

Portuguese Argo Activities

Report 2020 for the Argo Steering Team Meeting (AST22)

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Activities

1. Launch of two Argo PROVOR CTS3 CTD + OD floats in the Gulf of Cadiz, under the European project Euro-Argo RISE (Euro-Argo Research Infrastructure Sustainability and Enhancement; Contract No 824131), funded by the EU Horizon 2020. This activity was a collaboration with the Argo-France Program and SHOM (see press release in annex).

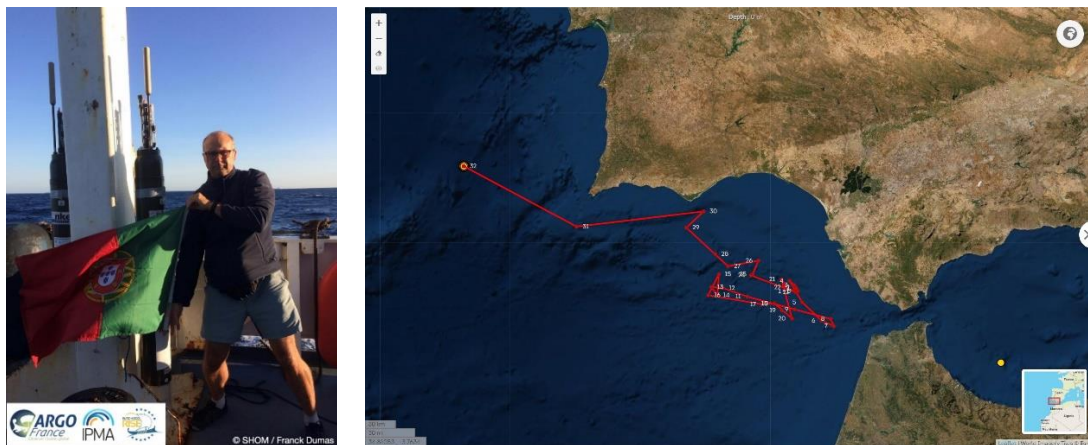


Figure 1. Argo floats on board RV "Atalante" (Franck Dumas, SHOM) ready to be dropped in the Gulf of Cadiz. Map of the trajectory of one of the floats until March 13th, 2021.

2. Participation in the European project "Euro-Argo Research Infrastructure Sustainability and Enhancement (Euro-Argo RISE)", namely in the WP2-Evolution of the core Argo mission / Task 2.3-Improve Argo observation of boundary regions. In this context, one



of the activities was the survey of all floats launched and that entered the Gulf of Cadiz. TS variability and retention times were analysed. This work gave rise to a MSc Thesis in Marine and Coastal Systems from the University of Algarve (Almeida, 2020).

3. Preparation for Portugal's participation as a full member of Euro-Argo ERIC.

Plan for 2021

1. Signature of Portugal's admission to Euro-Argo ERIC, during the Portuguese Presidency of the EU.
2. Acquisition of one full biogeochemical Argo float and one nuclear Argo float with dissolved oxygen sensor.
3. Acquisition of four Argo nuclear floats.
4. Continuation of task 2.3 of the Euro-Argo RISE project with the simulation of various configurations of Argo floats to propose a methodology for observing the Gulf of Cadiz with these floats.

References

Almeida, V. (2020). Analyzing Variability of Northeast Atlantic Ocean Conditions Using Argo Floats. MSc Thesis, Marine and Coastal Systems, Univ. Algarve, 15 pp.

Annex



Launch of 2 Argo floats in the Gulf of Cadiz

Two floats (Fig. 1) were launched on board the RV "L'Atalante" of the Hydrographic and Oceanographic Services of the French Navy (SHOM-Service hydrographique et océanographique de la Marine). These floats were offered by [Argo-France](#) to IPMA, within the scope of the European project [Euro-Argo RISE](#) (Euro-Argo Research Infrastructure Sustainability and Enhancement; Contract No 824131), funded by Horizon 2020 of the European Union. The floats are of the [PROVOR CT53](#) type and have, in addition to the conductivity (salinity), pressure and temperature sensors, dissolved oxygen sensors. They were launched in the Gulf of Cadiz, near the Strait of Gibraltar.

