



**Final Workshop**  
**Instituto Superior Técnico, Lisboa, Portugal**  
1<sup>st</sup> June 2023

## **iFADO platform and data viewer**

Francisco Campuzano (+ATLANTIC CoLAB)  
[francisco.campuzano@colabatlantic.com](mailto:francisco.campuzano@colabatlantic.com)



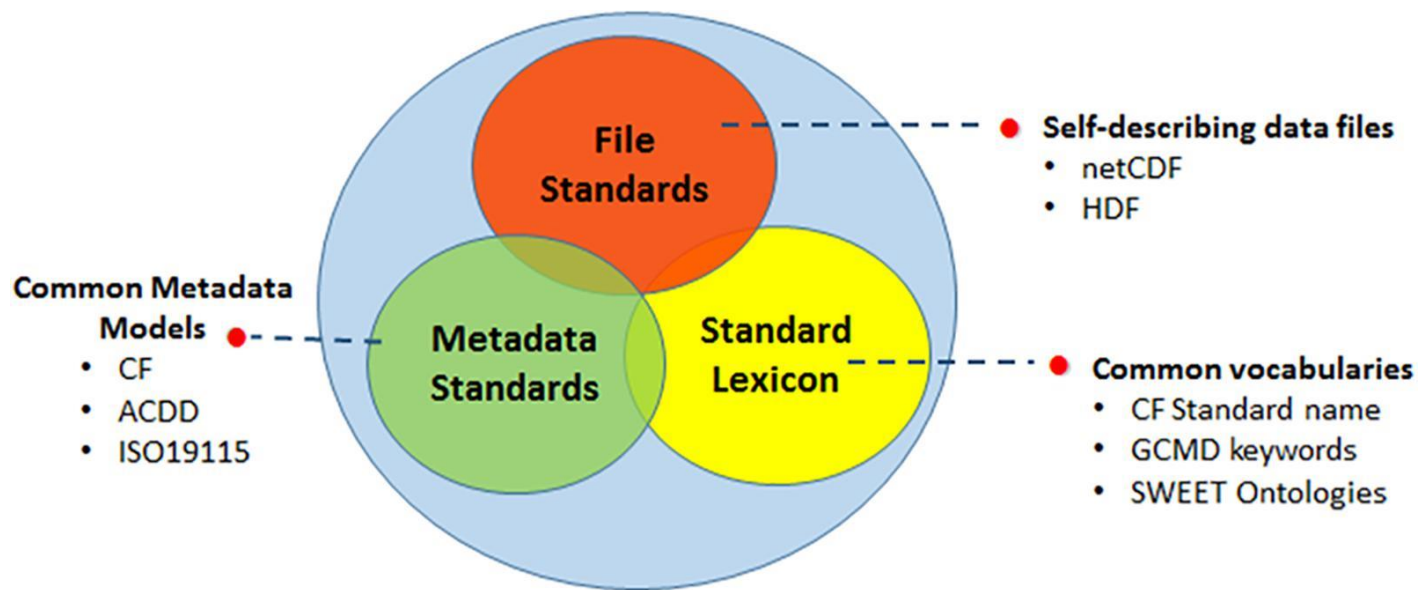
This project has received funding from the European Union's Interreg Atlantic Area programme under the grant EAPA\_165/2016



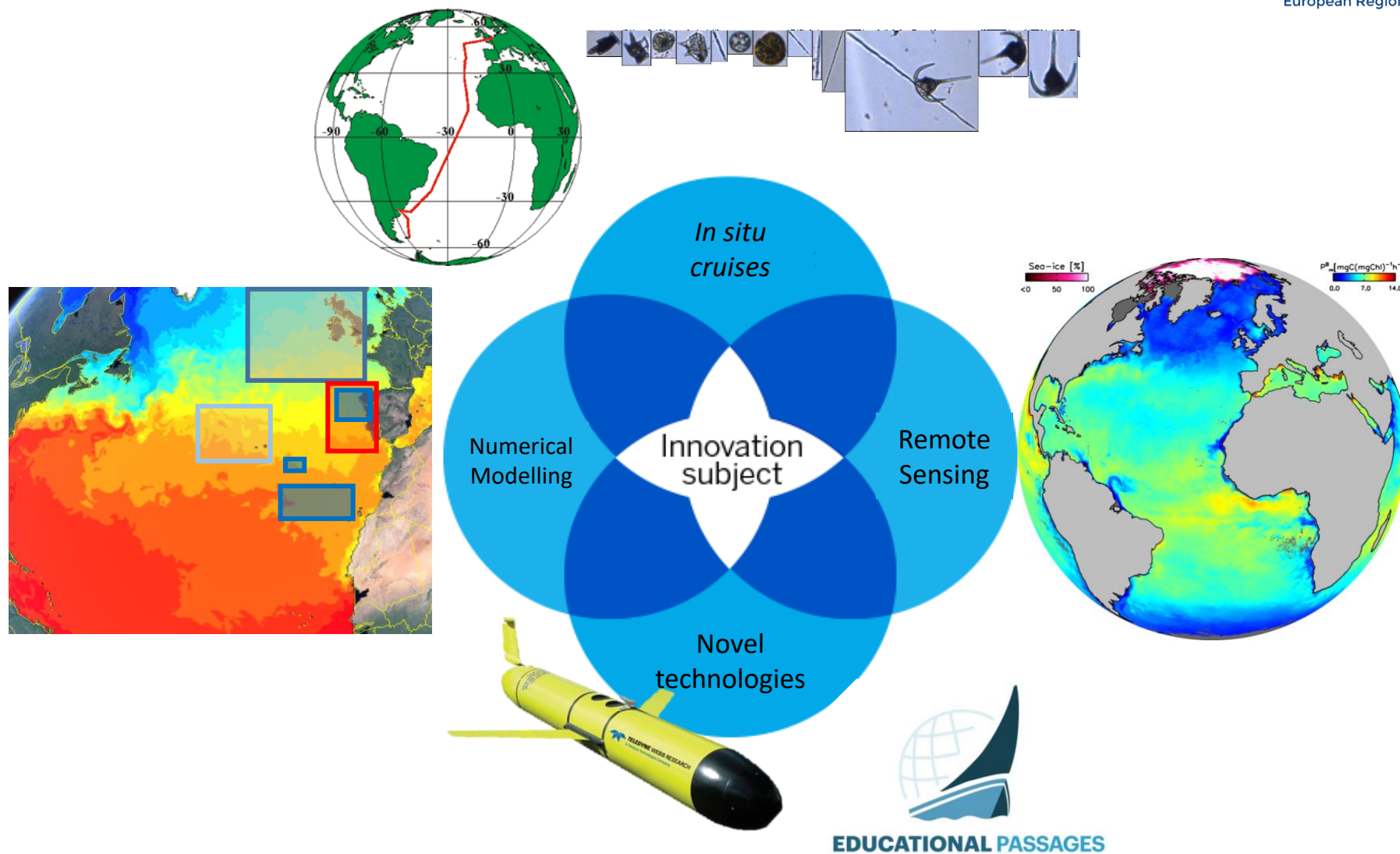
# Main Objective

to show and disseminate the desired oceanographic information to the target end-users in an easy way

- The effective implementation of a transnational and interdisciplinary data services depends on the capability of multiple systems to work with the same sets of data and metadata in an interoperable fashion.
- Metadata records associated with one resource should be accessible, accurately interpreted and subsequently used by systems other than from the originating organisation.
- The iFADO project is dealing with data sources from different scientific disciplines including numerical modelling, remote sensing, traditional monitoring campaigns and data obtained by novel technologies (i.e., gliders, miniboats, etc.). In order to represent the different type of data on a single platform a set of minimum requirements should be set. The way to achieve this task is through defining standards and try to make them converge.

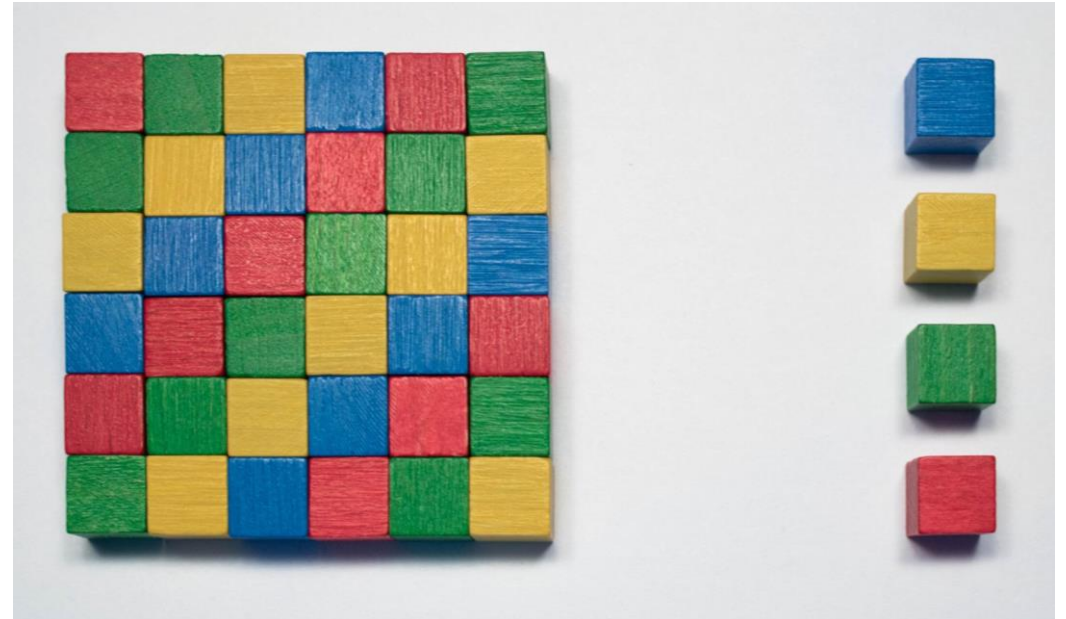


Snowden D, Tsontos VM, Handegard NO, Zarate M, O' Brien K, Casey KS, Smith N, Sagen H, Bailey K, Lewis MN and Arms SC (2019) Data Interoperability Between Elements of the Global Ocean Observing System. Front. Mar. Sci. 6:442. doi: 10.3389/fmars.2019.00442



The incorporation of data in the iFADO platform considered the following principles:

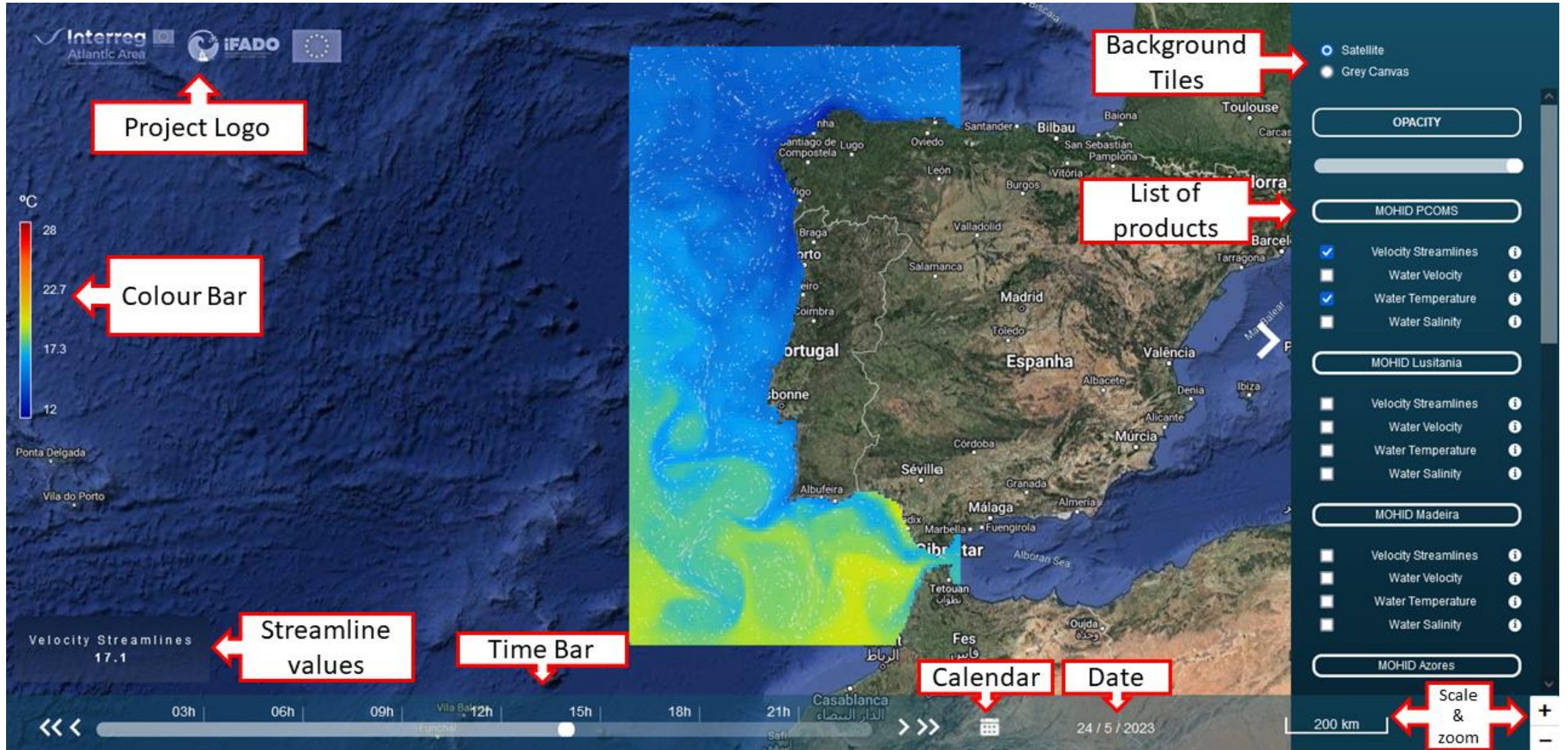
- Each data generator should choose the service where the data is hosted given preference to international recognised data aggregators;
- If the data generator prefers to host the data, international standards and methodologies should be followed in order to meet the FAIR principles
- The iFADO platform should not host data from any data provider, unless necessary, but it should dynamically link with the service provider.
- Only if common file format is not consolidated or the data provider is not ready to produce international standards data then conversion and integration tools will be developed.





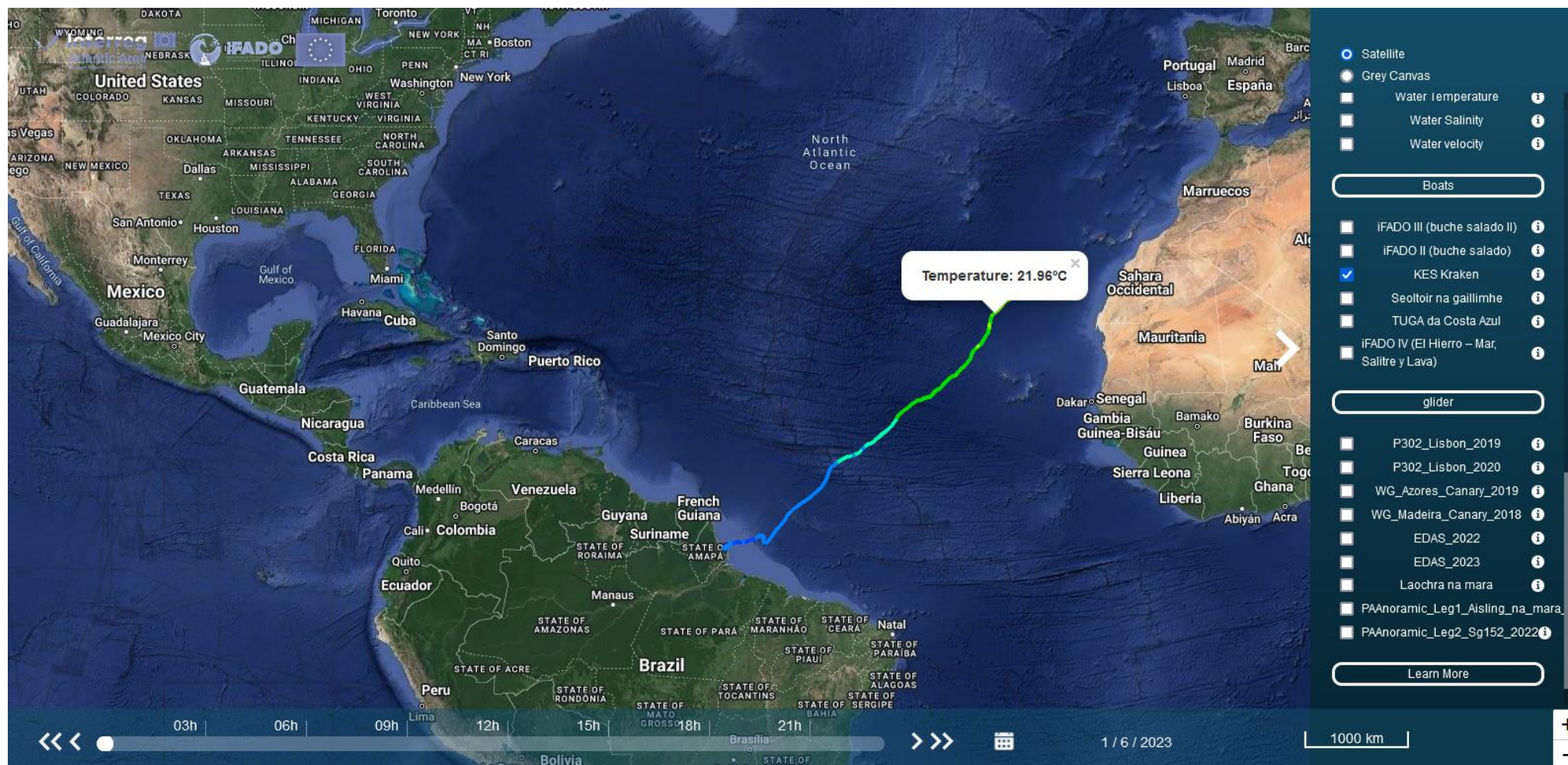




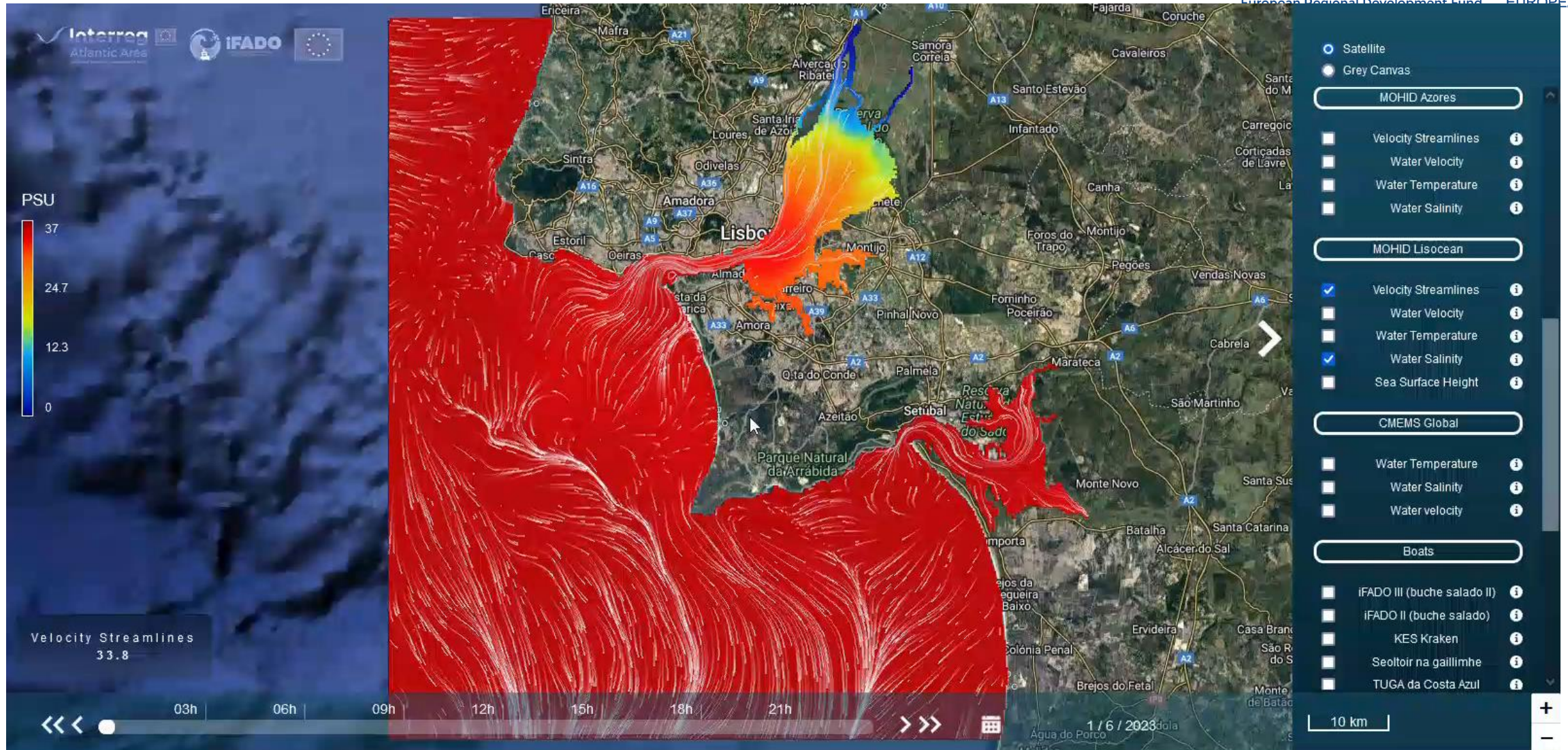




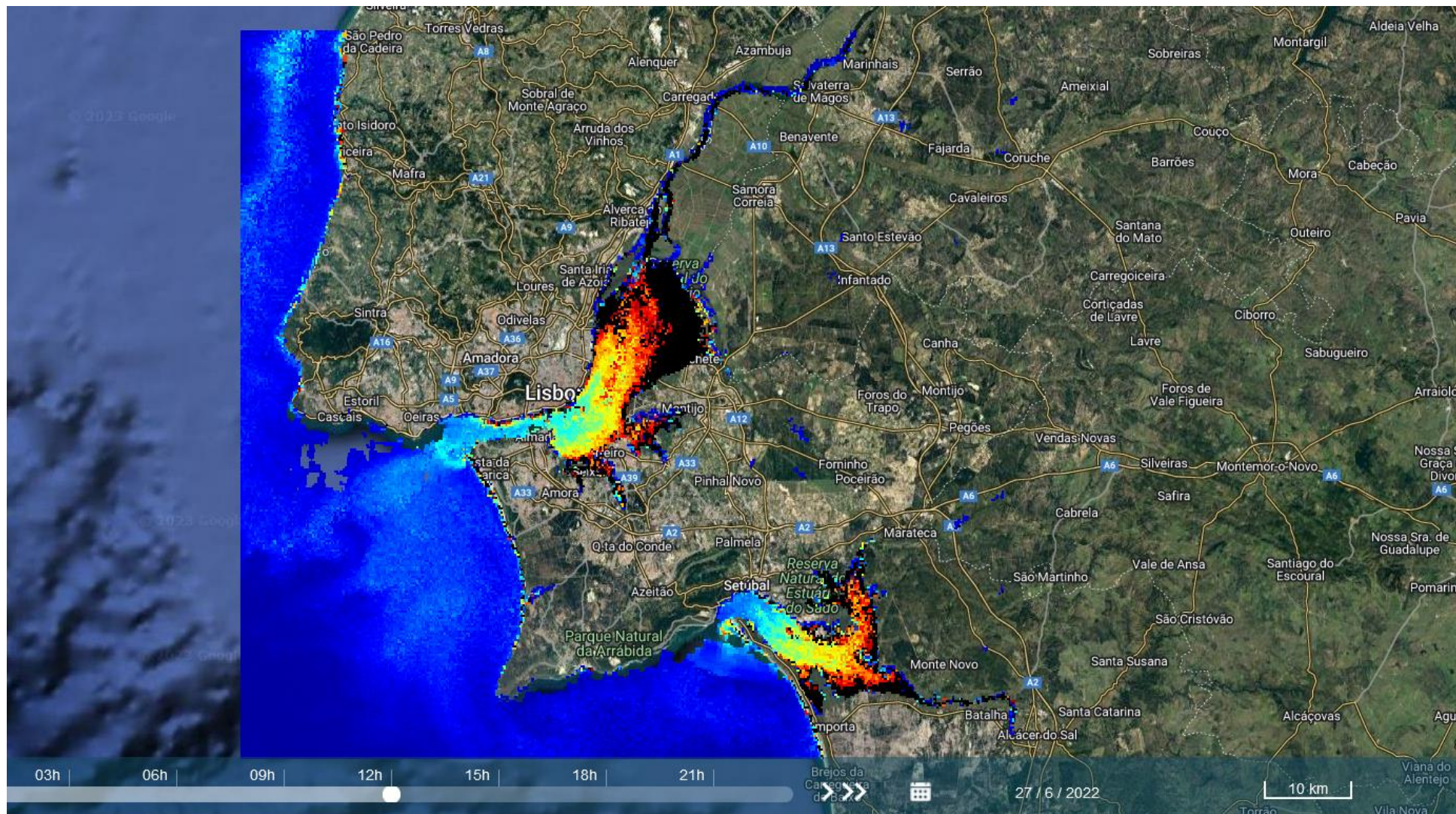
## Miniboat KES Kraken



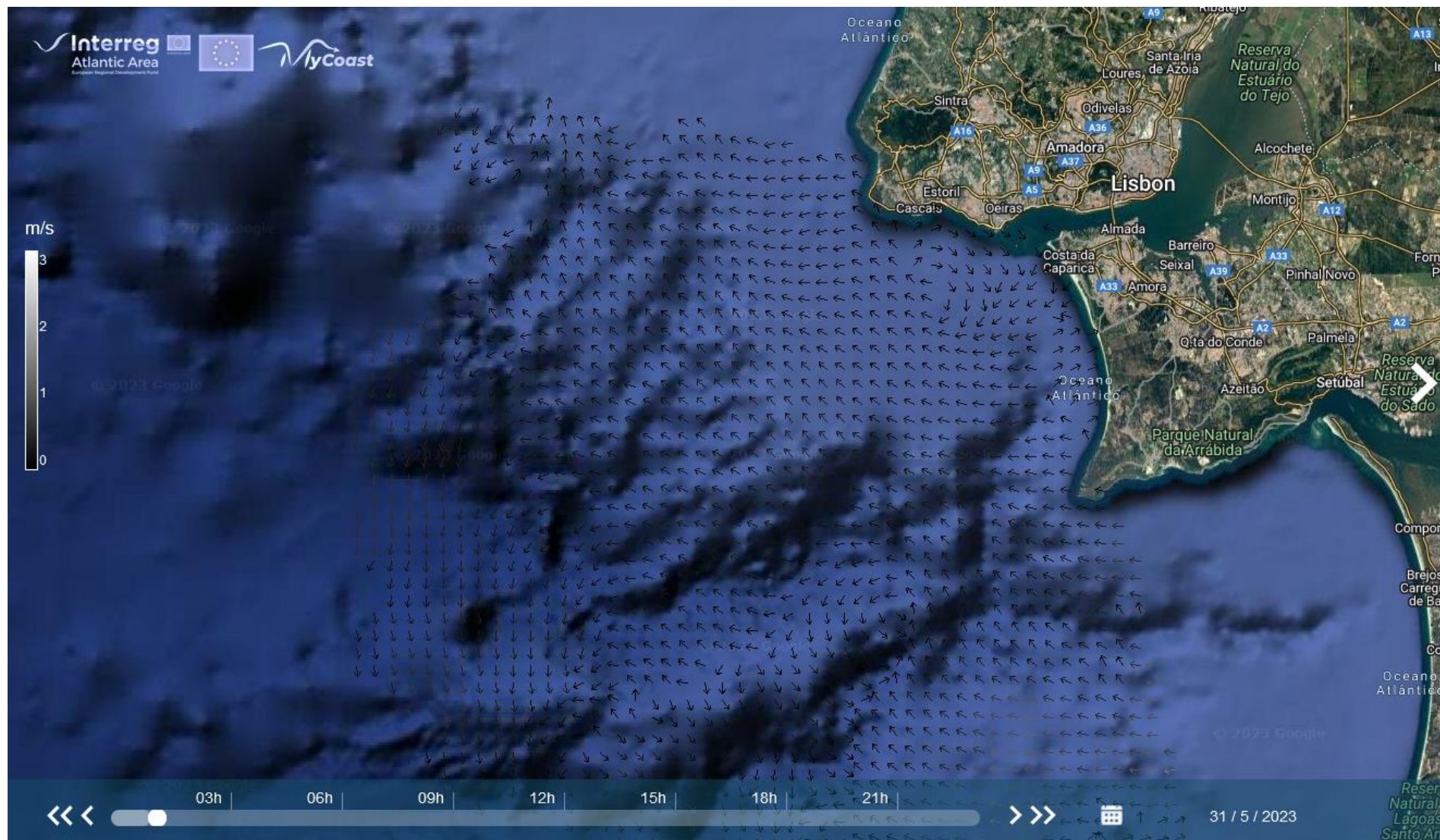




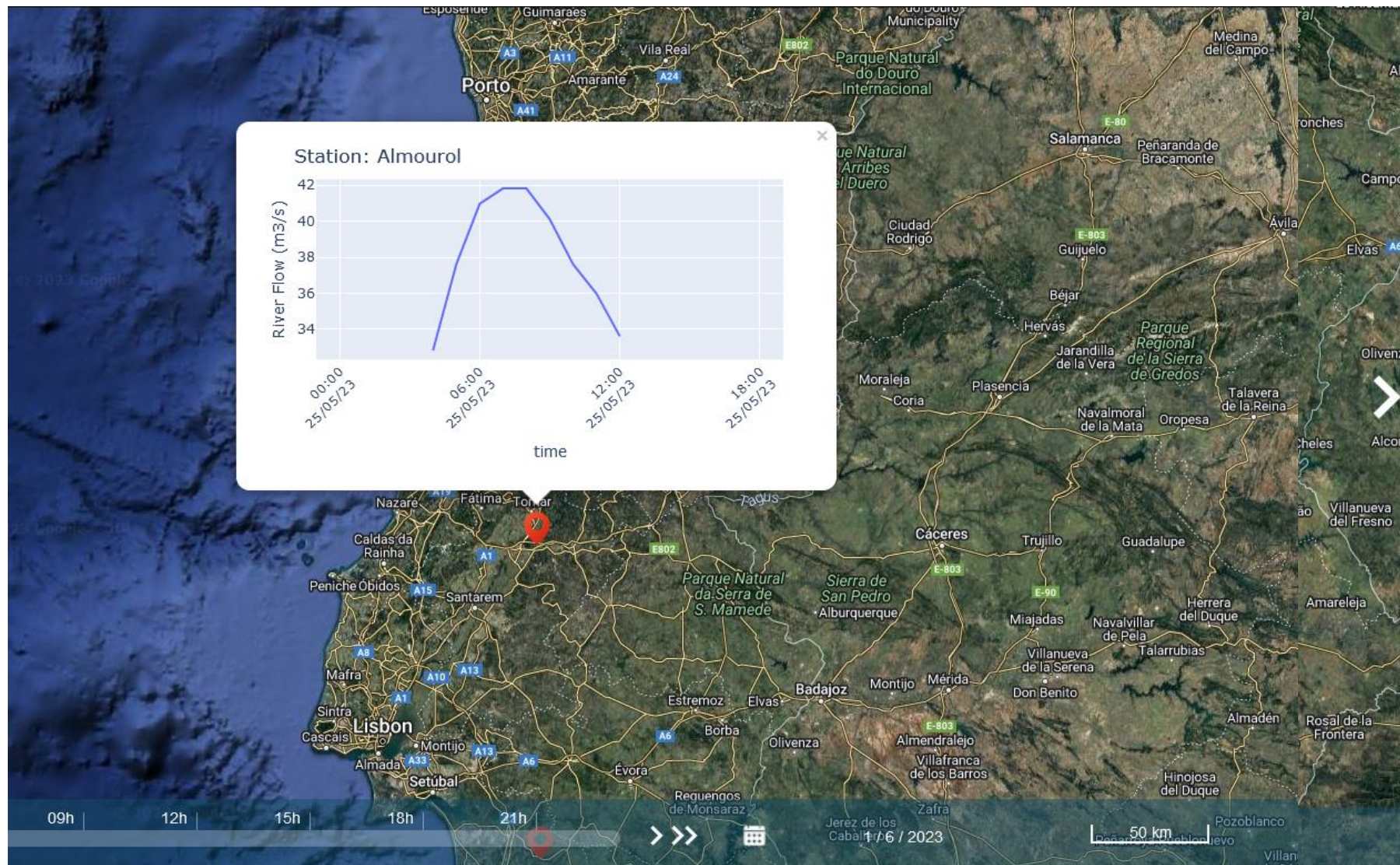




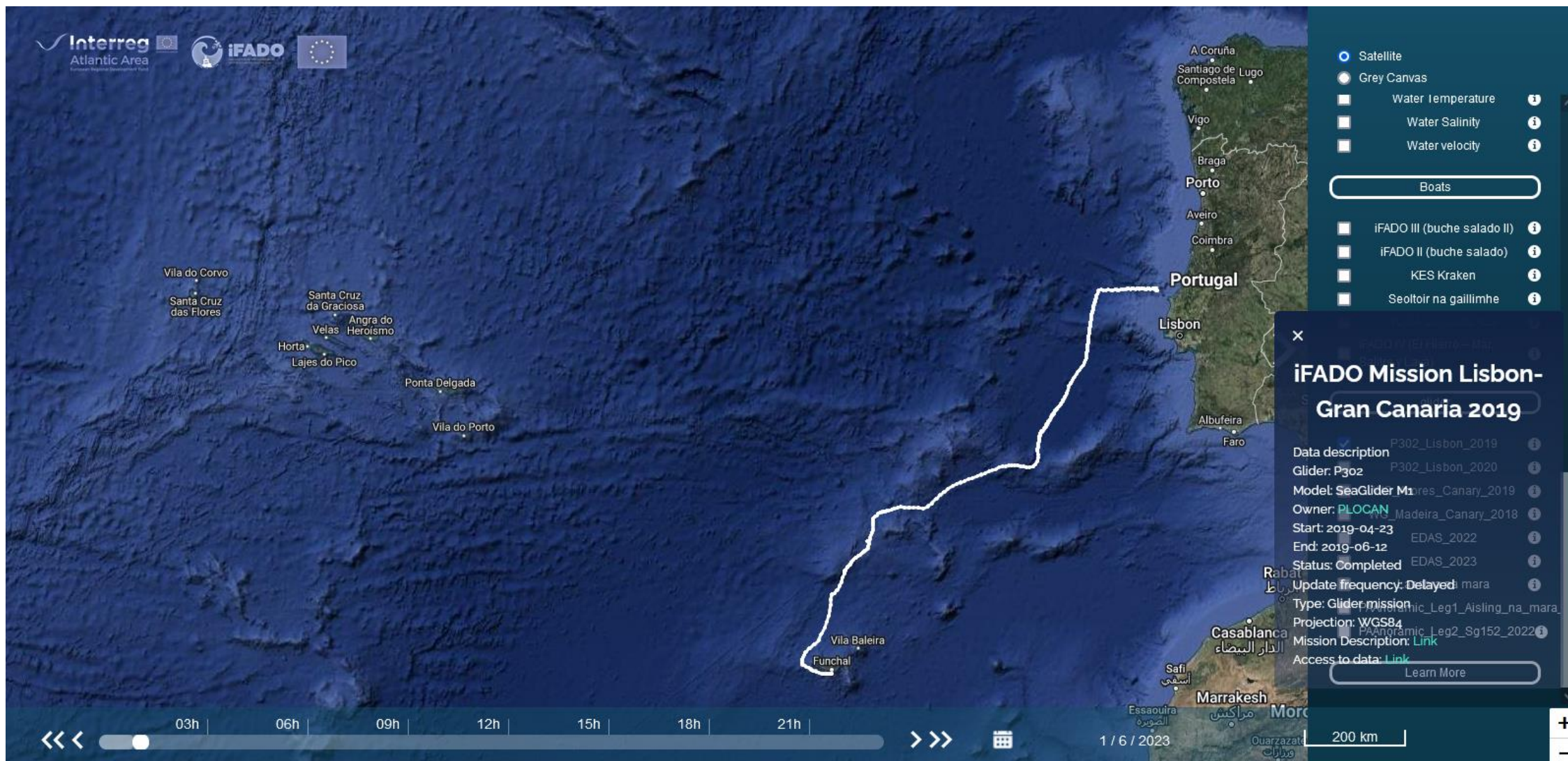












```
products.cfg x
1  {
2    "wms" : [{
3      "layer_name": "water_velocity_2_ls_mycoast",
4      "active": "0",
5      "data_source": "THREDDS",
6      "url": "http://thredds.maretec.org/thredds/wms/MOHID_WATER/LISOCLEAN_0.003DEG_50L_3H/FORECAST/",
7      "data_type": "Particles",
8      "description": "",
9      "frequency": 0,
10     "name": "Velocity Streamlines ",
11     "project_information": {"name": "MOHID mycoast"},
12     "layers": "sea_water_velocity_2",
13     "styles": "vector/rainbow",
14     "colorscalerange": "0,2",
15     "unit": "m/s",
16     "depth": 3.0
17   }, {
18     "layer_name": "water_velocity_ls_mycoast",
19     "active": "0",
20     "data_source": "THREDDS",
21     "url": "http://thredds.maretec.org/thredds/wms/MOHID_WATER/LISOCLEAN_0.003DEG_50L_3H/FORECAST/",
22     "data_type": "WMS",
23     "description": "",
24     "frequency": 0,
25     "name": "Water Velocity ",
26     "project_information": {"name": "MOHID mycoast"},
27     "layers": "vm",
28     "styles": "boxfill/sst_36",
29     "colorscalerange": "0,2",
30     "unit": "m/s",
31     "depth": 3.0
32   }, {
```



## Some defined limitations

- Simultaneous layers limited to three.
- Access is provided for the last 30 days on operational products.
- Test it at: <http://ifado2.maretec.org/> or access through the ifado webpage:





INNOVATION IN THE FRAMEWORK  
OF THE ATLANTIC DEEP OCEAN

Thank you  
for your  
attention!



Francisco Campuzano (+ATLANTIC CoLAB)  
[francisco.campuzano@colabatlantic.com](mailto:francisco.campuzano@colabatlantic.com)

This project has received funding from the European Union's Interreg Atlantic Area programme under the grant EAPA\_165/2016

