

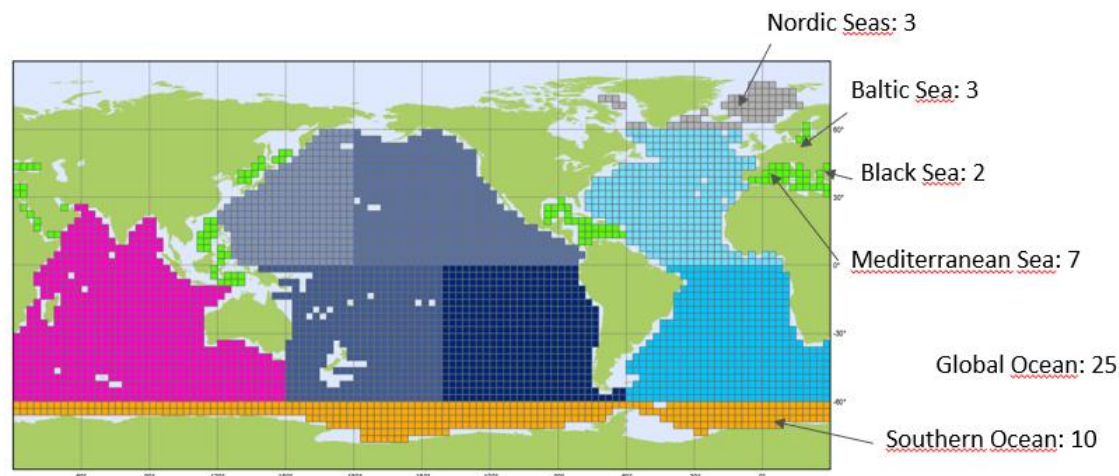


Euro-Argo BGC

BGC-Argo meeting – AST24

20 March 2023 - Halifax, Canada

- Euro-Argo aims to contribute to 1/4 of the global OneArgo network
 - Current (long-term) target for BGC-Argo:
 - ✓ Deployment of **50 BGC floats per year** (200 active floats)



Ref: [Strategy for evolution of Argo in Europe](#)

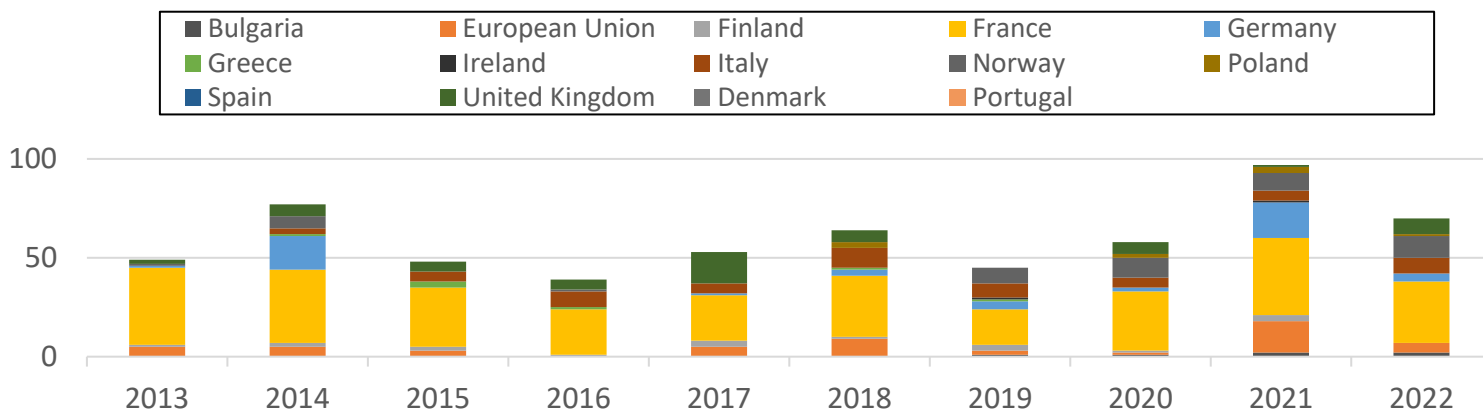
- ✓ ½ European Argo fleet equipped with Oxygen sensors: **76 [T/2/O₂] per year** in addition to the 50 BGC
- New European BGC-Argo strategy will be updated in 2023



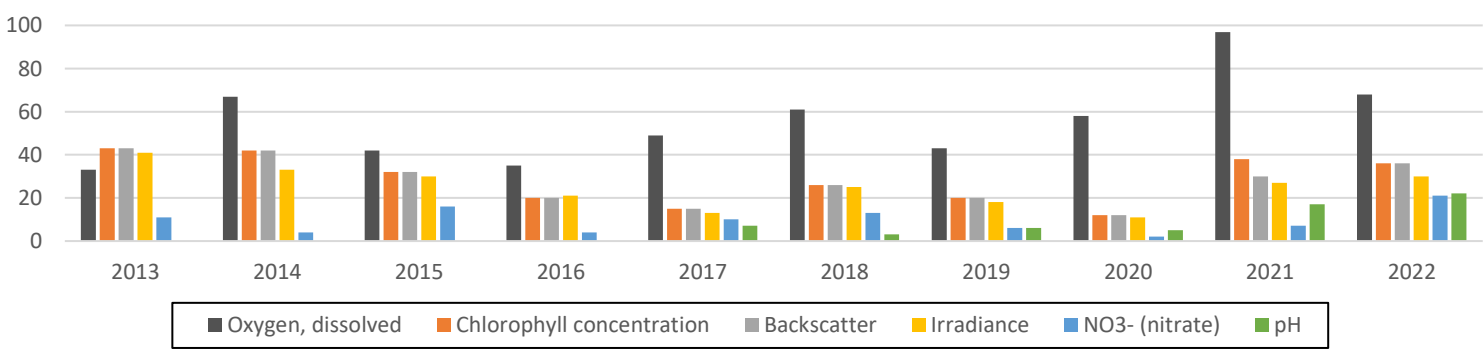
Euro-Argo deployments: 2022 & evolution

- 70 BGC floats deployed in 2022 by European partners (including EU-funded) with at least one BGC parameter:
 - 32 T/S/O₂
 - 38 measuring 2 or more variables

European Argo-BGC deployments - countries

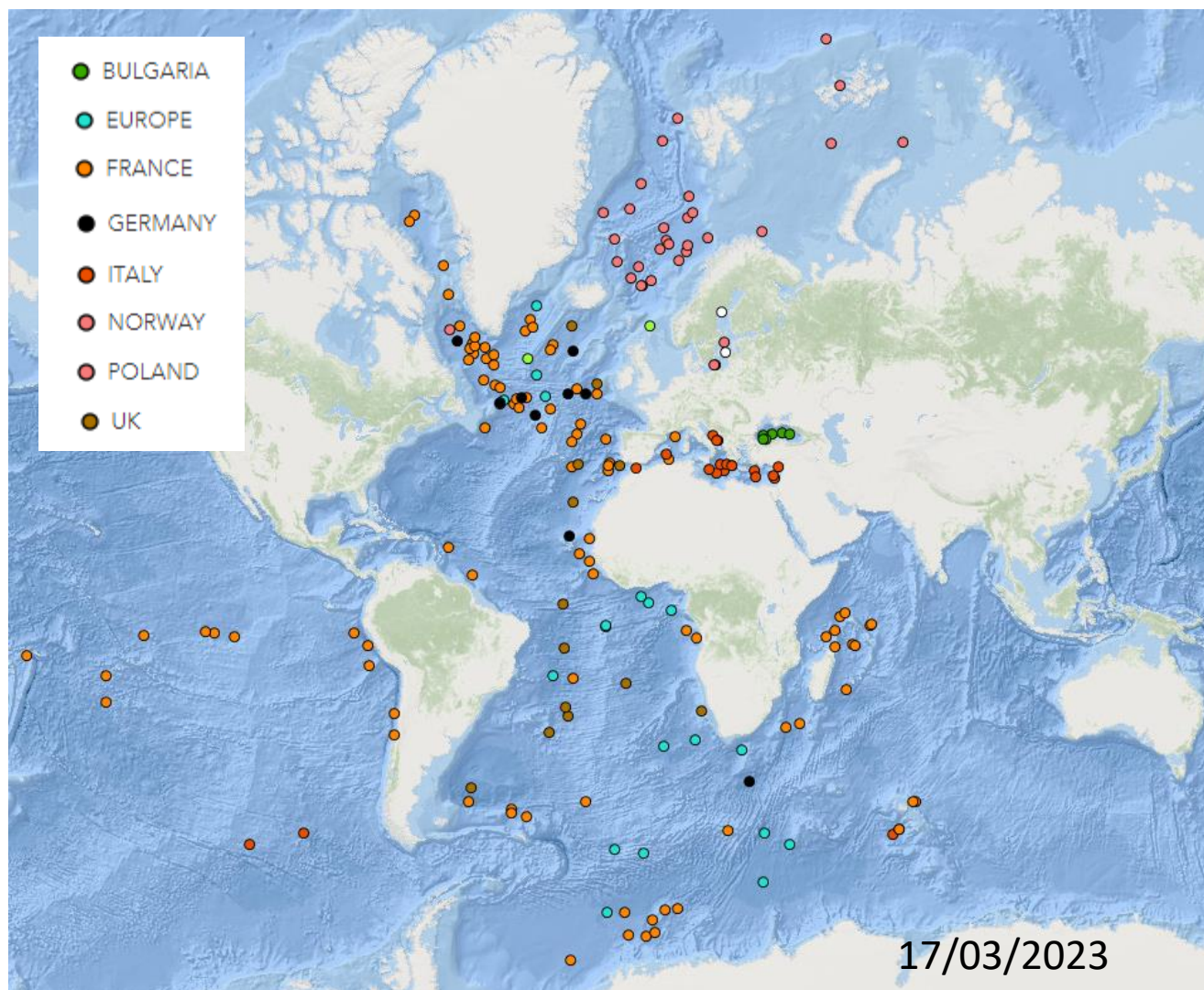


European Argo-BGC deployments - variables



- Decrease in 2022:
 - Mainly due to lower EU and German contributions & procurement issues
- Increased number of full BGC: **16**
- Increase number of floats with Nitrate & pH sensors
- Still high number of O₂ only floats:
 - Core + O₂ (16)
 - Deep + O₂ (16)

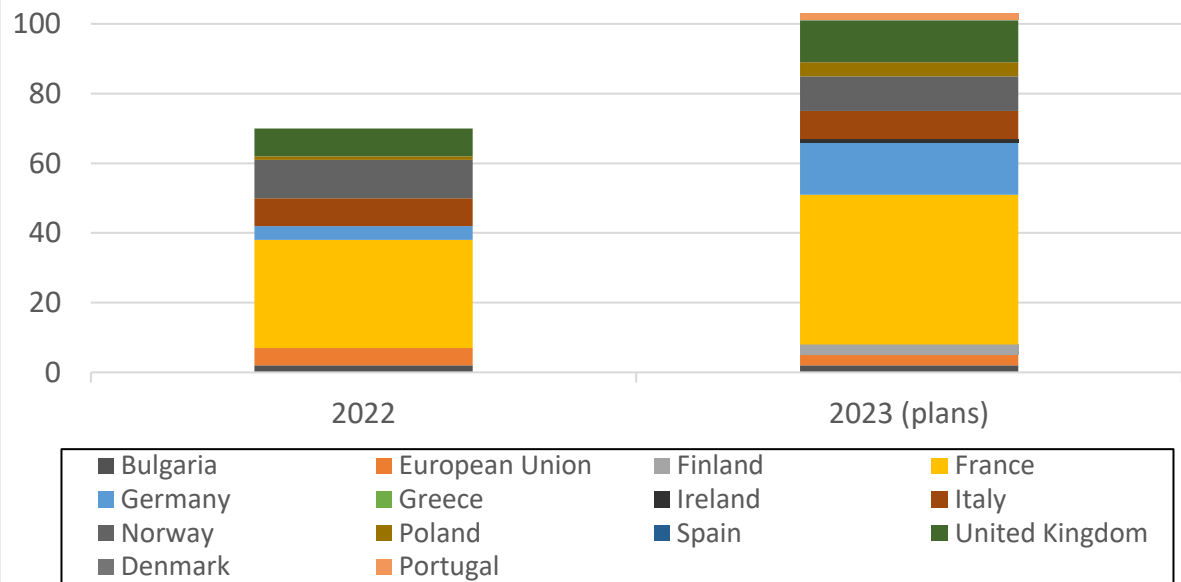
European active BGC floats (last position), by **country**



- **197 active** EU BGC floats (195 last year)
 - **71** with ≥ 2 var
 - **126** T-S-O2

European deployment plans for 2023

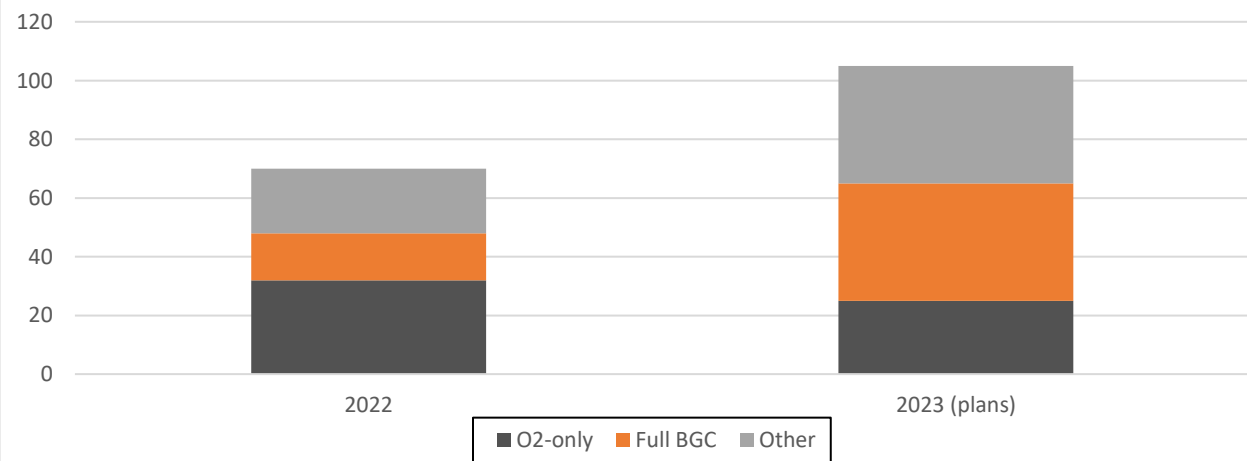
European Argo-BGC deployments



- Increase compared to 2022:
 - Mainly from France & Germany
 - New contribution from Portugal
 - Back-up from 2022 plans (delayed)

- Increase of floats measuring at least 2 parameters (38 -> 80)

- **40 full-BGC (6 param)** to be deployed in 2023



- Activities at European level:
 - Organization of Argo-BGC data management at European level – a decision should be taken in 2023
 - GEORGE project [2023-2026]: Sensor developments (pCO₂) and integration, in collaboration with other EU Research Infrastructures
 - DOORS EU project [2021-2025]: **2 BGC floats** in the Black Sea, possibilities to involve new partners (Romania, Turkey) – dependent on the political situation
 - European funding for BGC-Argo:
 - ✓ Lobbying towards the European Commission, in the prospect of a potential “MOCCA-2” (MOCCA [2015-2020]: 150 T/S floats EU-funded) focused on BGC & Deep extensions
 - ✓ Discussions planned with the operational community (Copernicus)