



China Deep Argo

Zhaohui CHEN^{1,2}, Chong REN¹, Zenghong LIU³ and Zhiyuan GAO²

1) Laoshan Laboratory (formerly QNLM)

2) Ocean University of China (OUC)

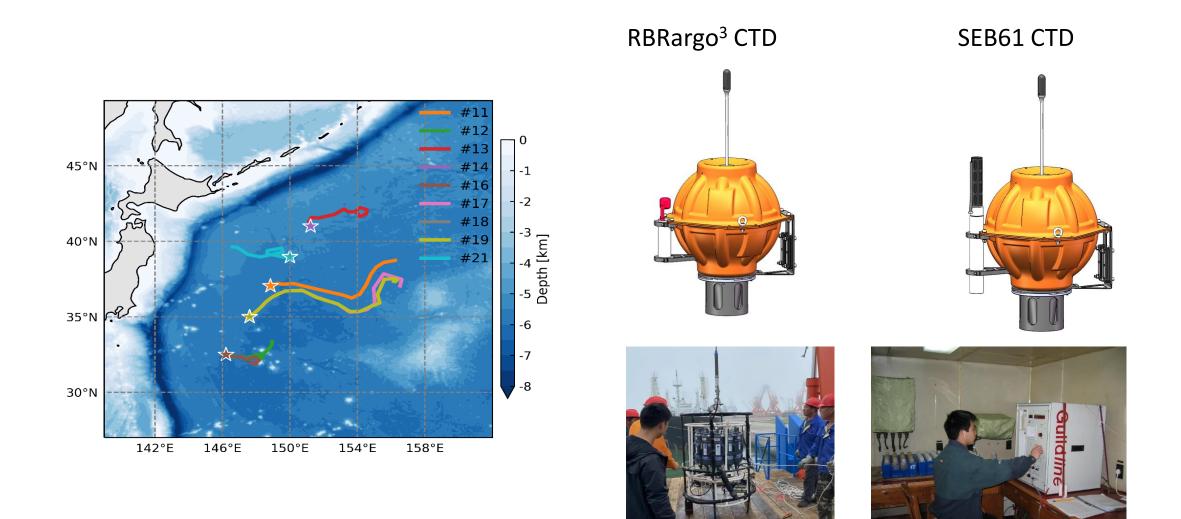
3) The Second Institute of Oceanography, Ministry of Natural Resources (CSIO)



Field test in the western Pacific

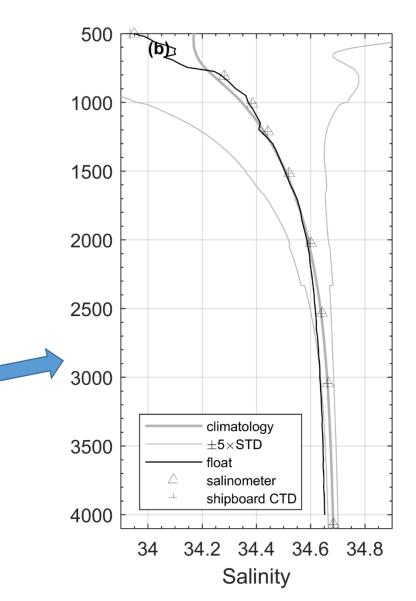
Pilot deployment of HM4000

Pilot deployments of HM4000 float (May-June 2021)

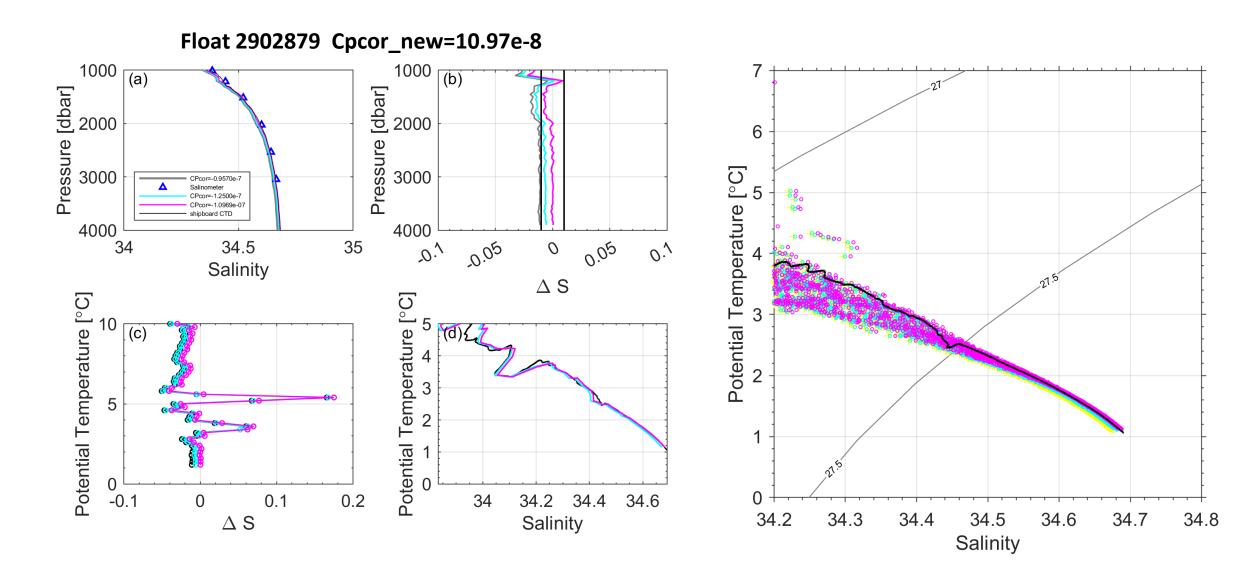


Data validation (CSIO)

	Comparison with SBE911	CTD model	Float
	pressure-dependent bias	RBR	#12
]	good	RBR	#16
	systematic bias	RBR	#17
	significant pressure- dependent bias	RBR	#19
	good	RBR	#11
	significant pressure- dependent bias	RBR	#18
	significant systematic bias	SBE-61	#21
	good	RBR	#13
	good	RBR	#14



PSAL Correction

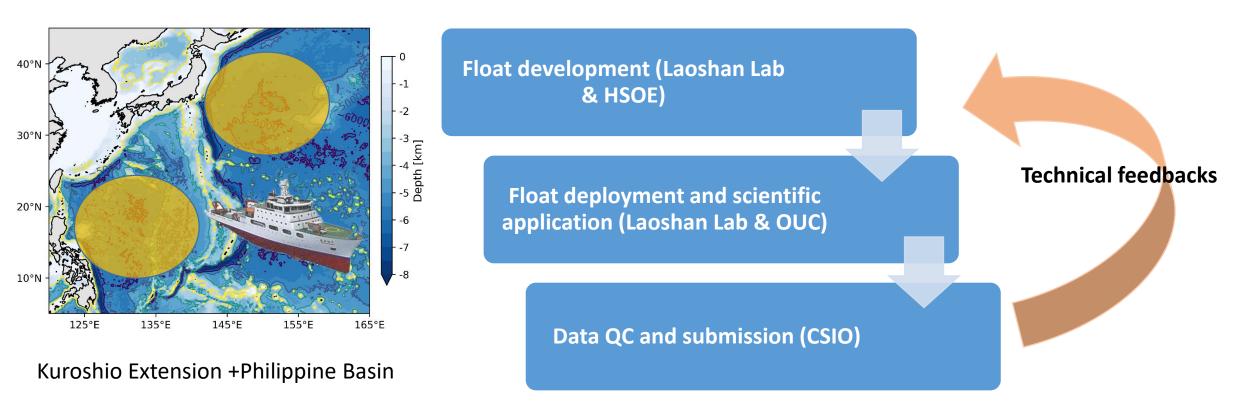


China Deep Argo regional observing network

Sponsor: Laoshan Laboratory (formerly Qingdao Pilot National Laboratory for Marine Science and Technology) **Goal**: develop 6000-m profiler/industrialization, deploy 60 floats in the NW Pacific

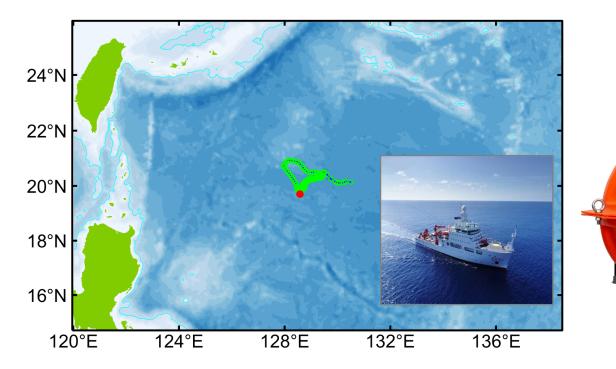
PI: Dr. Zhaohui Chen

Period: 2022-2025

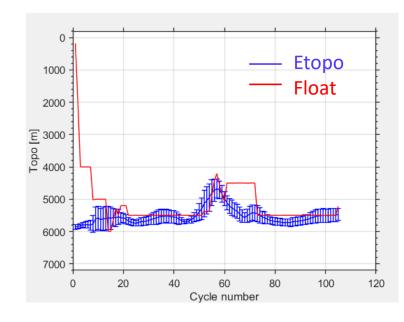


Pilot deployment of deep XUANWU float (July 2022)

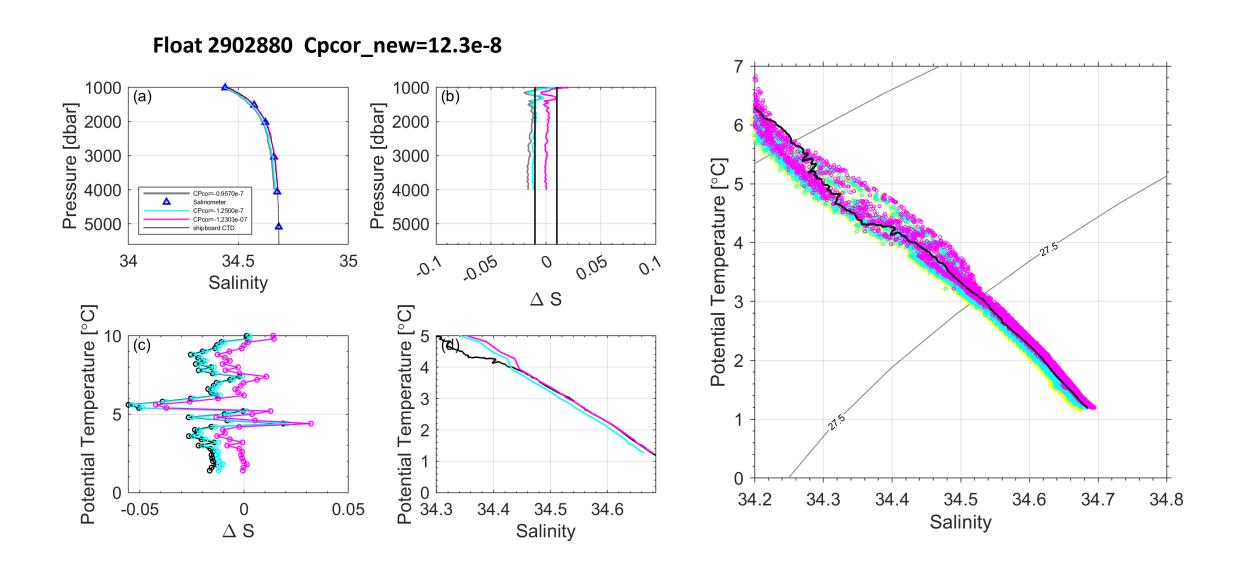
Float 2902880



Maximum profiling depth



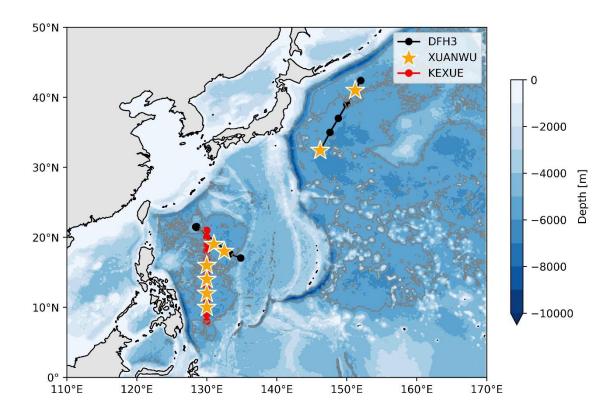
PSAL Correction



Deployment plan 2023

Laoshan Laboratory plans to deploy 8 XUANWU floats this year.

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



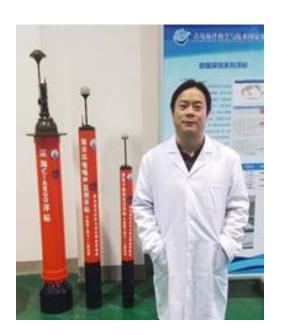




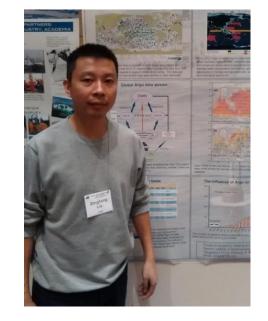
Thank you for your attention!



Zhaohui Chen (LSL/OUC)



Chong Ren (LSL)





Zenghong Liu (CSIO)

Zhiyuan Gao (OUC)