

marine.copernicus.eu



CMEMS In Situ TAC

In Situ TAC Team



Copernicus ® In Situ TAC

Where we are?



<u>3</u> components - Space Insitu - Services

Atmosphere Monitoring

Climate Change

Marine Monitoring (CMEMS)

Land Monitoring Security

Emergency Management

7 MFCs (models) **GLO MFC ARC MFC BAL MFC NWS MFC IBI MFC MED MFC BS MFC**

> 8 TACs (Observati

ons) In Situ TAC

6 Space TACs: OCTAC, SLTAC, ...

1 Multi Ob.

CIS



CMEMS: Evolution in time

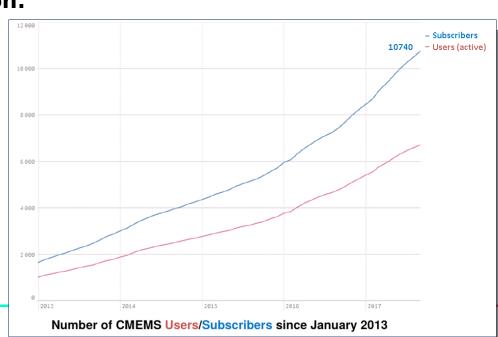
CMEMS: Copernicus Marine Environment Monitoring Service

GMES MyOce

CMEMS Phase 1 (Apr. 2015 - CMEMS Phase 2 (Jan. 2018 - http://magine.copernicus.eu Mar. 2021)

Jan. - Apr. 2018: overlapping period between the two Phases: transition.

Increasing number of users (MyOcean- CMEMS)





In Situ TAC: Organization (2018)

IN SITU TAC ORGANIZATION Leader: Ifremer / France



Management & Operations

7 Regions

Global: Ifremer / France
Arctic: IMR / Norway

Baltic: SMHI / Sweeden
NWS: BSH / Germany

IBI: Puertos del Estado / Spain

MED: HCMR / Greece Black Sea: IOBAS / Bulgaria

Scientific Expertise Cross Cutting

Product Quality: Oceanscope-PdE-IMR

Multi Year: SOCIB-OceanScope-PdE

BGC assim.: IMR

System Evolution

HF Radar: AZTI-CNR-SOCIB

Carbon Data: UIB

BGC assessment: IMR-HCMR-SYKE

Monitoring: SOCIB-PdE-HCMR



In Situ TAC: general description

<u>General characteristics:</u>

Fully operational service since April 2015

7 Components: Global + 6 regions (Arctic, Baltic, NWS, IBI, MED and Blacks

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

- T&S NRT (daily) and REP (yearly update): Global and Regional Provided since 2015
- UV (current) from Drifters REP (yearly update): Global Provided since 2016
- Wave NRT (daily) and REP (yearly update): Global Provided in NRT since 2017 and REP 2018
- BGC O2 and Chla: NRT (daily) and REP (yearly update):
 Global

Provided in NRT since 2017 and REP 2018



In Situ TAC: changes and plans for Phase 2

- 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)

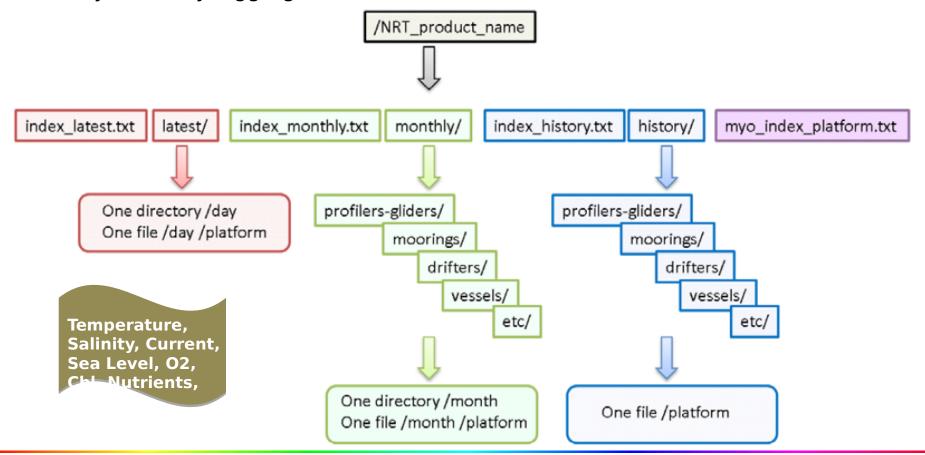
Planned for 2018, 2019 & 2020



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

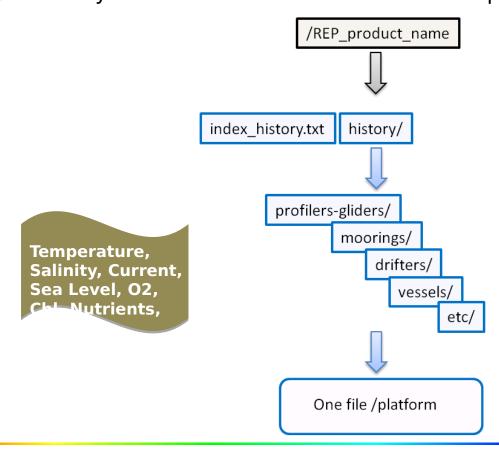




In Situ TAC: FTP structure (REP)

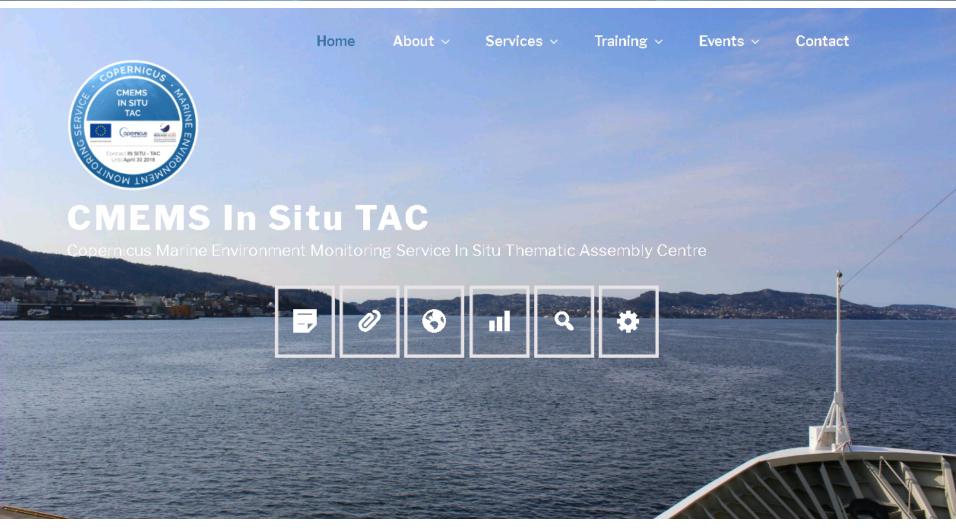
Access with MyOcean - Copernicus user & passwd

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



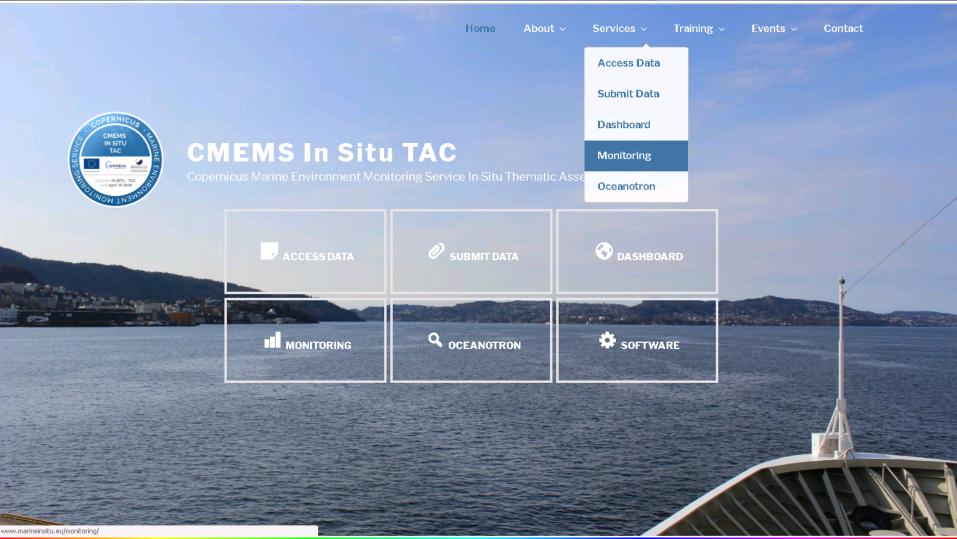


New In Situ TAC web site: http://www.marineinsitu.eu/



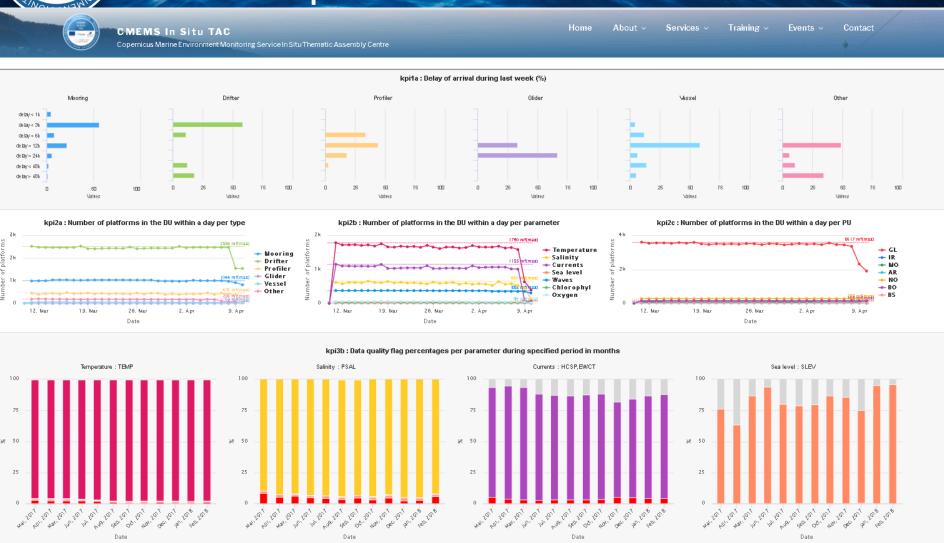


Monitoring http://www.marineinsitu.eu/

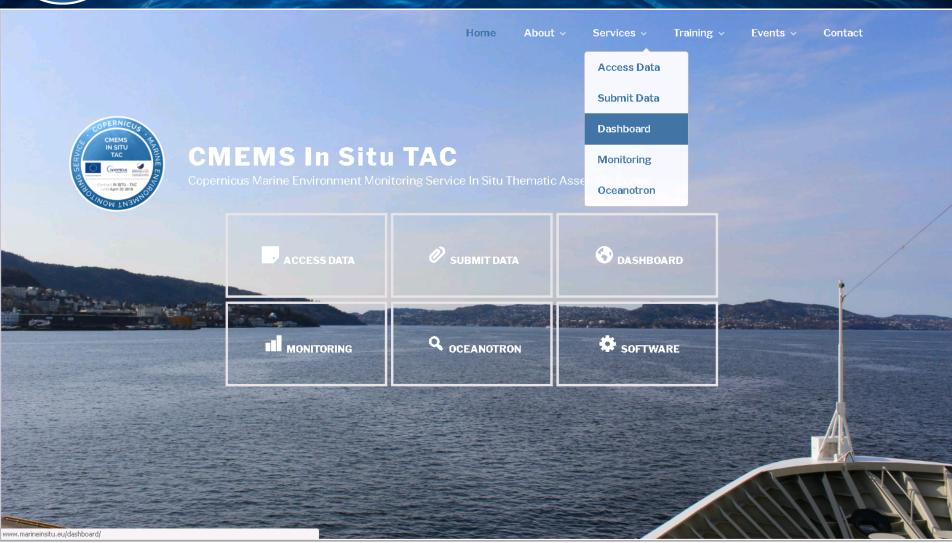




Monitoring http://www.marineinsitu.eu/











CMEMS In Situ TAC

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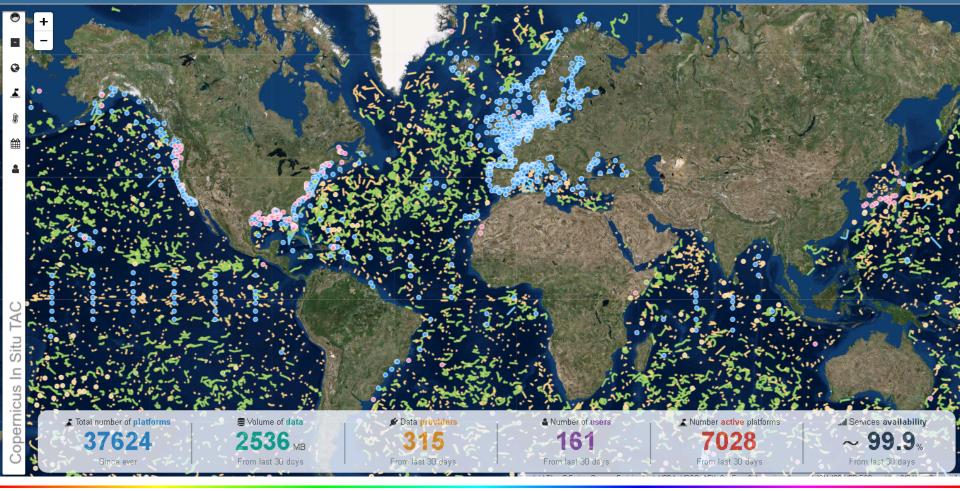
Services

Training

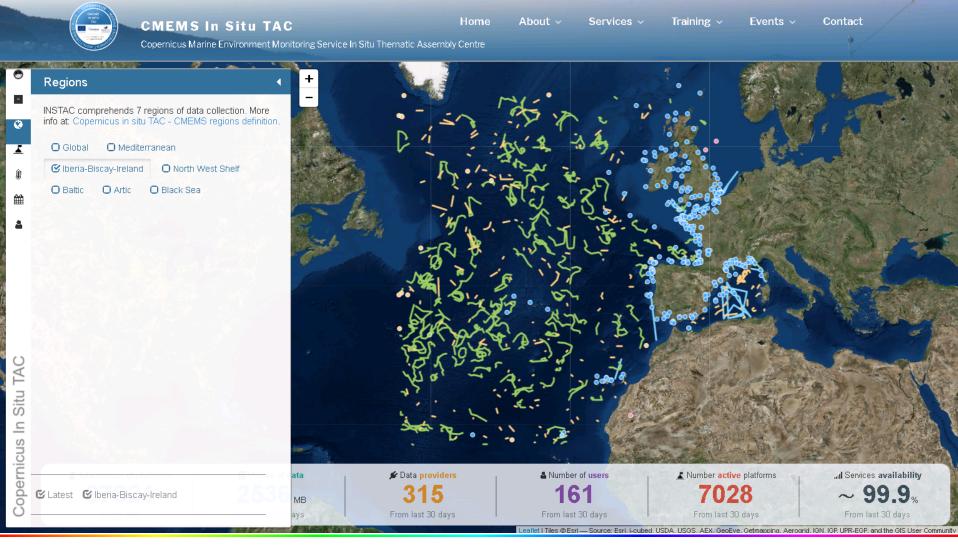
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Contact

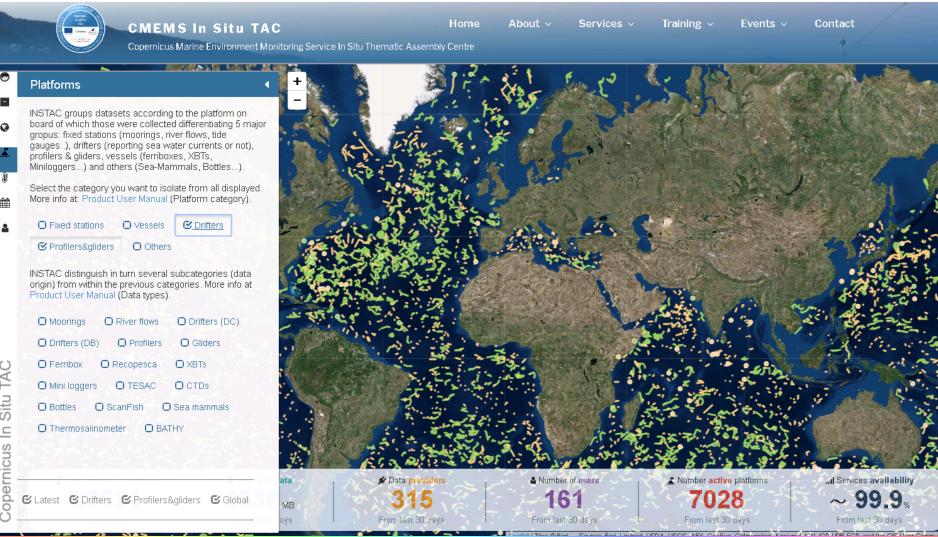




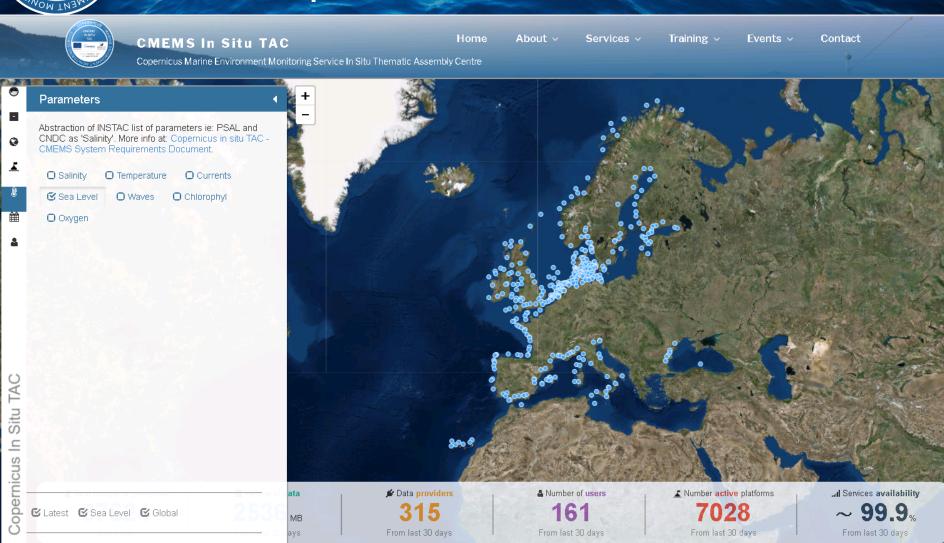




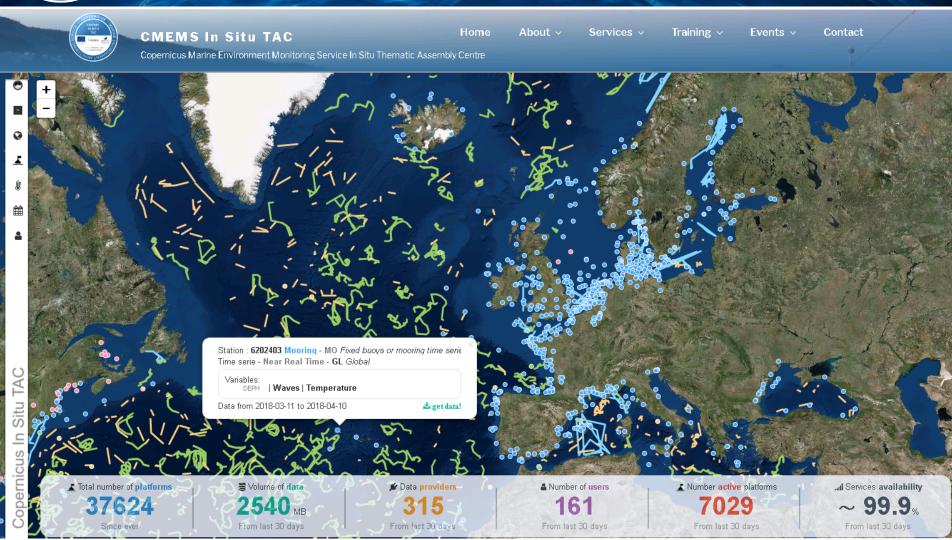














New web site: http://www.marineinsitu.eu/

In Situ TAC web site is not finished yet:

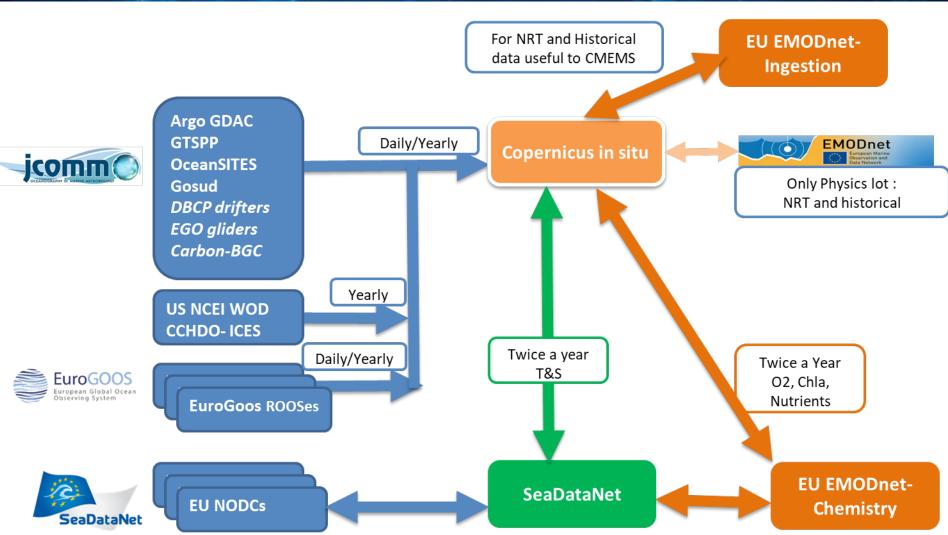
Missing providers acknowledgement!

- Managed by EDMO (SDN European Directory of Marine Organizations) code
- Waiting for some regions to implement it.
- It should appear the name of provider, logo & URL.
 - P Very soon!!

- Critical sustainability gaps, sampling gaps and major gaps for biogeochemical observation (e.g. carbon, oxygen, nutrients, Chl-a)
- Sustaining the Argo global array, consolidating its regional components and implementing its major extensions (Biogeochemical Argo and Deep Argo) are strong priorities for CMEMS
- Improving ROOSes and key observing systems such as Ferryboxes, gliders, tide gauges and HF Radars are also strong priorities for regional CMEMS products
- Mercator-Océn is working with the European Environment Agency in te framework of a Future European Ocean Observing System (EOOS) to address these gaps and consolidate/improve global and regional in situ observing systems
- A more detailed analysis of CMEMS requirements is now being prepared in collaboration with EuroGOOS. Input to EOOS and OceanObs19



CMEMS IN Su TAC integrated in the European and International in Situ data management landscape



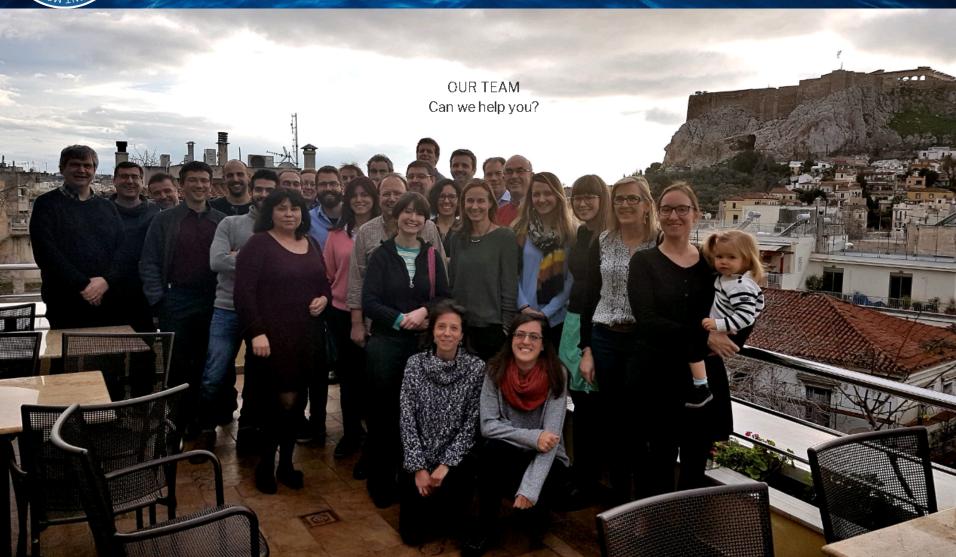


Why Share data with CMEMS INSTAC

- 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 be 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.



THANKS FOR YOUR ATTENTION!



INSTAC General presentation