

Opening Access to Marine Meteorological Data Collected at R/V R. Margalef.

E Tel ⁽¹⁾, J.I Díaz, D. Cortés, P.Otero.

(1). Contact: Spanish Institute of Oceanography. Central Headquarters. C/ Corazon de Maria 8. Madrid-Spain. elena.tel@jeo.es



The Spanish Institute of Oceanography (IEO) has been observing and measuring the ocean characteristics as part of its institutional activity since its foundation in 1914. Nowadays, the continuous monitoring program includes systematic underway measurements performed by thermosalinometers, meteorological stations and ADCP installed on its research vessels.

R/V Ramon Margalef was built in 2012 for oceanographic research purposes. It mainly operates around Iberian Peninsula waters. Since the beginning of its activity, an automatic weather station has been continuously working, 1-minute sampling marine meteorological data at open sea but also at port. These data are daily available at a dedicated FTP for operational purposes.





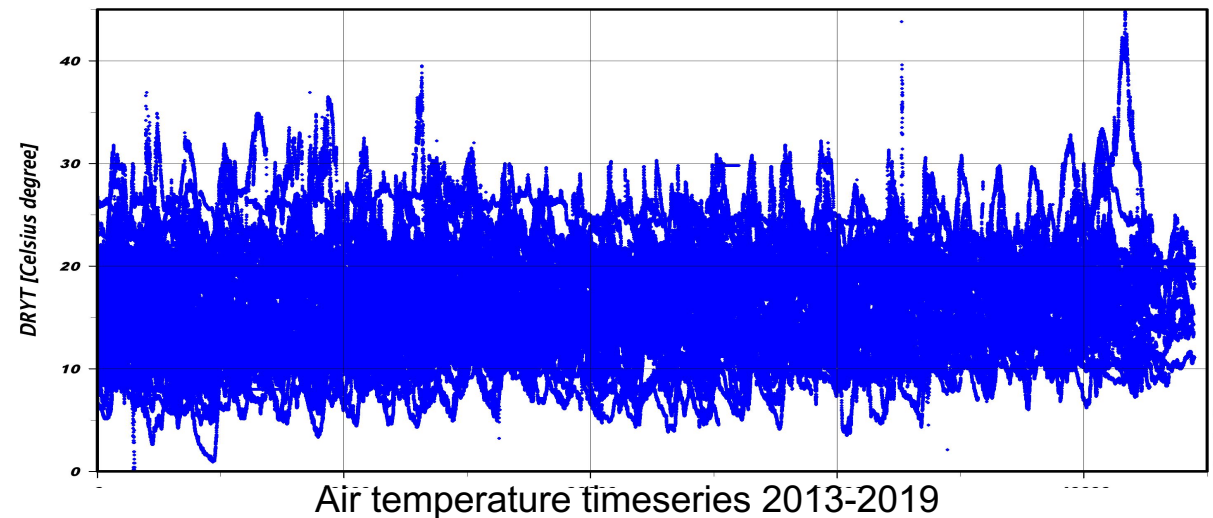
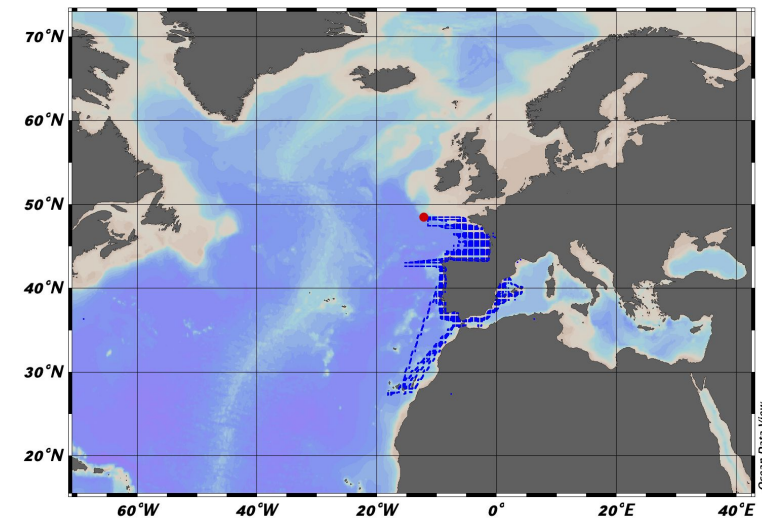
All data are directly sent to the IEO Datacenter / National Oceanographic Data Center (NODC) for delayed mode quality control and long-term archive.

In the last times, a semi-automatic quality control/quality assessment has been performed on them, and data are formatted in standard format, while a quality flag has been added to each single measurement. Detailed metadata have been created in the framework of seadatanet and INSPIRE compliants.

DOIs (Data Object Identifier) for citation and the authorship protection have also been assigned. This facilitate their reusing for different purposes, from climatology or academical studies to industrial sector needs, between others.

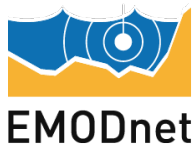
Available variables:

- Air Temperature
- Relative Humidity
- Wind direction
- Wind speed
- Incident Radiation





From all these efforts, trying to collaborate in environmental data sharing in marine areas, where in-situ data are sparse, the IEO makes freely available almost 7 years (2013-2019) of continuously sampled data.



Data are available at different portals and data sharing initiatives: EMODNET Data Ingestion portal and at the Pan-european Marine Data Portal. All of them are freely available through the European marine data portal www.seadatanet.org. From this portal, data can be downloaded at 3 different formats, trying to give response to different users needs.



Recently, they are also available at the new IEO dedicated data server <http://datos.ieo.es>, equipped with a Geonetwork tool for management, searching and discovering.

As the vessel is working nowadays, continuous updates and new data will be added in future times.

