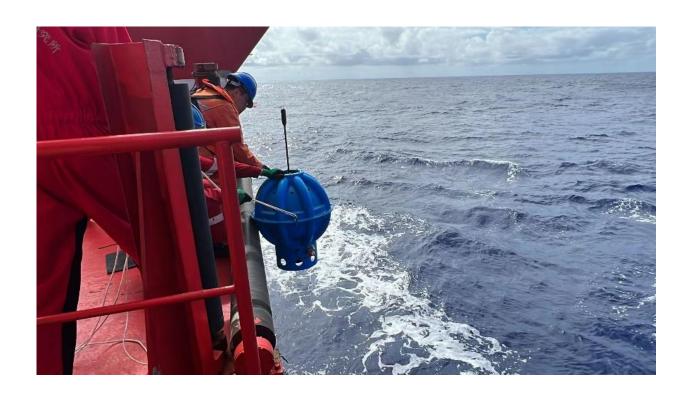








Progress of China Deep Argo Mission

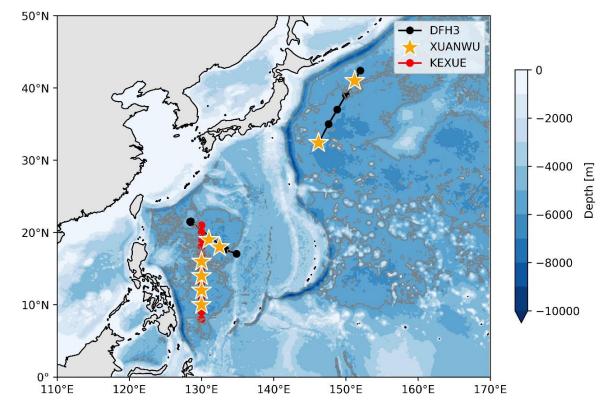


Zhaohui CHEN¹ Chong REN² Zenghong LIU³ Zhiyuan GAO¹

- 1) Ocean University of China (OUC)
- 2) Laoshan Laboratory
- 3) The Second Institute of Oceanography, Ministry of Natural Resources (CSIO)

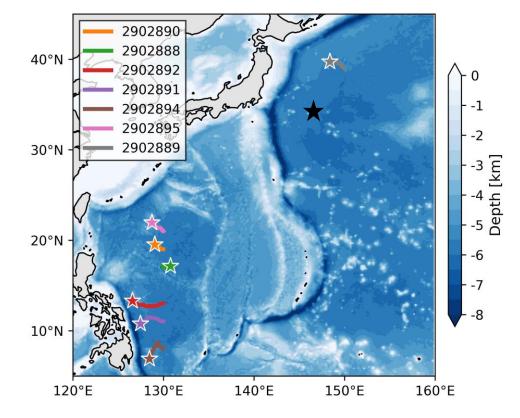
Deployment plan in 2023

- China plans to deploy 8 deep floats
- Cruise in May: 2 in the Kuroshio Extension region and 2 in the Philippine basin
- Cruise in November: 4 in the Philippine basin, western Pacific



Deployment in 2023

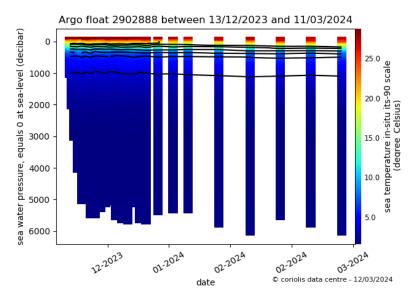
- 2 floats (Xuanwu) deployed in the Kuroshio Extension region but 1 missing and 1 only survived for 14 cycles less than 2000m
- 6 floats (1 HM4000, 5 XUANWU) deployed in the Philippine basin in December.
- CTD cast and on-board salinity measurements were conducted after deployment.

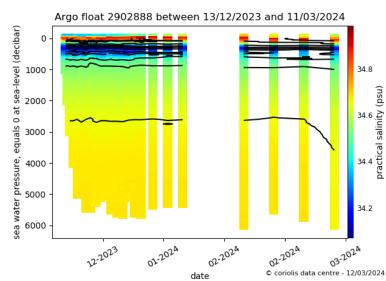


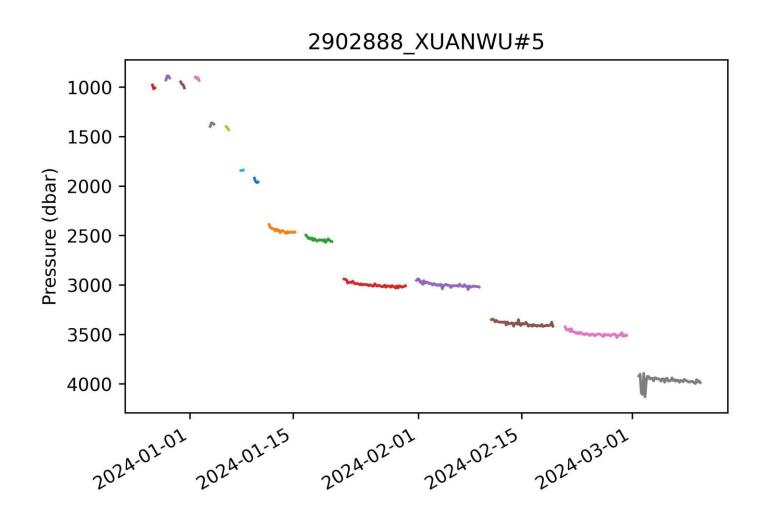
Current status of each float

Float	Float model	CTD model	Cycle Counts	Current Status	Cycle period (day)	Parking pressure (dbar)	Maximum pressure (dbar)
2902889	XUANWU	SBE61	14	inactive	1		2000
2902890	XUANWU	SBE61	22	active	10	700-5000	5966
2902888	XUANWU	SBE61	23	active	10	700-5000	6028
2902892	XUANWU	SBE61	42	active	3	700-5000	6025
2902891	XUANWU	SBE61	42	active	2	700-5000	6026
2902894	XUANWU	SBE61	53	active	2		5726
2902895	HM4000	RBR	97	active	1		

1) WMO-2902888 parking depth test



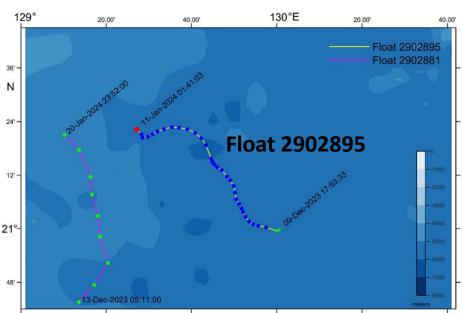


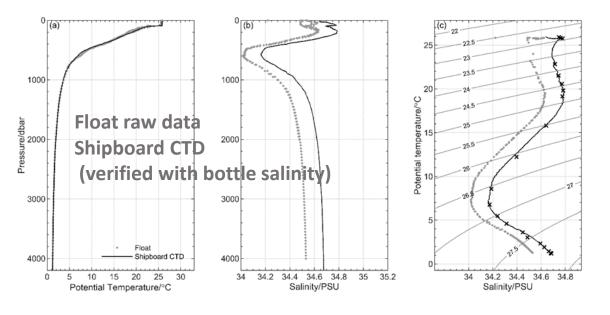


2) PSAL calibration of the HM4000 (RBRargo³ deep 6k)

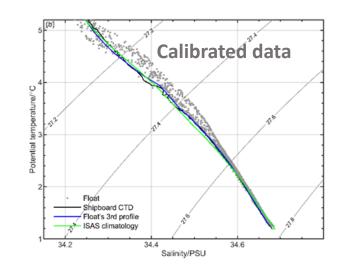
Coating of the conductivity cell had been broken

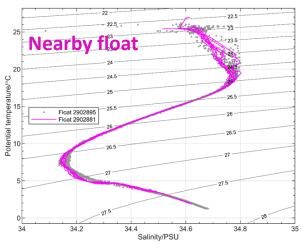




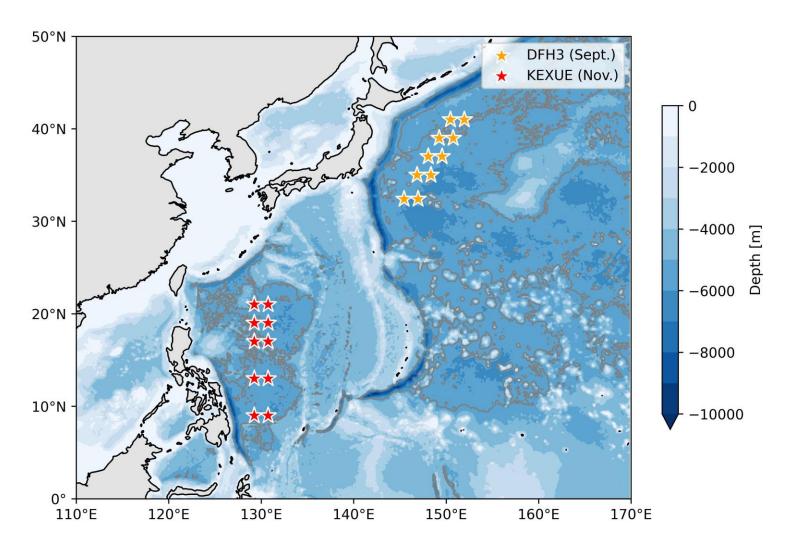


Conductivity slope=1.0037





Plan in 2024 (20 Xuanwu floats to be deployed)



Supported by China Deep Argo Pilot Network project (60 floats by the end of 2025)