

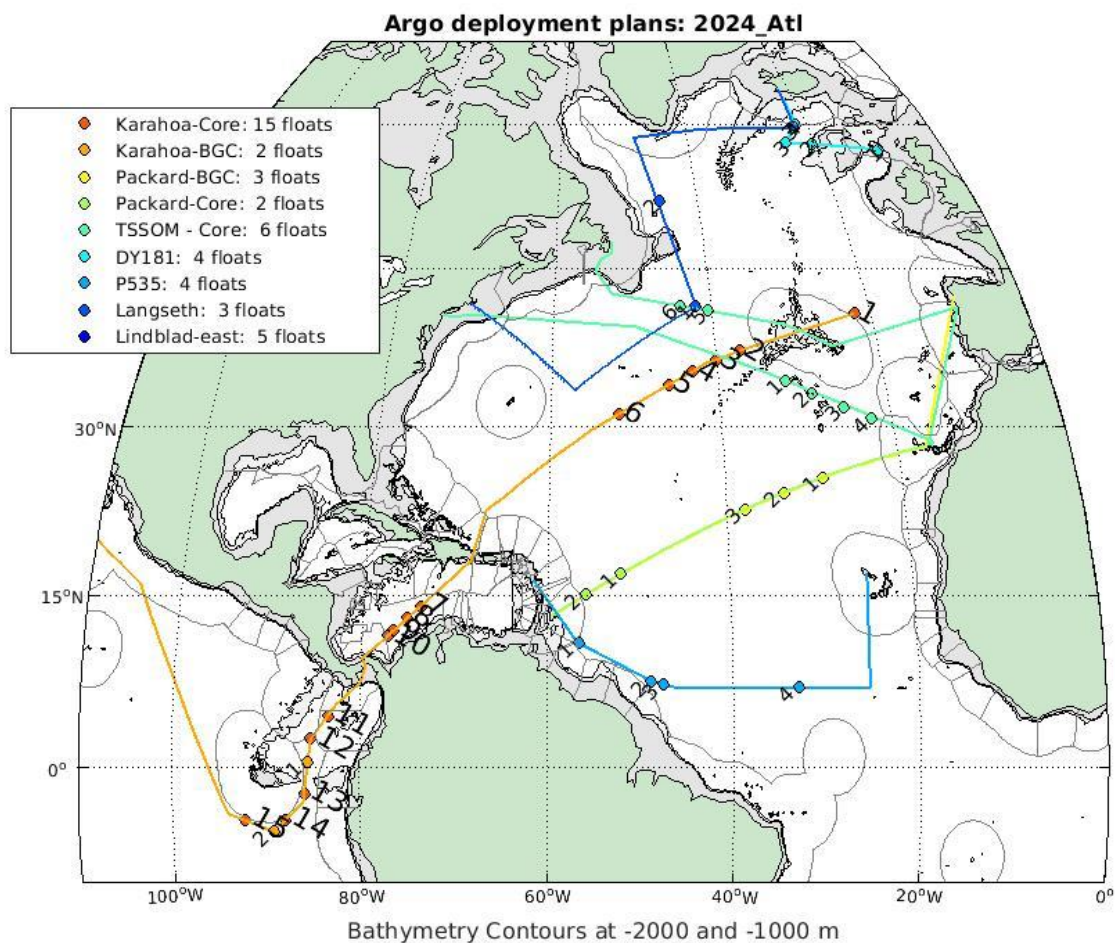
# OneArgo Deployment Plan

## April 29, 2024

Updated: 5/24/2024

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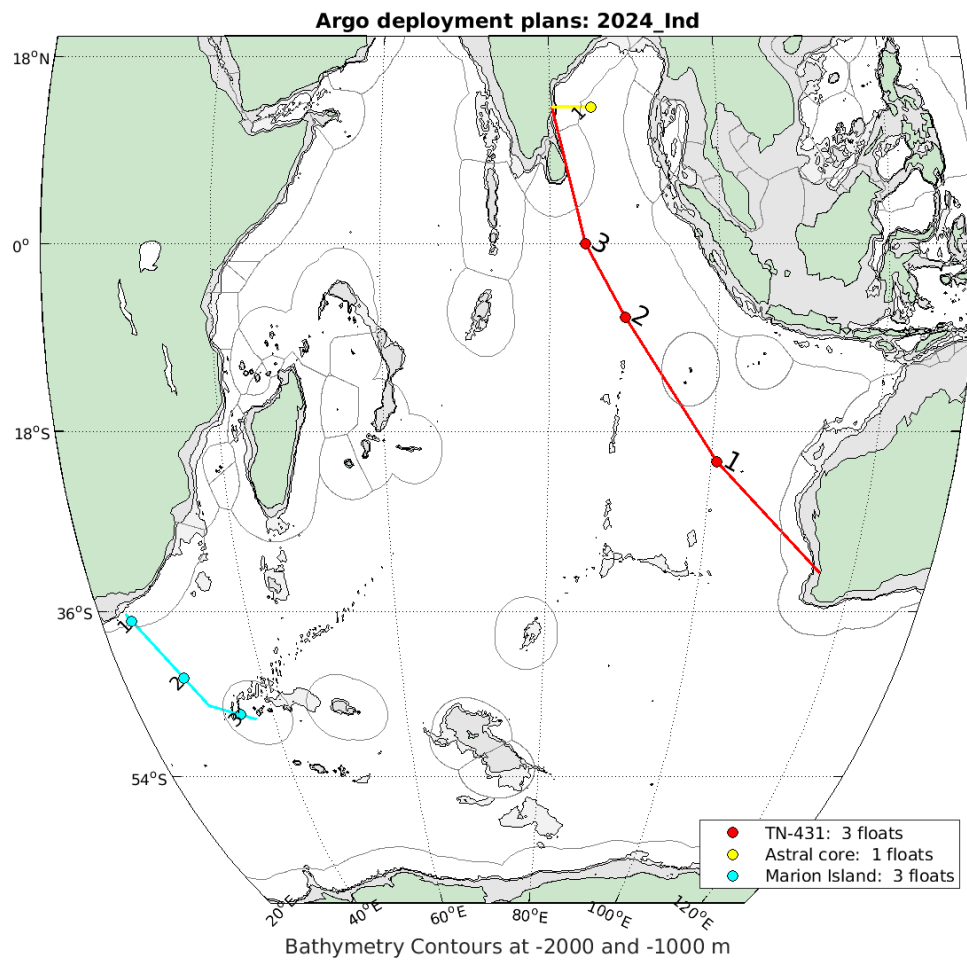
Atlantic Ocean



WHOI Argo:24-May-2024

Core : 27  
BGC : 12  
Deep : 0

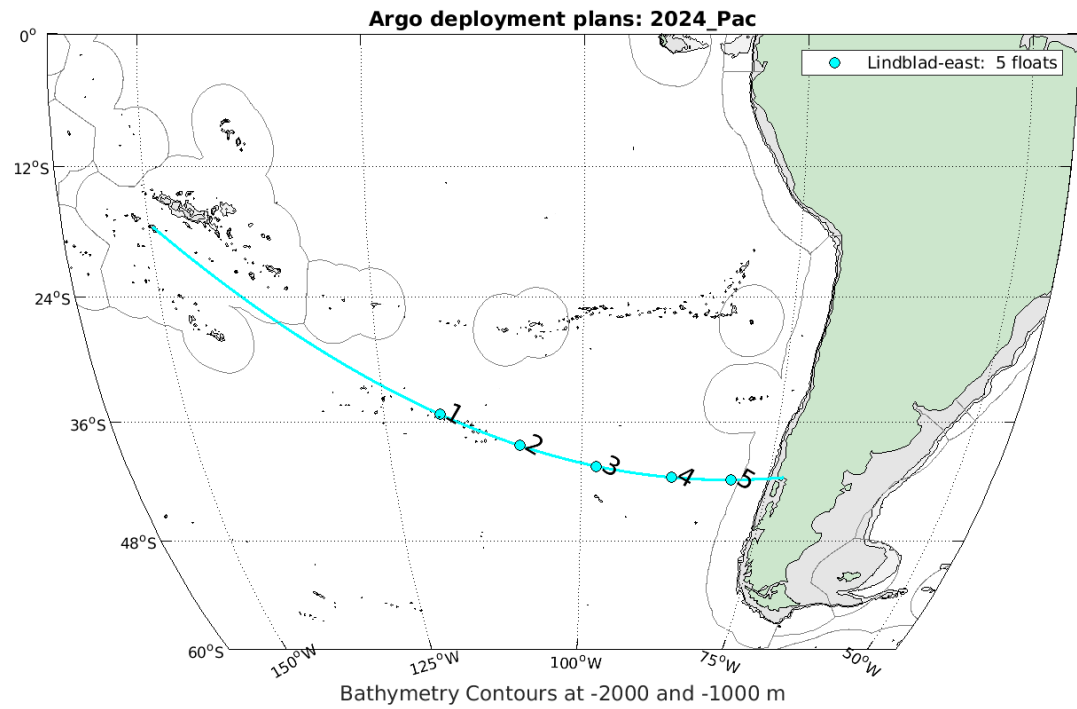
Indian/Southern Ocean



WHOI Argo:18-Apr-2024

Core : 7  
BGC : 0  
Deep: 0

Pacific Ocean



WHOI Argo:09-May-2024

Core : 0  
BGC : 5  
Deep: 0

## In Motion

- R/V Kaharoa – Delivery Cruise 2024
- R/V Packard – Delivery Cruise 2024
- R/V Thompson – Astral Cruise 2024
- TS State of Maine – Training Cruise 2024
- R/V Discovery – DY181
- R/V Pelagia – P535
- CGC Healy -
- R/V Langseth – Porewater
- National Geographic Resolution – Lindblad Expeditions Reset cruise

## Completed

- R/V Thompson – TN-431 Transit Cruise 2024
- R/V S.A. Agulhas II – Marian Island Cruise 2024

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## Float Inventory

Total: 52      Core: 35      BGC: 17      Deep: 0

*Loaded in Vigo, Spain on the R/V Kaharoa II for the Delivery cruise:*

15 WHOI MRV S2a Core float:

Serial numbers: 7480, 7490, 7522, 7597, 7699, 7713, 7732, 7734, 7746, 7747, 7774, 7826, 7827, 7828, 7875

2 WHOI Navis BGC floats:

Serial numbers: 1529, 1556

*To be loaded in Vigo, Spain on the R/V Packard for the Transit Cruise:*

2 WHOI MRV Alto-RBR Core floats:

Serial numbers: 11336, 11337

3 WHOI Navis BGC floats:

Serial numbers: wn1539, wn1540, wn1541

*Loaded in Castine, Maine on the T/S State of Maine for the 2024 Training cruise:*

6 WHOI MRV S2a Core floats:

Serial numbers: 7893, 7894, 7901, 7904, 7905, 7906

*To be loaded in Southampton, England on the R/V Discovery for the DY181 cruise:*

4 WHOI Navis BGC floats:

Serial numbers: 1533, 1565, 1566, 1567

*To be loaded in Texel, Netherlands on the R/V Pelagia for the P535 cruise:*

4 WHOI MRV S2a Core floats:

Serial numbers: 7890, 7891, 7897, 7912

*To be loaded in Seattle, Washington on the CGC Healy for the xxx cruise:*

1 WHOI MRV Alto Core float:

Serial number: TBD

*To be loaded in Brooklyn, New York on the R/V Langseth for the Porewater cruise:*

3 WHOI Navis BGC floats:

Serial number: TBD

*To be loaded in Reykjavik, Iceland on the National Geographic Resolution (Lindblad Expedition) for the reset cruise:*

5 WHOI Navis BGC floats:

Serial number: TBD

*Loaded in Freemantle, Australia on the R/V Thompson for the TN-431 Transit and Astral cruises:*

3 WHOI MRV S2a Core floats:

Serial numbers: 7719, 7829, 7903

1 WHOI MRV Alto RBR float: 11335

*Loaded in Cape Town, South Africa on the R/V S.A. Agulhas II for the Marian Island cruise:*  
3 WHOI MRV S2a Core floats:  
Serial numbers: 7885, 7886, 7902

All floats are equivalent and interchangeable within Class. e.g. any WHOI S2a Core float is the same as other WHOI S2a Core floats so it doesn't matter which specific float is deployed at each location – whichever is available (of appropriate type) at the top of the stack is fine.

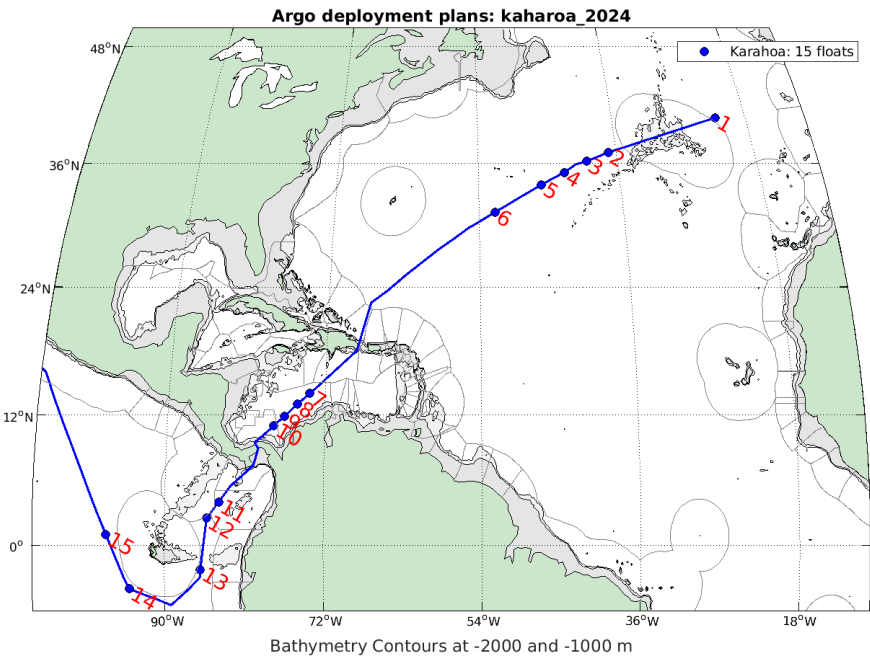
## Deployment Reporting

After Float deployment please report the following to [deploymentinfo@whoi.edu](mailto:deploymentinfo@whoi.edu)

1. Float #
2. Deployment Location (latitude and longitude)
3. Deployment Time (GMT)
4. Any issues or problems with the deployment water release, tangled lines, etc.

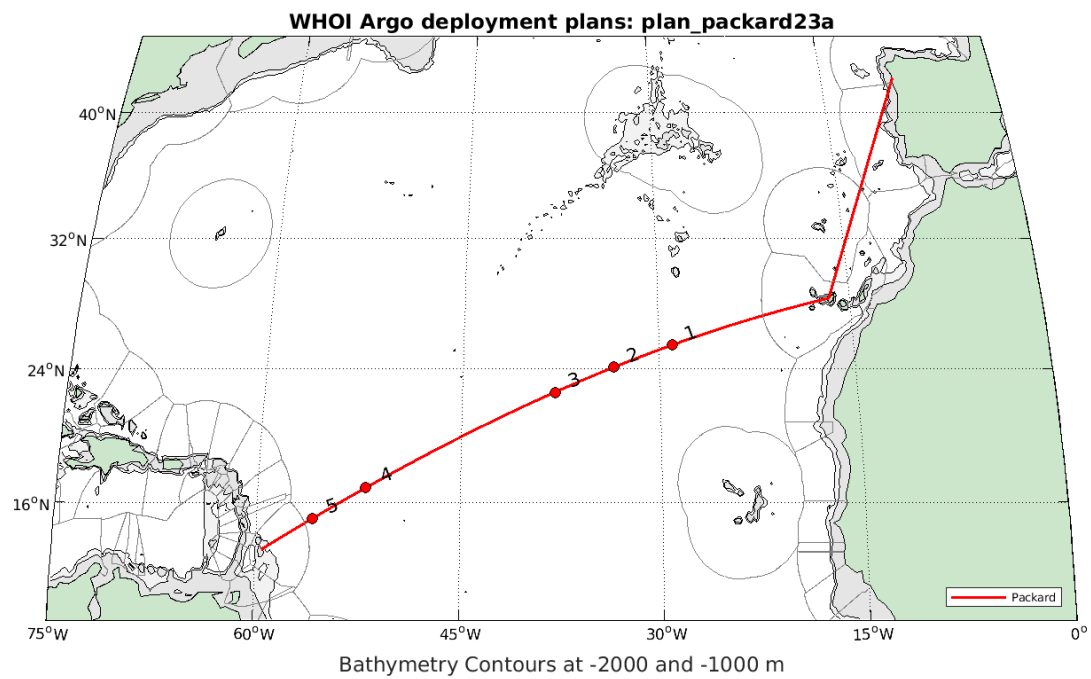
Kaharoa II Delivery Cruise 2024

| Index | Latitude  | Longitude | Float Type | Float Number | Station Number |
|-------|-----------|-----------|------------|--------------|----------------|
| 1     | 40° 36' N | 22° 00' W | WHOI Core  | 7713         | 1              |
| 2     | 37° 06' N | 37° 00' W | WHOI Core  | 7732         | 2              |
| 3     | 36° 12' N | 40° 00' W | WHOI Core  | 7746         | 3              |
| 4     | 35° 06' N | 43° 00' W | WHOI Core  | 7747         | 4              |
| 5     | 33° 54' N | 46° 00' W | WHOI Core  | 7774         | 5              |
| 6     | 31° 12' N | 52° 00' W | WHOI Core  | 7875         | 6              |
| 7     | 14° 00' N | 73° 48' W | WHOI Core  | 7734         | 15             |
| 8     | 13° 00' N | 75° 12' W | WHOI Core  | 7826         | 17             |
| 9     | 11° 54' N | 76° 36' W | WHOI Core  | 7827         | 19             |
| 10    | 11° 00' N | 77° 48' W | WHOI Core  | 7828         | 21             |
| 11    | 4° 00' N  | 83° 51' W | WHOI Core  | 7480         | 25             |
| 12    | 2° 30' N  | 85° 12' W | WHOI Core  | 7490         | 28             |
| 13    | 2° 15' S  | 85° 54' W | WHOI Core  | 7522         | 33             |
| 14    | 4° 00' S  | 94° 00' W | WHOI Core  | 7597         | 42             |
| 15    | 1° 00' N  | 96° 36' W | WHOI Core  | 7699         | 45             |



Packard Transit Cruise 2024

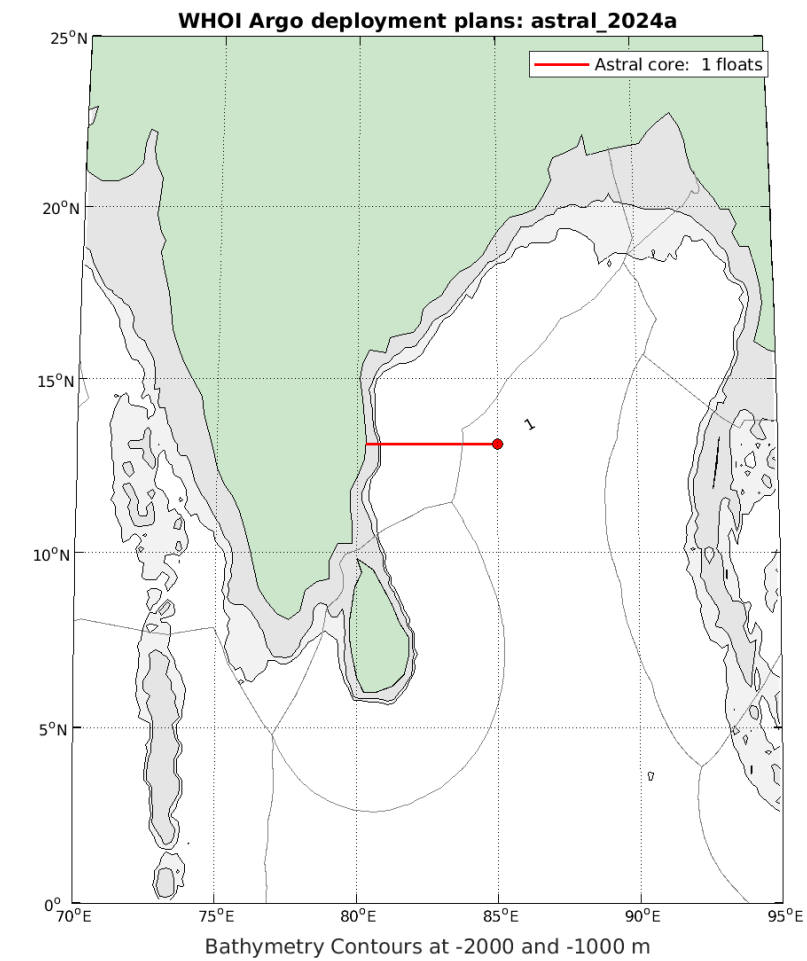
| Index | Latitude  | Longitude | Float Type    | Float Number |
|-------|-----------|-----------|---------------|--------------|
| 1     | 25.430° N | 29.0° W   | WHOI BGC      |              |
| 2     | 24.084° N | 33.5° W   | WHOI BGC      |              |
| 3     | 22.574° N | 38.0° W   | WHOI BGC      |              |
| 4     | 16.861° N | 52.0° W   | WHOI RBR Core |              |
| 5     | 15.012° N | 55.9° W   | WHOI RBR Core |              |





ASTRAL 2024

| Index | Latitude | Longitude | Float Type | Float Number | Comments                                                             |
|-------|----------|-----------|------------|--------------|----------------------------------------------------------------------|
| 1     | 13° N    | 85° E     | WHOI Core  | 7903         | Deployed in international waters at the Chief Scientist's discretion |



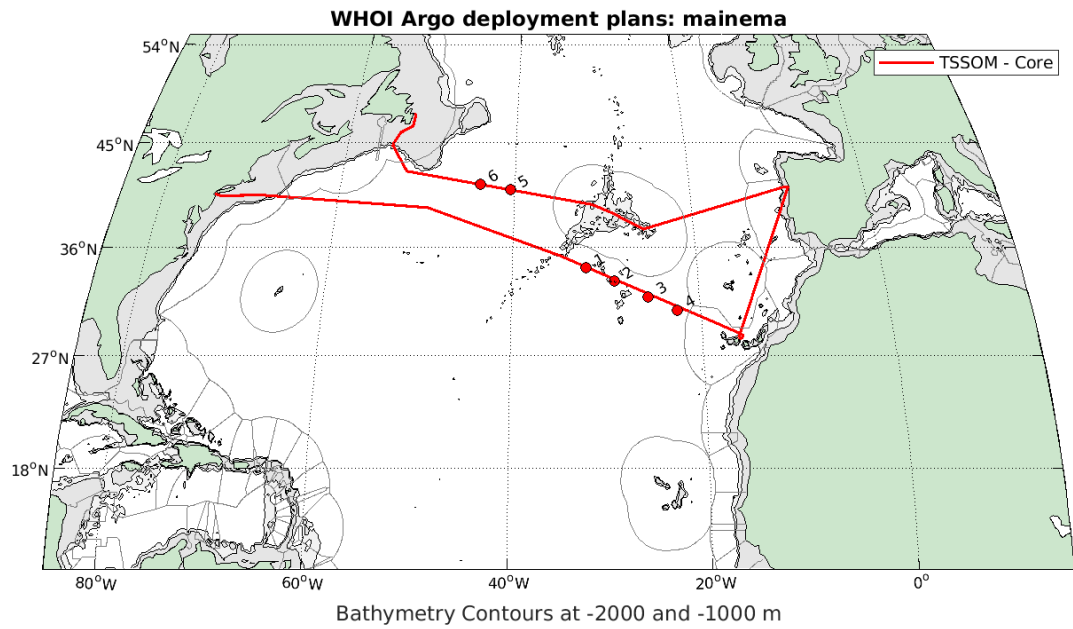
WHOI Argo:29-Feb-2024

TS State of Maine 2024

| Index | Latitude | Longitude | Float Type | Comments                                                                                                                                     |
|-------|----------|-----------|------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 1     | 34.23° N | 32.00° W  | WHOI Core  | If the ship does not pass through these points, please deploy at the closest longitude mark. Nominal accuracy of 20 kilometers is just fine. |
| 2     | 33.14° N | 29.00° W  | WHOI Core  |                                                                                                                                              |
| 3     | 31.86° N | 25.50° W  | WHOI Core  |                                                                                                                                              |
| 4     | 30.76° N | 22.50° W  | WHOI Core  |                                                                                                                                              |
| 5     | 40.87° N | 40.50° W  | WHOI Core  |                                                                                                                                              |
| 6     | 41.34° N | 44.00° W  | WHOI Core  |                                                                                                                                              |

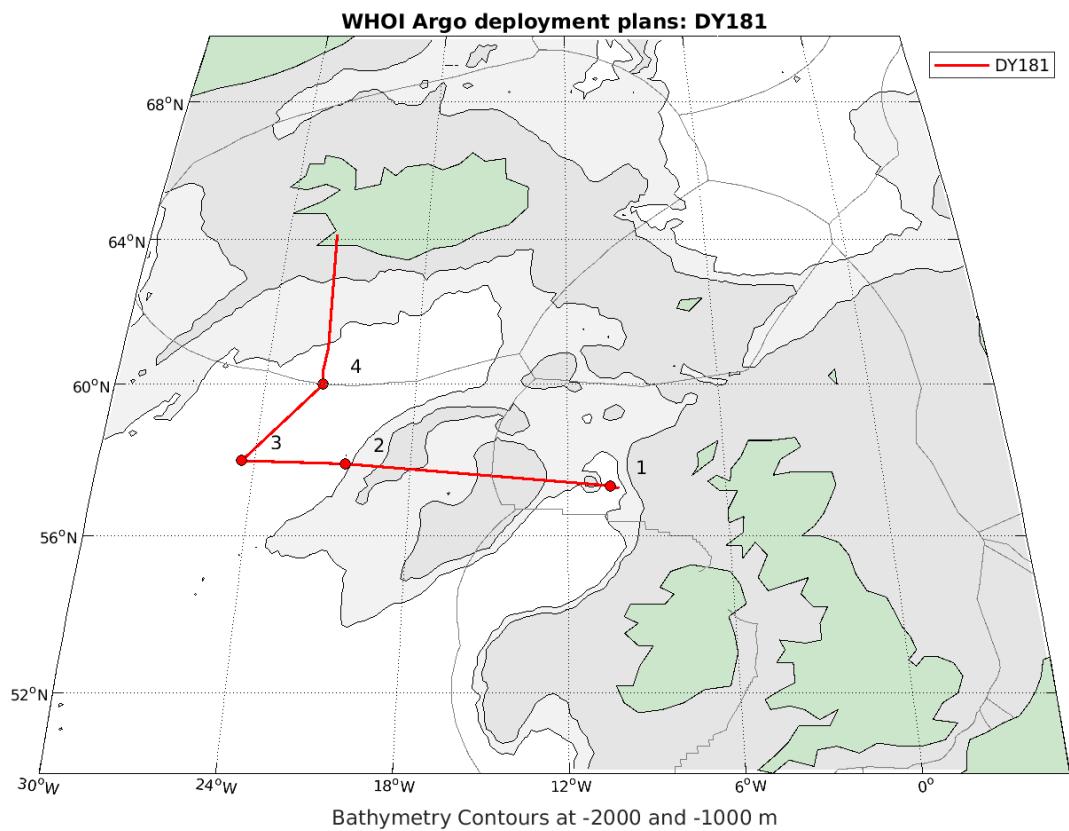
Minimum constraints for Deployment location:

- 1) On High Seas or within USA EEZ
- 2) Water deeper than 2500m



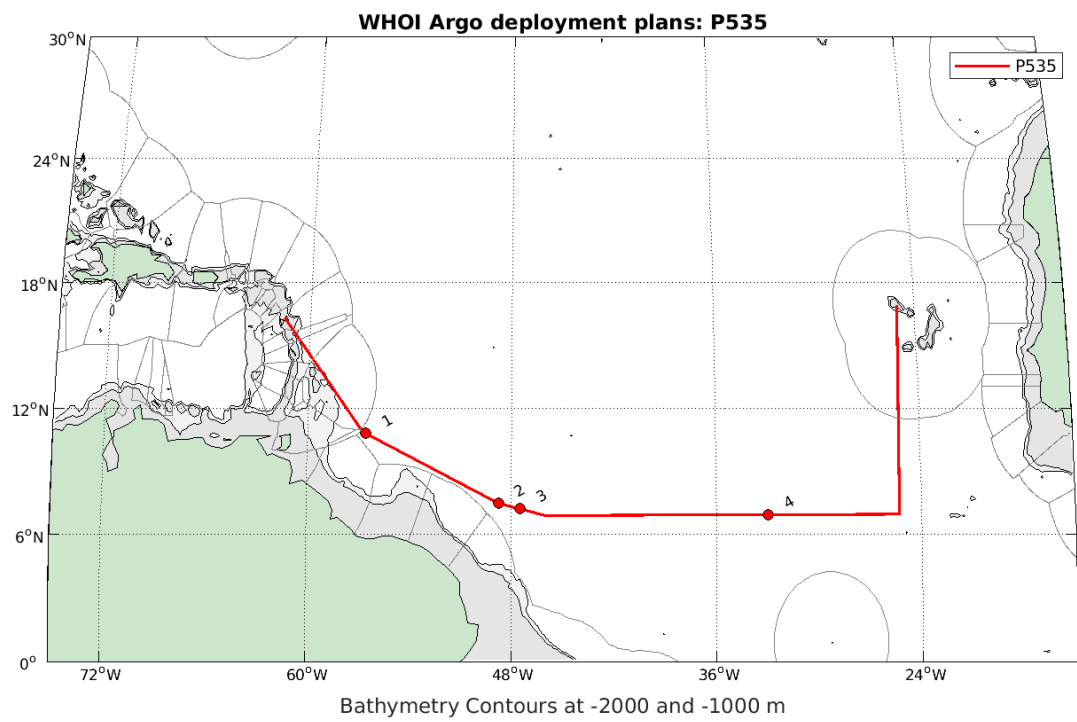
Discovery DY181 2024

| Index | Latitude     | Longitude    | Float Type | CTD Station                 |
|-------|--------------|--------------|------------|-----------------------------|
| 1     | 57° 13.94' N | 10° 02.85' W | WHOI BGC   | N                           |
| 2     | 57° 52.68' N | 20° 29.81' W | WHOI BGC   | O21                         |
| 3     | 57° 57.66' N | 24° 29.26' W | WHOI BGC   | O28                         |
| 4     | 60° N        | 21.7° W      | WHOI BGC   | South of the UK core floats |



P535

| Index | Latitude | Longitude | Float Type | Comments            |
|-------|----------|-----------|------------|---------------------|
| 1     | 10.87° N | 56.58° W  | WHOI Core  | Deploy by longitude |
| 2     | 7.48° N  | 48.76° W  | WHOI Core  |                     |
| 3     | 6.91° N  | 47.5° W   | WHOI Core  |                     |
| 4     | 6.9° N   | 33.0° W   | WHOI Core  |                     |



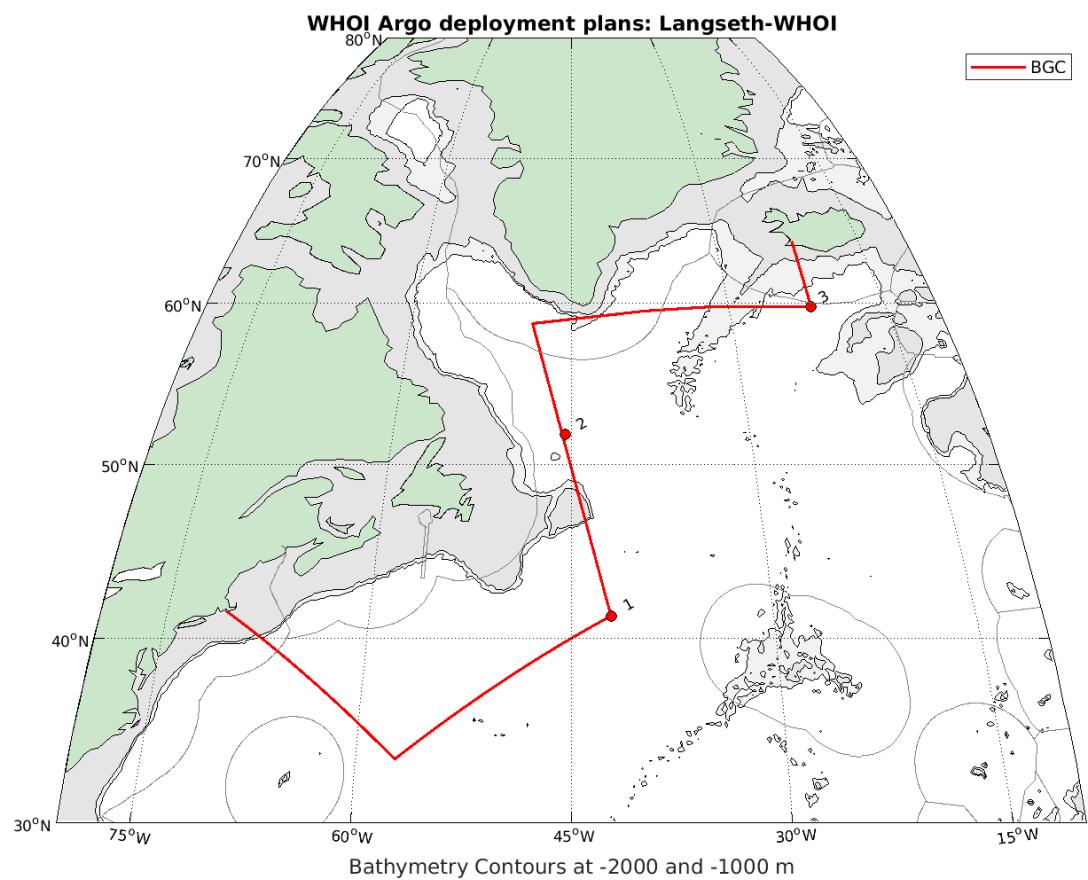
## USCG

| Index | Latitude | Longitude | Float Type     | Comments |
|-------|----------|-----------|----------------|----------|
| 1     | ?° N     | ?° W      | WHOI Core Alto |          |

A WHOI core Alto/SBE to be supplied to Josh Willis for the Greenland Shelf study.  
Deployment location to be determined by Josh Willis.

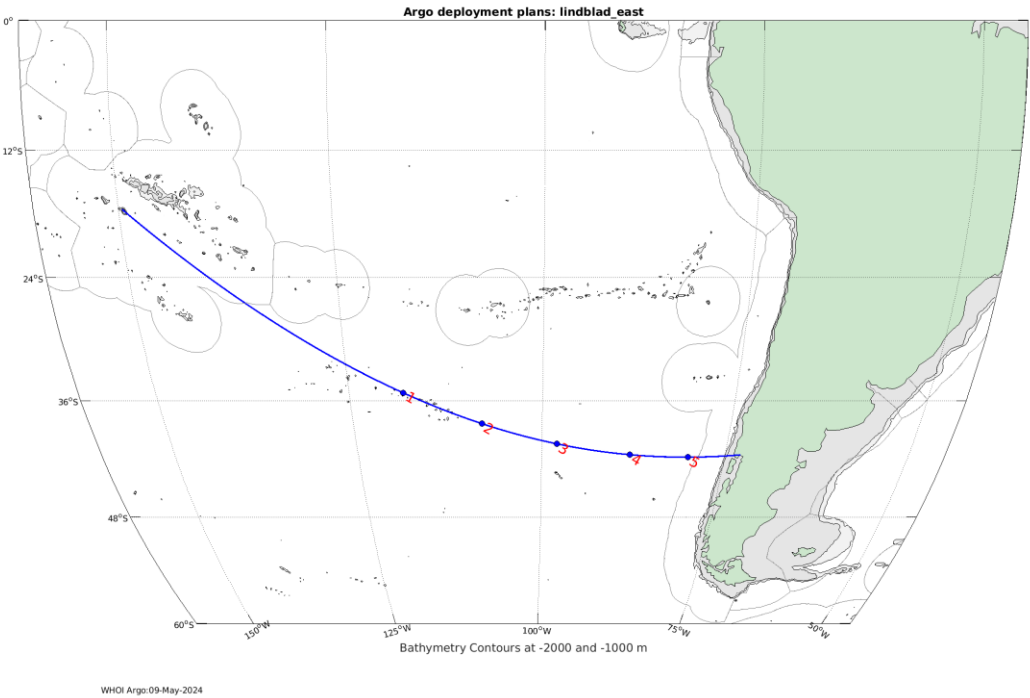
Langseth Porewater 2024

| Index | Latitude | Longitude | Float Type | CTD Station |
|-------|----------|-----------|------------|-------------|
| 1     | 41.5° N  | 43° W     | WHOI BGC   | Core #2     |
| 2     | 51.0° N  | 45.6° W   | WHOI BGC   | Core #3     |
| 3     | 59° N    | 21° W     | WHOI BGC   | Core #7     |



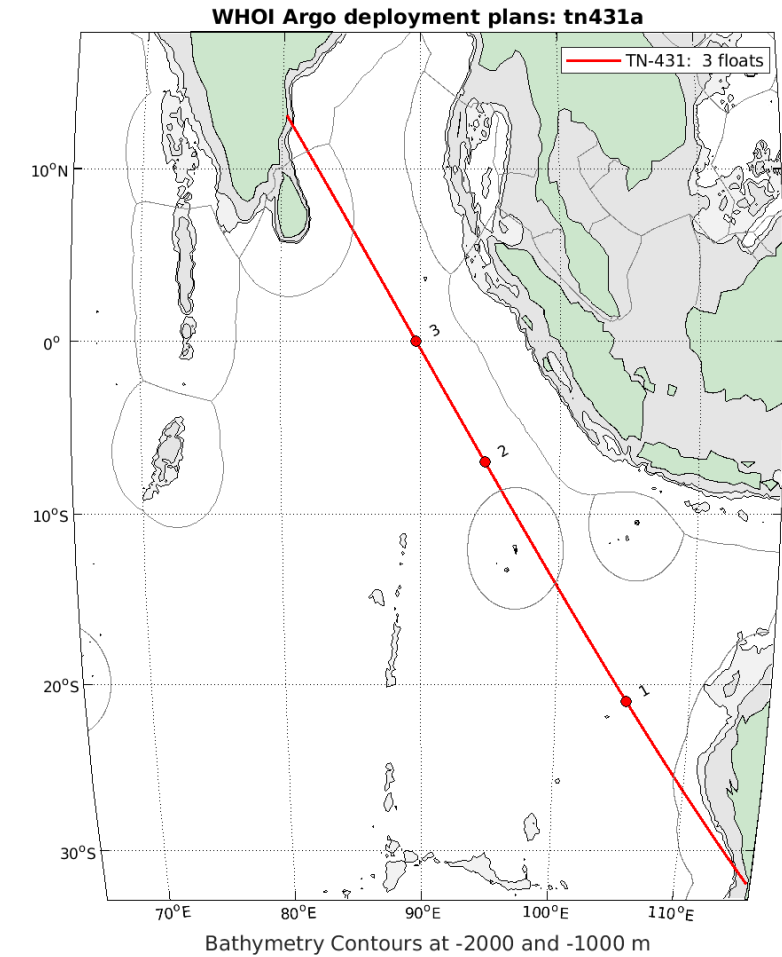
National Graphic Resolution (Lindblad Expeditions)

| Index | Latitude   | Longitude | Float Type     | Comments            |
|-------|------------|-----------|----------------|---------------------|
| 1     | -35.211° N | 118.00° W | WHOI BGC Navis | Deploy by longitude |
| 2     | -38.293° N | 108.00° W | WHOI BGC Navis |                     |
| 3     | -40.345° N | 98.00° W  | WHOI BGC Navis |                     |
| 4     | -41.460° N | 88.00° W  | WHOI BGC Navis |                     |
| 5     | -41.714° N | 80.00° W  | WHOI BGC Navis |                     |



Thompson Transit TN-431 2024

| Index | Latitude   | Longitude | Float Type    | Float Number | Comments           |
|-------|------------|-----------|---------------|--------------|--------------------|
| 1     | 21.0° S    | 105.3° E  | WHOI Core     | 7719         | Deploy by latitude |
| 2     | 7.0° S     | 94.6° E   | WHOI Core     | 7829         |                    |
| 3     | 0° equator | 89.7° E   | WHOI RBR Core | 1335         |                    |

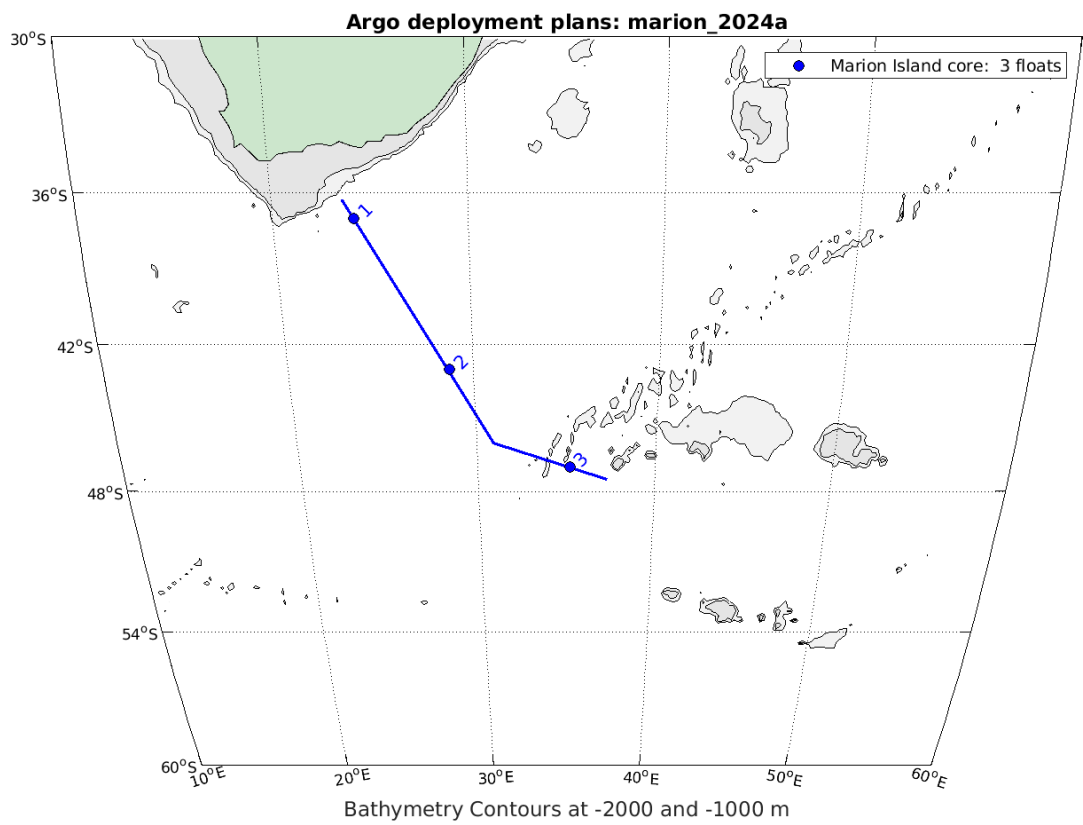


WHOI Argo:29-Feb-2024



Marion Island 2024

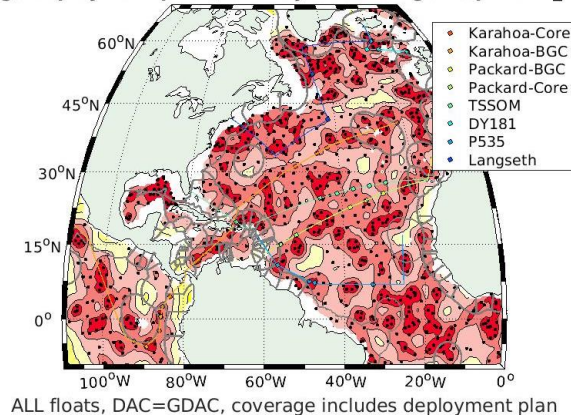
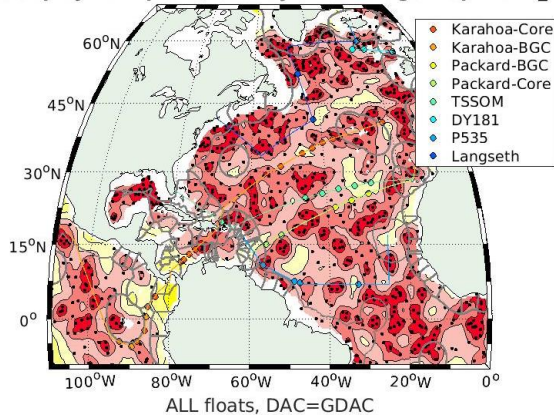
| Index | Latitude | Longitude | Float Type | Comments           |
|-------|----------|-----------|------------|--------------------|
| 1     | 37.0° S  | 24.165° E | WHOI Core  | Deploy by latitude |
| 2     | 43.0° S  | 28.688° E | WHOI Core  |                    |
| 3     | 47.0° S  | 35.183° E | WHOI Core  |                    |



## Atlantic Ocean Background/Supplemental Maps

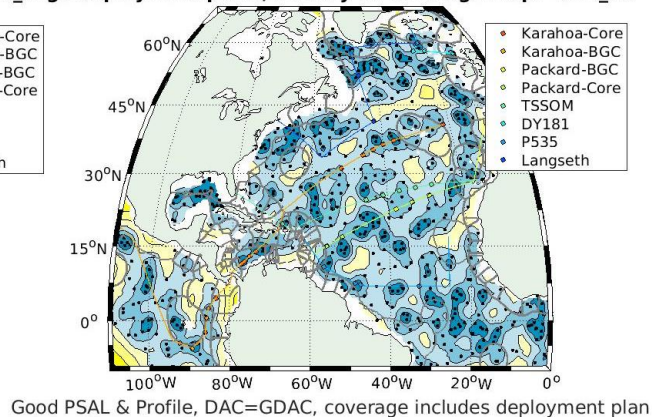
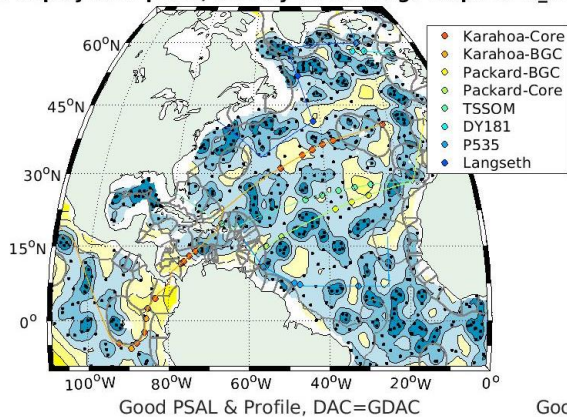
All Floats (Coverage BEFORE/AFTER)

Argo deployment plans, overlay on coverage map: 2024\_Atlgo deployment plans, overlay on coverage map: 2024\_Atl



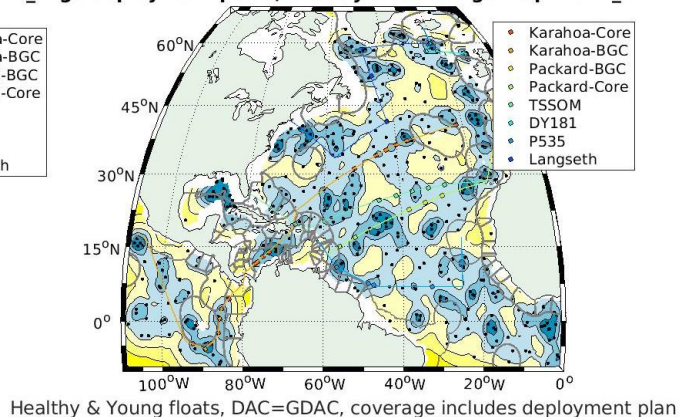
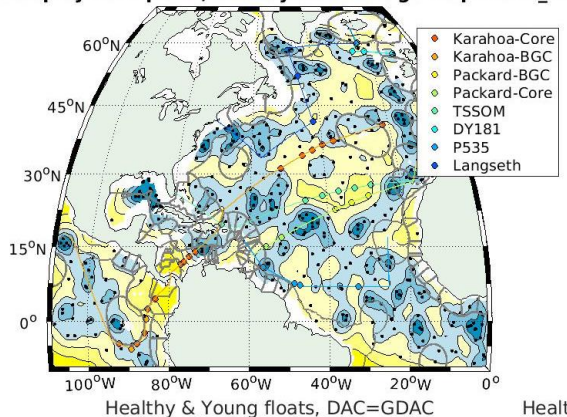
Healthy (conductivity sensor) (Coverage BEFORE/AFTER)

Argo deployment plans, overlay on coverage map: 2024\_Atlgo deployment plans, overlay on coverage map: 2024\_Atl



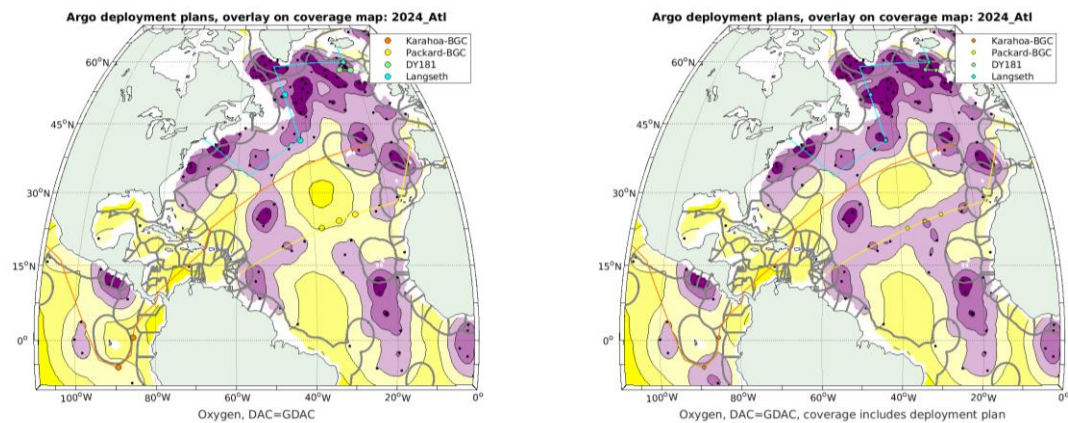
Healthy (conductivity sensor) & Young (Coverage BEFORE/AFTER)

Argo deployment plans, overlay on coverage map: 2024\_Atlgo deployment plans, overlay on coverage map: 2024\_Atl

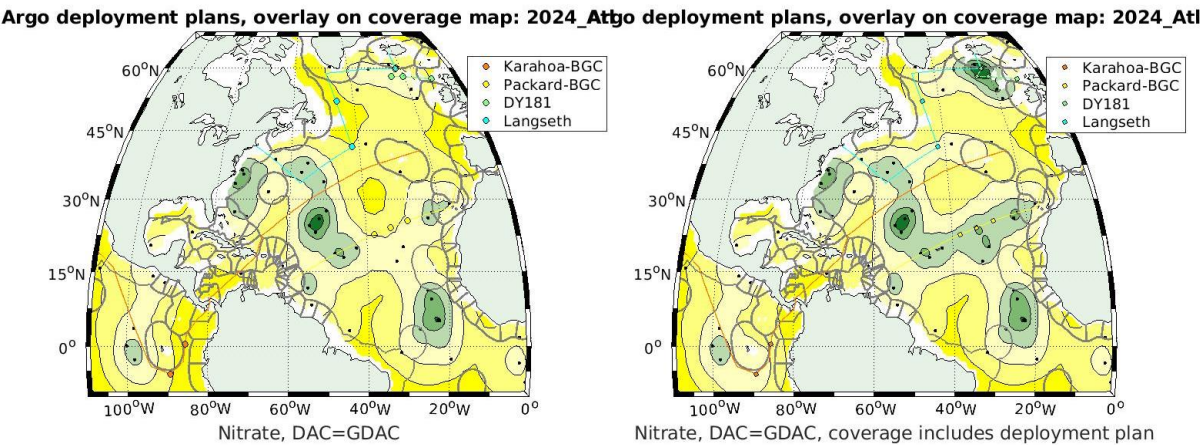




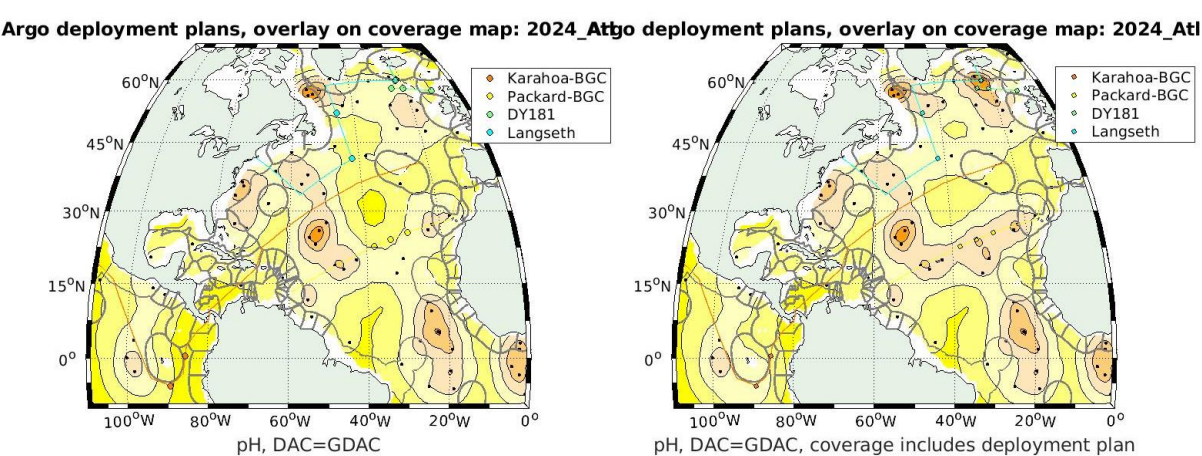
Oxygen (BEFORE/AFTER)



Nitrate (BEFORE/AFTER)



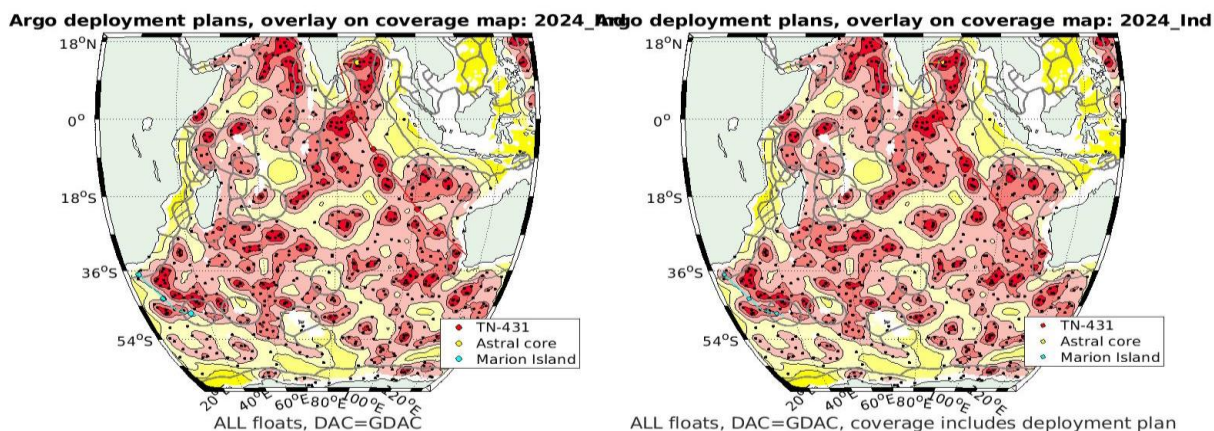
pH (BEFORE/AFTER)



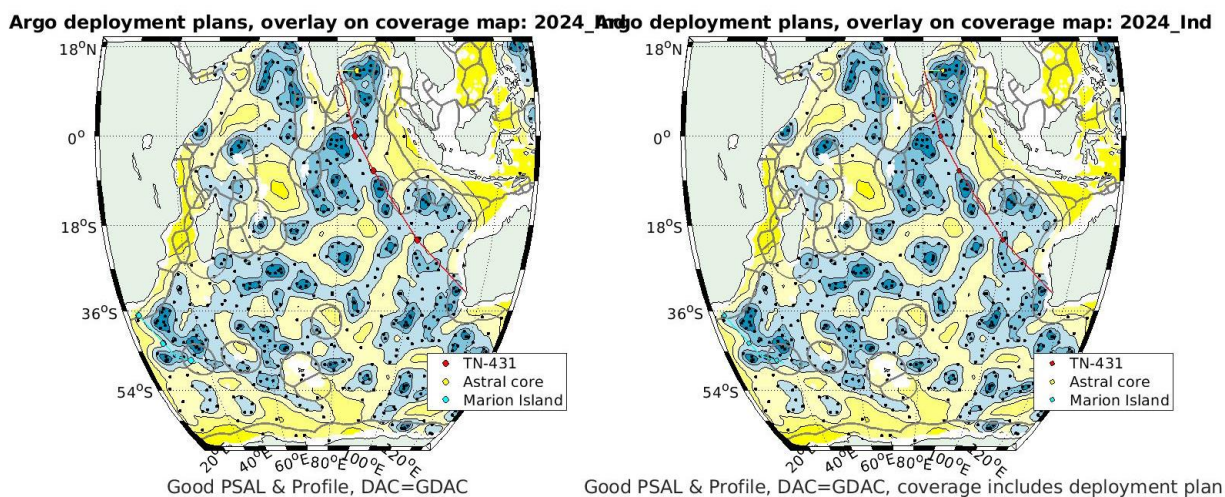


## Indian/Southern Ocean Background/Supplemental Maps

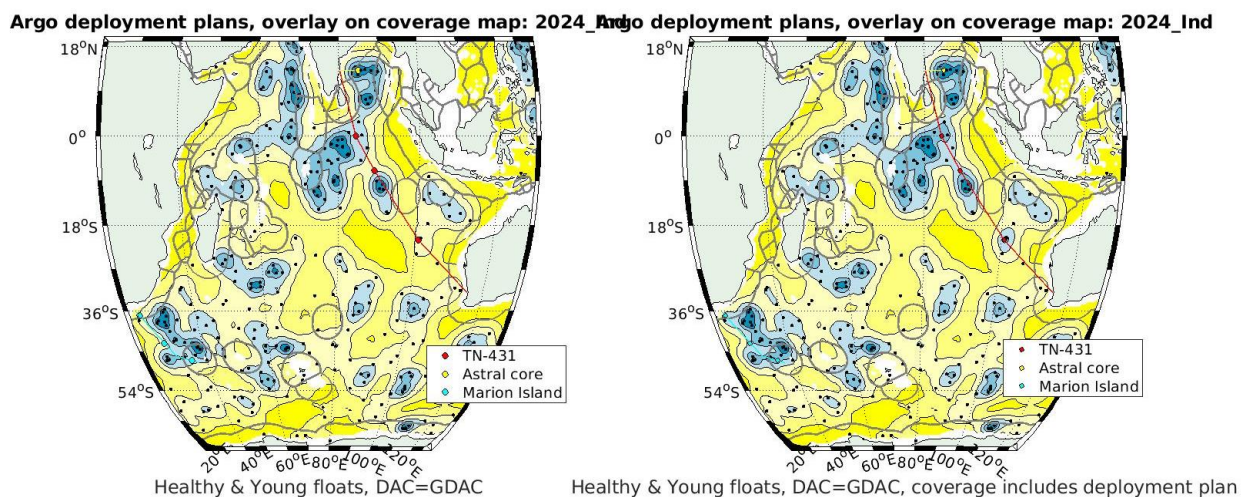
### All Floats (Coverage BEFORE/AFTER)



### Healthy (conductivity sensor) (Coverage BEFORE/AFTER)



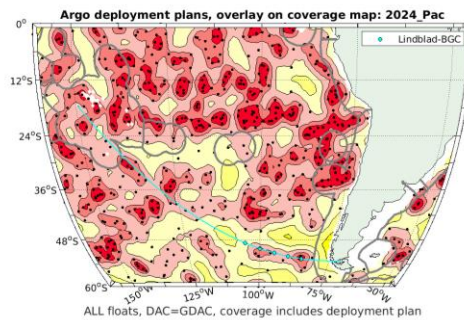
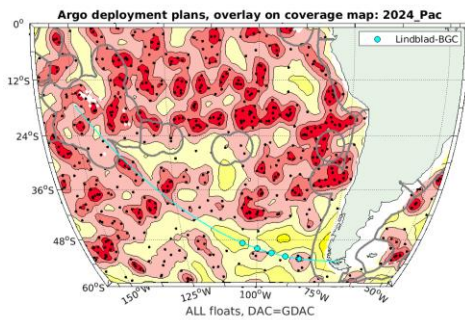
### Healthy (conductivity sensor) & Young (Coverage BEFORE/AFTER)



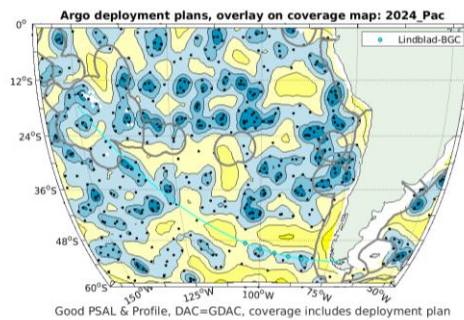
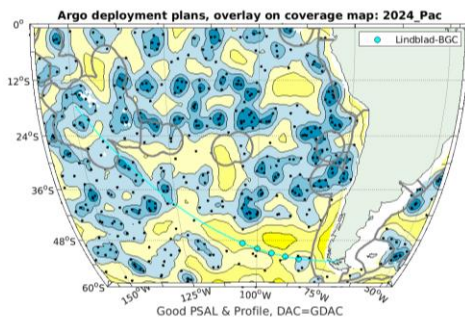


## Pacific Ocean Background/Supplemental Maps

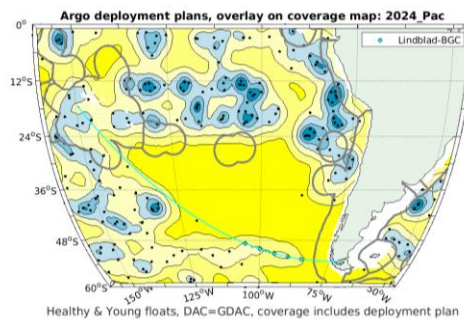
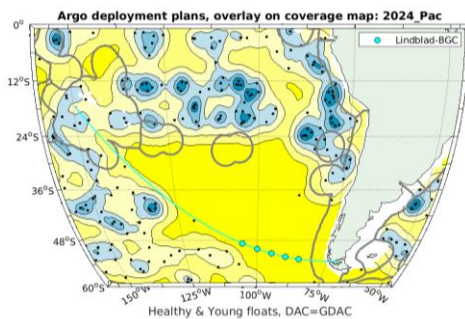
### All Floats (Coverage BEFORE/AFTER)



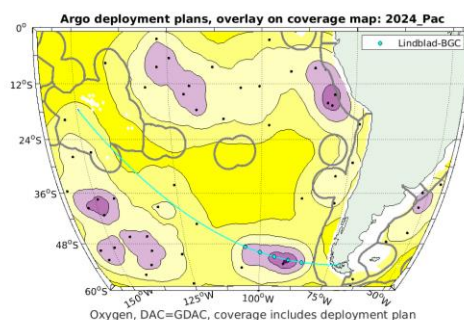
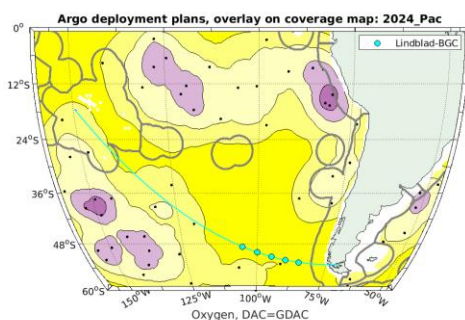
### Healthy (conductivity sensor) (Coverage BEFORE/AFTER)



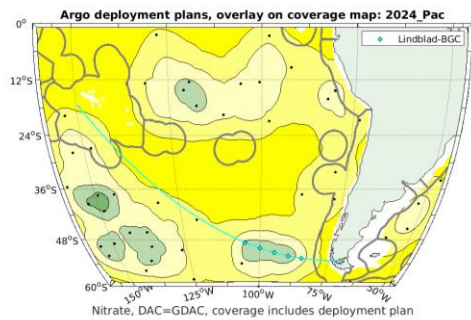
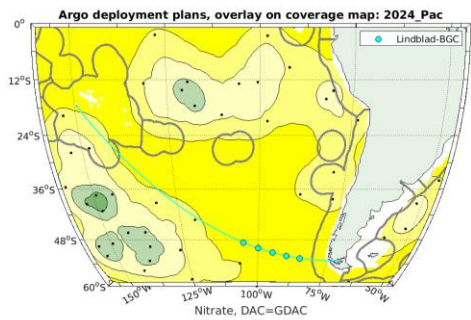
### Healthy (conductivity sensor) & Young (Coverage BEFORE/AFTER)



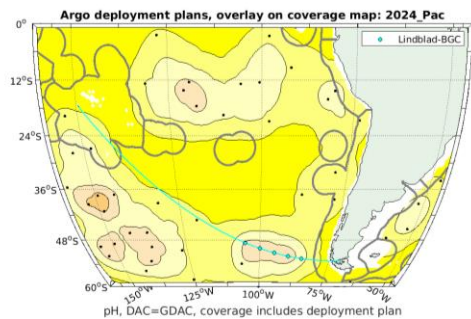
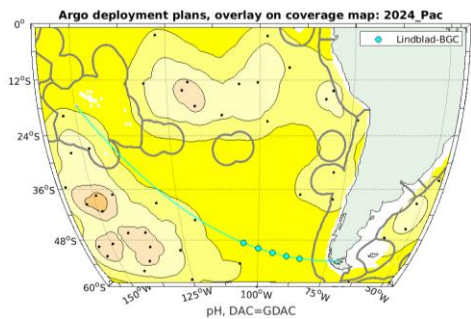
### Oxygen (BEFORE/AFTER)



Nitrate (BEFORE/AFTER)



pH (BEFORE/AFTER)



## Listing of all planned deployment locations

- 1,Karahoa-Core,40.6,-22,1
- 2,Karahoa-Core,37.1,-37,2
- 3,Karahoa-Core,36.2,-40,3
- 4,Karahoa-Core,35.1,-43,4
- 5,Karahoa-Core,33.9,-46,5
- 6,Karahoa-Core,31.2,-52,6
- 7,Karahoa-Core,14,-73.8,7
- 8,Karahoa-Core,13,-75.2,8
- 9,Karahoa-Core,11.9,-76.6,9
- 10,Karahoa-Core,11.4,-77.3,10
- 11,Karahoa-Core,4.5,-83.4,11
- 12,Karahoa-Core,2.5,-85.2,12
- 13,Karahoa-Core,-2.25,-85.9,13
- 14,Karahoa-Core,-4.5,-87.9,14
- 15,Karahoa-Core,-4.55,-92.2,15
- 16,Karahoa-BGC,0.5,-85.5,1
- 17,Karahoa-BGC,-5.5,-89.2,2
- 18,Packard-BGC,25.43,-29,1
- 19,Packard-BGC,24.084,-33.5,2
- 20,Packard-BGC,22.574,-38,3
- 21,Packard-BGC,16.861,-52,4
- 22,Packard-Core,16.861,-52,1
- 23,Packard-Core,15.012,-55.9,2
- 24,MarionIsland-Core,-37,24.165,1
- 25,MarionIsland-Core,-43,28.688,2
- 26,MarionIsland-Core,-47,35.183,3
- 27,TSSOM-Core,19.524,-67.25,1
- 28,TSSOM-Core,24.482,-45.6,2
- 29,TSSOM-Core,25.492,-41.2,3
- 30,TSSOM-Core,26.356,-36.8,4
- 31,TSSOM-Core,27.075,-32.4,5
- 32,TSSOM-Core,27.649,-28,6
- 33,DY181-BGC,57.302,-10.382,1
- 34,DY181-BGC,57.878,-20.497,2
- 35,DY181-BGC,57.961,-24.488,3
- 36,DY181-BGC,60,-21.7,4
- 37,P535-Core,10.795,-56.58,1
- 38,P535-Core,7.488,-48.76,2
- 39,P535-Core,7.218,-47.5,3
- 40,P535-Core,6.944,-33,4
- 41,Langseth-BGC,41.263,-42.072,1
- 42,Langseth-BGC,51.808,-45.518,2
- 43,Langseth-BGC,59.782,-22.099,3
- 44,TN431-Core,-20.988,100.746,1
- 45,TN431-Core,-7,88.934,2
- 46,TN431-Core,-0.002,84.194,3

47,Lindblad-BGC,-48.654,-105,1  
48,Lindblad-BGC,-50.039,-100,2  
49,Lindblad-BGC,-51.143,-95,3  
50,Lindblad-BGC,-51.993,-90,4  
51,Lindblad-BGC,-52.608,-85,5  
52,Astral-Core,13.106,85,1