iFADO

INNOVATION IN THE FRAMEWORK OF THE ATLANTIC DEEP OCEAN

International missions with novel technologies in the Atlantic Area

Carlos Barrera (PLOCAN) on behalf WP5 partners

Interreg Atlantic Area

European Regional Development Fund

This project has received funding from the European Union's Interreg Atlantic Area programme under the grant EAPA_165/2016

TÉCNICO LISBOA

Marine Institute

Feras na Mara

National Oceanography Centre

ipma

instituto português do mar e da atmosfera

NOVELTIS

PLOCAN Plataforma Oceánica de Canarias

- Floats
- Moorings
- UW-gliders
- Research Vessels
- Sea-Level Gauges
- HF Radar
- FerryBox
- Animal-borne Instruments
- **Uncrewed Surface Vehicles -USV**

FerryBox EuroGOOS Task Team

Glider EuroGOOS Task Team

HFRadar EuroGOOS Task Team

emso ERIC

Euro Argo

OceanSITES

OCEAN TRACKING NETWORK

GLOSS

EMODnet European Marine Observation and Data Network

EOOS European Ocean Observing System

SeaDataNet

OceanOPS

Interreg Atlantic Area European Regional Development Fund

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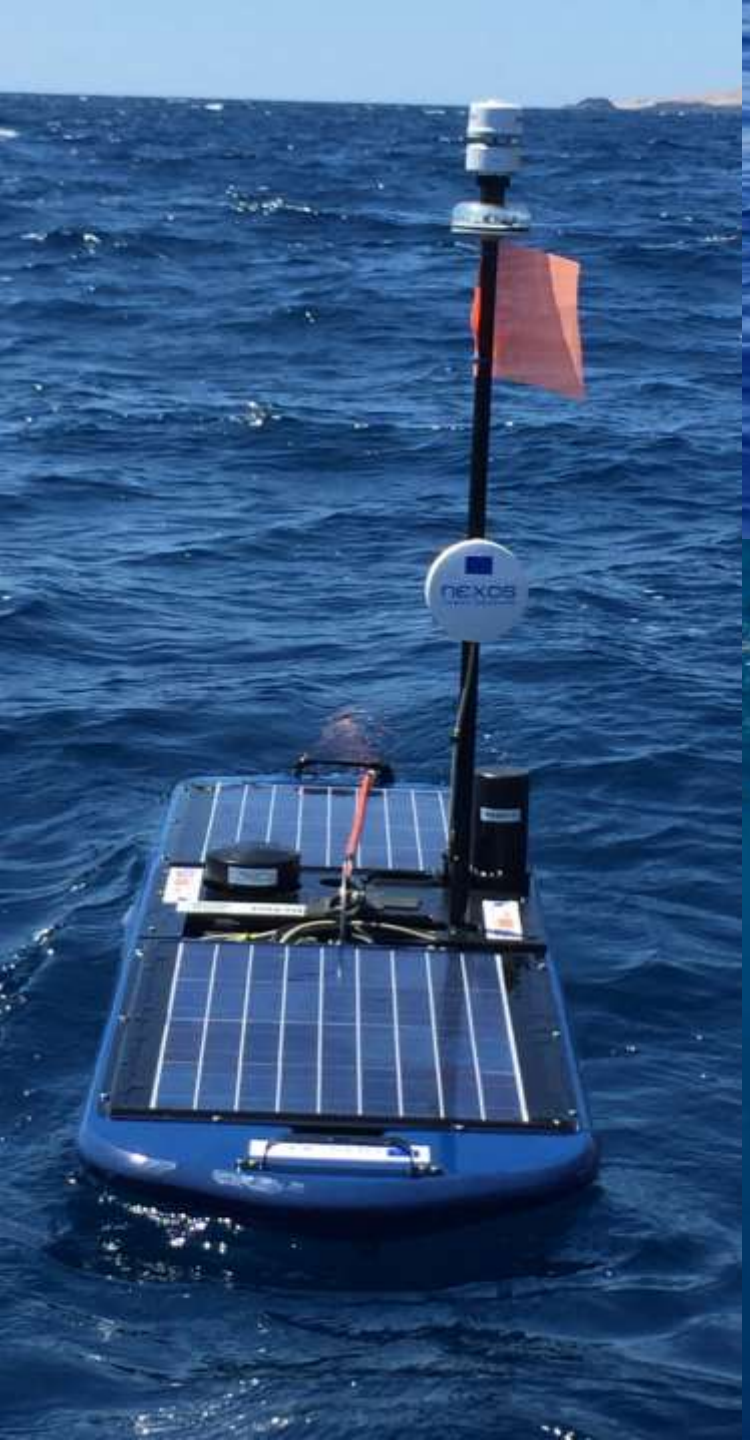
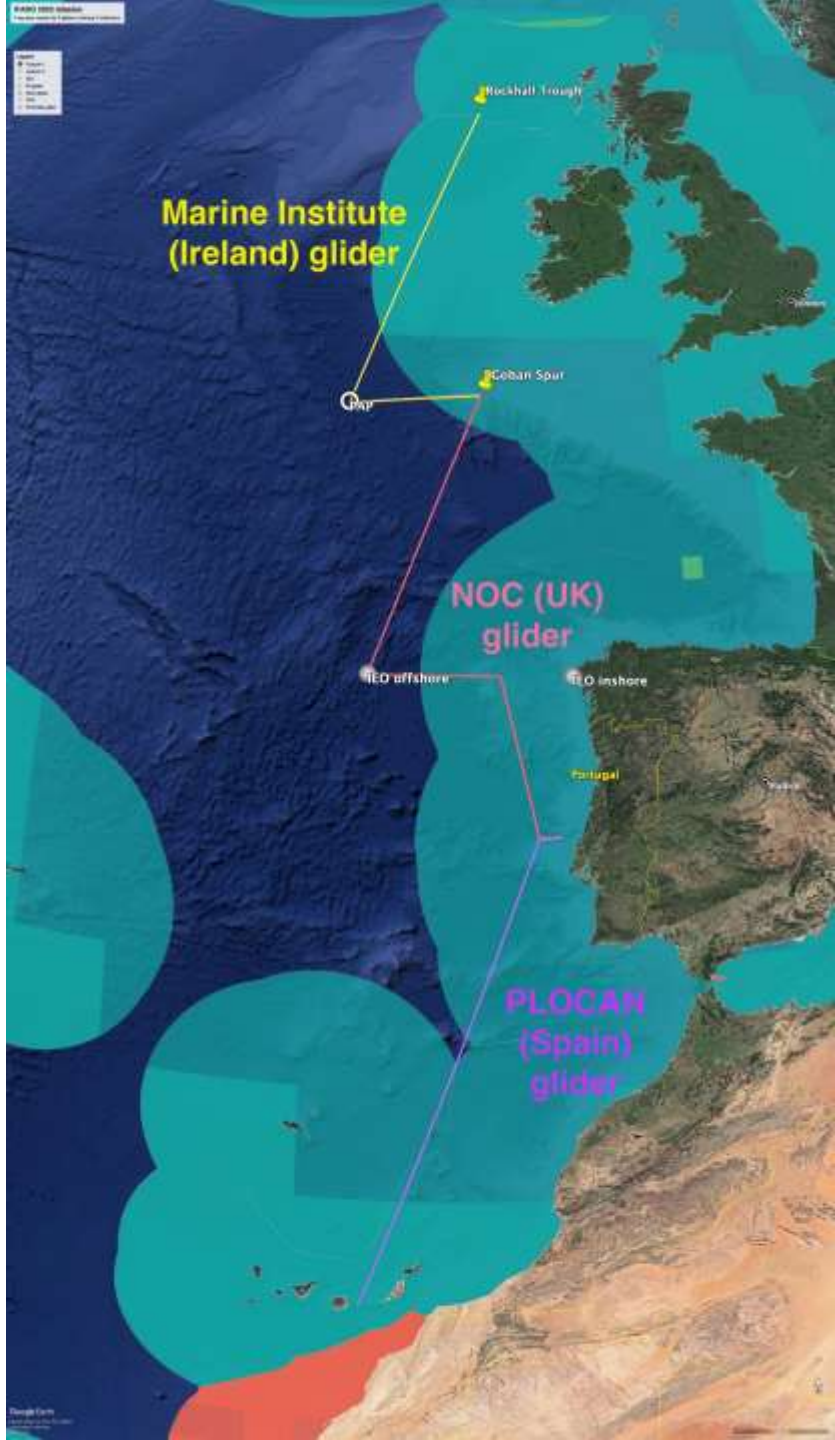

nexos


SAILOR
AutoNaut

iFADO PAANORAMIC Glider Mission

- Leg 1 (MI glider): Rockhall trough – PAP – Goban Spur (deployment from UK vessel, recovery from Irish vessel)
- Leg 2 (NOC glider): Goban Spur – IEO offshore mooring – PT moorings – Nazare PT (deployment from Irish vessel, recovery from Portuguese vessel)
- Leg 3 (PLOCAN glider): Nazare PT – Gran Canaria ES (deployment from Portuguese vessel, recovery from Spanish vessel) **DELAYED!!!**

Winter 2022 / Spring 2023



- Nortek Signature500 Acoustic Doppler Current Profiler (ADCP); Xylem Aanderaa Motus wave sensor; Seiche micro passive acoustic monitor (uPAM).

- The University of East Anglia, which partnered in the original EE project, and went on to purchase an AutoNaut specially adapted to deploy a Kongsberg SeaGlider to the Southern Ocean, loaned their Seabird conductivity, temperature and depth (CTD) sensor: later UEA loaned the power generation controller (PGC) from their AutoNaut Caravela.

- In addition, AutoNaut provided an AirMar weather station, and a replacement. iFADO have provided support and data review throughout. We are very grateful for the support of all these partners in providing the equipment, and their assistance in analysing the data gathered.

CAPACITY BUILDING

NOC

MI

PLOCAN

IH

UAC

LSTS

ARDITI

Interreg Atlantic Area
European Regional Development Fund

iFADO

TRAINING

Glider School 2022

Since 2011…

Glider School

TELEDYNE WEBB RESEARCH
Everywhereyoulook™

KONGSBERG

CLS

MEMORIAL UNIVERSITY

National Oceanography Centre
NATURAL ENVIRONMENT RESEARCH COUNCIL

marum
Center for Marine Environmental Sciences

ALSEAMAR
ALCEN

LIQUID ROBOTICS
A Boeing Company

Offshore Sensing AS

SEA-BIRD SCIENTIFIC

RBR

www.gliderschool.eu

175 Students - **34** Countries - **23** Companies & **15** Research Institutions Supporting - **11** Editions

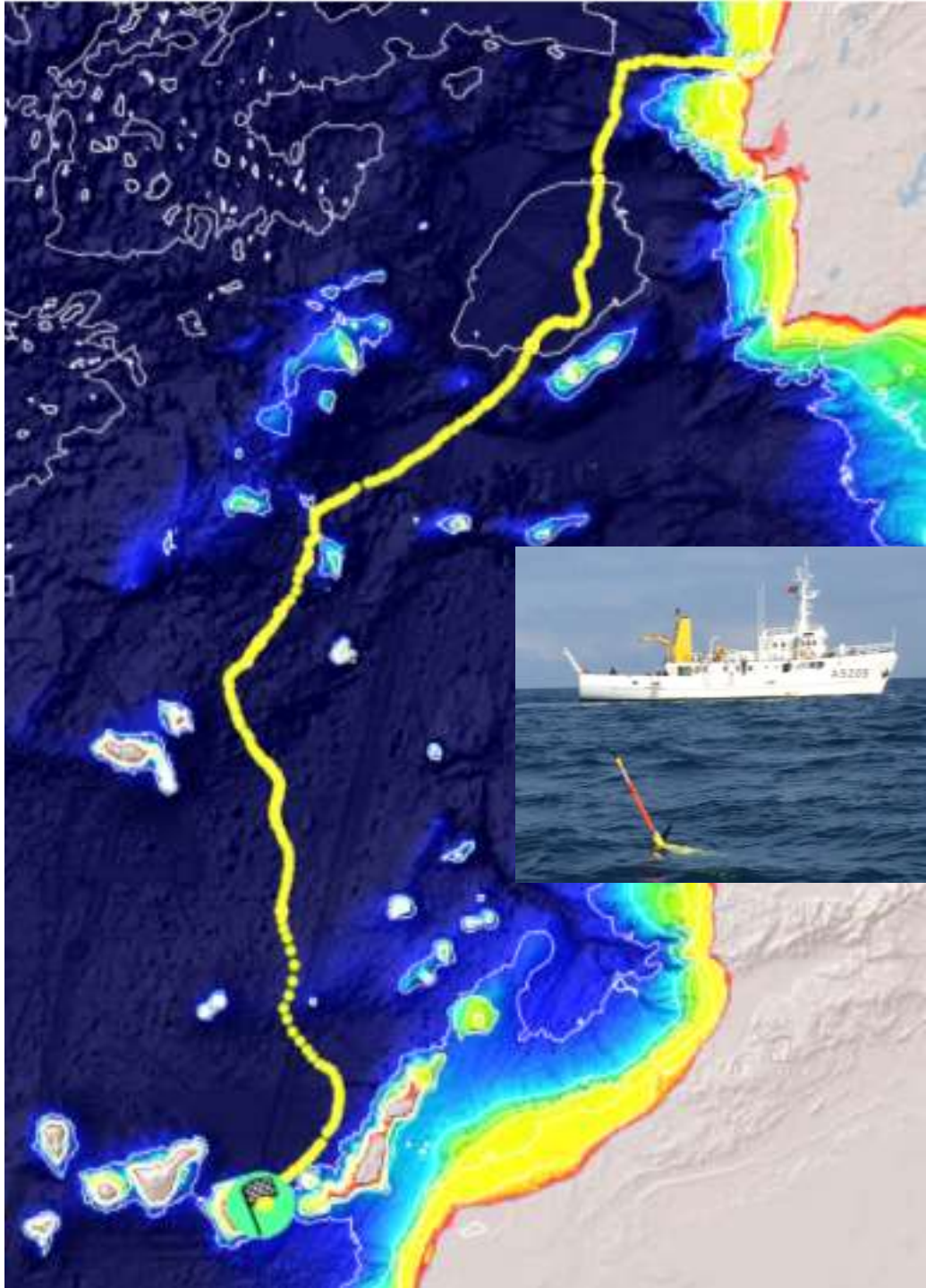
Glider Endurance Line / Lisbon-Canary Islands

- Essential physical (temperature, conductivity and pressure) and bio-chemical variables (dissolved oxygen, chlorophyll and turbidity)
- Every six months
- BOON / OceanGlider GOOS Program

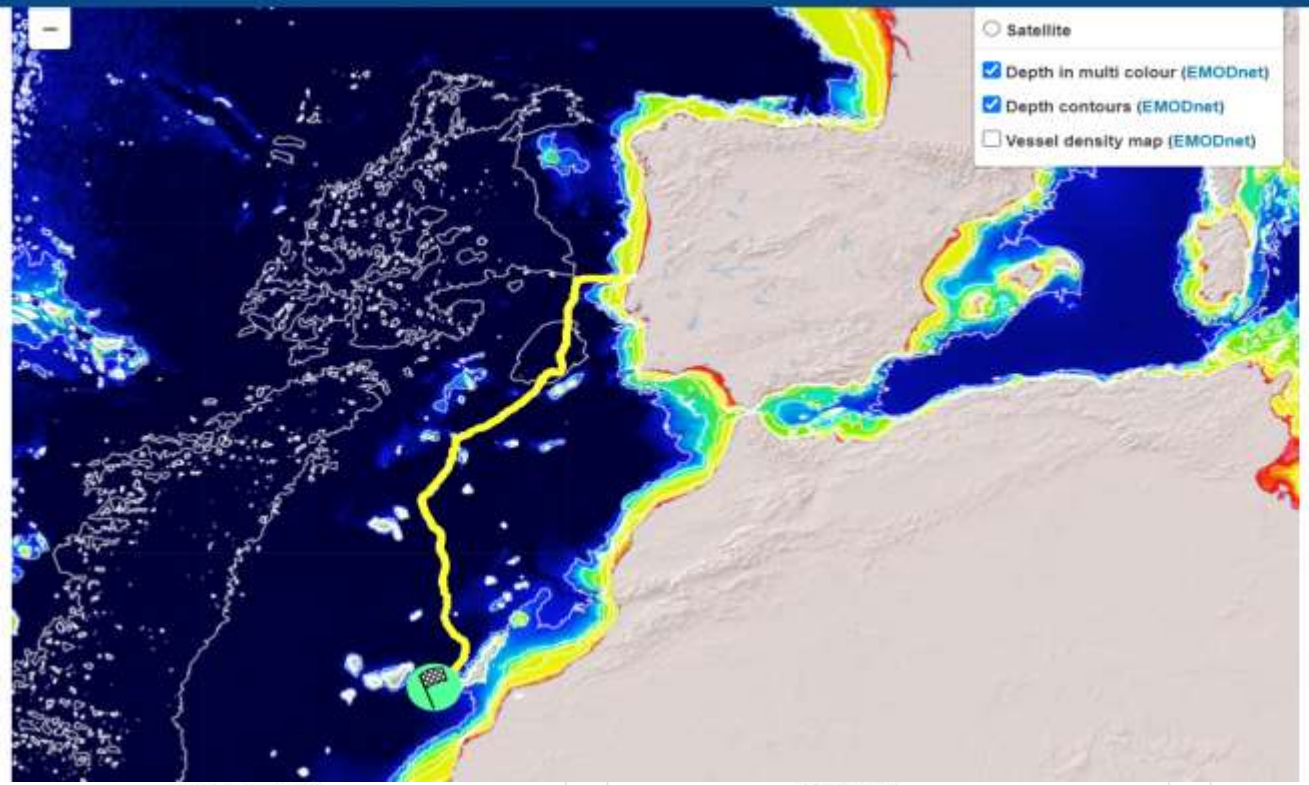
PLOCAN Plataforma Oceánica de Canarias

hidrográfico marinha · portugal

CSIC Consejo Superior de Investigaciones Científicas



PLOCAN Home Vehicles Drifters HF Radar Climatology Galleries Repositories Contact Us



Completed

Glider: P302

Start Date: 2020-02-07 10:00 UTC

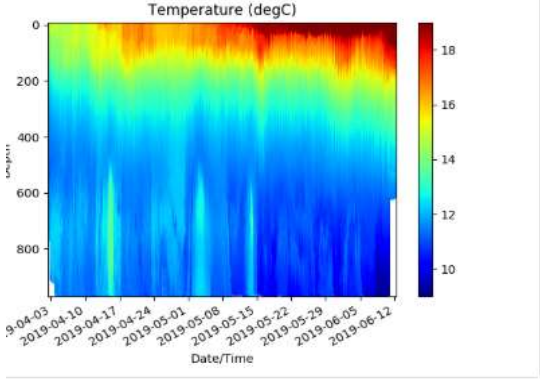
Last comm: 2020-05-05 13:15 UTC

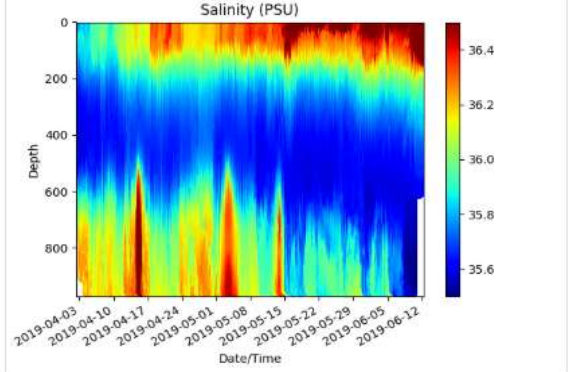
Institutions involved: IH

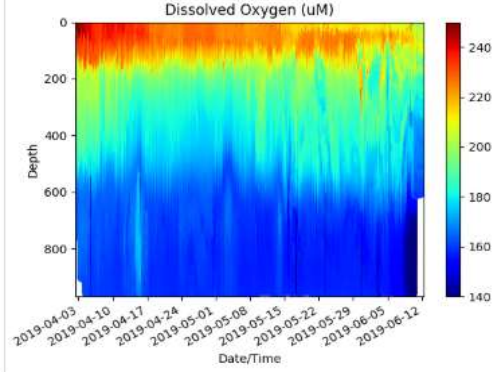
Related projects: iFADO

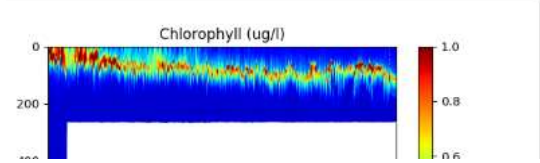
Distance covered: 1793.2 km

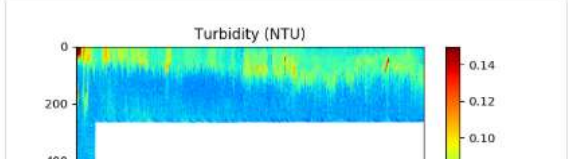
Sensors: Fluorometer DO CTD











3 months
1800 km
517 dives (+ 1000 profiles)

PLOCAN Plataforma Oceánica de Canarias

hidrográfico marinha·portugal

Interreg Atlantic Area European Regional Development Fund

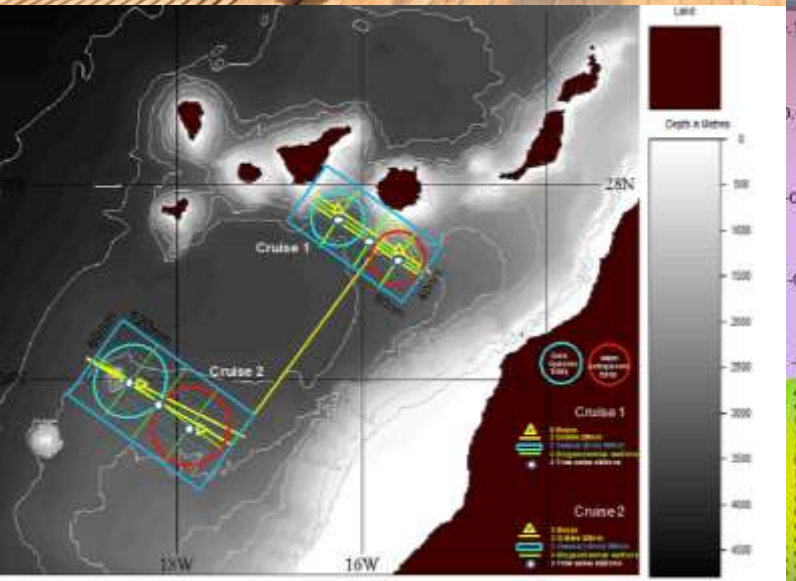
iFADO

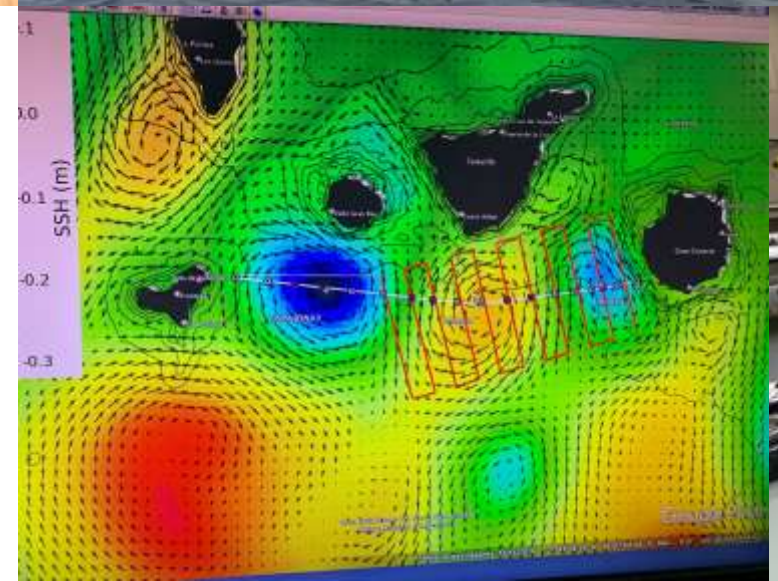

SEAGLIDER


64
SEAGLIDER

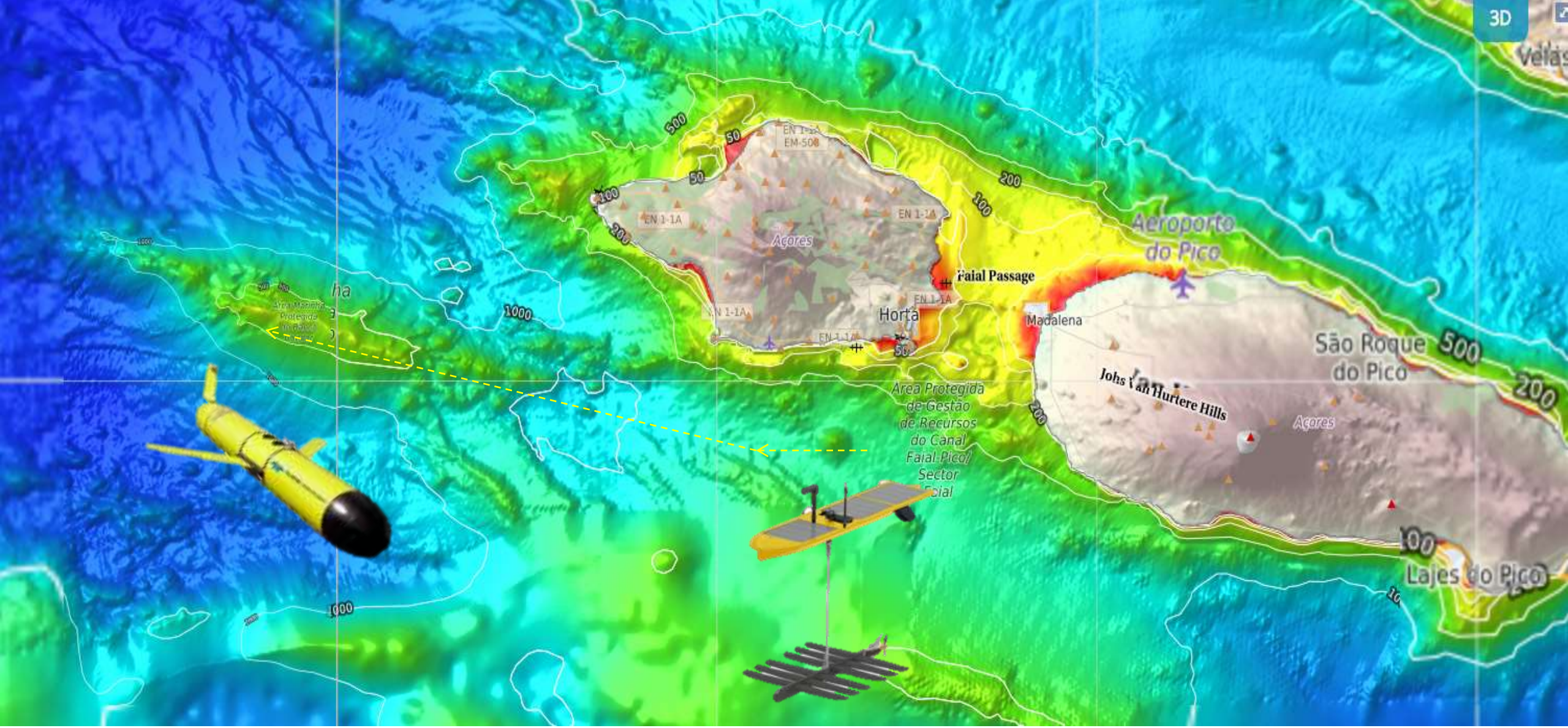

ULPGC
Universidad de
Las Palmas de
Gran Canaria
GEOMAR
Helmholtz-Zentrum für Ozeanforschung Kiel
e-impact


mio
Institut Méditerranéen
d'Océanologie
universität
wien


28N
Cruise 1
Cruise 2
Cruise 1
Cruise 2
18W
16W


SSH (m)


Keep
Clear



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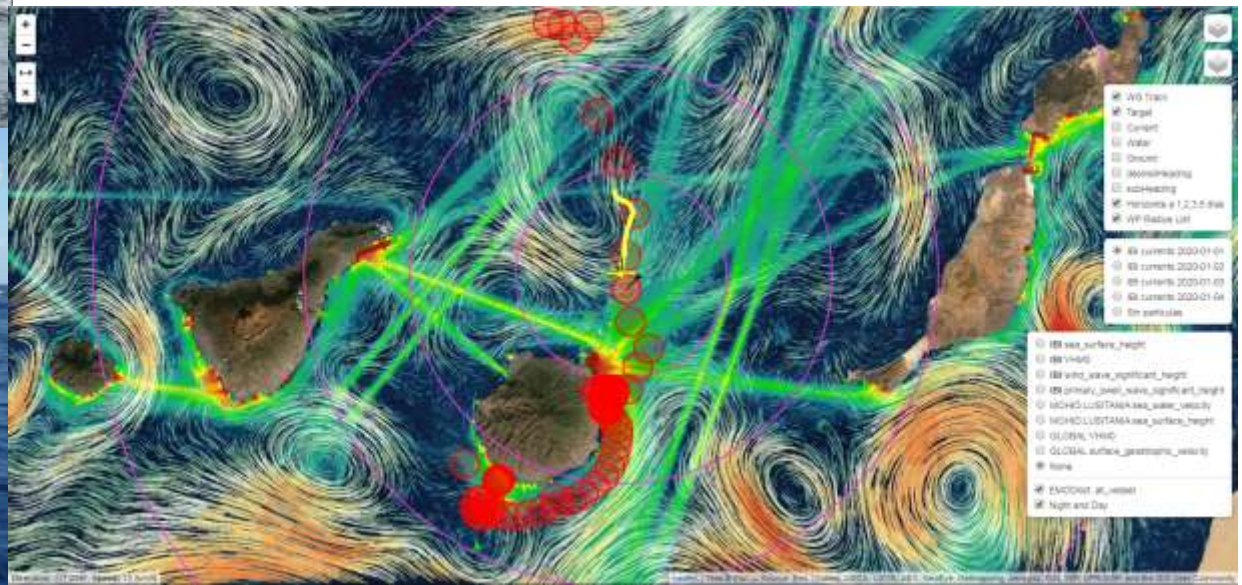
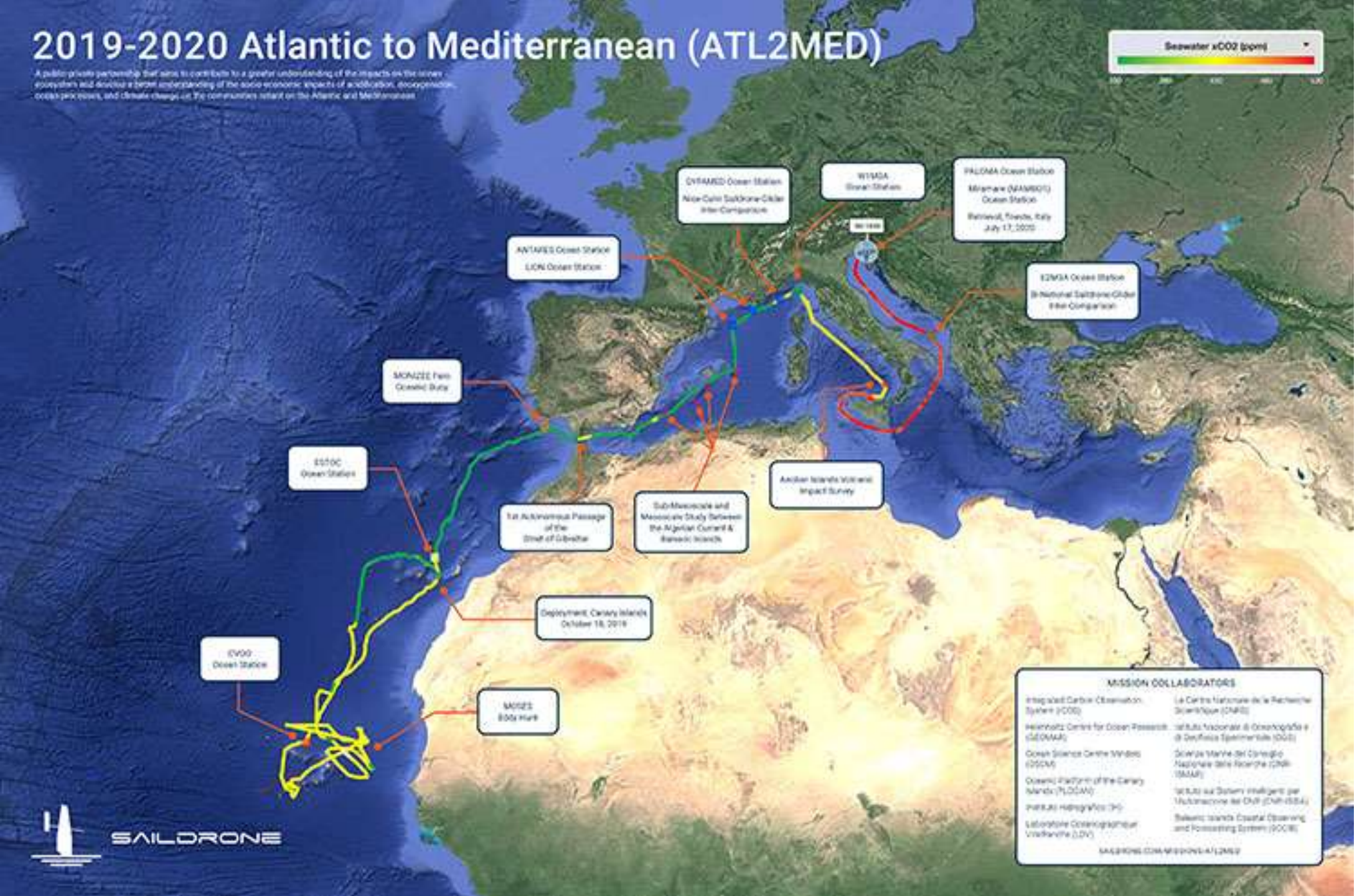




EuroSea

iFADO

EuroGOOS
European Global Ocean Observing System

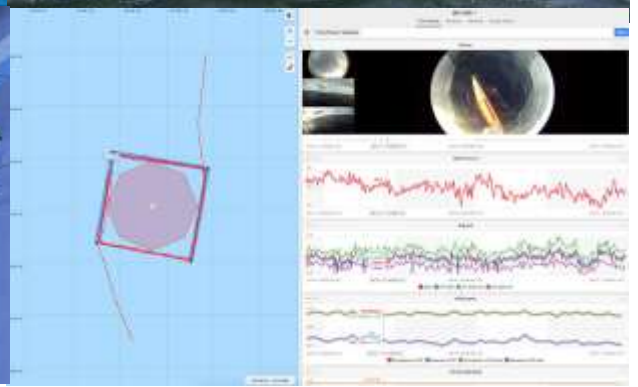
ICOS
INTEGRATED CARBON OBSERVATION SYSTEM

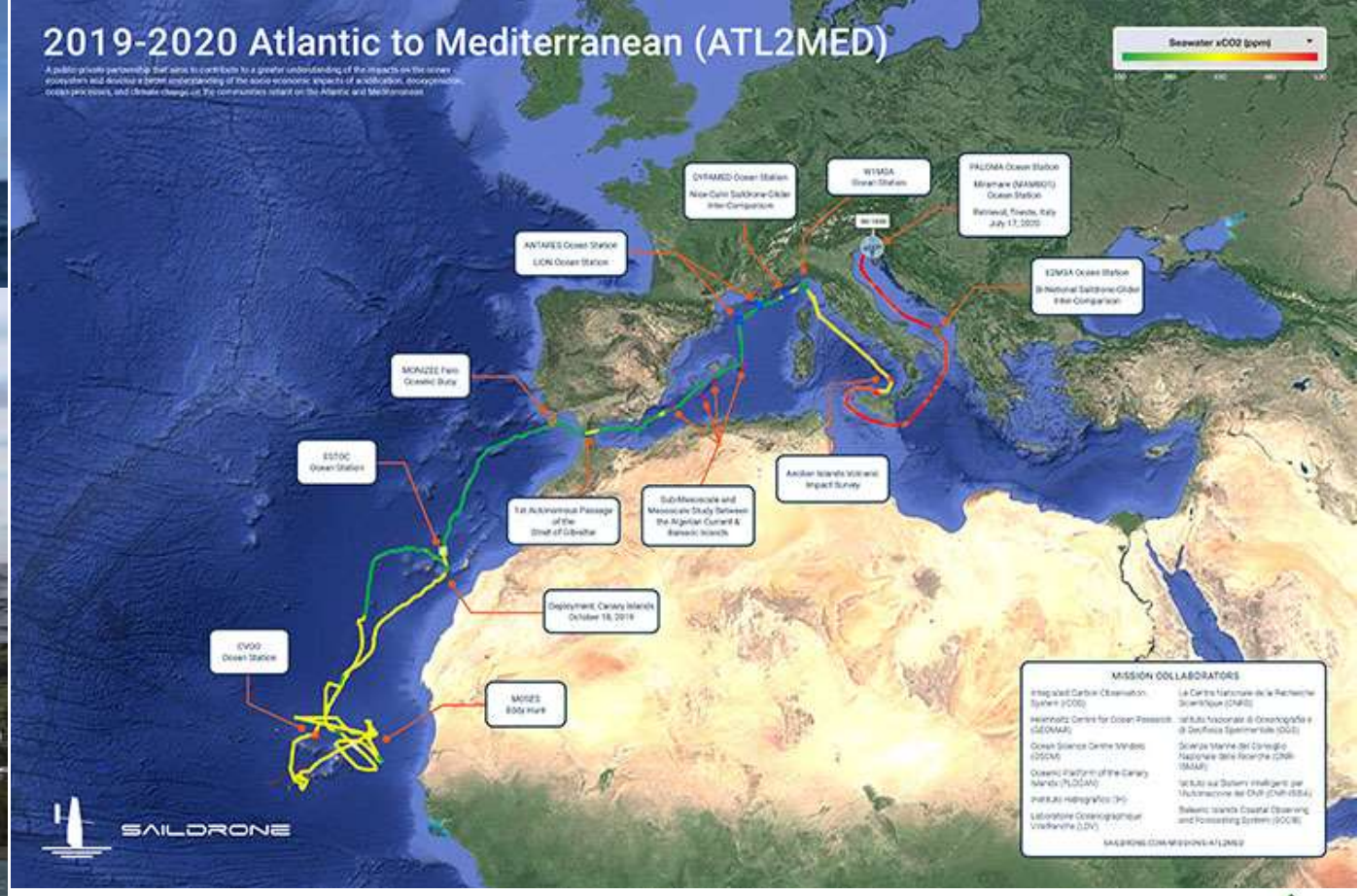
emso ERIC







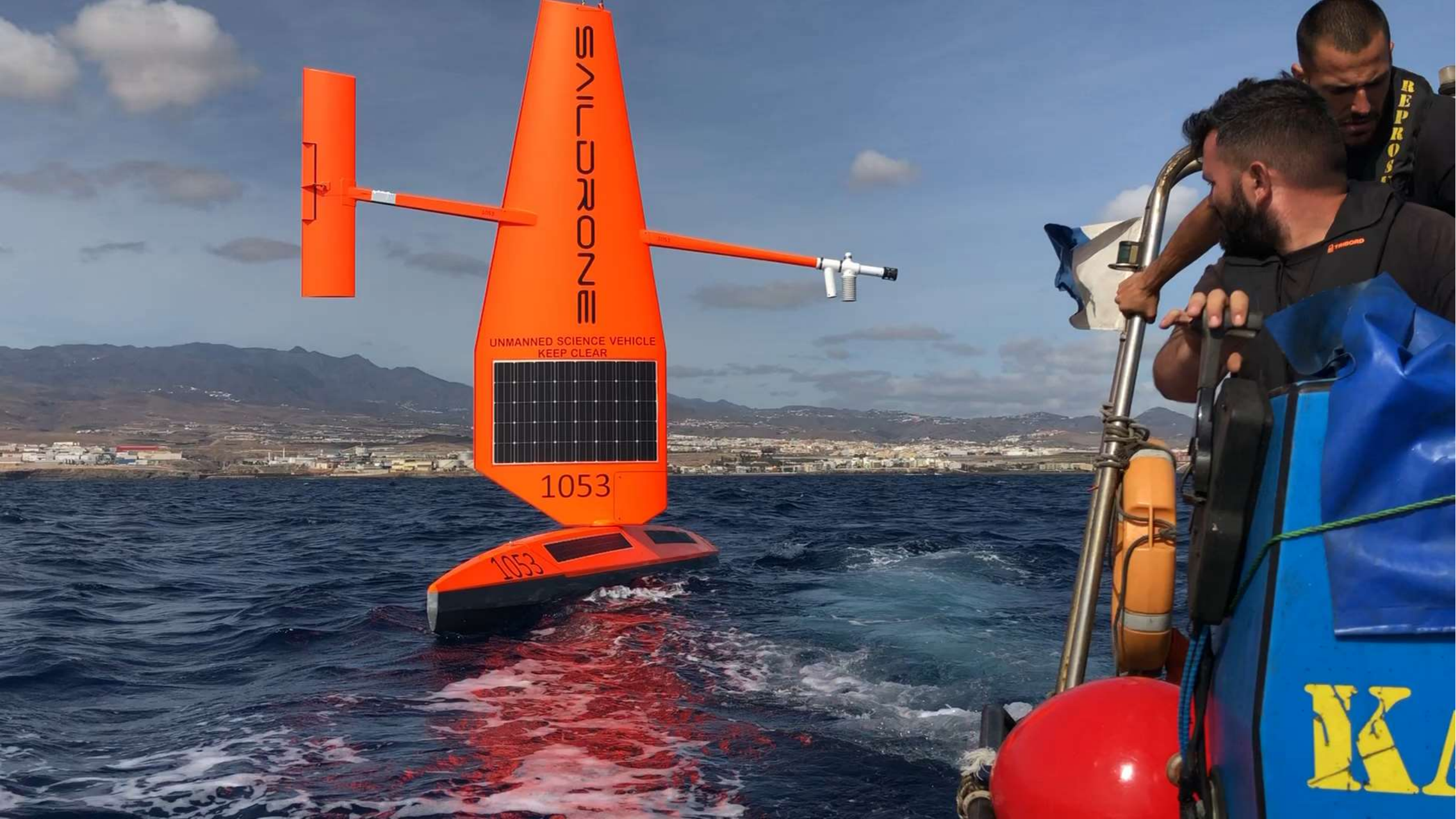





EuroSea
iFADO
SAILDRONE
EuroGOOS
European Global Ocean Observing System
ICOS
emso ERIC

2019-2020 ATL2MED Mission Stats

Mission duration	274 days (October 18, 2019 to July 17, 2020)
Distance sailed	15,015 nautical miles (27,810 kilometers or 17,280 miles) – both vehicles combined
Average vehicle speed	2–3 knots (average human walking pace)
Ocean stations visited	9
Data collected	Carbon, (pCO_2), acidity, current velocity & direction, wind speed & direction, relative humidity, barometric pressure, air & sea temperature, salinity, dissolved oxygen, chlorophyll, wave height & period, acoustic backscatter


SAILDRONE
UNMANNED SCIENCE VEHICLE
KEEP CLEAR
1053
1053


SAILDRONE
1053

EDUCATIONAL PASSAGES

PLOCAN consorcio PLATAFORMA OCEÁNICA DE CANARIAS

MINISTERIO DE CIENCIA, INNOVACIÓN Y UNIVERSIDADES

Gobierno de Canarias

MAPA EN TIEMPO REAL

¡SIGA LA RUTA DE NUESTROS BARCOS EN TIEMPO REAL!

Build. Launch. Learn.
EDUCATIONAL PASSAGES

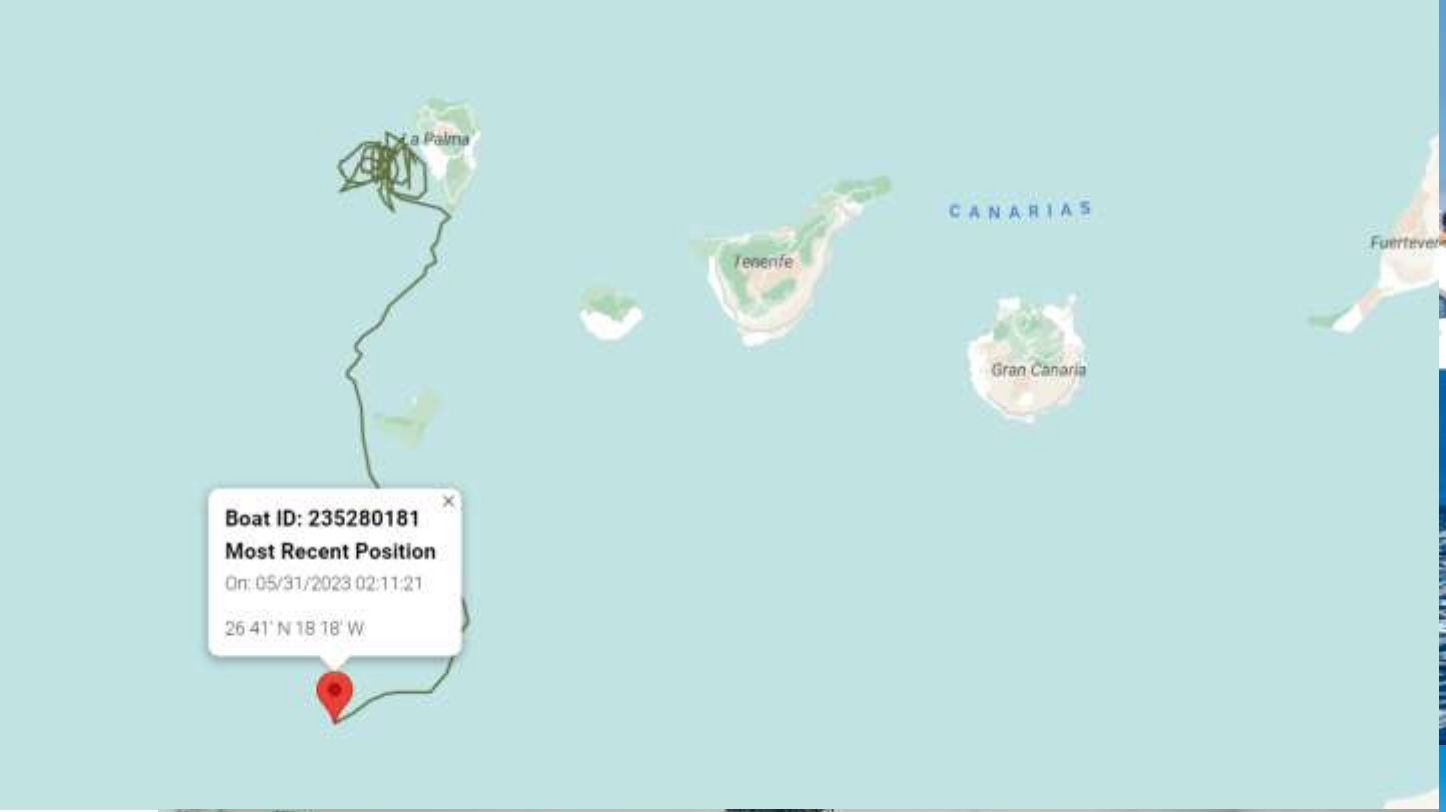
iFADO Project (Innovation in the Framework of the Atlantic Deep Ocean)

- Seoltóir Na Gaillimhe (Galway Sailor)
- KES Kraken
- TUGA da Costa Azul
- iFADO I
- iFADO II (buche salado)
- Korrigan
- iFADO III (buche salado II)
- iFADO IV (El Hierro – Mar, Salitre y Lava)

8 Miniboat projects
5 Countries
6 Secondary Schools
>300 students
230 days at sea

Interreg Atlantic Area
European Regional Development Fund

iFADO


La Palma
CANARIAS
Tenerife
Gran Canaria
Boat ID: 235280181
Most Recent Position
On: 05/31/2023 02:11:21
26 41' N 18 18' W


6ª TE-2-1-97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