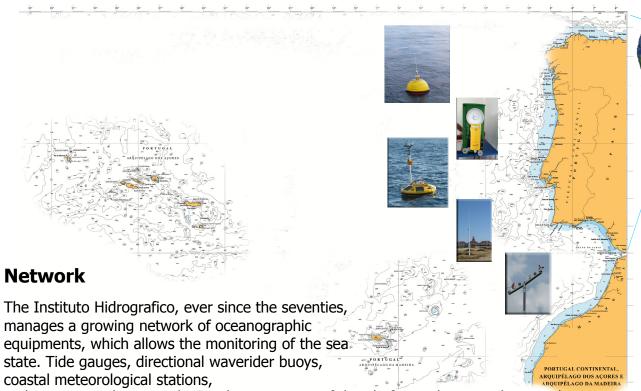




A contribution to the Marine Observatory network

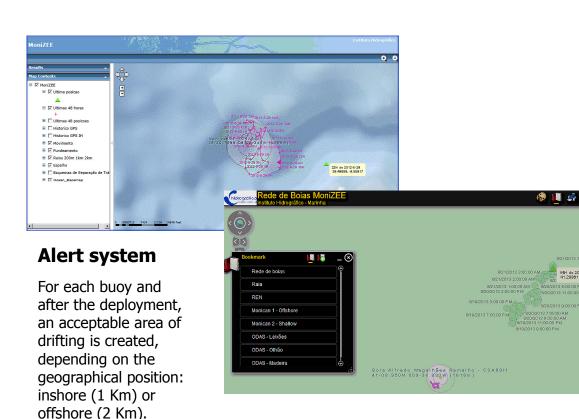
Almeida, Sara; Baptista, Rui - Instituto Hidrográfico, sara.almeida@hidrografico.pt, reino.baptista@hidrografico.pt Golde, Ilmer; Lopes, Ana; Saramago, Ana – Instituto Hidrográfico



The Instituto Hidrografico, ever since the seventies, manages a growing network of oceanographic equipments, which allows the monitoring of the sea state. Tide gauges, directional waverider buoys,

multiparametric buoys and HF radars are some of the platforms that contribute to the Marine Observatory network.

Data is being made available on near real time over the institute's internet portal.



Linked to the database, there is a GIS portal, from where it is possible to trace the movements of the platforms at sea.

Whenever the mooring is damaged, the drift can be followed, improving the efficiency on recovering operations.

In 2012, or last August, in the North of Portugal with Alfredo Ramalho buoy where it could be recovered in less than 48h.

http://gis.hidrografico.pt/flex/monizee/

For the community

From data to products

DATA



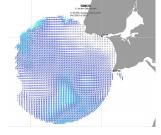


Tide gauge data

Waves data

PRODUCTS

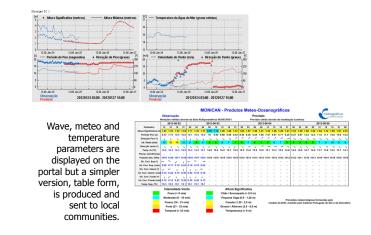


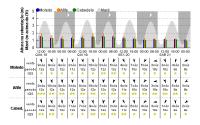


Surface currents from HF radar

Tides Tables

Dynamic products are created each hour, combining near real data received from the observatory network and forecasts resulting from the prediction models.





A combination of the models is used to create a table for surf zone related sports. It includes a quality index for easy reference by the general public.

Comparison of the wave height on the surf zone

