



# EMODnet Physics

9th EMODnet TWG Meeting & 14<sup>th</sup> Steering Committee Joint Session

Spring 2021

19th April

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[www.emodnet-physics.eu](http://www.emodnet-physics.eu)

# EMODnet Physics 3.2

## Core Team:

- ETT, SMHI, MARIS, IFREMER, ICES

## partners

- JCOMMOPS → platform networks asset mapping, unique id, international collaboration (OceanGliders, Global HFR, AniBOS,..)
- UKRI BODC → Relative Sea Level products
- CNRS INSU SONEL → Absolute Sea Level products
- CMCC → Absolute Sea Level Maps
- IST MARETEC + CoLab Atlantic → operational river outflow + river proxy
- INGV → HD Climatology in ROI - North Adriatic Sea (Belgium Sea under evaluation)
- UNI LIEGE GHER → DIVA + Sea Currents fields dynamic rendering

## Others

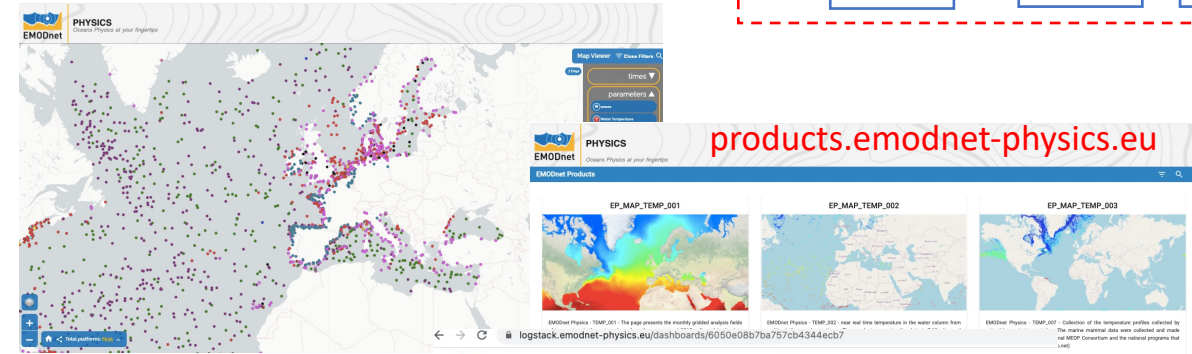
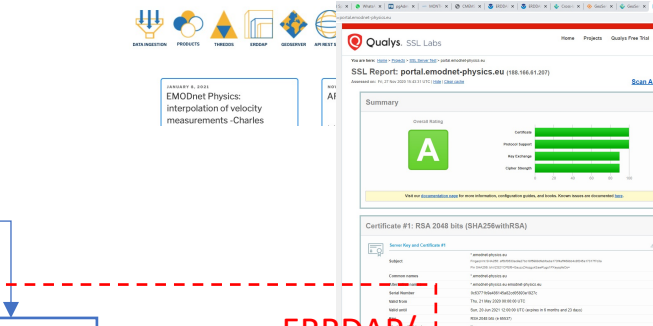
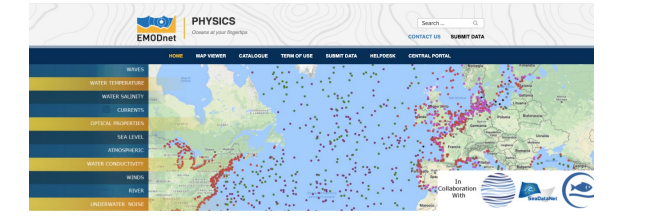
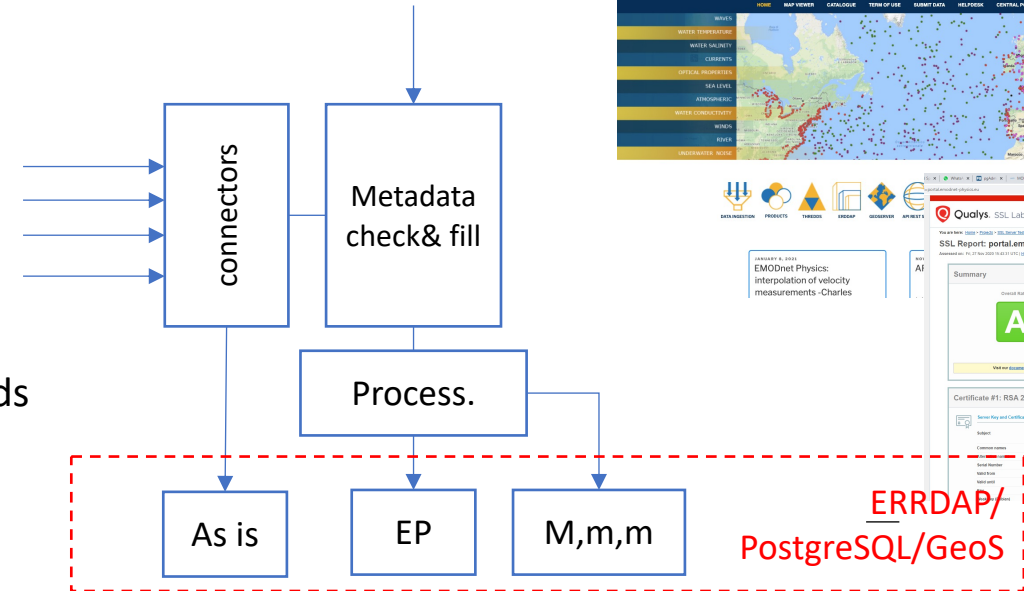
- CTN → under water noise – MED and Black Sea
- UPC → under water noise operational data flow
- BDC → Fishing vessel data mapping/flow
- Cyprus-subsea → OceanGliders

# Status update (on thematic Portal)

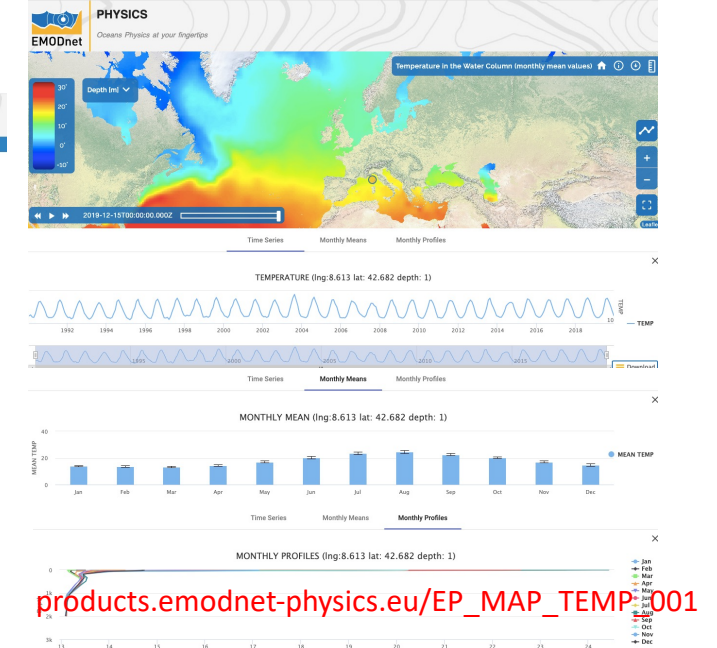
- Development of the new architecture completed
- New landing page – more reactive more secure
- Backend dataserer on different VMs/dockers
- On going work to re-organize datasets in ERDDAP
- On going work on the “connectors” to match providers and user needs
- New “products” endpoint: products.emodnet-physics.eu
- new/updated products:

- EP\_MAP\_RVFL\_001
- EP\_MAP\_RFVL\_001
- EP\_MAP\_SLEV\_006, 007
- EP\_MAP\_EINR\_001, ... 003
- EP\_MAP\_TEMP\_001
- EP\_MAP\_PSAI\_001

- Views tracking (Matomo)
- Elastics+GrayLog (WMS, WFS, Downloads)
- 24 HD requests (Nov 2020 – Mar 2021)
- Users: A 51%; B 20%; O15%; G 10%; no profit 4%)



map.emodnet-physics.eu



products.emodnet-physics.eu/EP\_MAP\_TEMP\_001

graylog

Search Streams Alerts Dashboards Enterprise System

2021-03-15 00:00:00 to 2021-04-08 00:00:00

Apply filter to all widgets

Volume of Download 2.6 Usage of data products -2.6

Numero richieste e volumi dati richiesto

HOSTNAME	SERVICE	count()	sum(DOWNLOAD_SIZE)
erddap.emodnet-physics.eu	WMS	58,933	307,182,691
	WFS	336	40,388,395
	WMTS	191	21,747,885
geoserver.emodnet-physics.eu	WMS	182,597	4,652,793,773
	wfs	24,438	37,051,835
	WFS	18,802	276,677,231
	WMTS	8,884	23,621,877
	wmts	537	642,822
itreddap.emodnet-physics.eu	WMS	21,913	3,000,919,406

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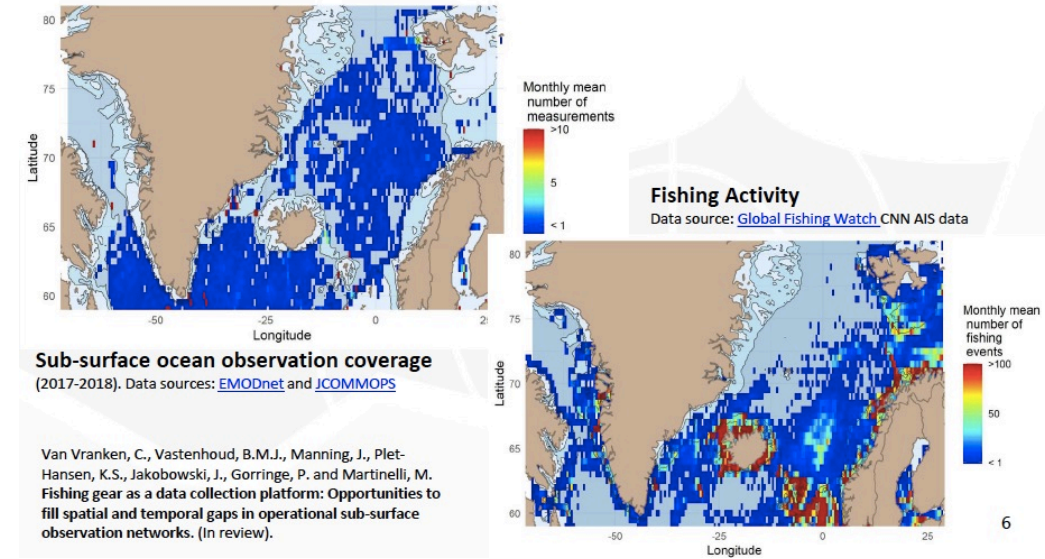
# Cross-Thematic Interactions

- Ingestion
  - Joint promotion and events,
  - Real Time SOS SWE Demonstrator
    - Eurofleet, in progress
    - Interoperability with DAB, in progress (discussed)
  - Other technologies
    - Sairdrone (FTP), Fishing Vessels (ERDDAP), Arctic Circular Exp (zenodo+github), EMSO (ERDDAP), JRC TAD (webAPI), IOC-SLC (webAPI), ...
- Chemistry
  - M2M of “chemistry” domain parameters (DOX, Chl, ..)
  - Planned joint activities on rivers data/river products and aquaculture
  - Discussion on joint session @ Jamboree 2021
- Seabed Habitats
  - Arctic Ice contour, TSM, river data (use and feedback)
  - Discussion on joint session @ Jamboree 2021
- Human Activities
  - Joint participation to some events (before COVID)
  - Use of HA datasets for noise gap analysis ([working on a test case in Italy](#))
- Biology - Joint support to end-users communities (SOOS) and data flow
- PACE - Support for asset mapping (WP3, WP5)



# EMODnet Physics – EMODnet Data Ingestion – CMEMS INSTAC

- Collaboration for ingesting new operational sources workflow:
  - Identification of the source
  - Analysis of the dataset, data transport format, data access protocol
  - Mapping of the minimum set of metadata (time, datum, insitute, platform type, parameters, units, )
  - Presentation on EMODnet Physics (=Data Ingestion phase 1)
  - further mapping vs INSTAC metadata and application of INSTAC QC/QF
  - Integration into INSTAC products
  - Presentation on EMODnet Physics (=Data Ingestion phase 2)



2019  
Fishing vessels sensors identified as potential new source

May 2020  
Fishing for Data Workshop

June 2020  
BDC data ingested/linked in EMODnet Physics  
INSTAC took over for phase 2

Oct 2020  
OCEANOPS to assign unique WMO to Fishy sensors

Jan 2021  
INSTAC completed phase 2 process and BDC data included in GLO\_013\_030

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# External interactions

## EU level:

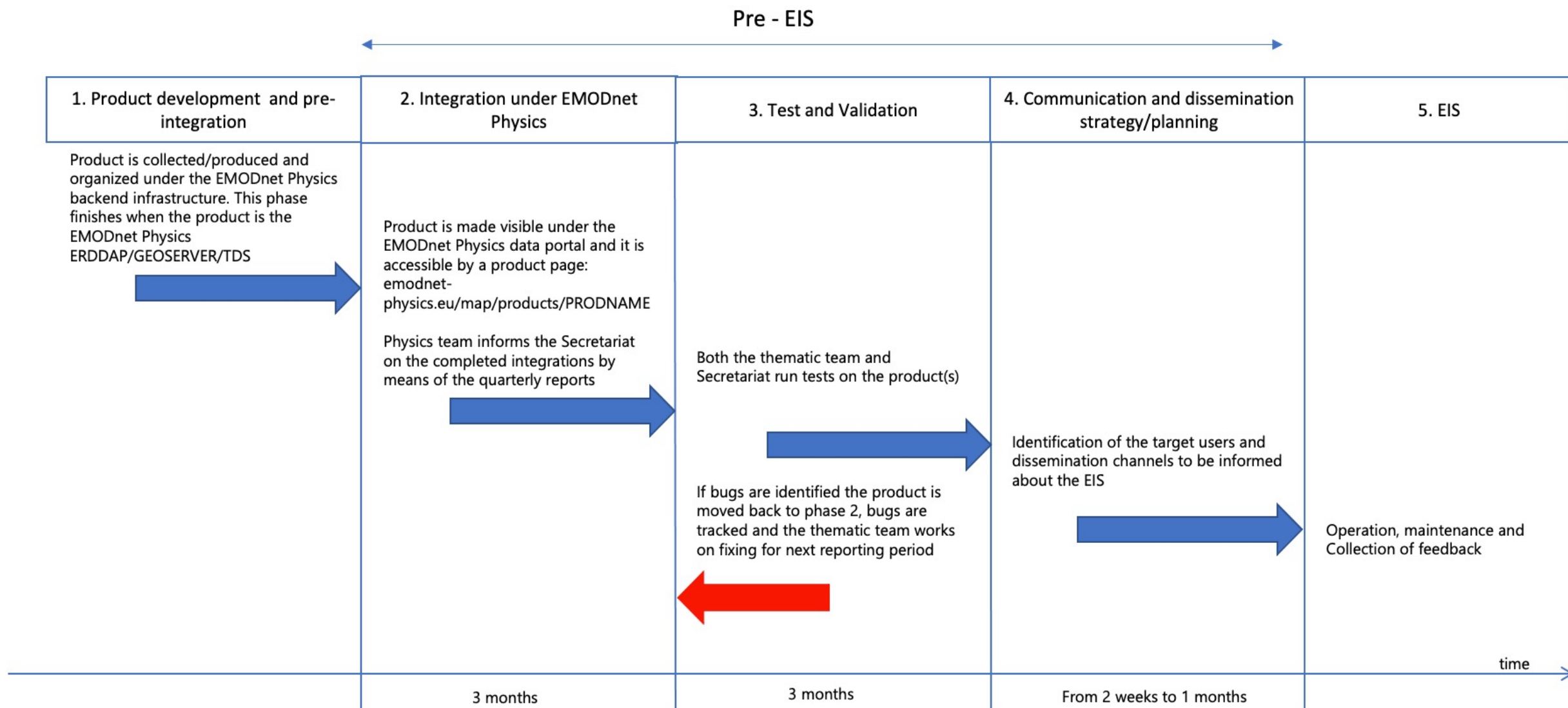
- TG NOISE (+ ICES member, and CTN permanent attender), AB QUITSEAS (CTN coordinator),
- CMEMS INSTAC, GRDC, Copernicus IN SITU component (Arctic), European Polar Board, T-MEDNet
- EuroGOOS: TWG, DATAMEQ WG, Task Teams (ferrybox, HFR, gliders, tide gauge), ROOSs
- H2020 Projects: SDC, EuroSEA, JERICO S3 and DS, SO-CHIC, NAUTILOS, BlueCloud, ENVRI.FAIR, ...

## Global level:

- SOOS, SAON, NOAA (ERDDAP), WMO WGs (WIS, WISC), IOC (Ocean Decade, GOOS, OceanOPS, IODE), AniBOS, OceanGliders, Educational Passages, ICES

**National:** mainly where core team are (COVID)

# EMODnet Physics Products Entry Into Service timing



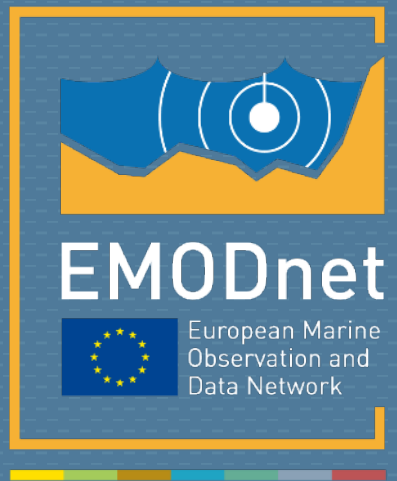
# Future Outlook

- New platform page (angular to improve reactiveness/performances of the pages)
- Keep extending datasets in time and space
- Keep updating/adding new products page (facilitate access to fit-for-use/community subsets)
- Products (by August 2021 - **TBP**)
  - New SDN Temperature and Salinity
  - HR Temp and Salinity climatology – North Adriatic
  - Platform network products (HFR, Glider, SeaMammals, TG)
  - **D11 Noise (monitoring sites)**
- Users and Community support
  - CMEMS INS TAC, SOOS, Arctic
  - H2020 projects (EuroSEA, JERICO S3, NAUTILOS, SOCHIC, ... )
- (online) Participation to events
  - IMDIS2021, EuroGOOS Conference, EMODnet JAMBOREE, ...
- Start the centralization process (summer time)



D11 Noise (monitoring sites - NWS)





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