



iFADO project Newsletter #4



iFADO organized workshop on novel technologies

An initiative held in Horta (Faial Island, Azores), complementing the 5th Project Meeting.

reconverted sperm whale processing <u>factory</u> hosted the iFADO workshop Novel technologies to aid MSFD monitoring and interregional integration, an activity focused on international



cooperation and the involvement of innovative technologies in ocean monitoring. Participants discussed the relevance of regional collaboration and new technologies for a cost-effective monitoring of large maritime areas. After the workshop, attendees assisted to the departure of a Slocum glider, which was deployed into Azorean waters on the scope of a transnational mission.

For additional information about the workshop, please access here.

iFADO — A reference project for the Marine Innovation sector

During 11-13 November, the project was presented to several marine economy stakeholders.

During the Business2Sea Forum, Oporto, **iFADO** in participated in several initiatives, including workshops, thematic sessions, pitch one presentation and display of project materials.



On 13 November, iFADO played an important role at two events hosted by Business2Sea: the 6th Atlantic Stakeholder Platform Conference (the central hub for stakeholders of the Atlantic Strategy) and the Interreg Atlantic Area Annual Event (thematic session Building a sustainable and cohesive Atlantic: why do Interreg Atlantic projects matter?). During the latter, iFADO was highlighted as a reference project for the Marine Innovation sector, sharing its experience to an audience of 150 delegates.

For additional information about Business2Sea Forum, visit the official website.

Ocean monitoring mission between the Azores and the Canary archipelagos

This iFADO activity was on the scope of the Azores glider missions.

A waveglider autonomous surface vehicle (PLOCAN fleet), completed successfully its cooperative and transnational mission. The glider was put into operation on 13 November in Faial Island



and was recovered in Taliarte (Gran Canaria Island). During the 57-day mission, the Wave Glider covered a total of 2.000km and collected meteorological/oceanographic variables, including acoustic traces of cetaceans of interest in the area of operation (on the scope of a collaboration with the European project JONAS - Joint Framework for Ocean Noise in the Atlantic Seas).

The initiative was part of the Azores glider missions, which started on 22nd of October with the deployment of another vehicle (Slocum typology), owned by the Marine Institute – Foras na Mara. After 15 days at sea, the Slocum was recovered off the island of Faial, having covered more than 250 km and performed more than 40 deep dives.

For more details about Azores glider missions, click here and here.

Scientific articles published with the support of iFADO

Project results available in the journals Frontiers in Marine Science and Deep Sea Research Part I: Oceanographic Research Papers



• The review article Toward the Integrated Marine Debris Observing System (Front. Mar. Sci., 28 August 2019), co-authored by Ana Martins and Catharina Pieper (Department of Oceanography and Fisheries, University of the Azores), presents the structure of the future integrated marine debris observing system (IMDOS) that is required to

provide long-term monitoring of the state of this type of pollution.

• The paper entitled *Decadal changes in temperature and salinity of Central Waters off Western Iberia* (Deep-Sea Research I, 151: 103068, September 2019) and co-authored by André Valente (Faculty of Sciences, University of Lisbon), uses historical ocean vertical profiles to investigate decadal changes in temperature and salinity of Central Waters off the Western coast of Iberian Peninsula between 1955 and 2016.

For more information about these articles, access the links above.

iFADO increases public awareness about MSFD and ocean literacy

Two activities were held in Horta: top destination for the sailing community.



On the scope of WP2 (Project Communication) and coupled with the 5th project meeting, the consortium organized two Citizen Science events:

- An open exhibition at the Maritime Terminal of Horta, where the public observed *in loco* one <u>Slocum</u> vehicle, as well as several videos about glider operations and missions.
- An iFADO public presentation at <u>Oceanic Cafe</u>. Four iFADO partners (<u>IST</u>, <u>FRCT</u>, <u>NOVELTIS</u> and <u>PLOCAN</u>) talked about different approaches for ocean monitoring, such as satellites, mobile apps and novel technologies, in an ambience traditionally acquainted by the "Sailing for Pleasure" community.

iFADO engages sailing trainees on the scope of Educational Passages

One GPS-equipped miniboat joined a project's Citizen Science activity.



On 2nd February, a Citizen Science event took place south of Lisbon, in Sesimbra port. This activity was organized by iFADO partner <u>IPMA</u> and the "Optimist" sailing team from Clube Naval de Sesimbra.

An <u>Educational Passages</u> miniboat, kindly supplied by iFADO partner

<u>PLOCAN</u>, joined two "Optimist" boats in a regular weekend sailing training session. Before leaving the port, trainees were challenged to set a launching location off the coast and to foresee miniboat's trajectory according to wind conditions. Then, the sailing pupils performed the launching in the agreed location and followed the miniboat for about 2 hours. During the journey, while assessing if the trajectory was happening as "predicted", vivid discussions took place, such as the effect of the wind and currents and what drive them.

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