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CMEMS In Situ TAC

In Situ TAC Team

&



NRT ship data exchange

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Copernicus → In Situ TAC Where we are?







In Situ TAC: Organization (2018)



IN SITU TAC ORGANIZATION Leader: Ifremer / France

<image/>	Management & Operations 7 Regions	Global: Ifre Arctic: IMI Baltic: SM NWS: BSF IBI: Pue MED: HCI Black Sea: IOE	emer / France R / Norway IHI / Sweeden H / Germany ertos del Estado / Spain MR / Greece BAS / Bulgaria
	Scientific Expertise Cross Cutting	Product Quali Multi Year: BGC assim.:	ty: Oceanscope-PdE-IMR SOCIB-OceanScope-PdE IMR
	System Evolution	HF Radar: Carbon Data: BGC assessme Monitoring:	AZTI-CNR-SOCIB UIB ent: IMR-HCMR-SYKE SOCIB-PdE-HCMR



In Situ TAC: general description

General characteristics:

- Fully operational service since April 2015
- **7 Components:** Global + 6 regions (Arctic, Baltic, NWS, IBI, MED and BlackSea)
- Same data format (NetCDF OceanSites 1.2)
- Same FTP structure
- Same RTQC & quality indexes
- NRT (near real time) and REP (reprocessed) products

Functions implemented:

- Acquisition from international networks and regional providers
- Quality control: agreed procedures following EuroGOOS DATA-MEQ WG
 recommendations in coherence with international agreements (SeaDataNet,...)
- **Product validation & assessment**: assess the consistency of the data



In Situ TAC Products in 2018 V4

For CMEMS V4 (April 2018) the following REP products will be provided

- **T&S REP** product at Global (CORA) and regional level
- **T&S REP** gridded product derived from CORA (GLO T&S REP product)
- **T&S UV REP** product from drifters
- Wave first version of REP product for Global Ocean and Regional European Seas
- **BGC** (Chl-a, O2) first version of REP product for Global Ocean

These products will cover 1990-2016 except the T&S GLO REP (CORA) that will cover 1950-2016 .



In Situ TAC: FTP structure (NRT)

Access with Copernicus user & passwd (free registration)

NRT product: data received in real time history directory: aggregated NRT data





Access with MyOcean – Copernicus user & passwd

REP product: validated and assessed data

history directory: validated and assessed data from providers or NRT product





In Situ TAC: Changes and plans for Phase 2



- One common Distribution Unit: DIAS (Data Information and Access Service) cloud system → Unique FTP access for all the CMEMS products
- **HF Radar integration** following INCREASE Service Evolution project coordinated by AZTI

Planned NRT for 2019 and REP 2020

• **Carbon data integration** in link with ICOS-Ocean operated by University of Bergen

Planned NRT & REP for 2019

• Prepare Ocean Monitoring Indicators (OMIs)

Planned for 2018, 2019 & 2020



New In Situ TAC web site: http://www.marineinsitu.eu/

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CMEMS IN SITU OCEAN TAC

tract 82-CMEMS TAC IF Unit March 31 2021

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100



CMEMS In Situ TAC

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CMEMS IN SITU **OCEAN TAC**

> opennicus 82-CMEMS TAC INS til March 31 2021

kpi1a : Delay of arrival during last week (%) Glider

100





kpi2a : Number of platforms in the DU within a day per type



kpi2b : Number of platforms in the DU within a day per parameter



kpi2c : Number of platforms in the DU within a day per PU





kpi3b : Data quality flag percentages per parameter during specified period in months

1.00

26 5.0

25

Hat 2017



INSTAC General presentation



Dashboard http://www.marineinsitu.eu/





INSTAC General presentation



Dashboard http://www.marineinsitu.eu/







Dashboard http://www.marineinsitu.eu/









In Situ TAC web site is not finished yet:

Missing acknowledgement of the providers!

- Managed by EDMO (SDN European Directory of Marine Organizations) codes
- Waiting for some regions to implement it
- The name of the provider, logo & URL will appear
 - → Very soon!!



- Adding value to the data: making data available via CMEMS INSTAC allows datasets to be combined to create data products and improve CMEMS products in your area of interest. Underlying data sources are always carried with the data.
- Satisfying funding requirements: Increasingly funding bodies and governments require that data obtained using public funds are made freely available. Submitting data and making it available via CMEMS INSTAC ensures data is publicly shared for re-use in particular with EMODnet and SeaDataNet.
- Enhancing Data Quality : Making a data set available to CMEMS INSTAC allows you to benefit to additional assessment especially during the elaboration of historical products where coherency with neighboring observations is performed and feedback on anomalies detected provided back to providers .



- Provide **bottle data** from the SMHI's monthly monitoring cruises
- Include more **sea level stations** (with a common reference level) due to a collaboration between SMA (Swedish Marine Agency) and SMHI.
- Include more **near real time ship data** to BOOS/CMEMS?

CMEMS IN SITU DCEAN TAC





Automatic QC

- Quality control flags: 0-9
- For every station: Monthly characteristic values per parameter and depth
- MIN, MAX, MEAN, STD

CMEMS IN SITU DCEAN TAC

- THRH threshold high value for the spike test
- RCNT repeated observations (time) for the flat line test
- TEPS tolerance value for the flat line test to allow for a numerical round-off error, EPS
- NOBS number of observations

Is a second work shop wanted?



THANKS FOR YOUR ATTENTION

INSTAC General presentation