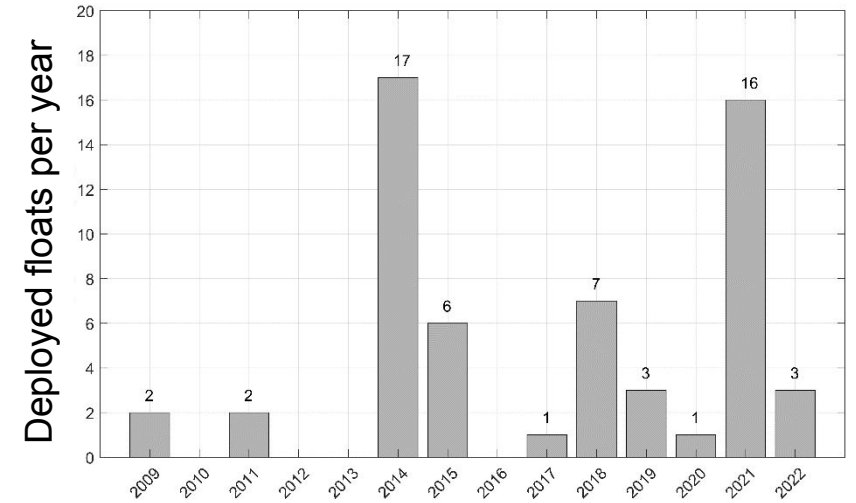
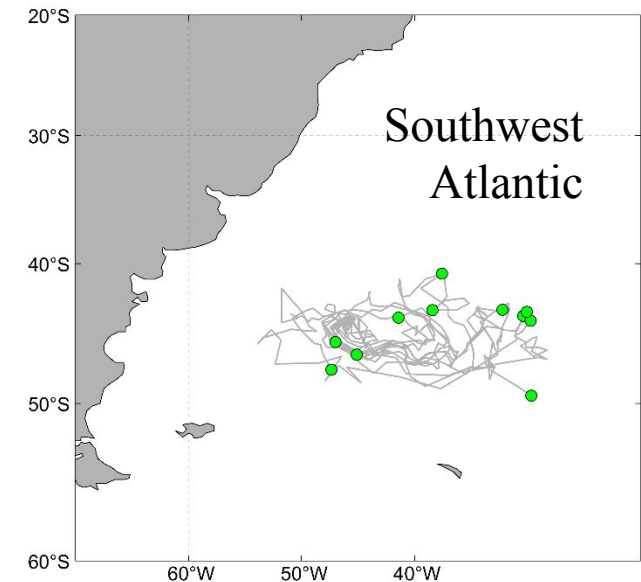
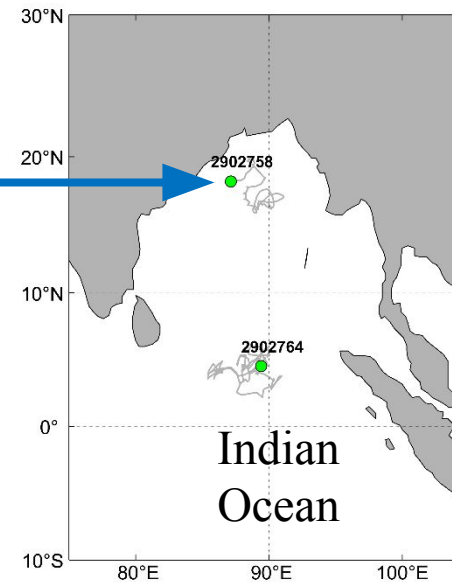
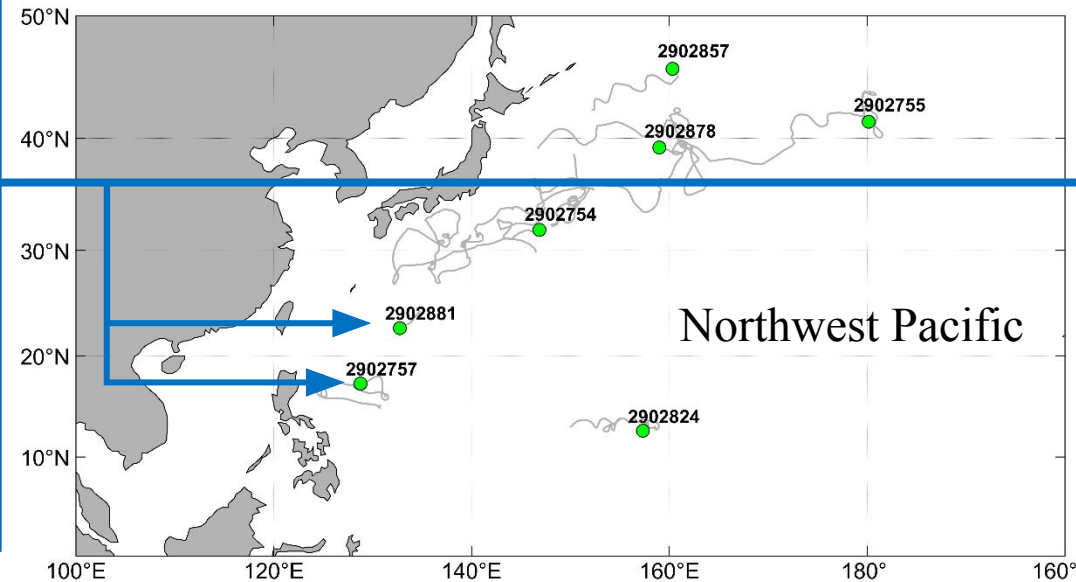


China BGC-Argo floats deployment

- China has contributed a total of **58** BGC-Argo floats and **10648** BGC-profiles since 2009
- **3** floats deployed in 2022
- **20** active floats, including:
 - 7** in Northwest Pacific (including 2 HM2000-O₂)
 - 2** in Indian Ocean (including 1 HM2000-O₂)
 - 11** in Southwest Atlantic



HM2000-O₂



China BGC-Argo floats deployment

□ **10** floats to be deployed in 2023-2024 (Northwest Pacific & North Indian Ocean), including:

2 Provor 6-variable from Ocean University of China (OUC)

4 Navis 4/5-variable with rechargeable battery SL1 from CSIO

1 Provor-ECO from CSIO

2 Provor 5/6-variable from Hainan Tropical Ocean University (HTOU)

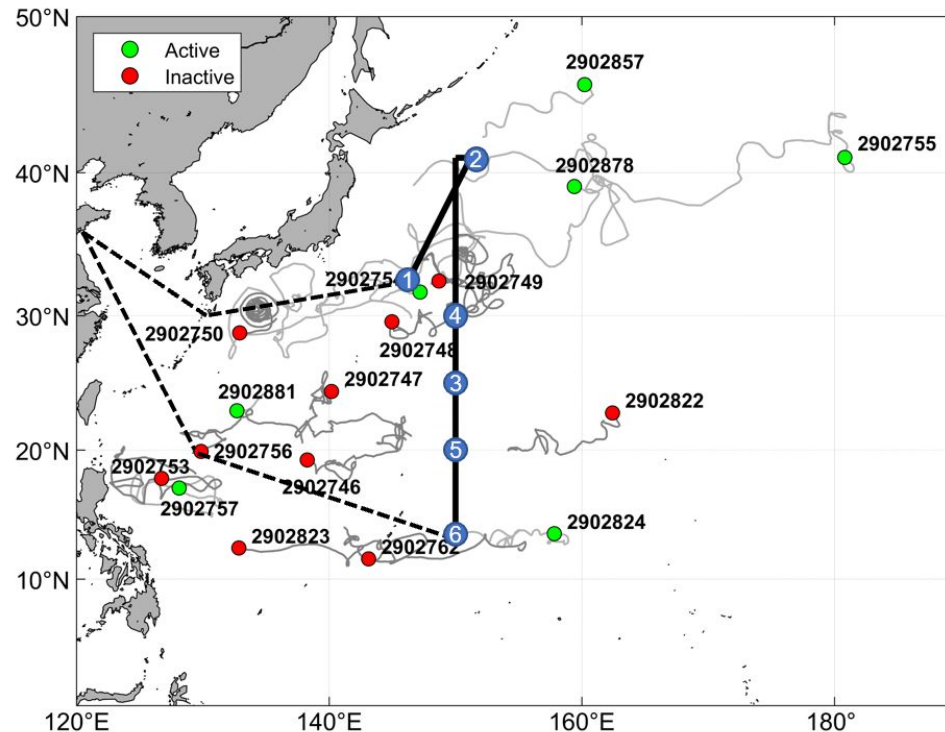
1 Provor 4-variable from South China Sea Institute of Oceanography (SCSIO)

□ **1** floats to be recovered (2902754 has observed 314 profiles since August 2018)

Northwest Pacific Cruise in May

No	Institute	Sensor	Planned Position
1	OUC	OCBNRP	32.4N 146.2E
2	OUC	OCBNRP	41N 151.2E
3	CSCIO	OCBNR	25N 150E
4	CSIO	CB	30N 150E
5	CSIO	OCBP*	20N 150E
6	CSIO	OCBP*	13N 150E

O: Oxygen; C: Chlorophyll; B: Backscattering; N: Nitrate;
R: Radiometry; P: pH; *: Rechargeable battery



Publications in 2022 from China

Publications (11)	Study Area	Research Aspect
Jianqiang Chen, et al. (2022) <i>Remote Sensing</i>	Northwest Pacific	Chl profile estimate model
Yanan Ding, et al. (2022) <i>Frontiers in Marine Science</i>	Northwest Pacific	Subsurface anticyclonic eddy
Minxian Guo, et al. (2022) <i>Journal of Geophysical Research: Oceans</i>	South Indian Ocean	Mesoscale eddy & fronts
Qiwei Hu, et al. (2022) <i>Journal of Geophysical Research: Oceans</i>	Tropical Indian Ocean	Seasonal Chl variability
Chan Shu, et al. (2022) <i>Remote Sensing</i>	South China Sea	Ecosystem model optimization
Tongyu Wang, et al. (2022) <i>Remote Sensing</i>	Arabian Sea	Tropical cyclone
Yingxu Wu, et al. (2022) <i>Communications Earth & Environment</i>	Global Oceans	Correlation between O ₂ & CO ₂
Yingxu Wu & Di Qi (2022) <i>Frontiers in Marine Science</i>	Southern Ocean	Comparison pCO ₂ between float & ship data
Xiaogang Xing, et al. (2022) <i>Frontiers in Marine Science</i>	Global Oceans	PAR profile estimate model
Dan Xu, et al. (2022) <i>Journal of Geophysical Research: Oceans</i>	Southern Ocean	Correlation between NO ₃ and density
Huiying Zheng, et al. (2022) <i>Optics Express</i>	Arabian Sea & East Pacific	BGC-Argo-based validation of Chl profile derived from lidar