

International Open Data Practices & DOORS Harmonisation Manual

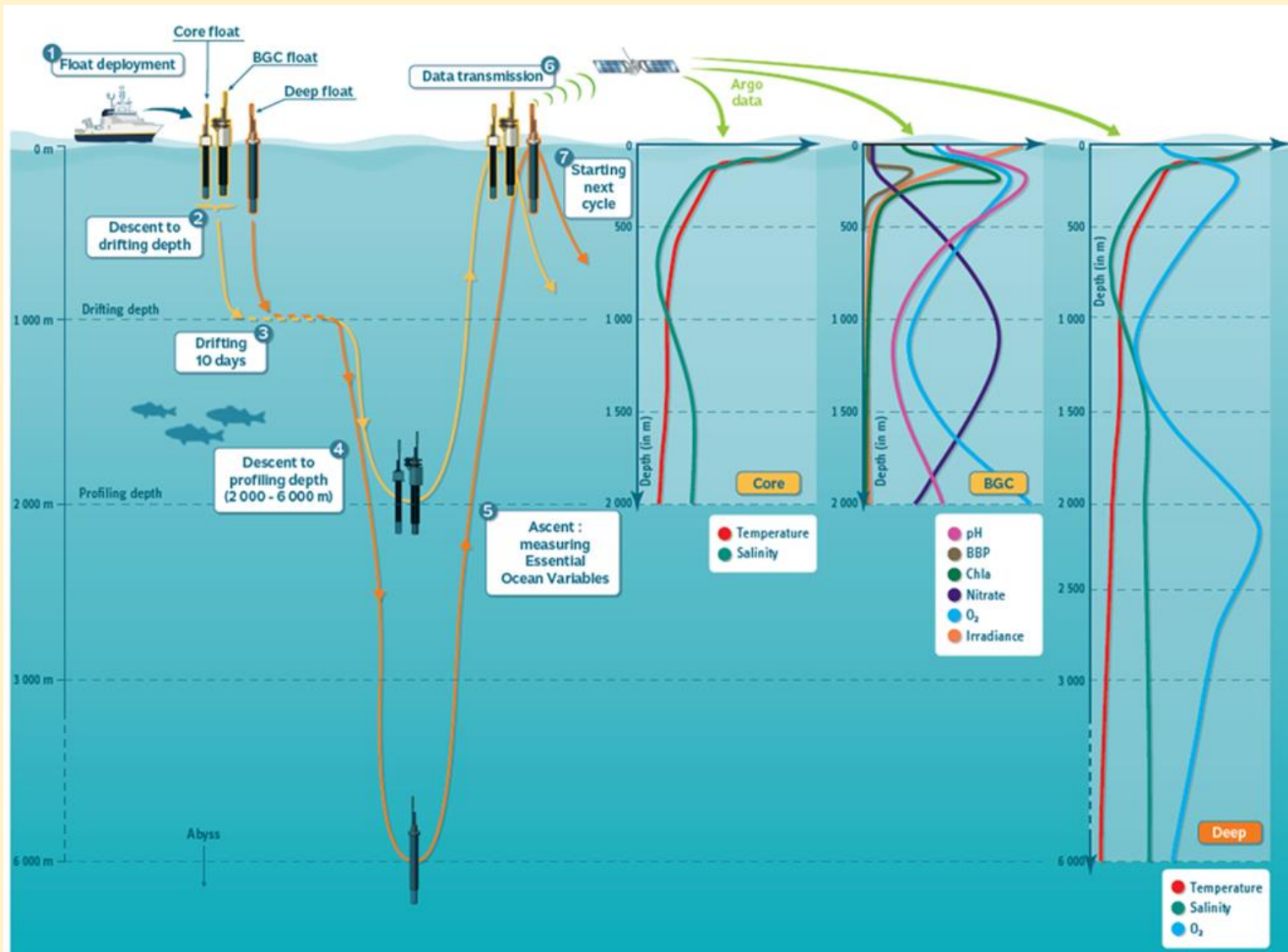
European Research Infrastructure services

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ARGO FLOAT: A FULLY AUTONOMOUS PLATFORM



12 HOURS max
transmission
to data centres
& Real Time
Quality control

~ 10 DAYS
full cycle

4 YEARS
float's life
time
expectancy

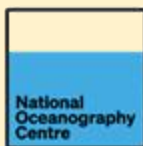


A DISTRIBUTED European Research Infrastructure Consortium



Euro-Argo ERIC partners

- Member
- Candidate



National Institute of Oceanography and Applied Geophysics



Consiglio Nazionale delle Ricerche



Instytut Geofizyki
Polskiej Akademii Nauk

Composed of
12 countries
and
1 candidate

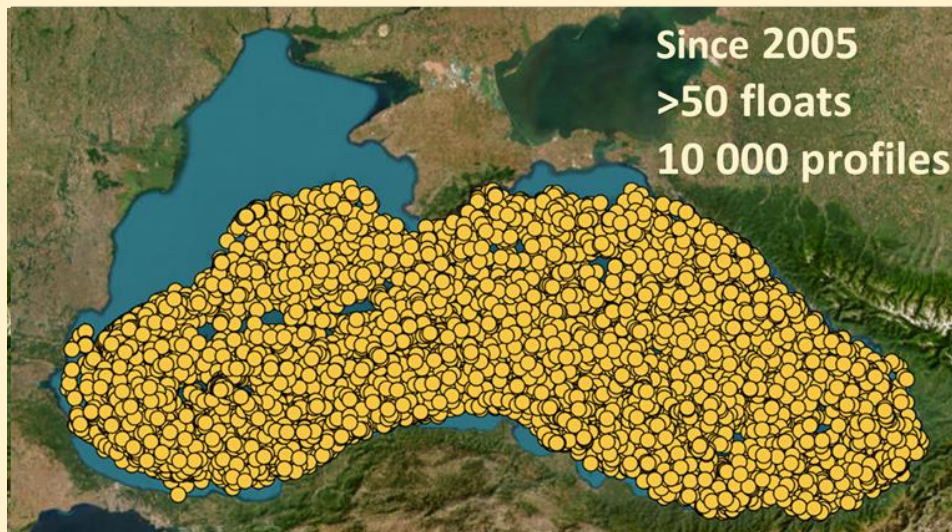
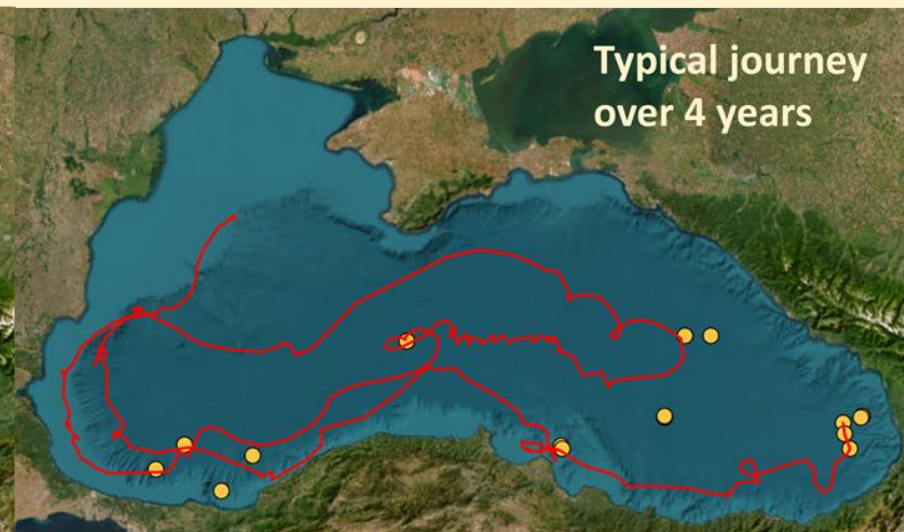
Office hosted
by Ifremer
(France)

30 entities

/ Technological and other developments through joint European projects /
Operations / Joint services & material / Outreach & policy making /



THE BLACK SEA ARGO FLEET



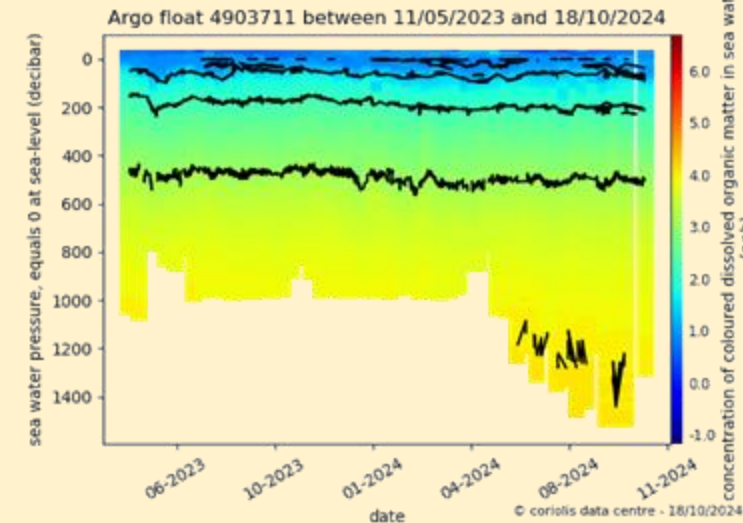
A significant contribution to the existing Black Sea Argo fleet

Nicknamed 'Dolphin' and 'Siren':

- equipped as quasi full BGC
- except pH (difficult measurements when low O₂)
- tank-test by Euro-Argo
- deployed in May 2023 by IO-BAS on RV Mare Nigrum



Section chart CDOM



- main anti-clockwise circulation
- high CDOM (coloured dissolved organic matter) content in the water column

Argo dataset architecture
(contains metadata and
data, raw and delayed
mode, indexes, ...)

General Data Assembly Center /
DAC /

coriolis/	aoml/	csiro/	...
6901758/	4903460/		
6901032/	5901732/		
6901580/	profiles/		
profiles/			

Direct Access

Daily
Copy

Monthly
Copy

Copy +
Additional
QC

Services

- 1) <ftp://ftp.ifremer.fr/ifremer/argo>
- 2) <https://data-argo.ifremer.fr/>

Service

- 3) Synchronisation by Rsync:
<http://www.argodatamgt.org/Access-to-data/Argo-GDAC-synchronization-service>

DAC sends Argo data to
GTS/WMO



S3 bucket on
Amazon Cloud
<https://argo-gdac-sandbox.s3.eu-west-3.amazonaws.com/pub/index.html#pub/dac/aoml/3902341/profiles/>

Seanoë DOI
[10.17882/42182](https://doi.org/10.17882/42182)

Latest Monthly Archive
[10.17882/42182#113868](https://doi.org/10.17882/42182#113868)

Within Aggregated
dataset in:

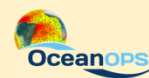
- Copernicus Marine Service
- Emodnet
- SeaDataNet
- World Ocean Database (WOD)

1) Web Services & API

- Fleet Monitoring
<https://fleetmonitoring.euro-argo.eu/swagger-ui.html#>
- Argo Data Selection
<https://dataselection.euro-argo.eu/swagger-ui.html#>
- ERDDAP
<https://erddap.ifremer.fr/erddap/tabledap/ArgoFloats.html>
- Thredds
<https://tds0.ifremer.fr/thredds/catalog/CORIOLIS-ARGO-GDAC-OBS/catalog.html>
- Argo SparQL EndPoint
<https://co.ifremer.fr/co/argo-linked-data/html/Argo-HTML-SPARQL/>
- Nerc Vocabulary Services
https://vocab.nerc.ac.uk/search_nvs/cvl/?searchstr=argo&options=governance

2) Library

- ArgoPy
<https://github.com/euroargodev/argopy>



OceanOPS AIC: WMO id attribution
and array high-level monitoring
<https://www.ocean-ops.org/board?t=argo>