

An Brief Introduction of **CHINARE 10**

Jianfeng HE

Polar Research Institute of China

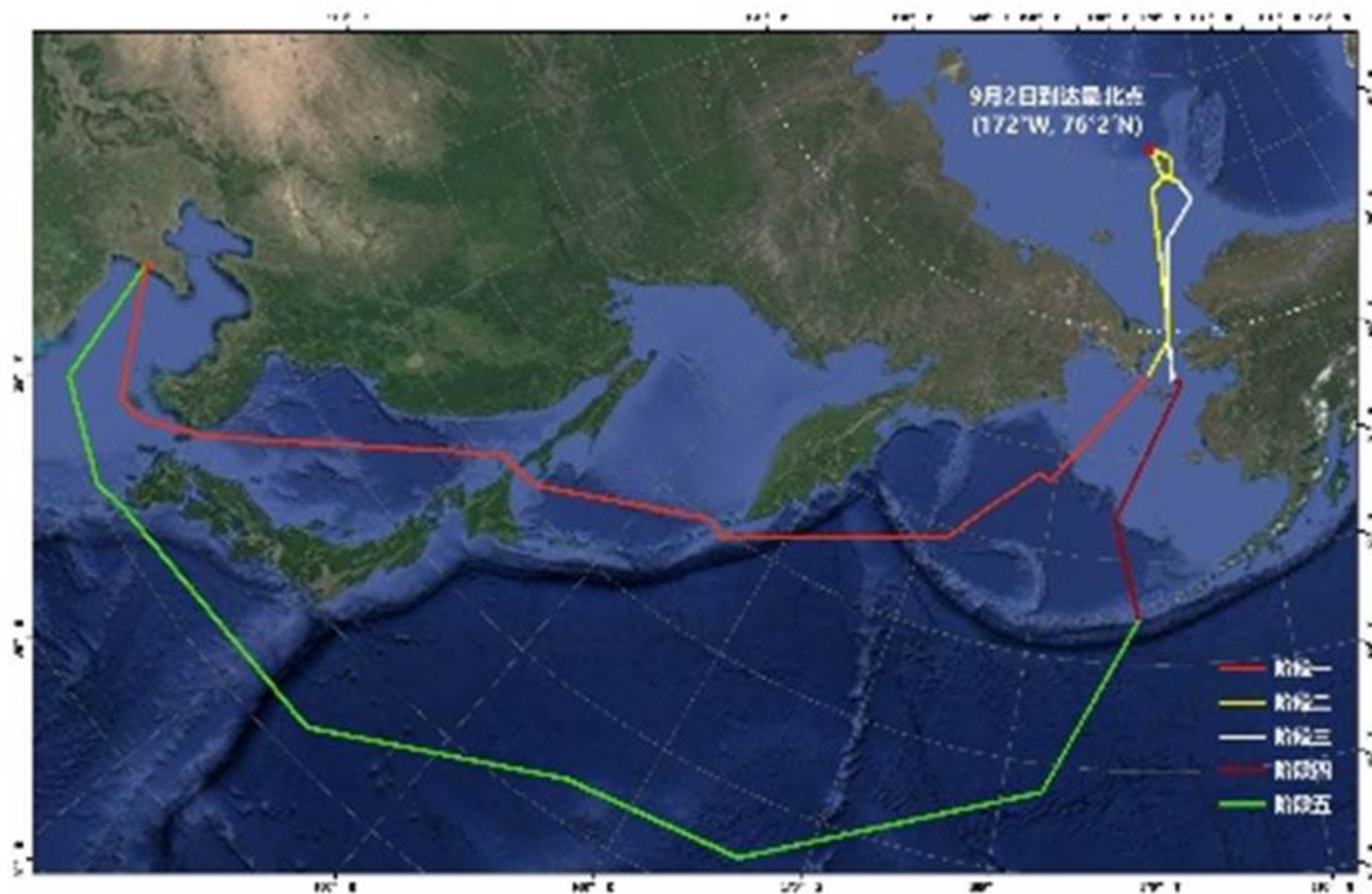
Oct.14,2019

**10
CHINARE**

**中国第十次
北极考察队**



1. Cruise ✓ Aug. 10 ~ Sept. 27 2019



2. CHINARE team

✓13 Institutes

44 Scientists+

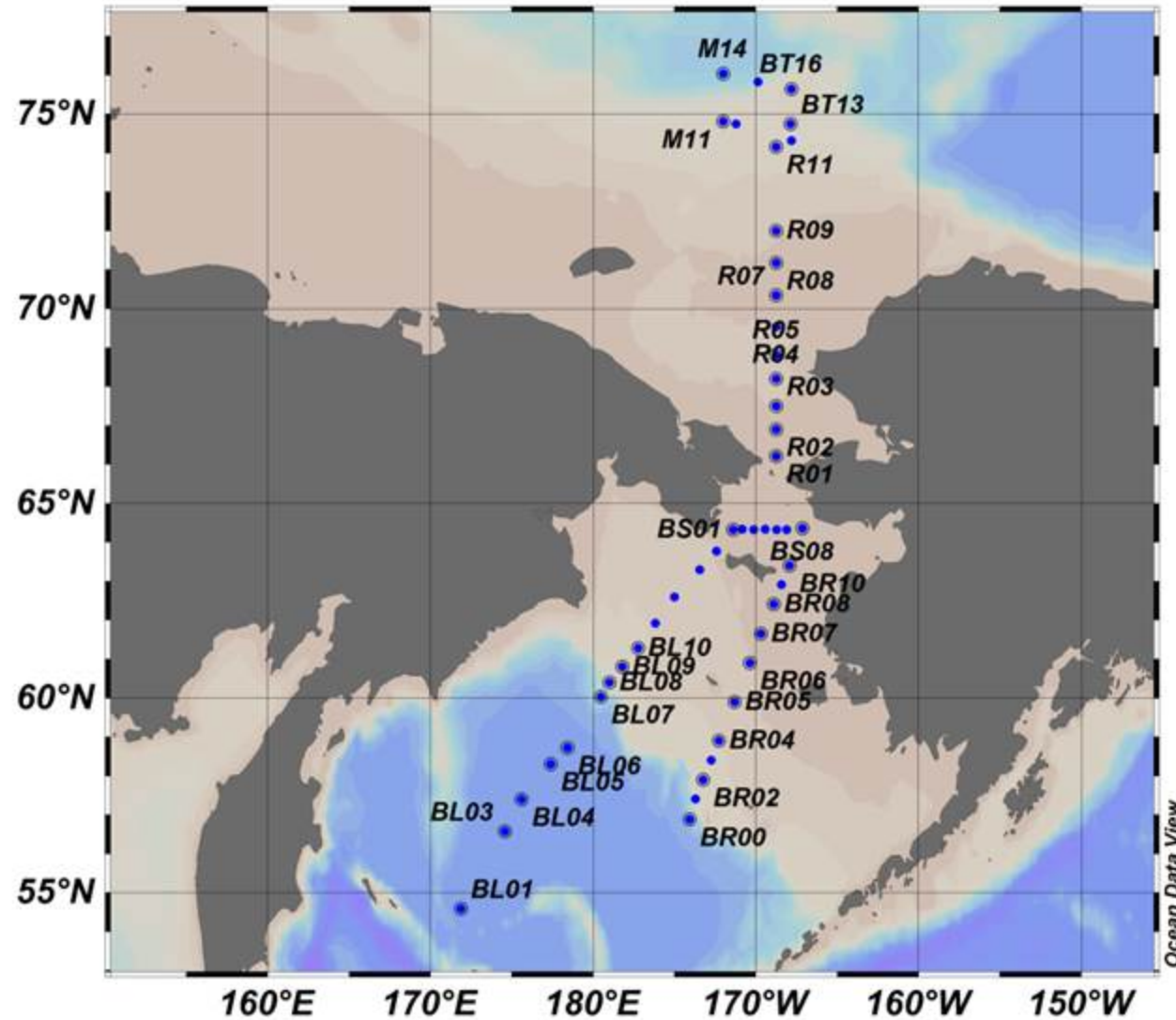
34 Crews



3. R/V Xiangyanghong 01



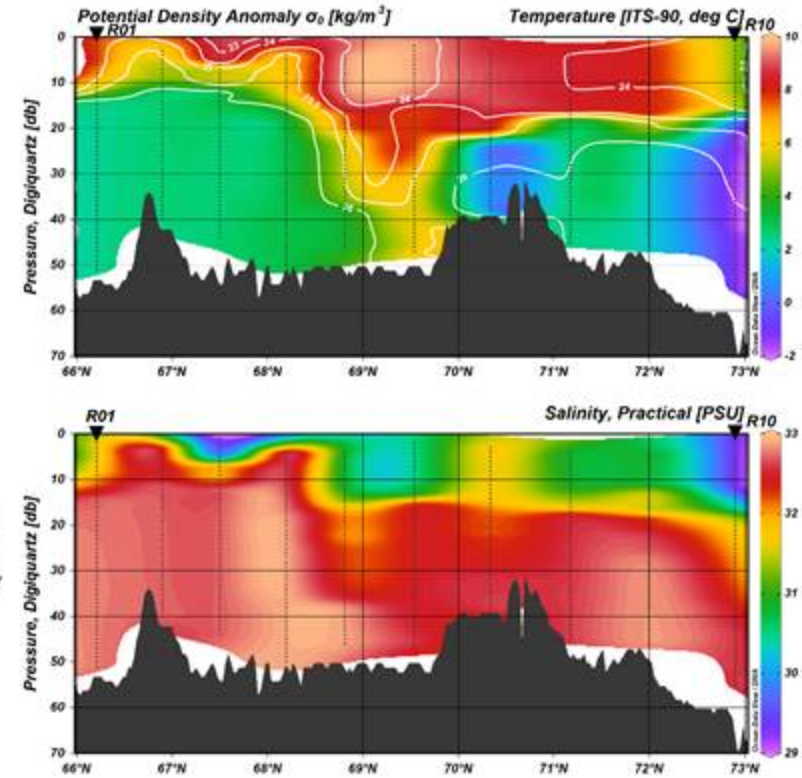
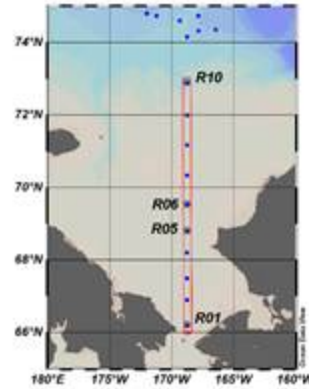
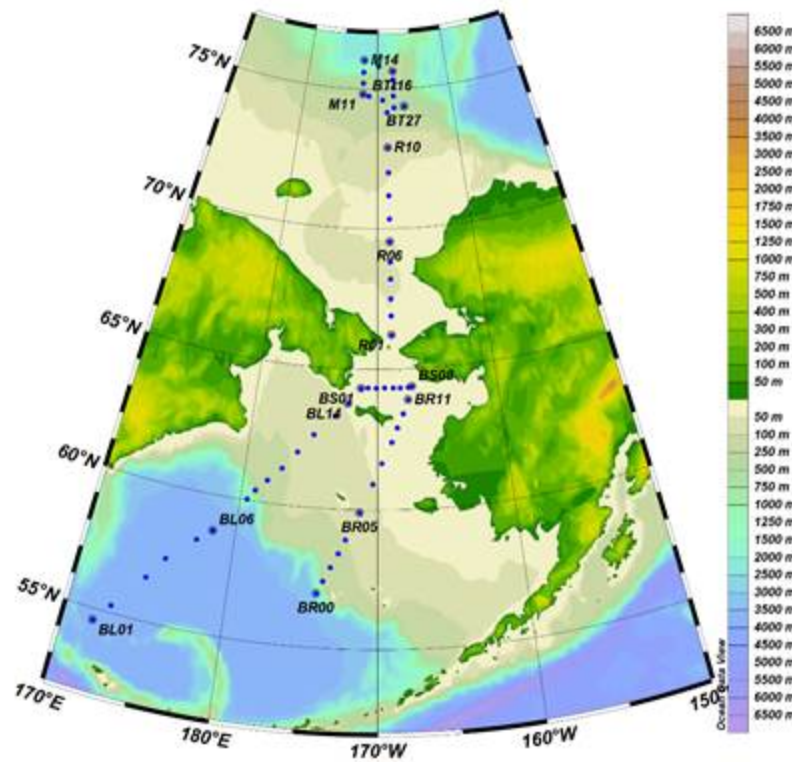
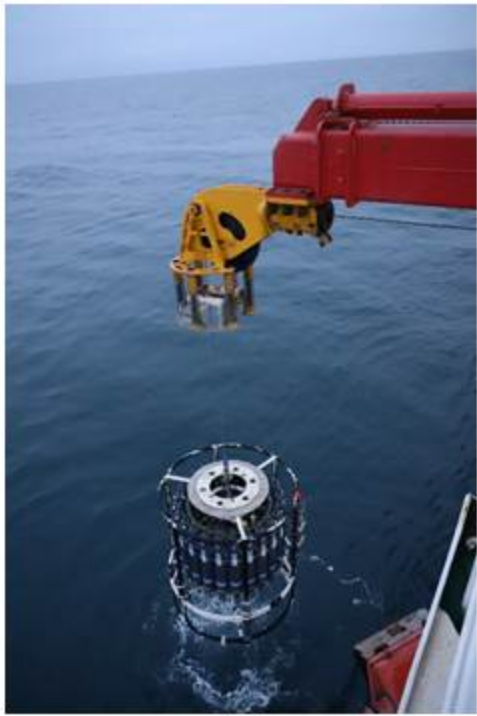
4. Stations



✓ 58 CTD stations

5. Physical Oceanography

(1) CTD/LADCP/SVP: 6 Transects, 58 Stations.

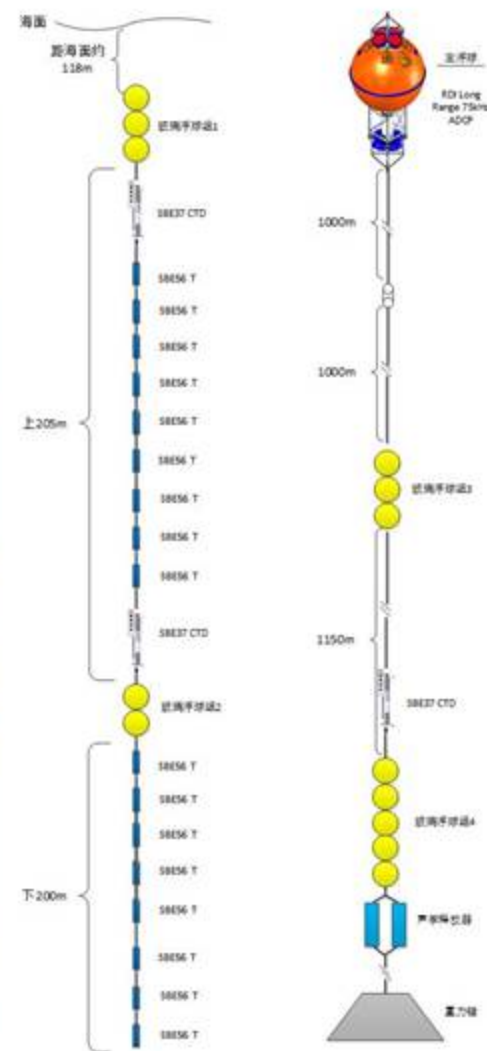


5. Physical Oceanography

(2) Mooring systems

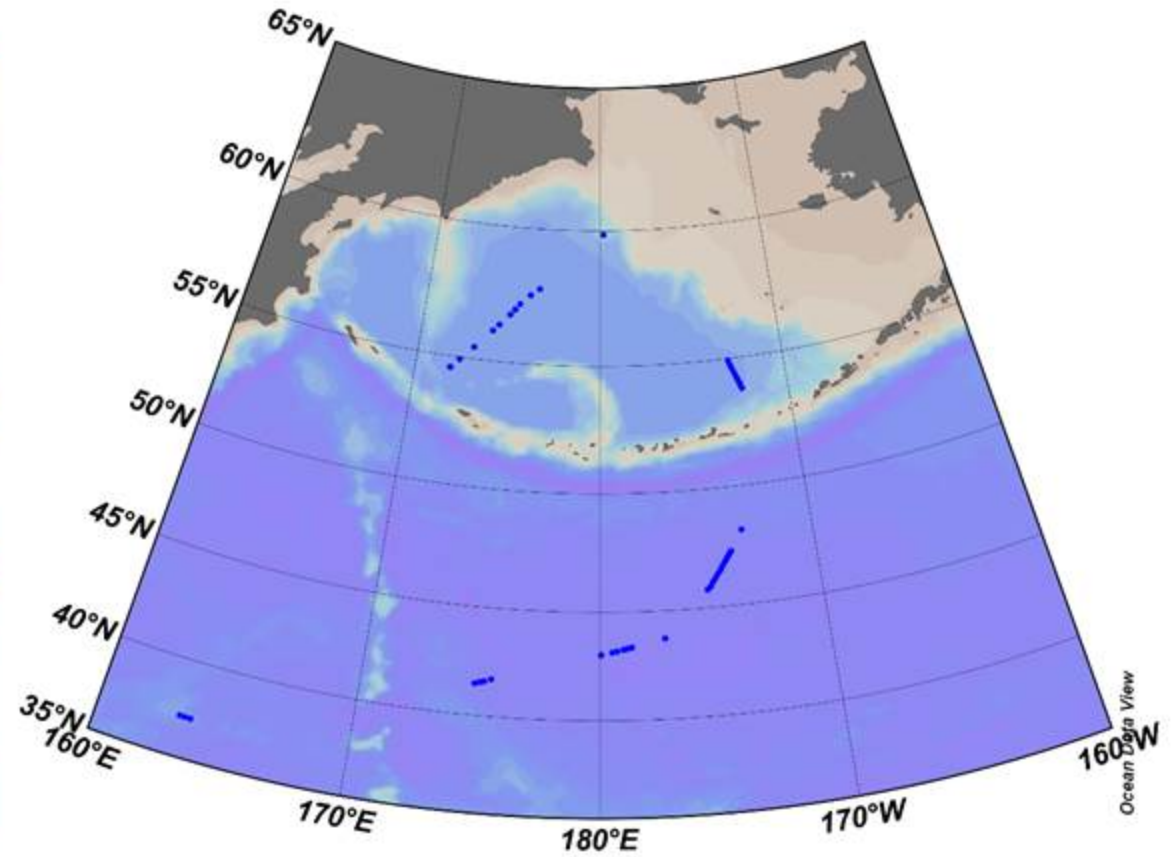
Chukchi Sea: 1 set

Bering Sea: 1 set



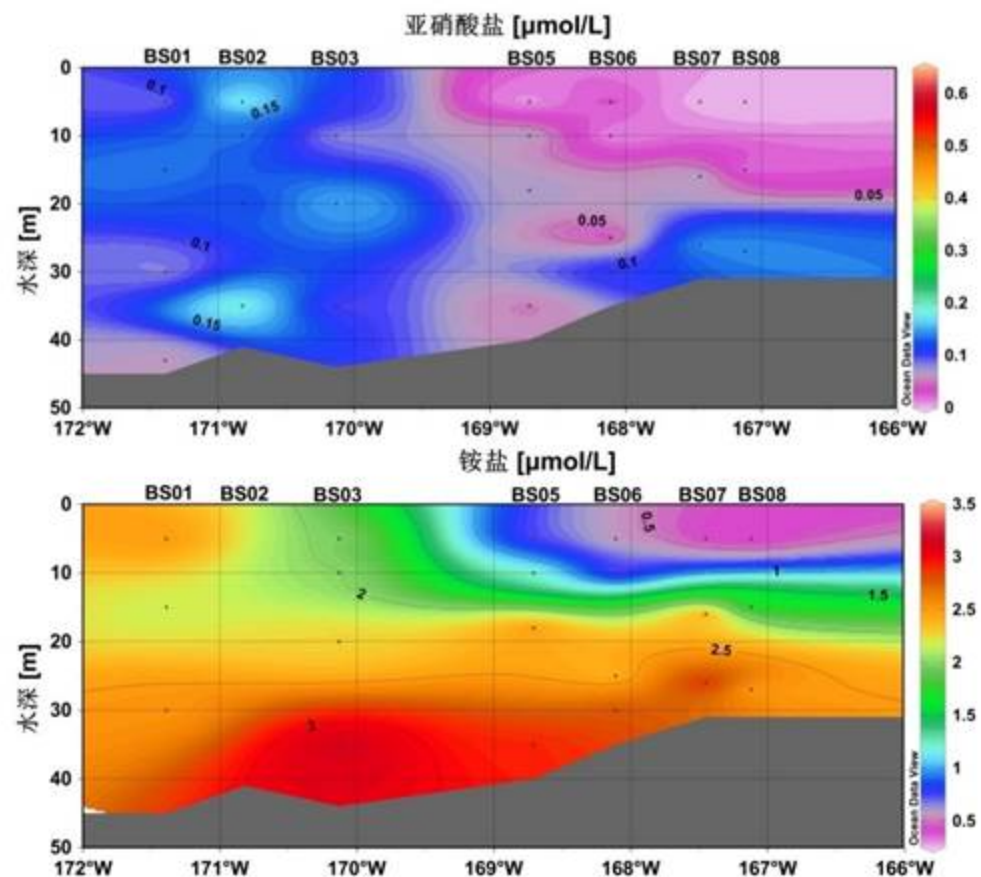
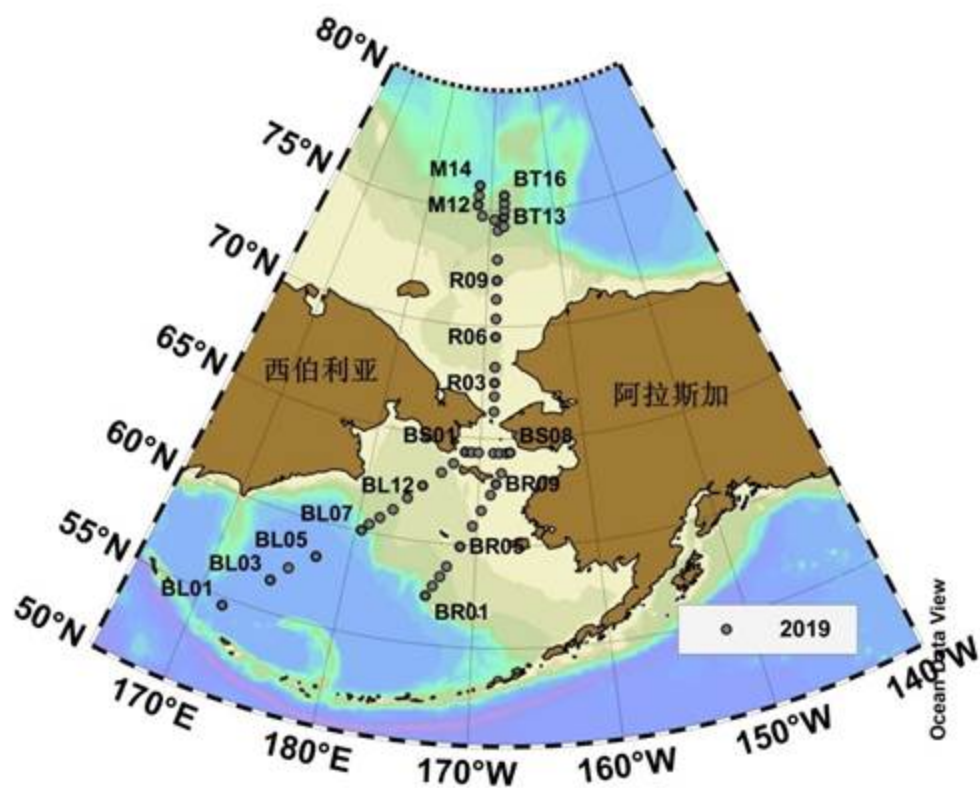
5. Physical Oceanography

(3) XCTD 18, XBT 36, Argos 3



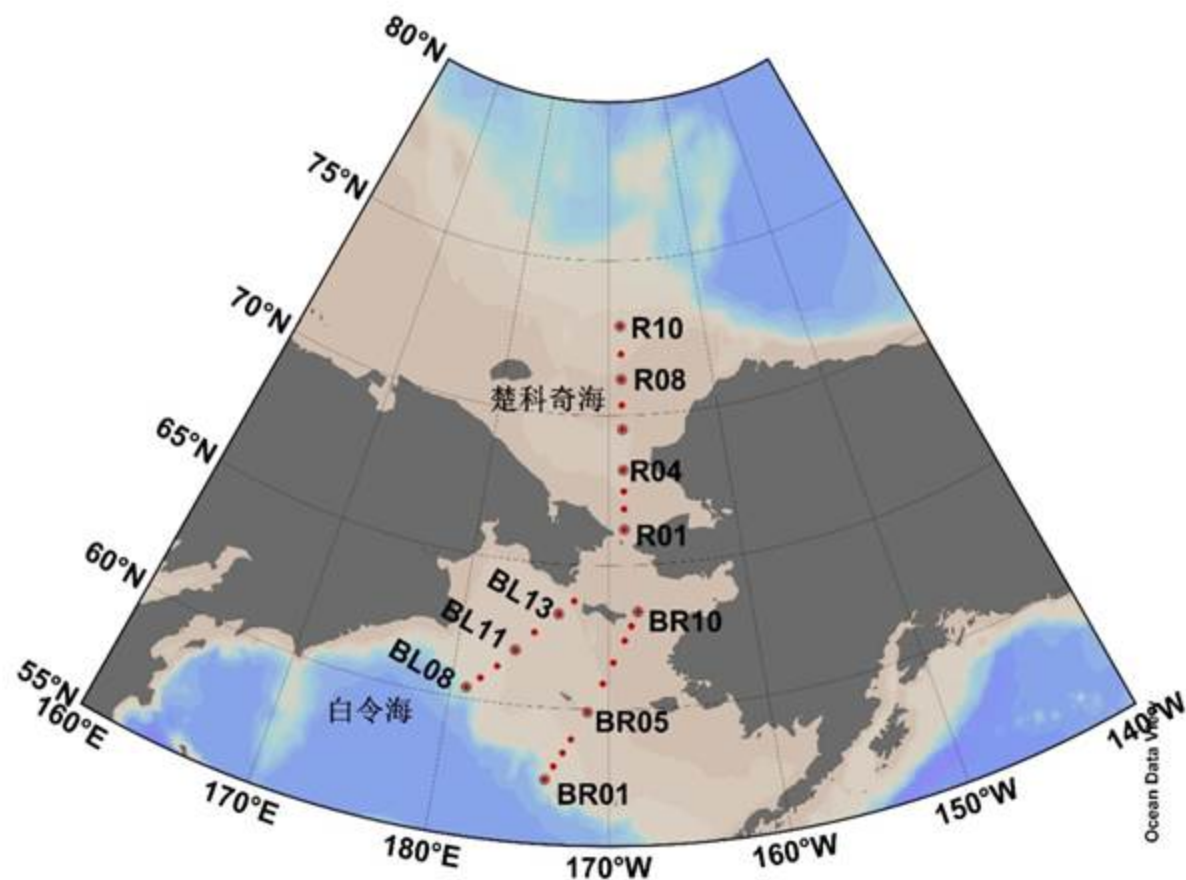
6. Chemical Oceanography

(1) Sea water sampling : 50 stations (nutrients, DIC, DOC, POC, DMS)



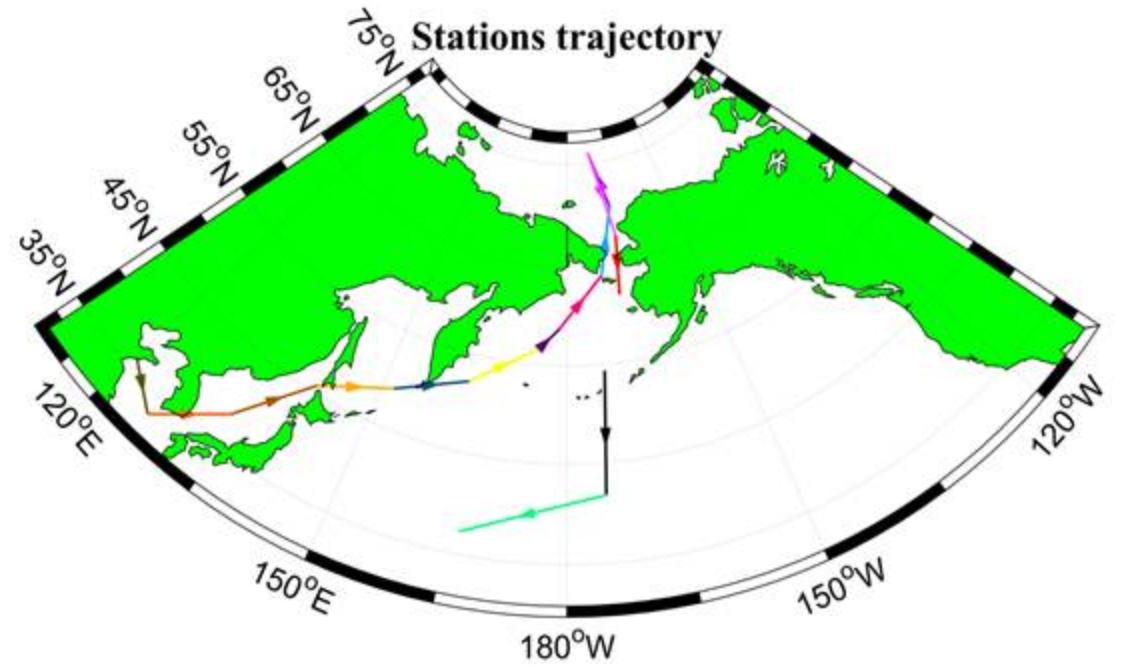
6. Chemical Oceanography

(2) Sediment sampling: 27 stations



6. Chemical Oceanography

(3) Aerosol sampling: 14



6. Chemical Oceanography

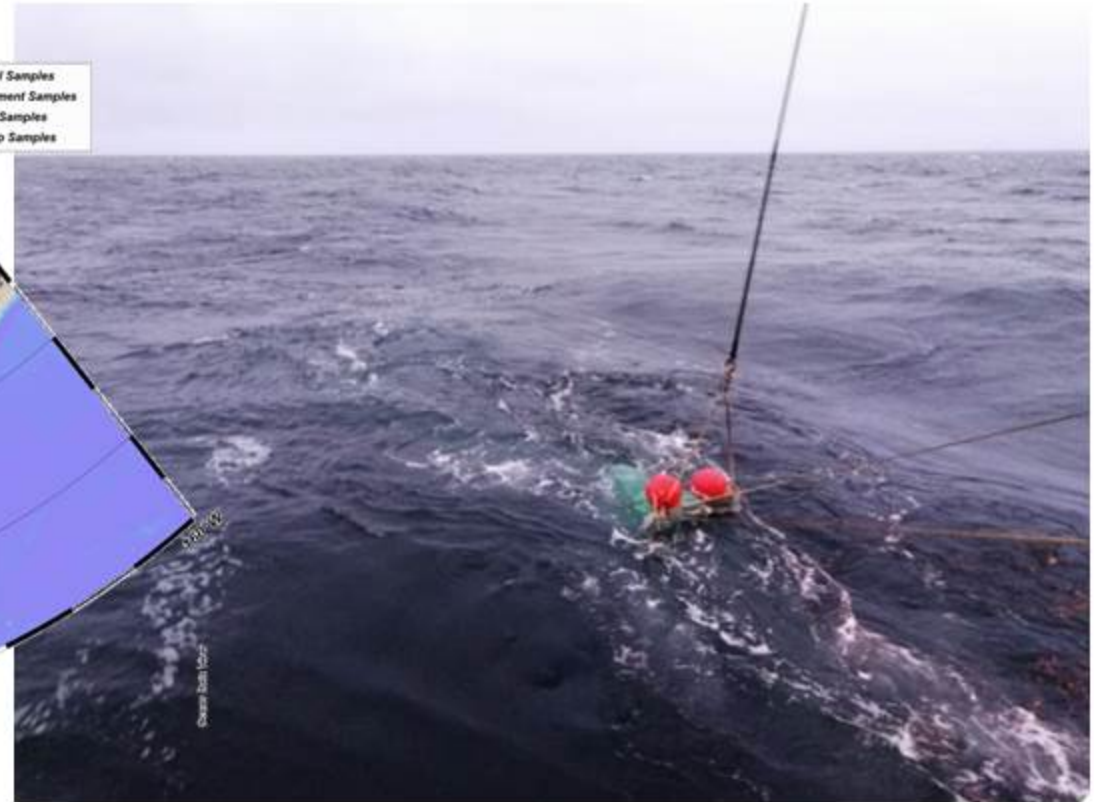
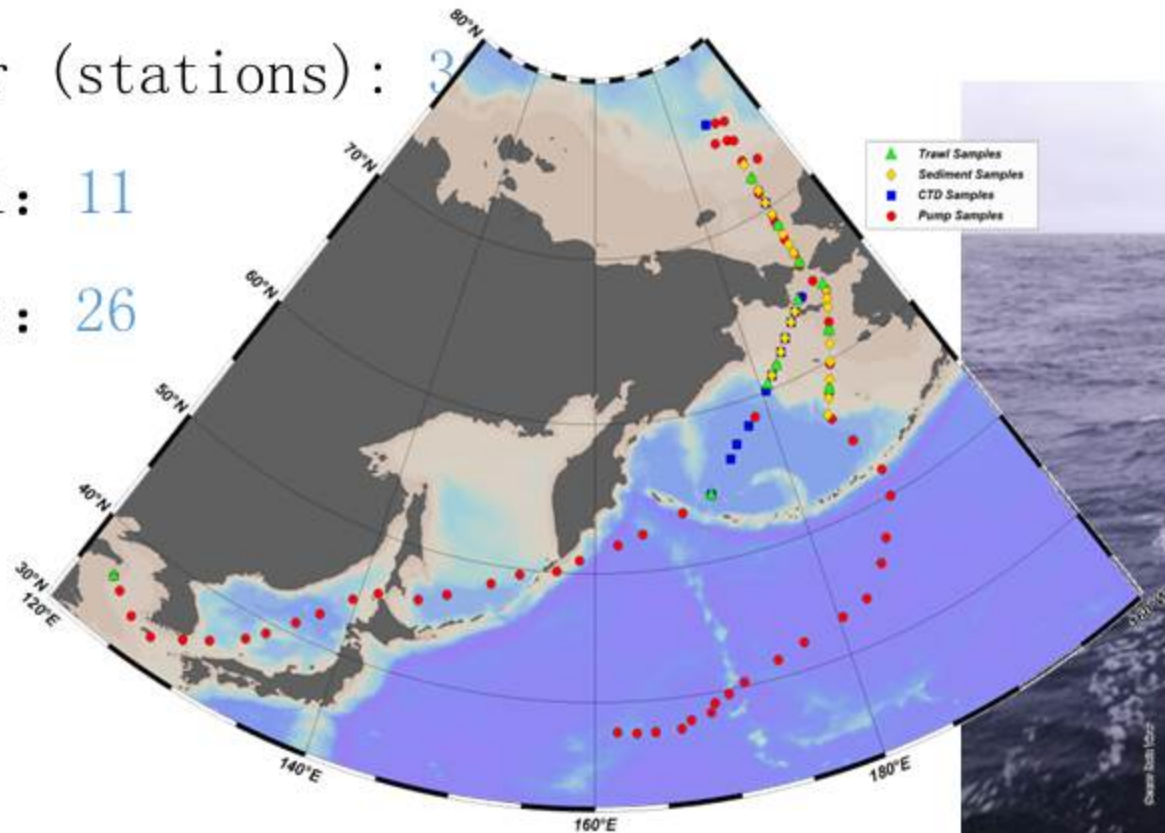
(4) Microplastic:

Sea water (surface) : 67

Sea water (stations) : 3

Net trawl: 11

Sediment:: 26



6. Chemical Oceanography

(5) Organic pollutant
sampling:

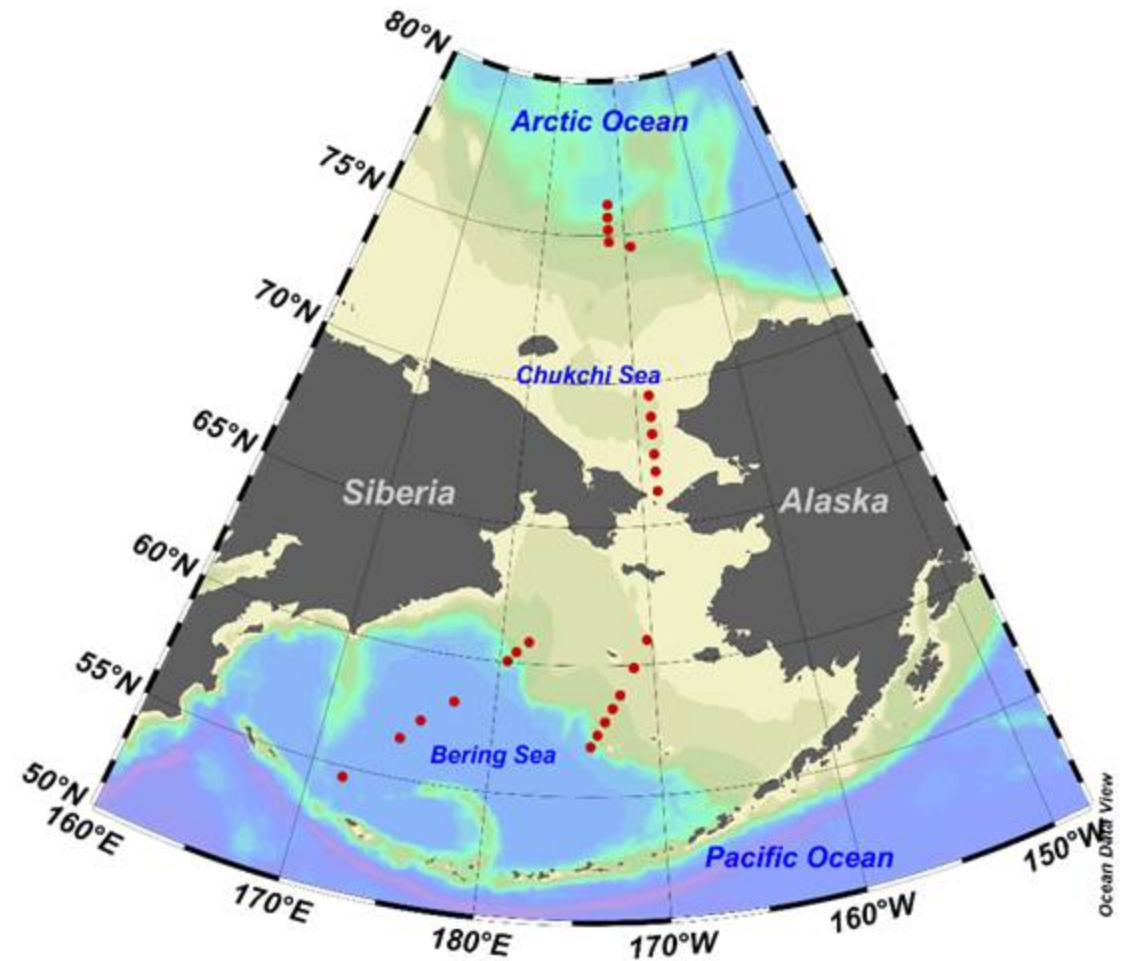
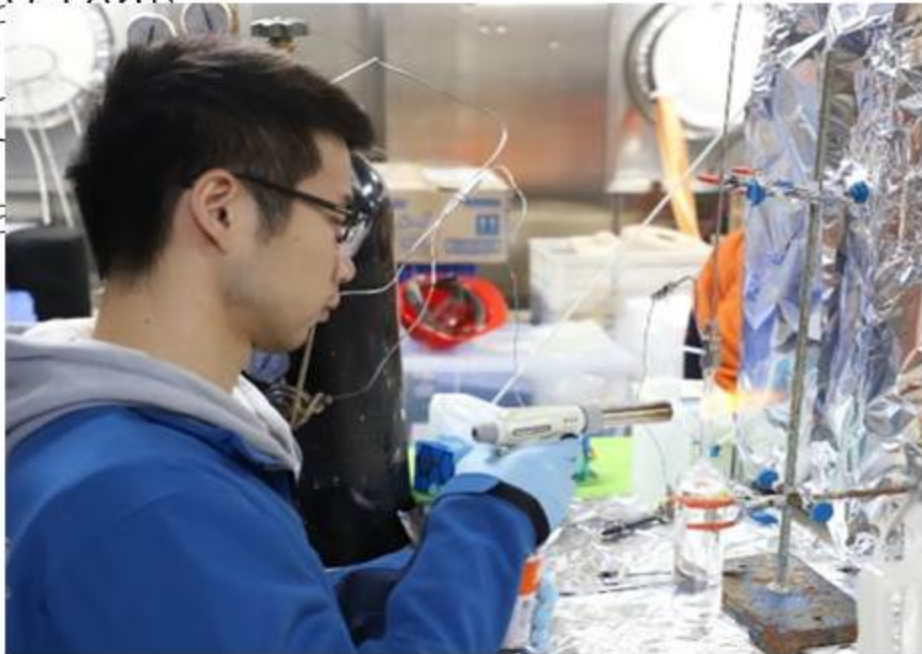
POPs water samples: 13 stations

POPs sediment samples: 17

stations

CFC

sta

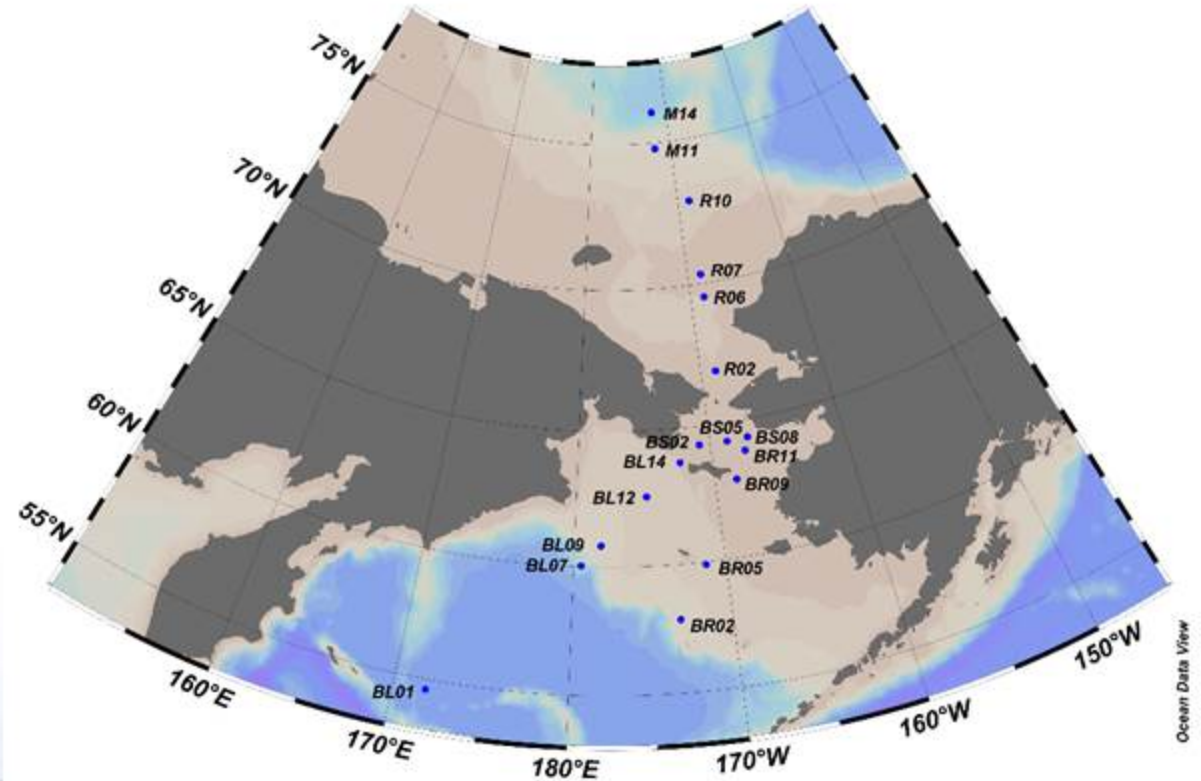


7. Biological Oceanography

(1) Vertical trawl:

Phytoplankton: 18

Zooplankton: 18



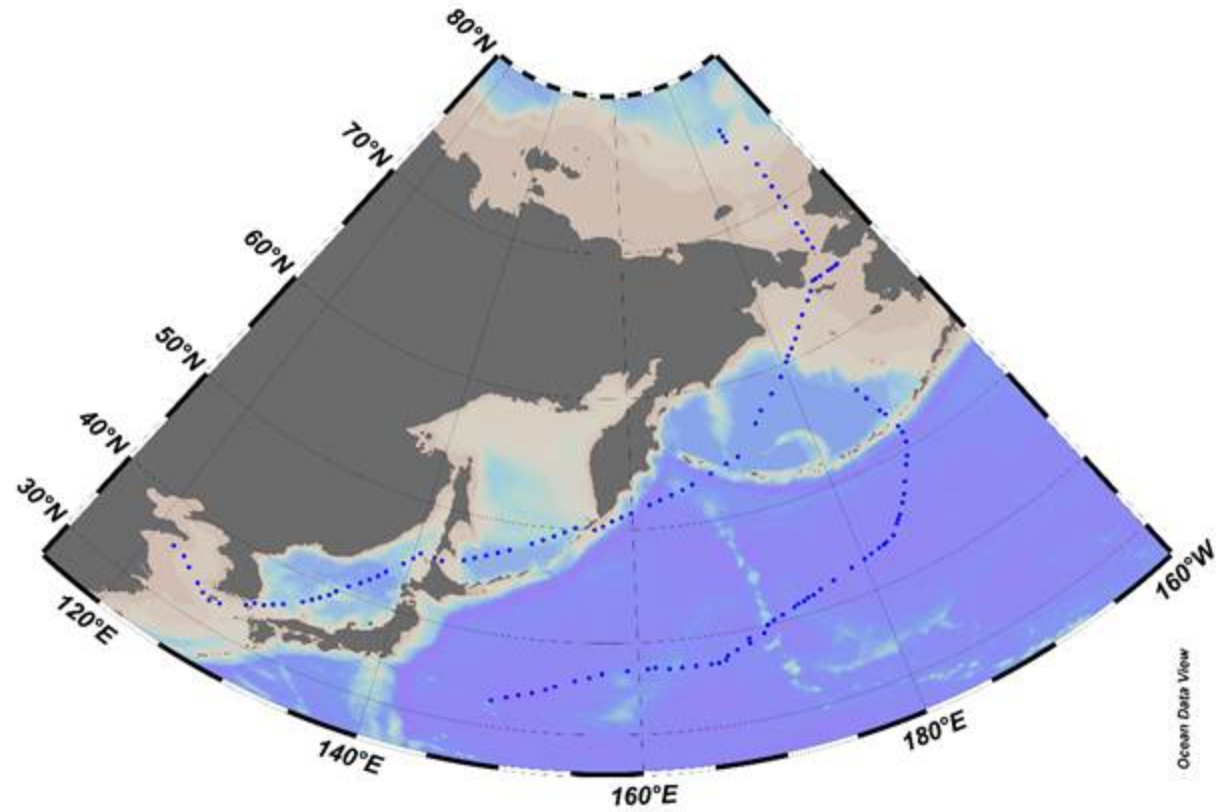
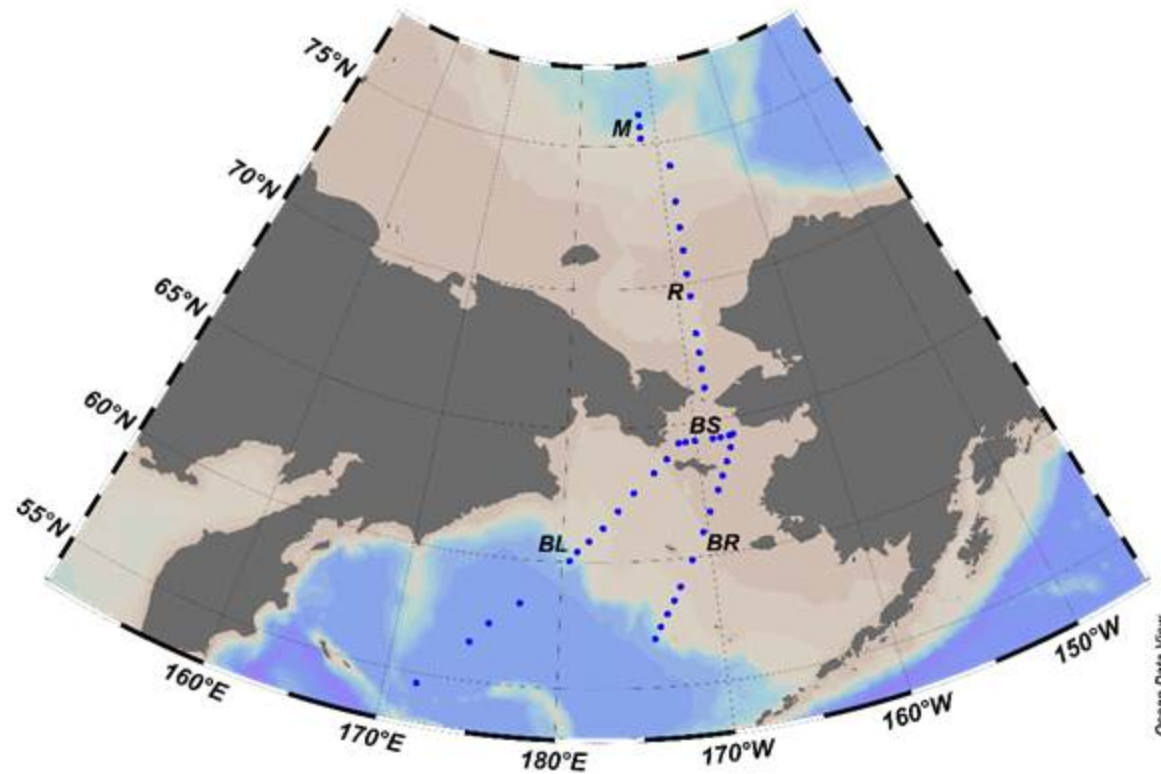
6. Biological Oceanography

(2) Benthic
sampling: 26 stations



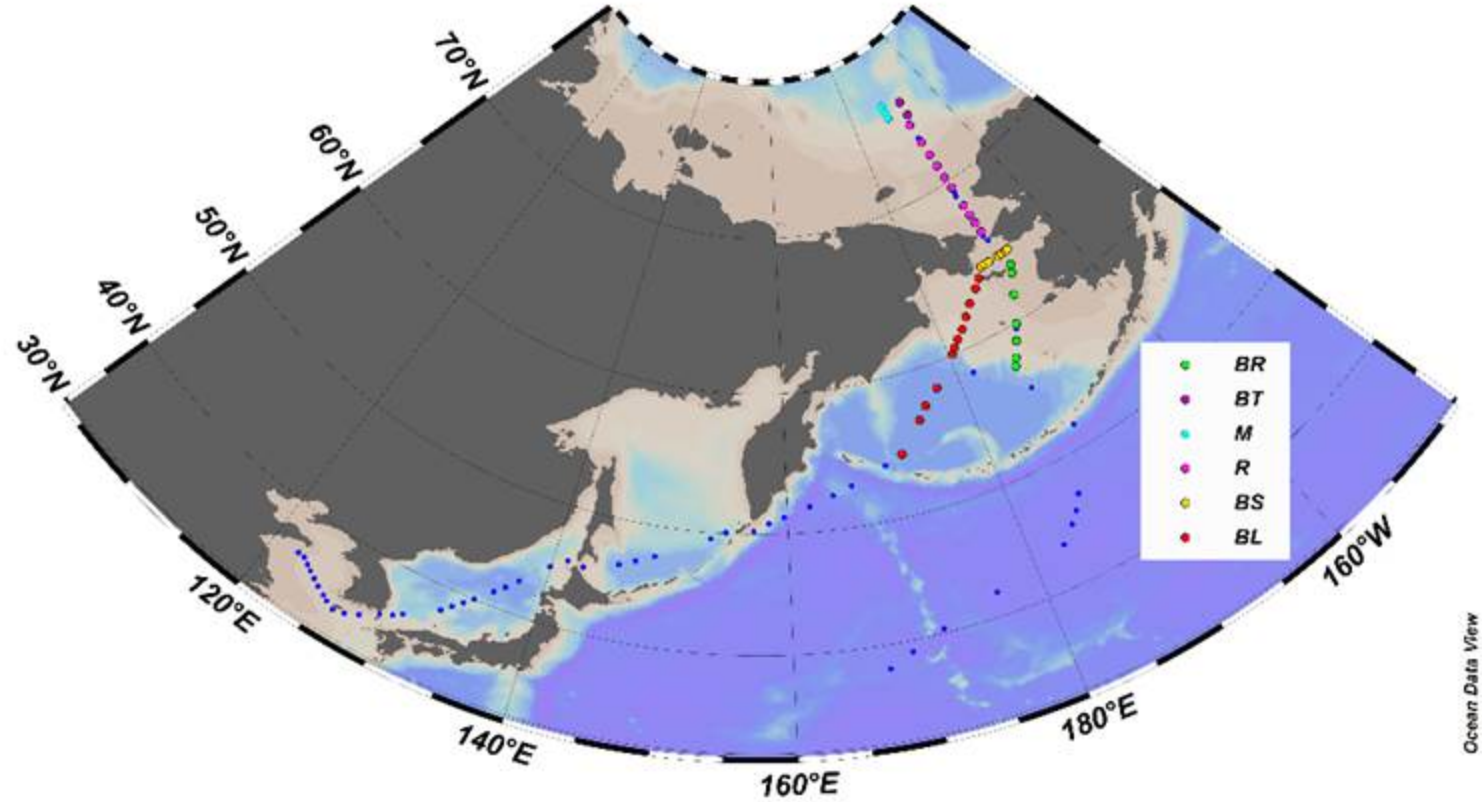
7. Biological Oceanography

(3) Microzooplankton
sampling : 44 stations



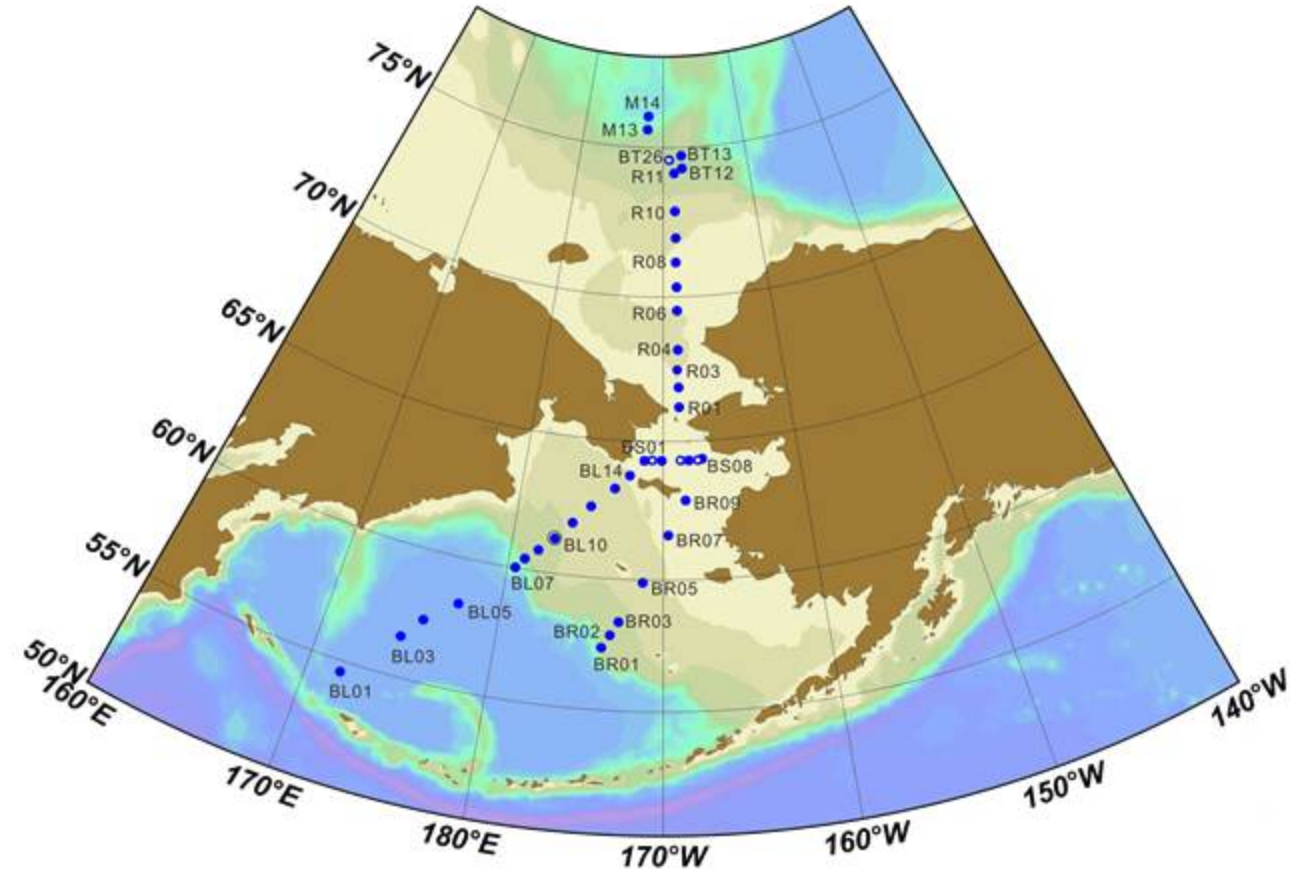
7. Biological Oceanography

(4) Chlorophyll1 : 248 samples



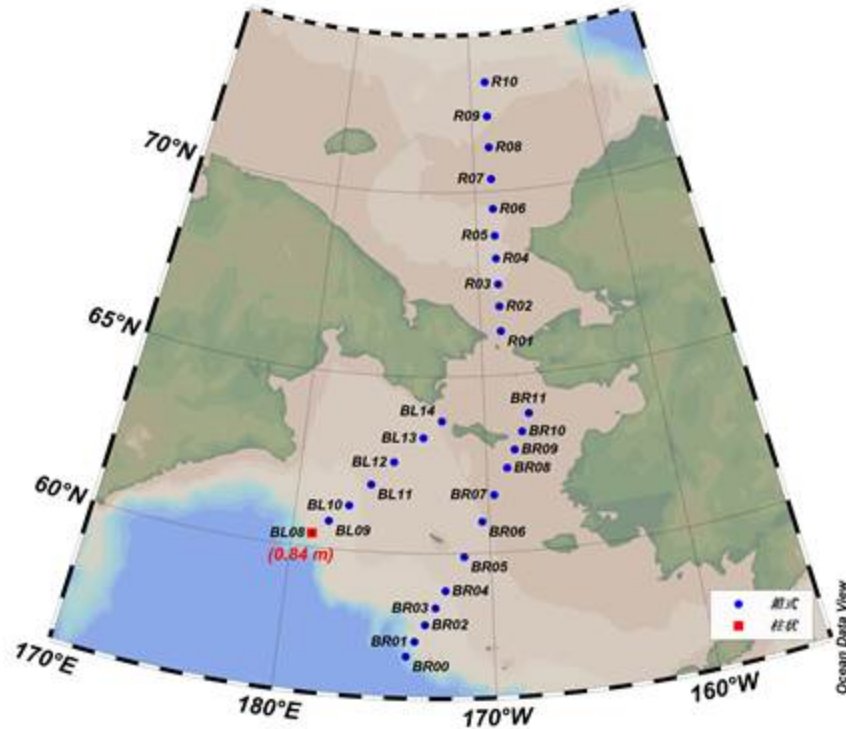
7. Biological Oceanography

(5) Microbial biodiversity: 40
stations



8. Marine geology

Sediment sampling: 29 stations



Thanks!





雪龙2 XUE LONG 2
中国上海 SHANGHAI CHINA
IMO 9829241

CHINA

A wide-angle photograph of a large red and white ship, the 'CHINARE', sailing on a calm body of water. The ship is positioned in the center of the frame. To the left, a wooden pier extends into the water. To the right, a large crane structure is visible. In the background, there are low mountains under a cloudy sky. The word 'CHINARE' is overlaid in large white letters across the middle of the image.

CHINARE