

WHOI Argo

2022 Deployment Plans

Pelle Robbins

probbins@whoi.edu

Version: Mar 3, 2022

Cruises in Preparation

STRATUS

Marion Island resupply

Appendices:

[Table 1: WHOI Argo deployments completed Jan 1, 2021 - Feb 22, 2022](#)

[Map 1: Argo Atlantic deployments Jan 1, 2021 - Feb 22, 2022](#)

[Map 2: Atlantic Basin: Argo coverage Before/After deployment period](#)

[Map 3: Location of active Argo Platforms](#)

[Map 4: Global CORE Argo nominal coverage](#)

[Map 5: Global BGC Argo nominal coverage](#)

[Map 6: Global DEEP Argo nominal coverage](#)

Cruises in Preparation

Cruise	Ship	Departs	Shipping	Inventory
STRATUS	<i>Cabo de Hornos</i>	Valparaiso Mar 17, 2022	Shipped in UOP container	3 S2a 2 Alto
Marion Island	<i>SA Agulhas II</i>	Cape Town Apr 12, 2022	Air freight to J&D	6-8 core (4-5 UW BGC)
Irminger Sea	<i>RV Neil Armstrong</i>	Woods Hole Jun 15, 2022	Load at WHOI dock	4 Alto (Foukal) 1 Apex (Schneehorst) 2 WHOI BGC?
Gough Island	<i>SA Agulhas II</i>	Cape Town <i>September</i>	Air freight to J&D	6-8 core
Gulf of Mexico	<i>RV Pelican</i>	Cocodrie <i>October</i>	TBD	8 S2A (UGOS)
SANAE	<i>SA Agulhas II</i>	Cape Town <i>December</i>	Air freight to J&D	6-12 core
RoCS 2022	TBD	Newark	TBD	Up to 8 core

Other cruises in exploratory planning:

Atlantic Meridional Transect (AMT), southbound departs UK Nov (Andy Rees, Dall'Olmo)
 TFO-NESMA, Western Atlantic departing WHOI, 2022-2024 (YT Lin and John Colosi)
 Deep Madagascar Basin Experiment, date TBD. (Viviane Menezes, Heather Furey)
 GO-SHIP A16N, TBD
 NOAA VOS Atlantic, TBD

STRATUS

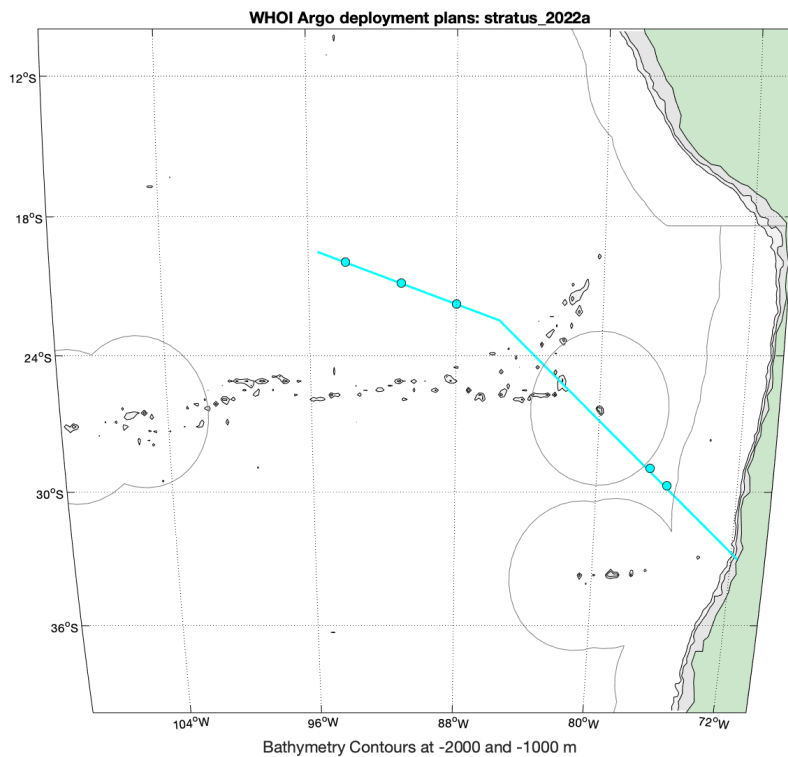
Mooring turn-around cruise on Chilean vessel *Cabe De Hornos* departing Valparaiso Mar 17 2022.

Contacts: Sebastien Bigorre (sbigorre@whoi.edu),
Emerson Hasbroucke (hasbrouck@whoi.edu)

5 floats shipped, serial numbers: 7702, 7705, 7707, 11148, 11150

Tentative Locations

01 Stratus 2022	29° 42'S	76° 0'W
02 Stratus 2022	28° 57'S	77° 0'W
03 Stratus 2022	21° 45'S	88° 0'W
04 Stratus 2022	20° 51'S	91° 0'W
05 Stratus 2022	19° 57'S	94° 0'W



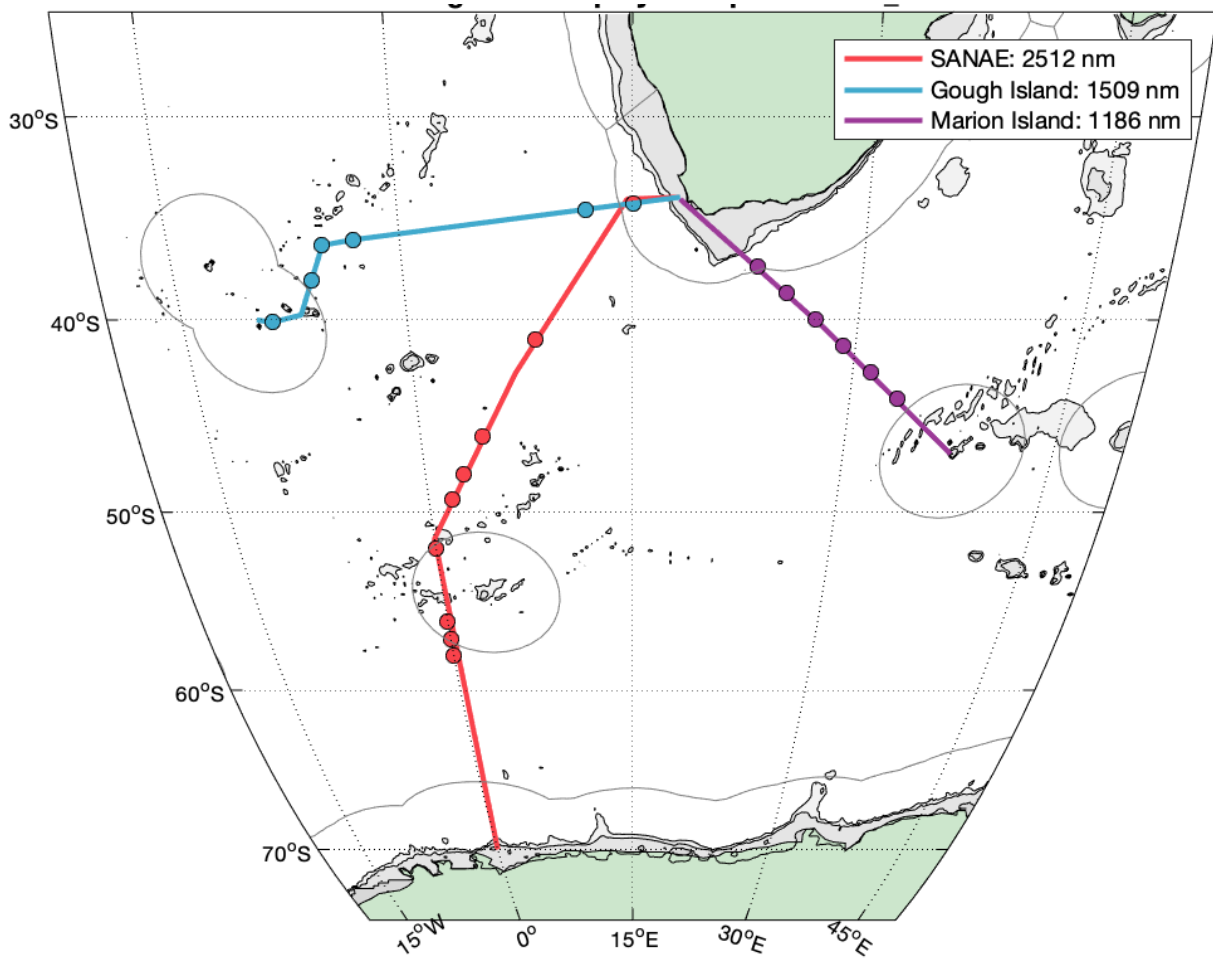
WHOI Argo:11-Feb-2022

Marion Island resupply

Ship: *S. A. Agulhas II*

Contact: Tamaryn Morris, Tamaryn.Morris@weathersa.co.za

South Africa annual resupply cruises	Departs	Inventory
Marion Island	Cape Town, Apr 12, 2022	6-8 WHOI Core 4-5 UW BGC Exact deployment locations TBD when final inventory is known.
Gough Island	September	WHOI participation intended
SANAE	December	WHOI participation intended



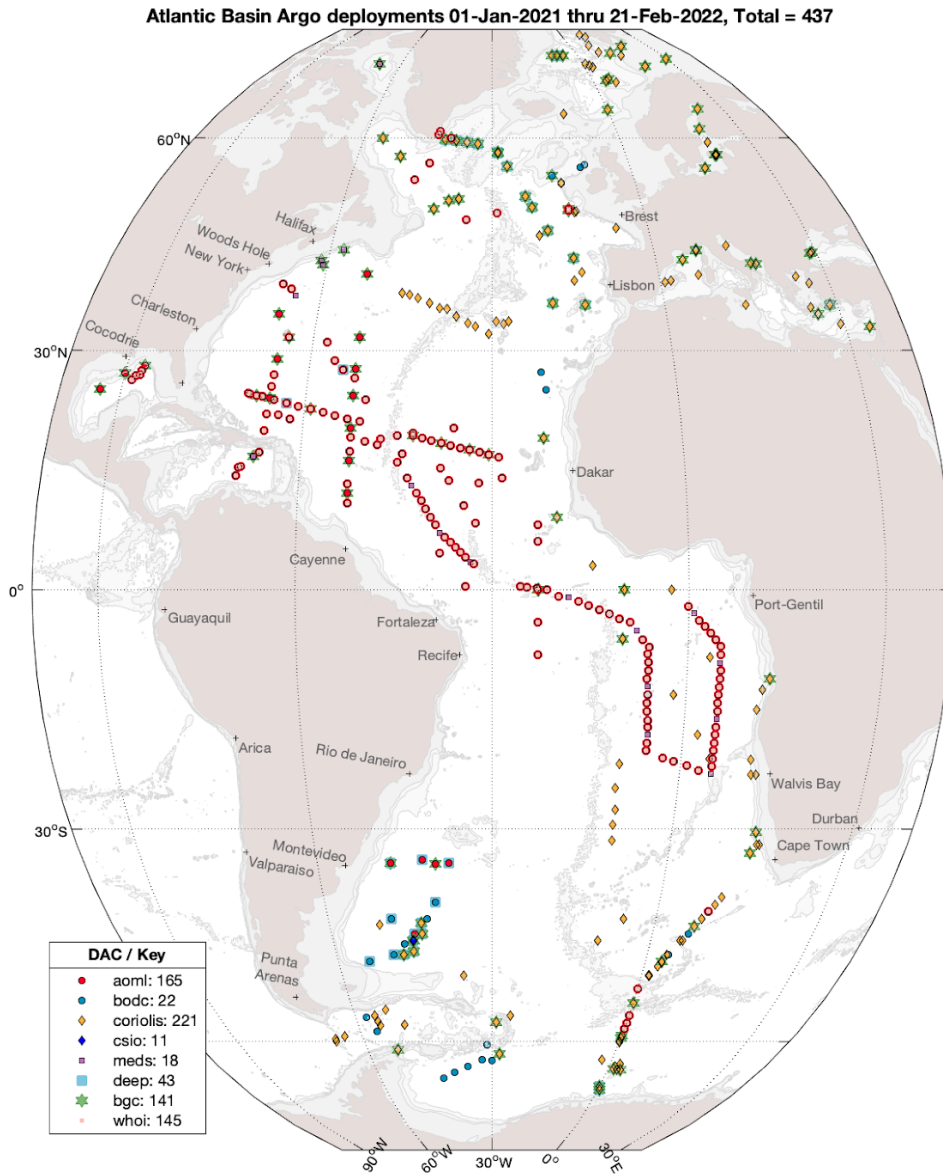
Appendices:

Table 1: WHOI Argo deployments completed Jan 1, 2021 - Feb 22, 2022

Cruise	Vessel	Platform Type, TOTAL = 151			
		S2A	ALTO	Deep SOLO	NAVIS BGC
SANAE Jan-Mar 2021	<i>SA Agulhas II</i>	8	-	-	-
PNE Jan-Feb 2021	<i>NOAAS R. Brown</i>	12	-	-	-
GO-SHIP A20 Apr 2021	<i>RV T. Thompson</i>	7	-	-	-
GO-SHIP A22 Apr-May 2021	<i>RV T. Thompson</i>	8	-	-	-
Exports May 2021	<i>RRS Discovery</i>	-	-	-	2
UGOS May 2021	<i>RV Pelican</i>	4	-	-	-
RoCS 2021A May 2021	<i>MV Tijuca</i>	2	-	-	-
Irminger Sea Aug 2021	<i>RV N. Armstrong</i>	-	6	-	1
PNE Nov-Dec 2021	<i>NOAAS R. Brown</i>	11	-		
Go-SHIP A13.5 Jan 2022	<i>NOAAS R. Brown</i>	15		1	6
Blue Observer Dec 21-Jan 22	<i>S/V Iris</i>	62	3	1	-
BATS 389 Jan 2022	<i>RV Atlantic Explorer</i>	-	-	-	2
TOTAL	12 cruises, 9 vessels	129	9	2	11

Map 1: Argo Atlantic deployments Jan 1, 2021 - Feb 22, 2022

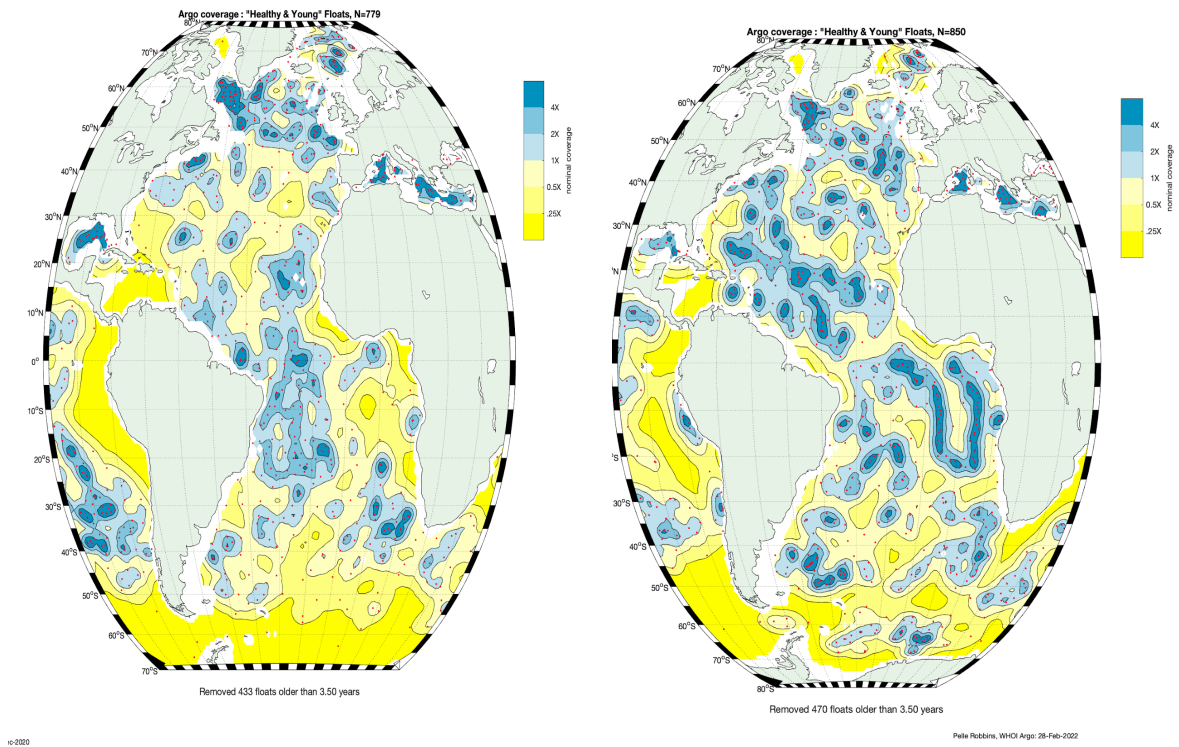
Floats deployed by all contributors to the International Argo Program



Pelle Robbins, WHOI Argo: 01-Mar-2022

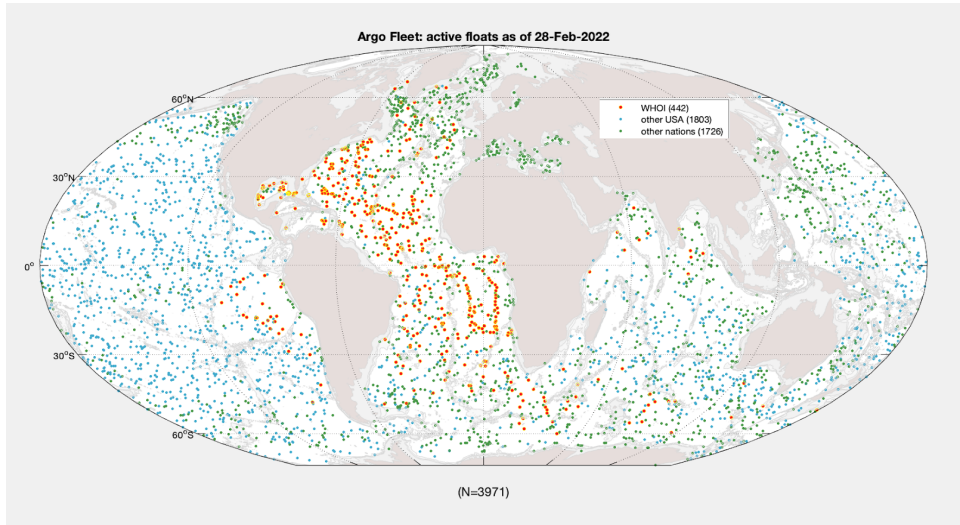
More basins and years at <http://argo.whoi.edu/argo/maps/deployment/>

Map 2: Atlantic Basin: Argo coverage Before/After deployment period

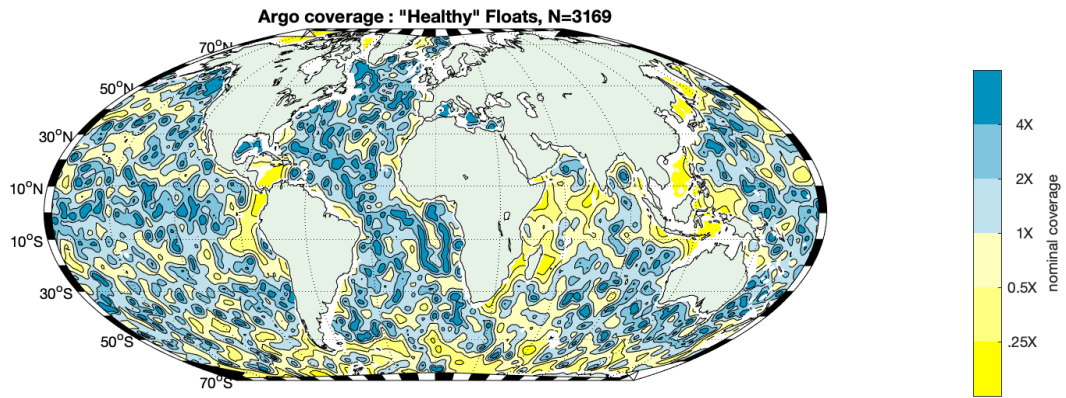


Healthy & Young floats. Left side: BEFORE (Dec 1, 2020), Right Side: AFTER (Feb 21, 2022)

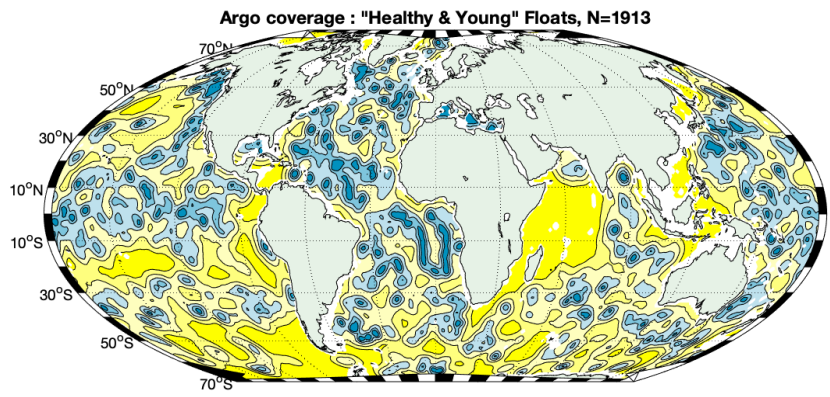
Map 3: Location of active Argo Platforms



Map 4: Global CORE Argo nominal coverage



Removed 631 greylist floats (QC 3,4) and 158 shallow floats (profiling less than 1200 dbar)

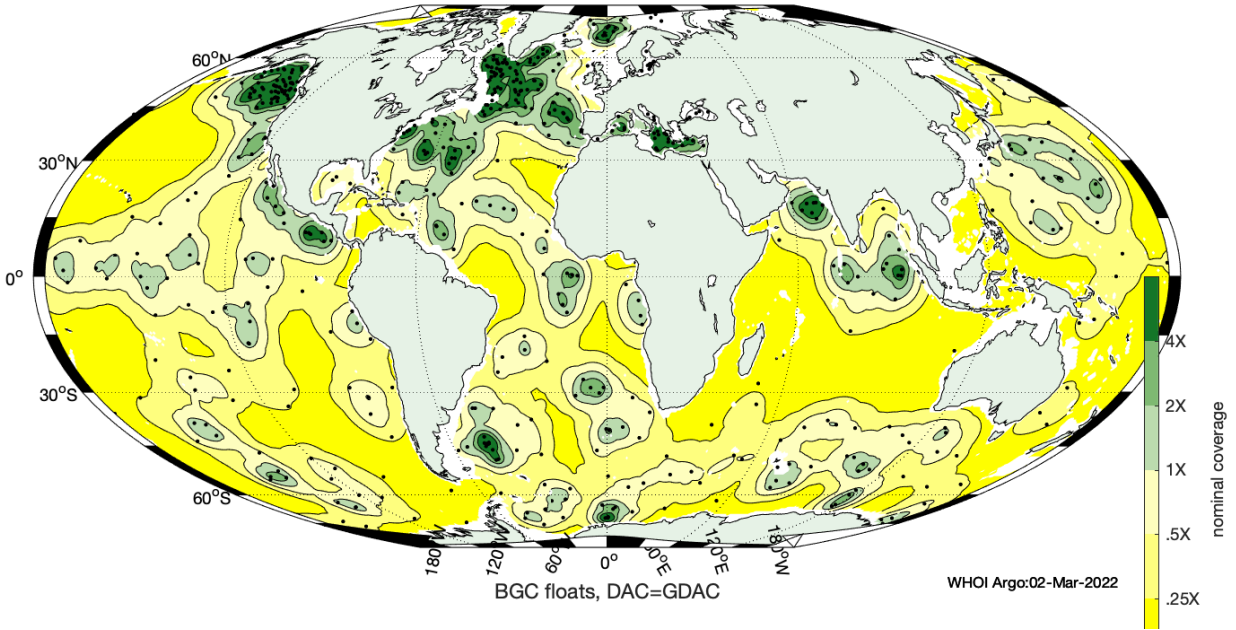


Removed 1256 floats older than 3.50 years

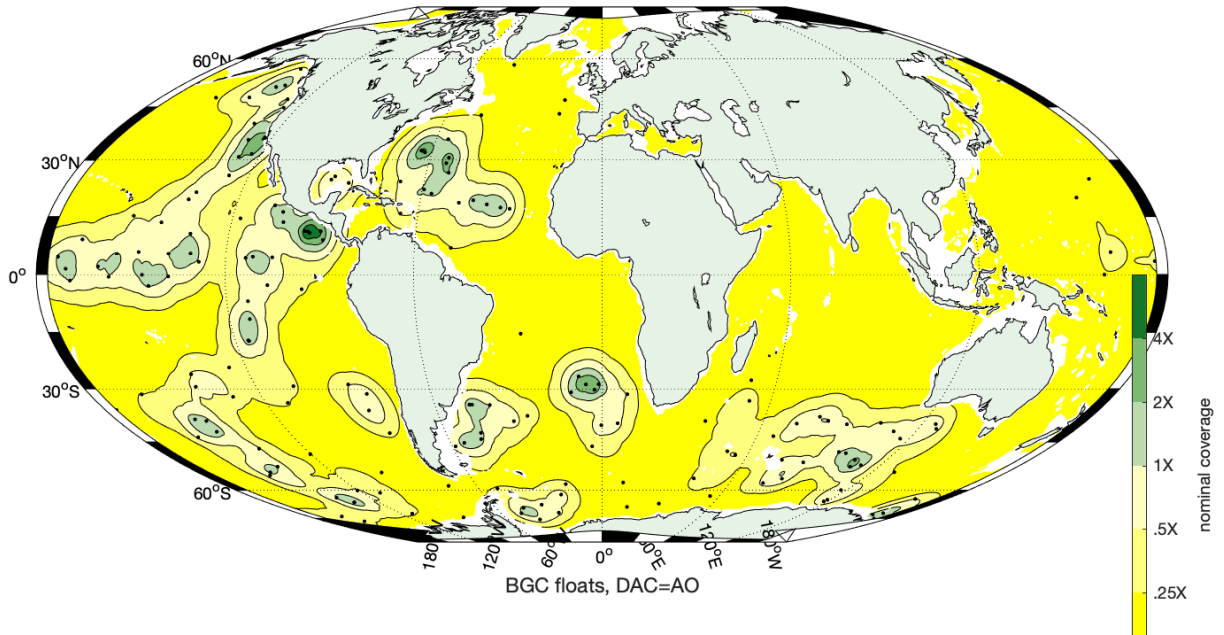
Note: growing dire need in Western Indian, SE Pacific, and Southern Ocean
More coverage maps at <http://argo.who.edu/argo/maps/sparse/>

Map 5: Global BGC Argo nominal coverage

Active BGC floats (WMO No. listed in file argo_bio-profile_index.txt at the GDAC)

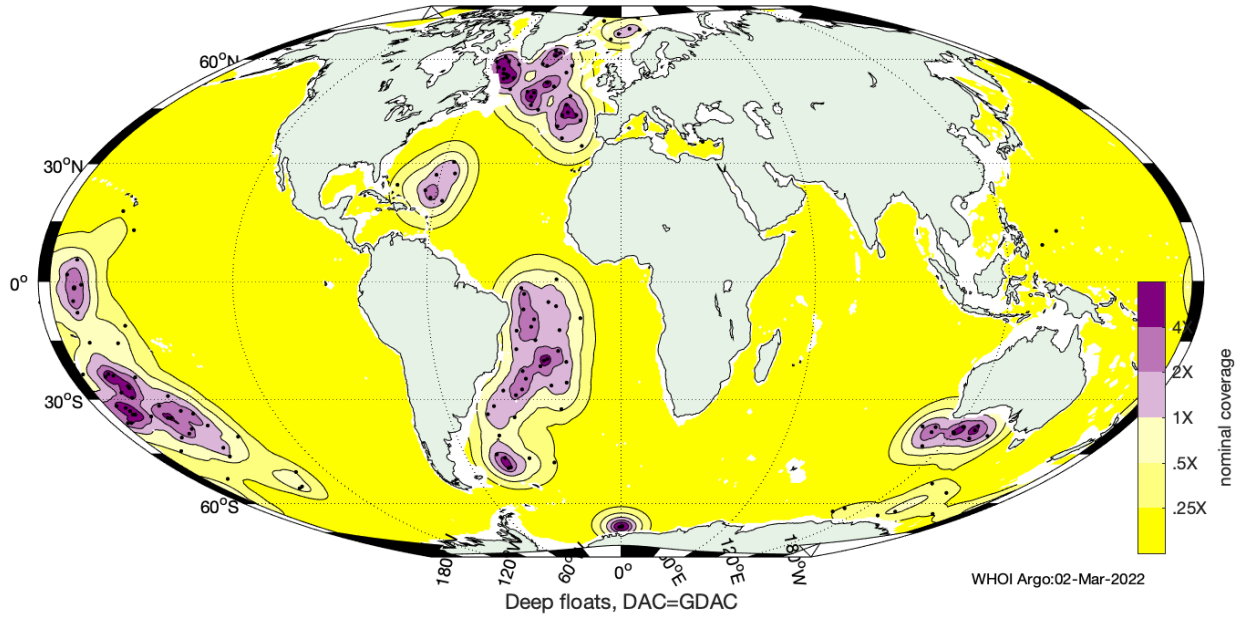


Active BGC floats submitted via AOML DAC (USA component)



Map 6: Global DEEP Argo nominal coverage

Active Deep floats (WMO instrument types: 838, 859, 862, 864, 874)



Active Deep floats submitted via AOML DAC (USA component)

