

Fig. S1

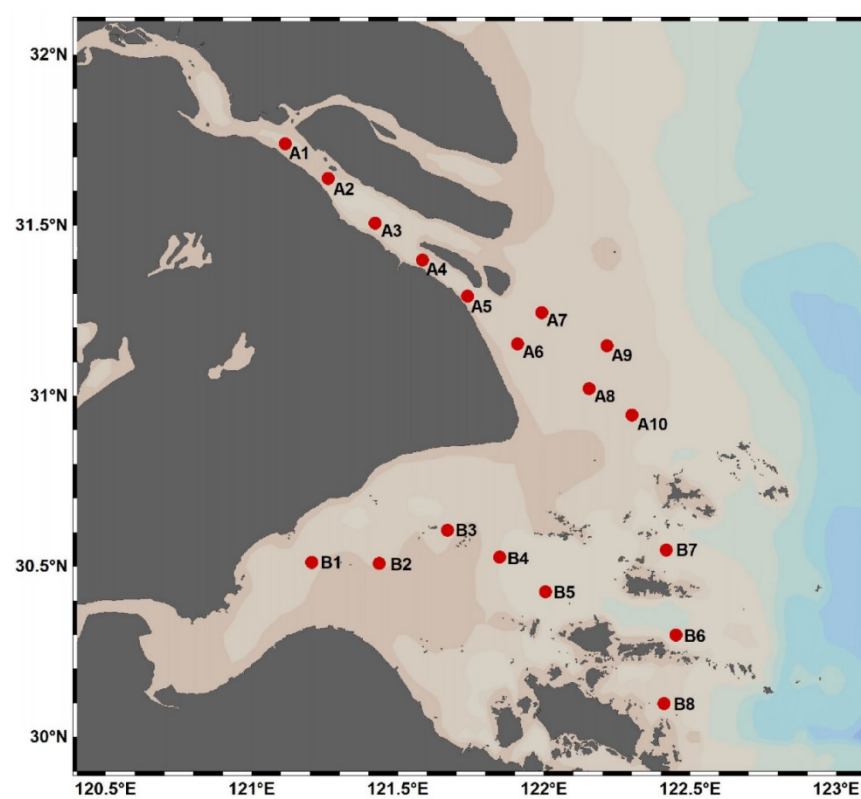


Fig. S1 Sampling stations from the Yangtze River Estuary and Hangzhou Bay from August 24 to 29, 2019.

Fig. S2

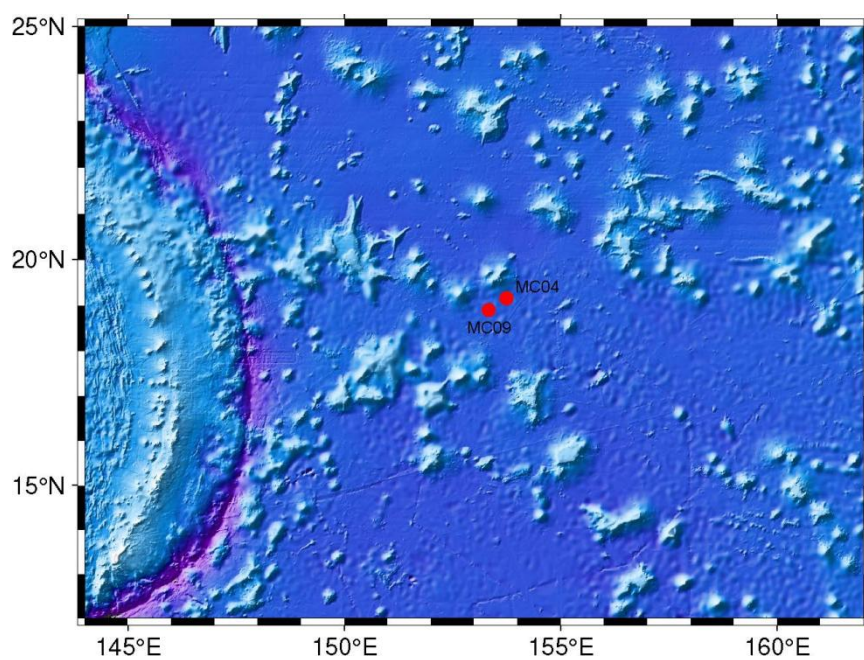


Fig. S2 Multi corer stations from the Pigafetta basin of the West Pacific on October 2023 during the 81thCruise by the Dayanghao.

Fig. S3

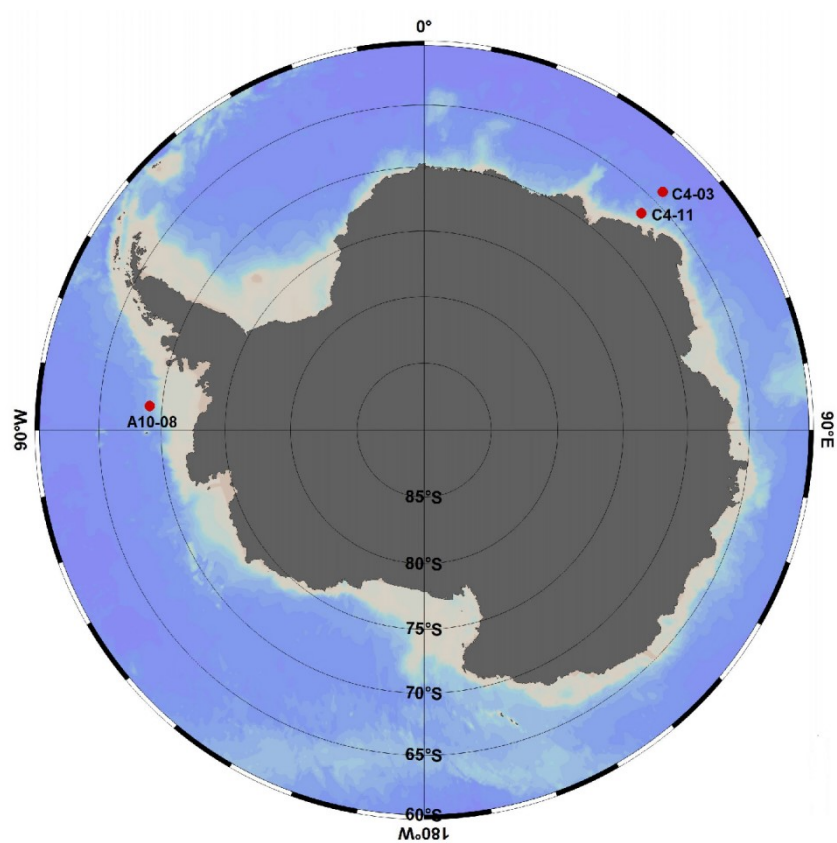


Fig. S3 CTD profiles from the regions around the Antarctic during 37th cruise by Xuelong 2 from November 10, 2020, to May 6, 2021.