA-UV** DT **Black Sea** twosat		

6/ **Along-track Sea Level Anomalies and Gridded Sea Level Anomalies for** Mozambique products



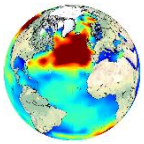
AVISO+ product name	**AVISO+ dissemination**
Along-track **SLA**-**H** NRT **Mozambique**	*See product page*
Gridded **SLA**-**H** NRT **Mozambique**	
Gridded **SLA**-**UV** NRT **Mozambique**	



7/ **Gridded Sea Level Anomalies Averages and Climatologies** in Delayed-time.

AVISO+ product name	**AVISO+ dissemination**
Gridded **SLA**-**H, SLA-UV, ADT-H, ADT-UV** Means and Climatologies **Global**	See product page
Gridded **EKE** Means and Climatologies **Global**	
Gridded **SLA**-**H, SLA-UV, ADT-H, ADT-UV** Means and Climatologies **Europe**	See product page
Gridded **EKE** Means and Climatologies **Europe**	

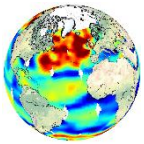
8/ **Along-track and Gridded Wave products** in near-real-time.
you will find below a description of the Wave products at different levels and their dissemination



Product name (was not necessarily distributed by AVISO+)	**AVISO+ dissemination**	**CMEMS dissemination**
Along-track Wave products (**altimetry, L2 SWH included in S/O/I/GDR**) Missions: T/P, J1, J2, J3, AL	*Yes see product page*	*No*
Along-track Wave CFOSAT products NRT (**SWIM, L1A, L1B, L2, L2P** (Nadir)) Mission: CFOSAT	*Yes see product page*	*No*
Along-track Wave products NRT (**altimetry, L2P**) Missions: Copernicus S3A & B	*Yes see product page*	*No*
Along-track Wave products NRT (**altimetry, L3**) Missions: J3, AL, C2, Copernicus S3A & B, CFOSAT	*No*	WAVE_GLO_WAV_L3_SWH_NRT_OBSERVATIONS_014_* on http://marine.copernicus.eu/services-portfolio/access-to-products/
Along-track Wave products NRT (**spectral, L3**) Missions: Copernicus S1A & B	*No*	WAVE_GLO_WAV_L3_SPC_NRT_OBSERVATIONS_014_* on http://marine.copernicus.eu/services-portfolio/access-to-products/
Gridded Wave products NRT (**altimetry, L4**) Multi-mission product	*Reprocessed data for period 2009-2019 see table below and product page*	WAVE_GLO_WAV_L4_SWH_NRT_OBSERVATIONS_014_* on http://marine.copernicus.eu/services-portfolio/access-to-products/ see below a description of the differences between the AVISO+ and the CMEMS products
Other Multi-Year altimetry and spectral products available on CMEMS	*No*	Please refer to **WAVE** products on http://marine.copernicus.eu/services-portfolio/access-to-products/

Differences between CMEMS and AVISO+ L4 Wave products	AVISO+	CMEMS
Input data	IGDR for available satellites (J1, EN, J2, J3, AL and S3A) Cross-calibration of wave histograms using Jason2 as a reference. 2-day averaging of wave measurements by 1°x1° boxes	CMEMS L3 NRT data for AL, J3, S3A, S3B, C2 (WAVE_GLO_WAV_L3_SWH_NRT_OBSERVATIONS_014_*) L3 benefit from a state-of-the-art editing. They are cross-calibrated using Jason-3 as a reference and calibrated on a buoy network. They also benefit from a denoising processing (see QUality Information Document).
Processing	• Smoothed and extrapolated by a Loess filter of 16° x 8° *(gaps due to missing data are filled, signal is strongly smoothed)*. • Extrapolation is limited to 8°x4°, in order to avoid artificially filling areas without data. • A reduced bathymetry mask is applied: each point more than 2° from the sea is forced to default value. • If more than 30% of the points have default values, no map will be generated. • Reprocessing with an extrapolation of the grid from 2013/09/14 • New CF-compliant format • *see Product page* • *see Reprocessing page*	Two types of wave gridded fields (details in the Product User Manual): •**VAVH_DAILY_MEAN**: provides raw daily statistics derived from satellite measurements ○ 1-day averaging of wave measurements by 2°x2° boxes. No interpolation or smoothing. Only measurements of the day (from 00UTC to 23:59 UTC) are used. If no measurements are available in a grid cell, the value is set to NaN. ○ A bathymetry and a dynamic ice masks are applied. Cells are masked when more than a third of the cell is land and ice concentration is higher than 50%. ○ Additional variables are computed from the available daily L3 measurements: VAVH_DAILY_STD, VAVH_DAILY_MAX and VAVH_DAILY_NBR, respectively the standard deviation, the maximum value and the number of available measurements. •**VAVH_INST**: provides an estimate of the instantaneous wave field each day at 12UTC with no empty cells ○ 1.5-day weighted average of wave measurements by 2°x2° boxes to give more weight to measurements close to 12UTC. ○ Interpolation to fill boxes without measurements. No smoothing. ○ A bathymetry and a dynamic ice masks are applied. Cells are masked when more than a third of the cell is land and ice concentration is higher than 50%. ○ Additional parameters are available on the same grid: VAVH_INST_NBR and VAVH_INST_SCORE.
Temporal coverage	2009/09–2019/12	2019/07 - ongoing

9/ **Along-track and Gridded Wind products** in near-real-time.



AVISO+ product name	AVISO+ dissemination	CMEMS dissemination
Along-track Wind products (**altimetry, L2 wind included in S/O/I/GDR**) Missions: T/P, J1, J2, J3, AL	*Yes see product page*	*No*
Along-track Wind CFOSAT products NRT (**SCAT, L1B, L2A, NRT**) Mission: CFOSAT	*Yes see product page*	*No*
Gridded Wind products NRT (**altimetry, L4**) Multi mission product	Reprocessed products with the following changes: • The time series begins on Sept 2013 • Addition of S3A mission (with cross-calibration of SWH) from mid 2016. • Reprocessing with an extrapolation of the grid • New CF-compliant format • *see Product page* • *see Reprocessing page* • *temporal coverage: 2013/09–2019/12*	*No*