# ***EMODnet -*** *European Marine Observation and Data Network* ***- Physics***

**Knowledge base for growth and innovation in ocean economy: assembly and dissemination of marine data for seabed mapping**
MARE/2012/10 - Lot 6 Physics [SI2.656795]

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## *EMODnet Physics*

***Specific focus on:***

- *Status of physical oceanographic data within and outside EMODnet (MyOcean, EMODnet, GOOS etc.) - JP & AN*
- *Progress single sign on & adoption of new technologies - AN & SC*

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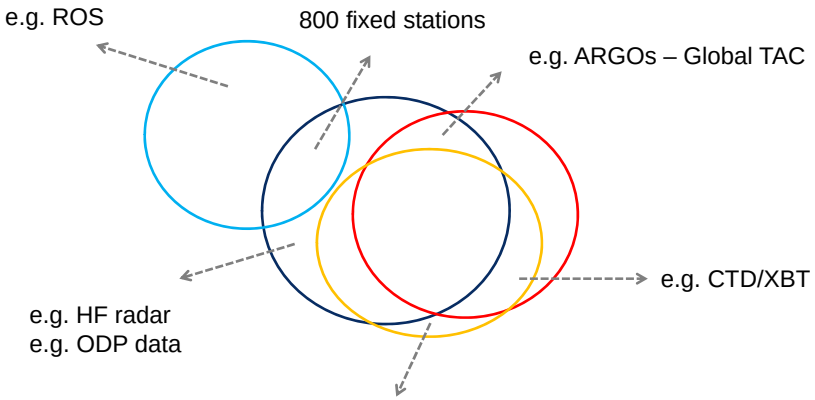
# EMODnet Physics




e.g. underwater noise
e.g. small university data
e.g. entities outside SDN
e.g. gliders

***EMODnet Physics***
***ROOSs***
***MyO***
***SDN & NODCs***

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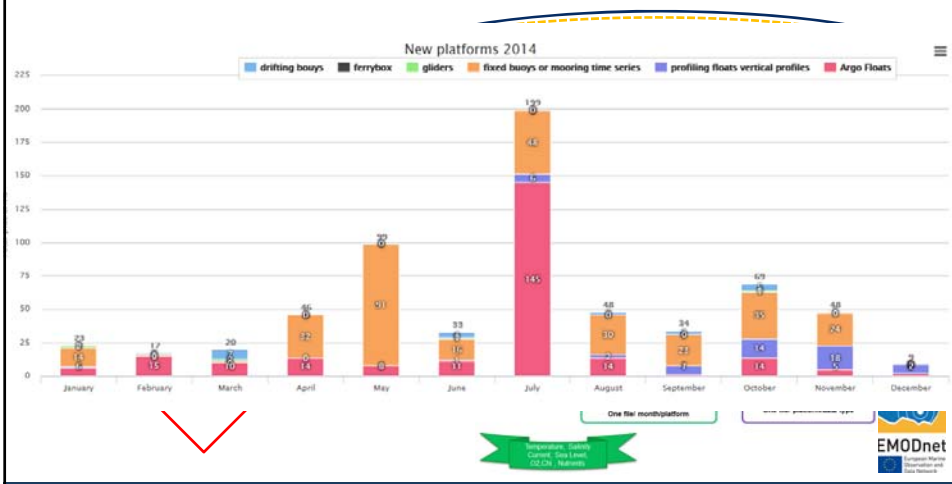
# EMODnet Physics

***Near real time/ long term time series data discovery view and access***

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# EMODnet Physics

***Data accessibility/visibility and coordination approach:***

- Hierarchical structure: EMODnet → ROOSs → National level

  (*Institute hosts and is responsible for its data*)
  - Already OK for operational data
  - To empower for historical validated data
    - NODCs → other National entities
    - ROOS → NODCs

    *(facilitate to close the nrt – validate data gap)*

- Actions:
  - Specific Workshops/ Joint Workshops/ B2B meetings, …
  - test-case/proof concept (*e.g. HFR for new data; Baltic for closing the "gap"*)
  - …




# EMODnet Physics

***User needs and approach:***

- Check and monitoring tools for «Internal use»
  - dashboard for ROOSs DAC
  - email services …

- Keep Updating interoperablity layers for supporting:
  - EMODnet Central and other EMODnets (e.g. Chemistry)
  - Facilitate new users (e.g. EMSA)

- New products and data packages
  - seasonal averages/min/max
  - new plots for specific parameters
  - single parameter data extraction and delivery


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# EMODnet Physics

***Interoperability services update:***

- Moving from mapserver to geoserver (complete OGC compliancy)

  **http://151.1.25.219:8080/gisclient/services/ows.php**
  **http://151.1.25.219:8181/geoserver/emodnet/ows**

***e.g. WFS parameter X platform type:***

*OLD:*

http://151.1.25.219:8080/gisclient/services/ows.php?PROJECT=ett&MAP=stazioni&SERVICE=WFS&VERSION=1.0.0&REQUEST=GetFeature&TypeName=parameters_mooring.water_temperature_MO

*NEW:*

http://151.1.25.219:8181/geoserver/emodnet/wfs?service=wfs&request=GetFeature&TypeName=platforms_water_temperature&filter=<PropertyIsEqualTo><PropertyName>platform_type_code</PropertyName><Literal>MO</Literal></PropertyIsEqualTo>



# SSO

- Long term discussion/interaction for a common “sign on”
  - both MyO and SDN are using CAS and are managed by IFREMER
  - most of ROOSs are ok for free and open access (they welcome info/feedback about who is using what)
  - Copernicus/MyO is applying a single level - on/off license
  - Copernicus/MyO is looking for "trustable" authentications
  - SDN had to develop a more complex license to be compliant with NODCs needs
  - About 90% SDN-NODCs data is free (no negotiation)
  - Both the networks are ok to open to OpenID/Shibboleth (e.g. SDN is applying - one time agreement with SDN licence policy)
- MarineID: under development, IFREMER is already testing the system
  - soon will be adopted by both MyO and SDN
  - Next year EMODnet Physics will test interoperability/integration
- Interim and complementary:  integration/use OpenID

# SSO

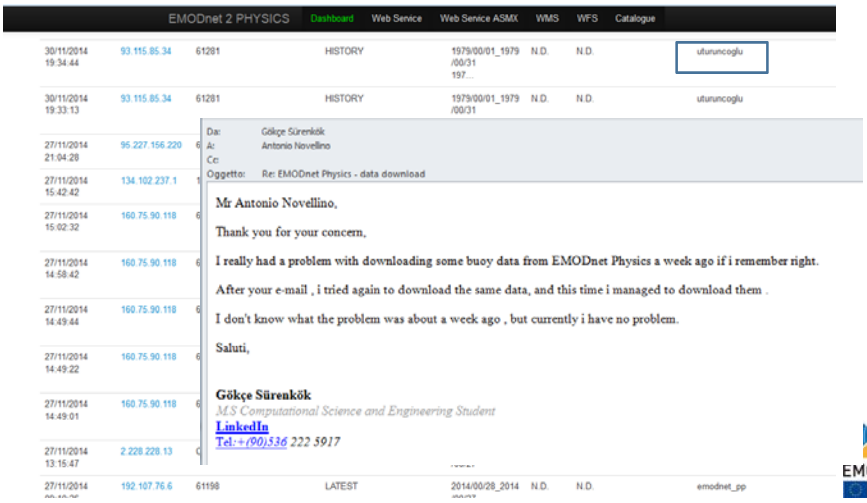
***General comments on SSO from SDN***

*"To achieve Single Sign On for EMODnet Physics to both the SeaDataNet CDI services and the MyOcean (COPERNICUS) services does not seem to be a difficult technical challenge. But the managers of the COPERNICUS marine service (MyOcean) must be motivated to discuss such a cooperation. SeaDataNet managers are already in favor. It would be the easiest if the EU contact responsible for COPERNICUS would encourage MyOcean managers to sit down with SeaDataNet managers as part of EMODnet Physics to discuss and solve the Single Sign On issue"*

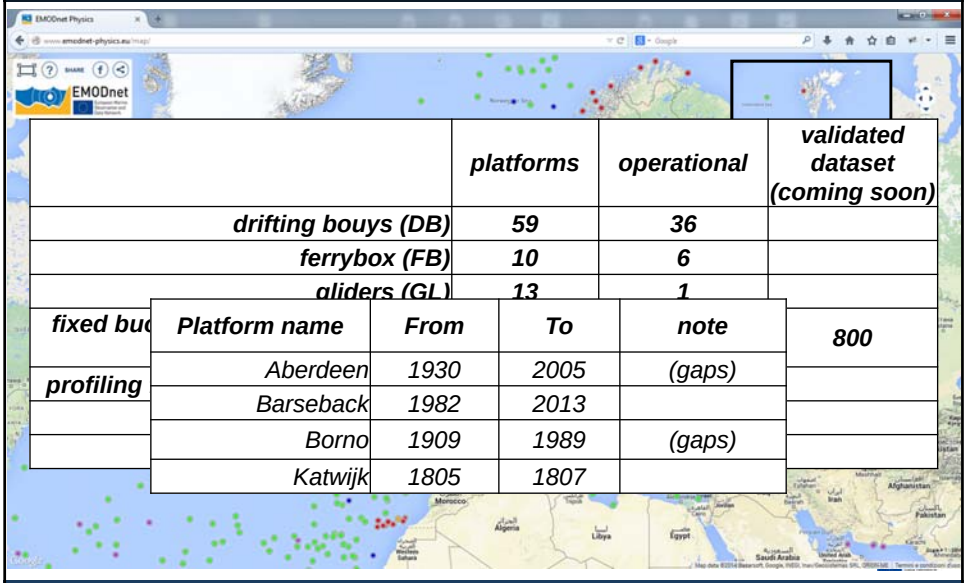


# OpenID

***EMODnet Physis tests on OpenID:***



# EMODnet Physics



| | platforms | operational | validated dataset (coming soon) |
|---|---|---|---|
| drifting bouys (DB) | 59 | 36 | |
| ferrybox (FB) | 10 | 6 | |
| gliders (GL) | 13 | 1 | |
| fixed buo | | | 800 |
| profiling | | | |
| | | | |
| | | | |

| Platform name | From | To | note |
|---|---|---|---|
| Aberdeen | 1930 | 2005 | (gaps) |
| Barseback | 1982 | 2013 | |
| Borno | 1909 | 1989 | (gaps) |
| Katwijk | 1805 | 1807 | |

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