

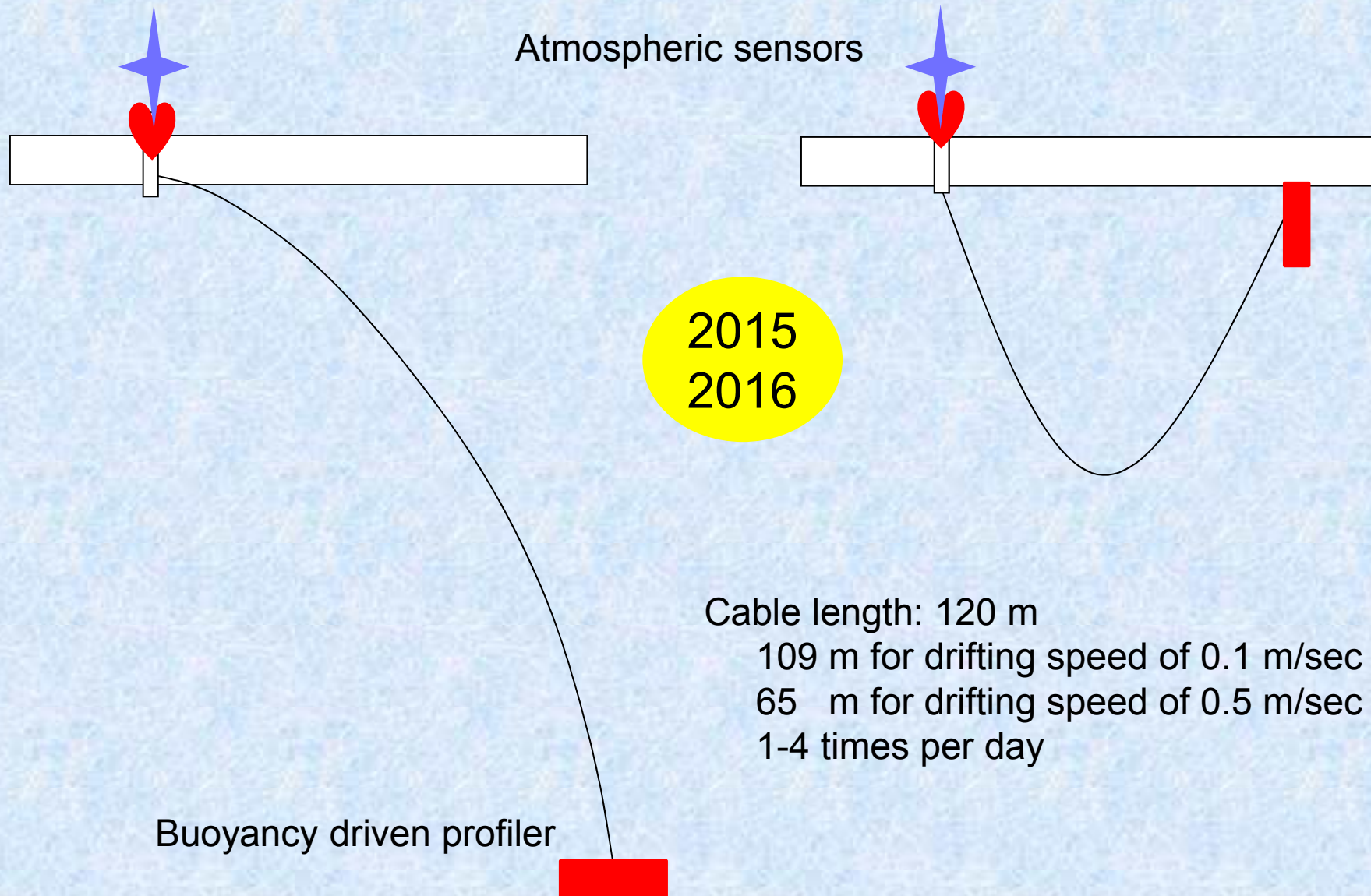
# PAG autumn meeting in Qingdao

## Introduction for new deployed Drift-Towing Ocean Profiler (D-TOP)

Jinping Zhao and Tao Li  
Ocean University of China



# Principle of D-TOP

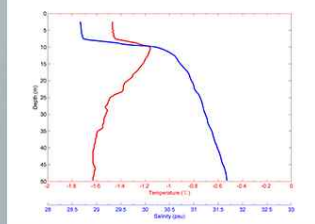






# Deployment from ARAON in 2015

Location: 80°45.2862'N 172°30.4663'E  
Date: August 12, 2015  
Cruise: Korean Arctic Expedition 2015





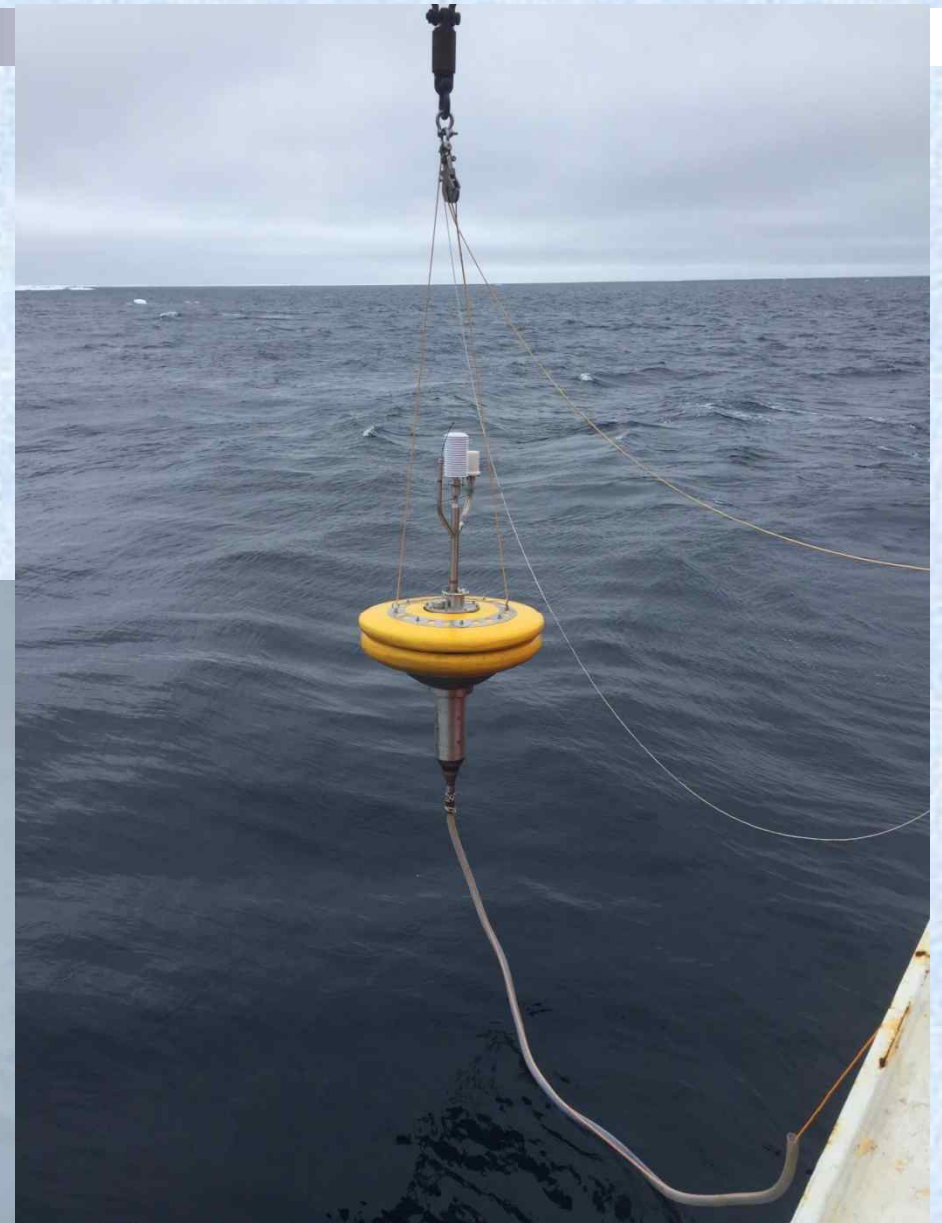
# 2016 deployment from Xuelong



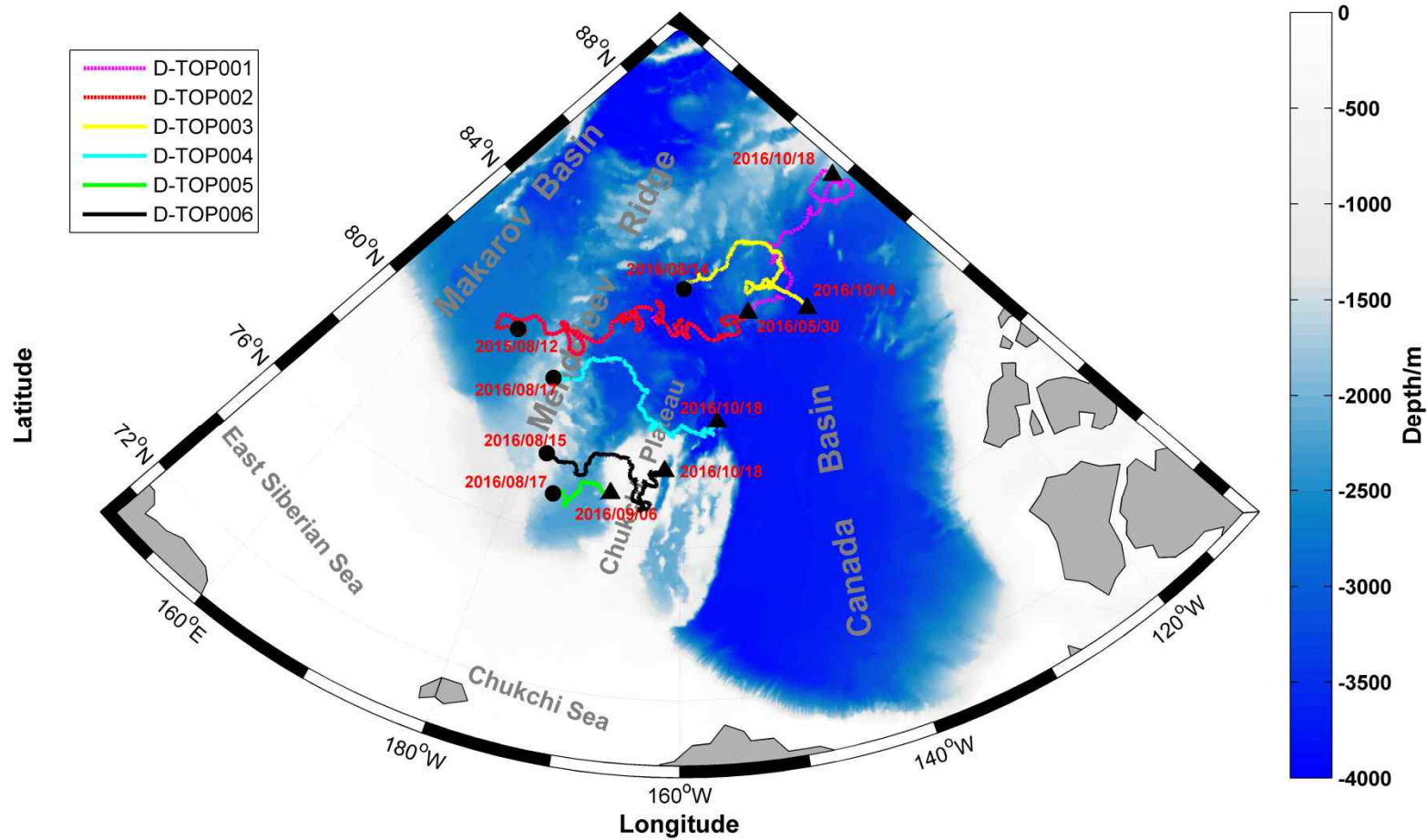
# 2016 deployment from ARAON



2016/08/15 09:23

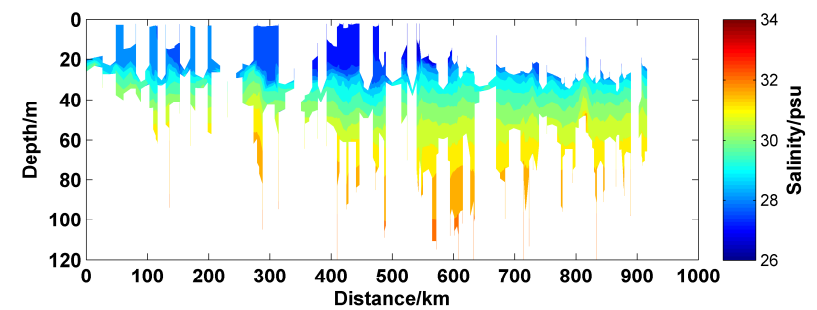
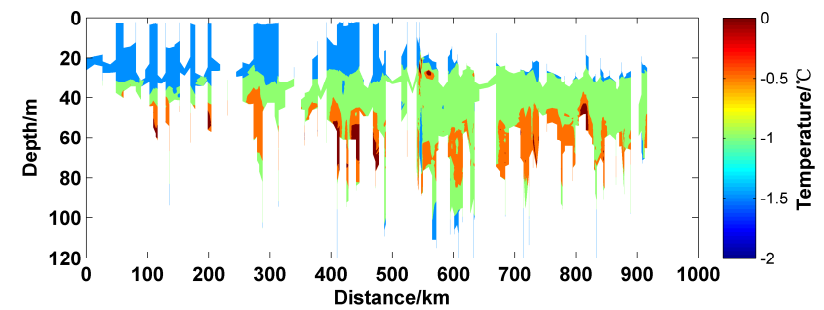
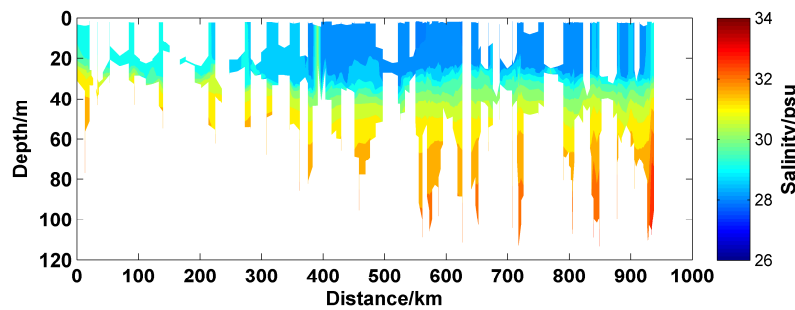
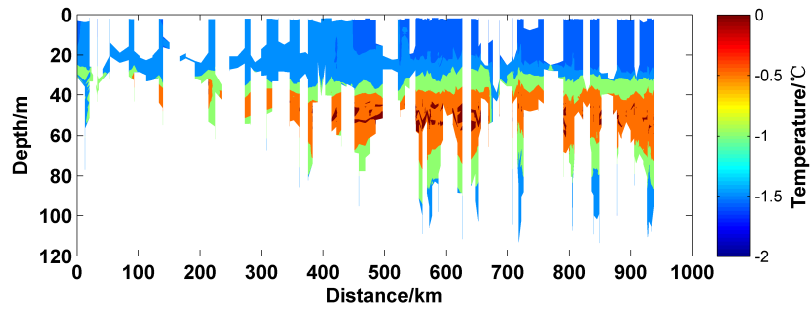
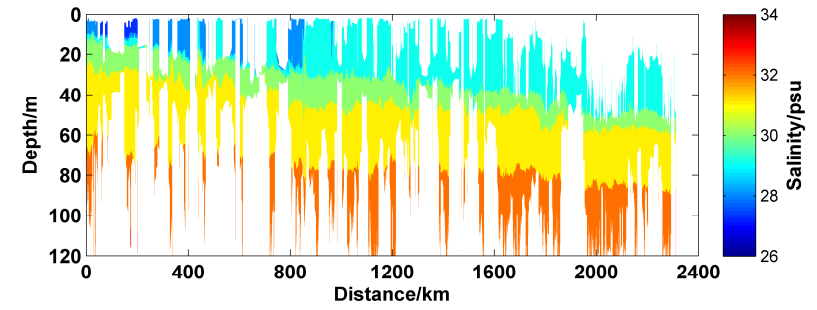
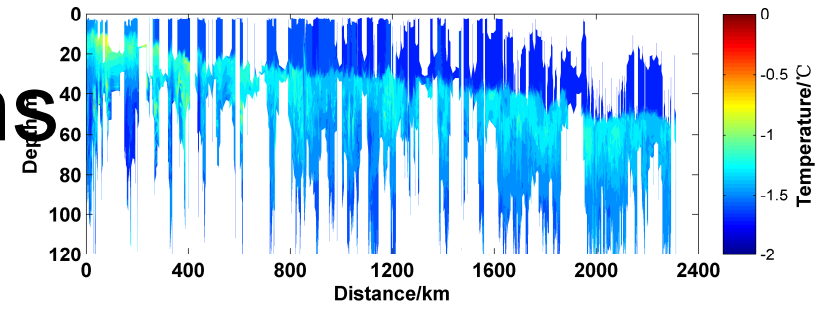
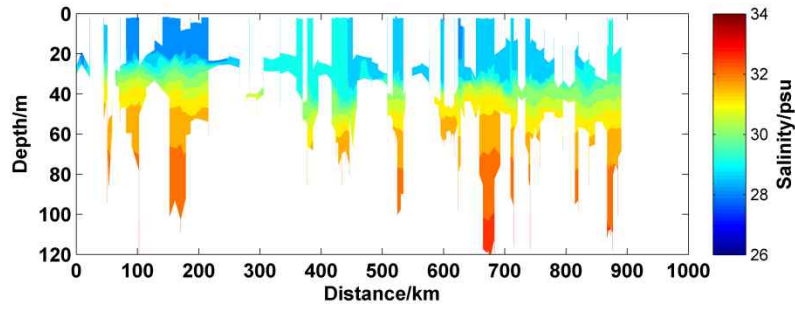
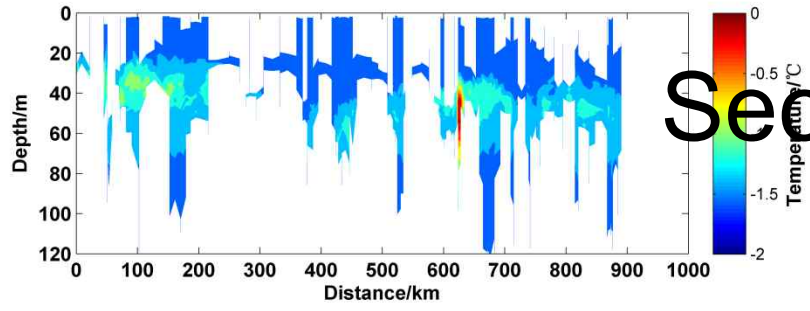




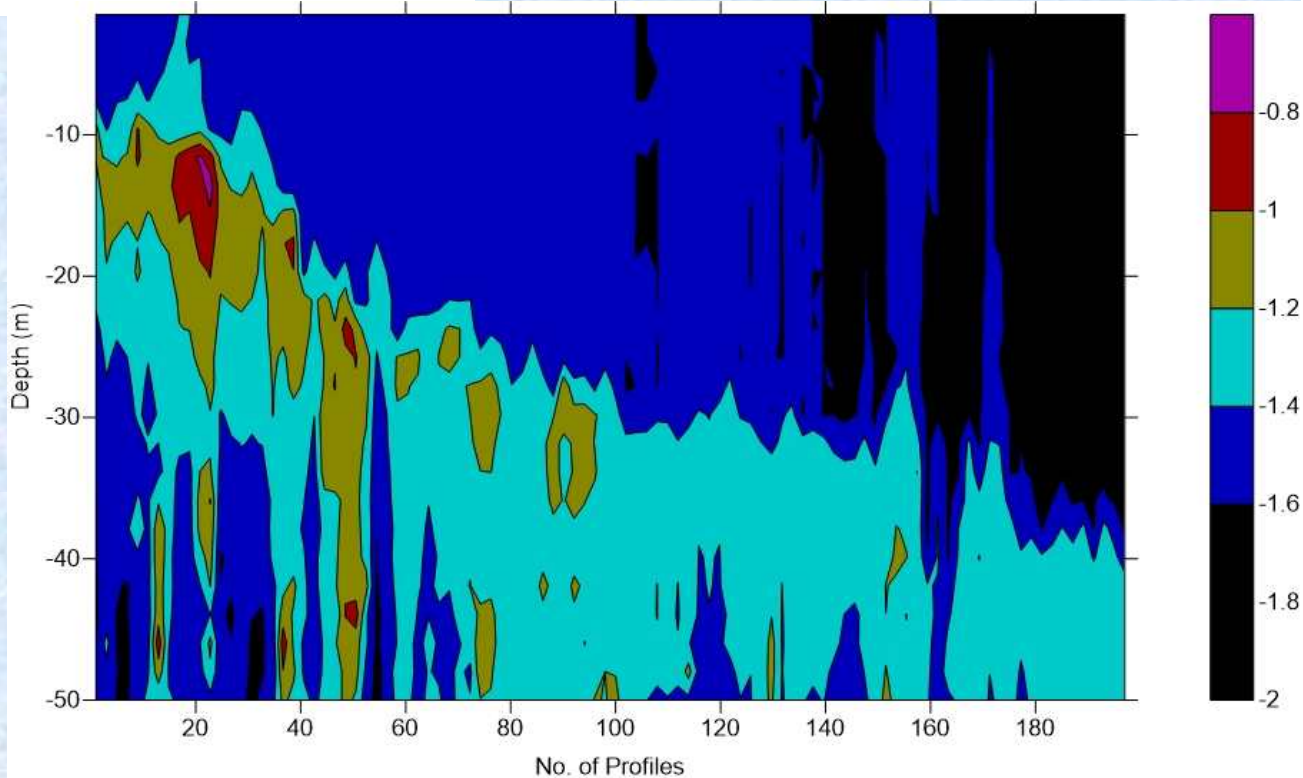
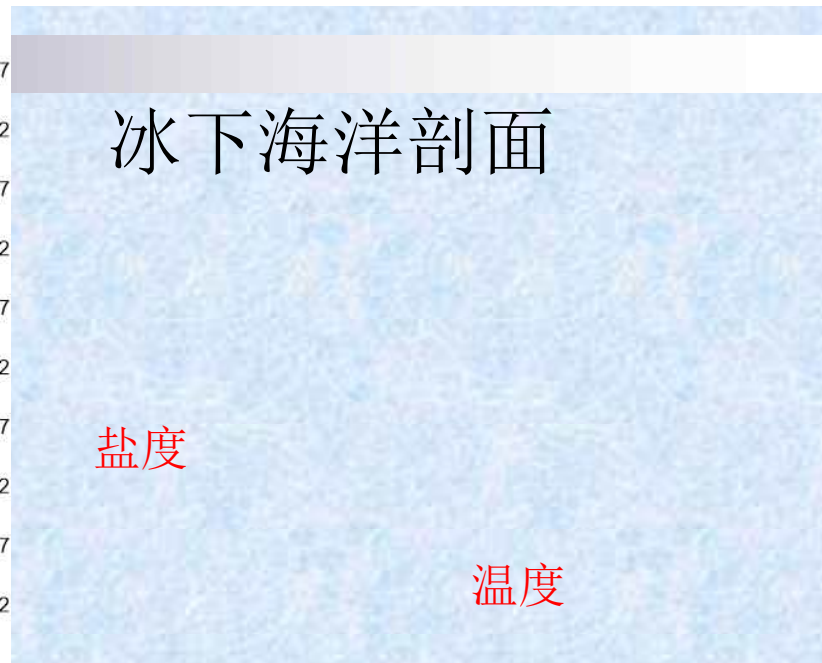
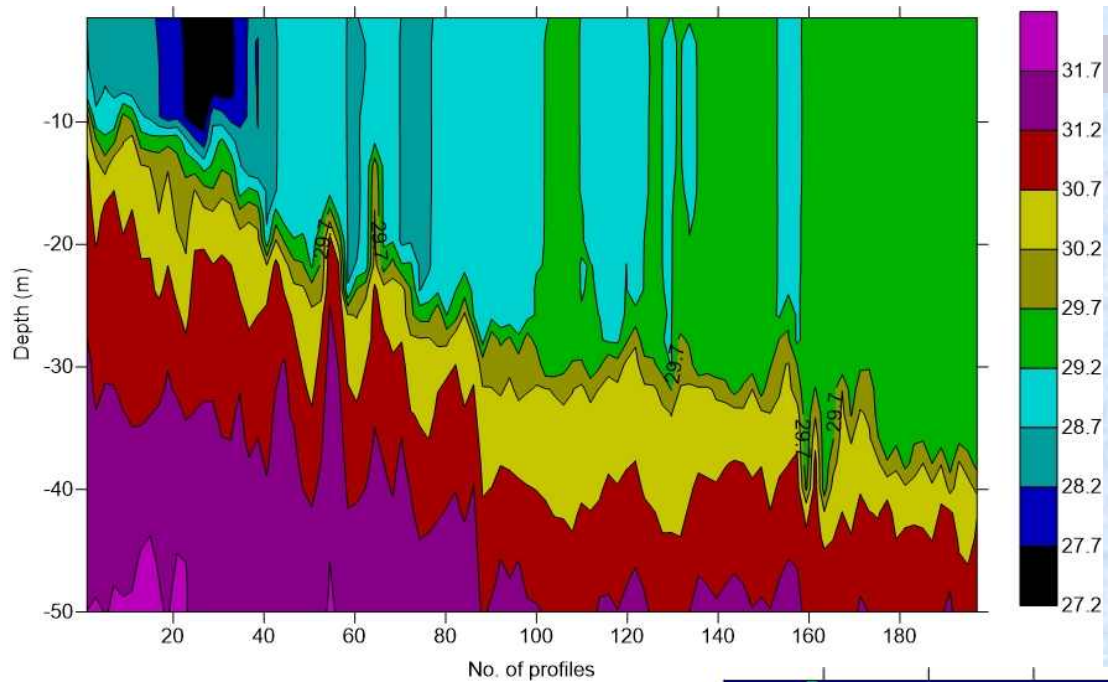


No.	Date	Deployed from	Status	Profiles
D-TOP1501	2015-8-12	ARAON	Running	875
D-TOP1502	2015-8-12	ARAON	2016-5-30	583
D-TOP1601	2016-8-14	XUELONG	Running	121+20
D-TOP1602	2016-8-17	XUELONG	Running	138
D-TOP1603*	2016-8-17	ARAON	2016-9-5	34
D-TOP1604	2016-8-15	ARAON	Running	143

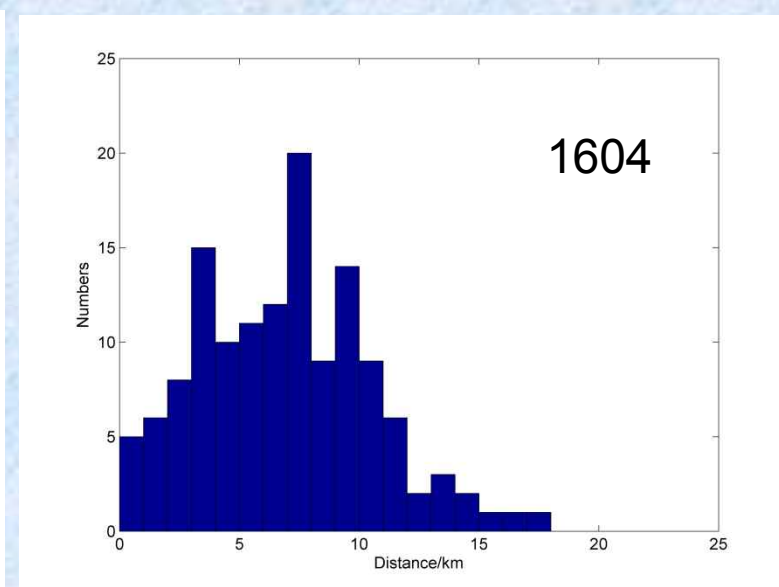
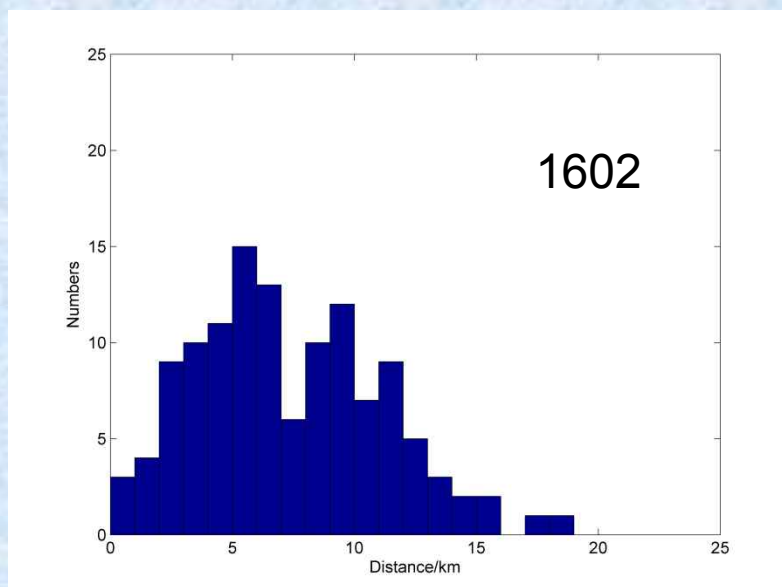
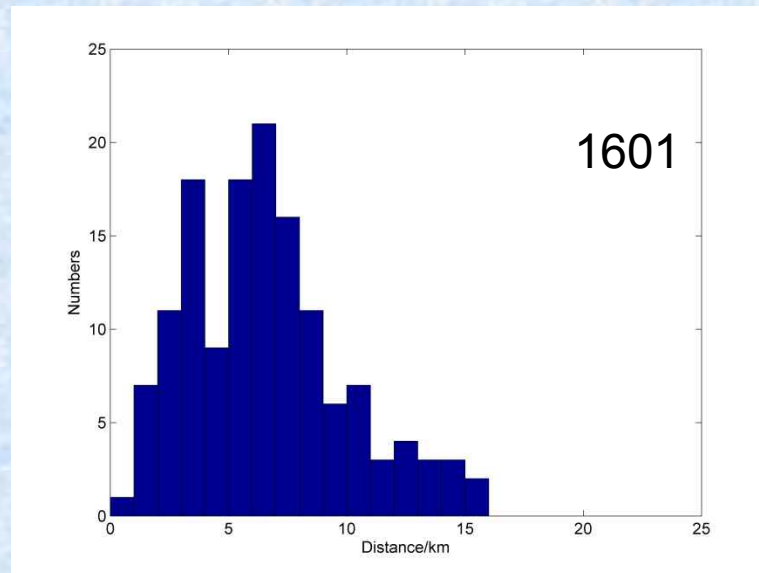
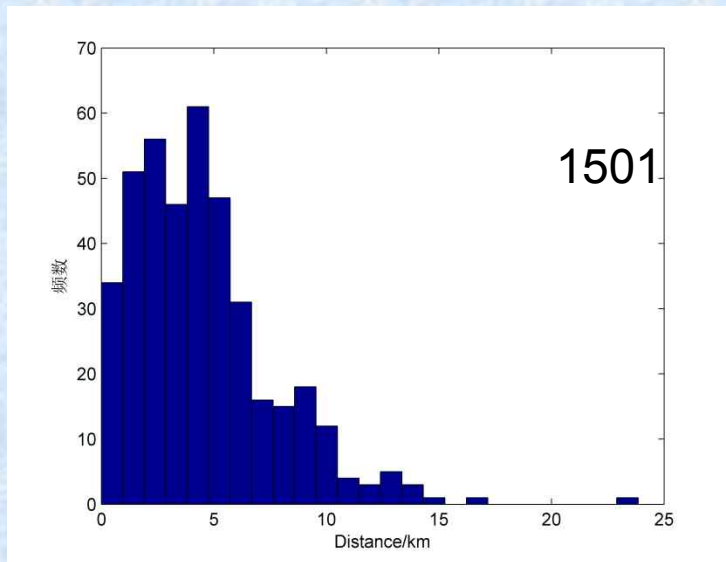
# Sections





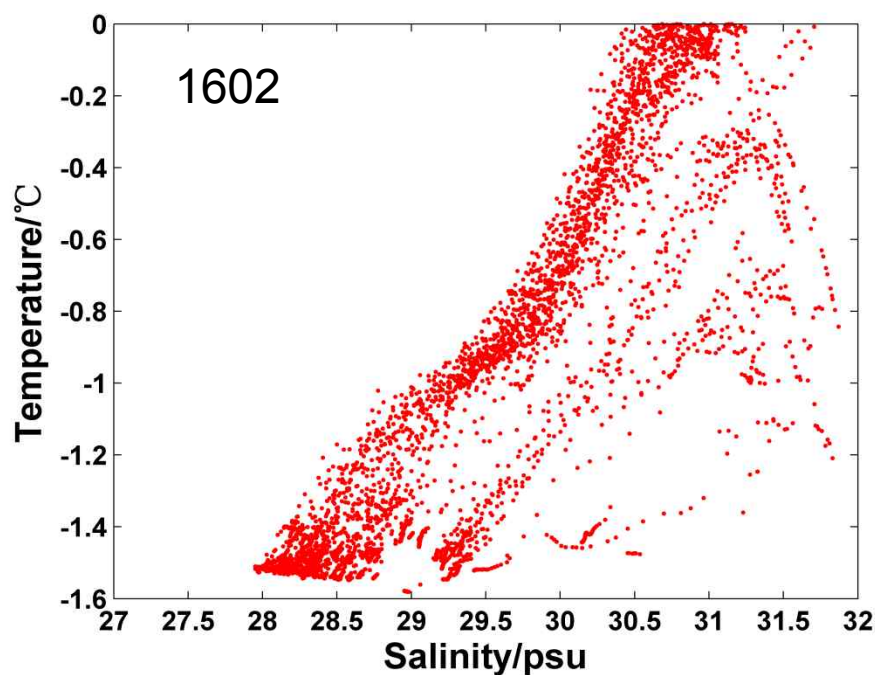
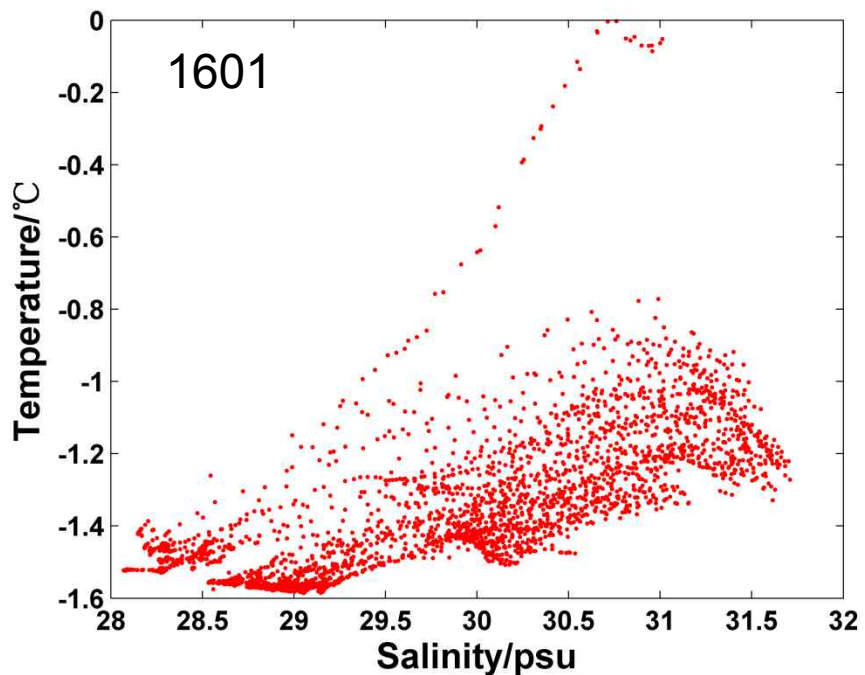
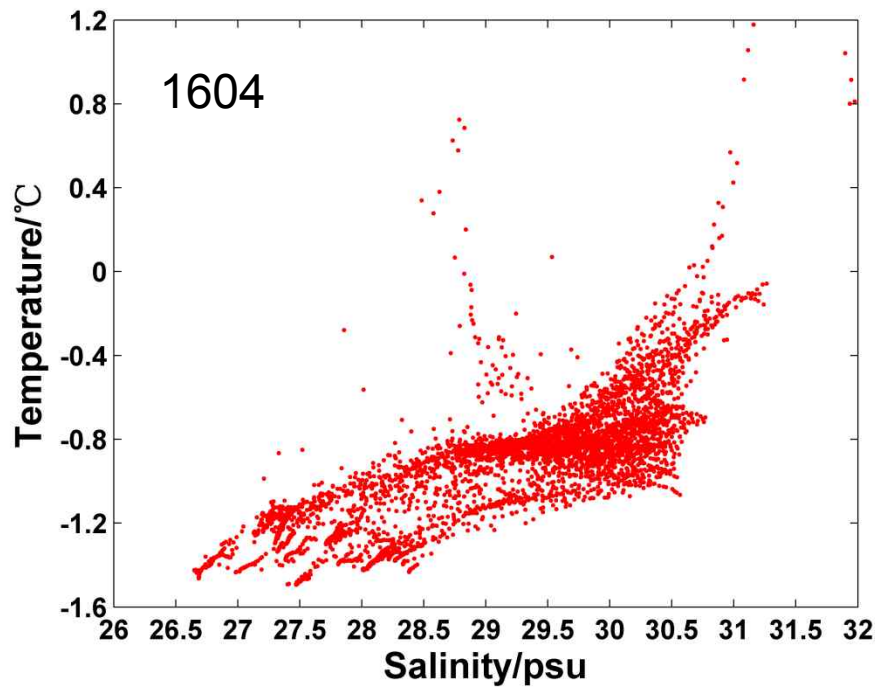
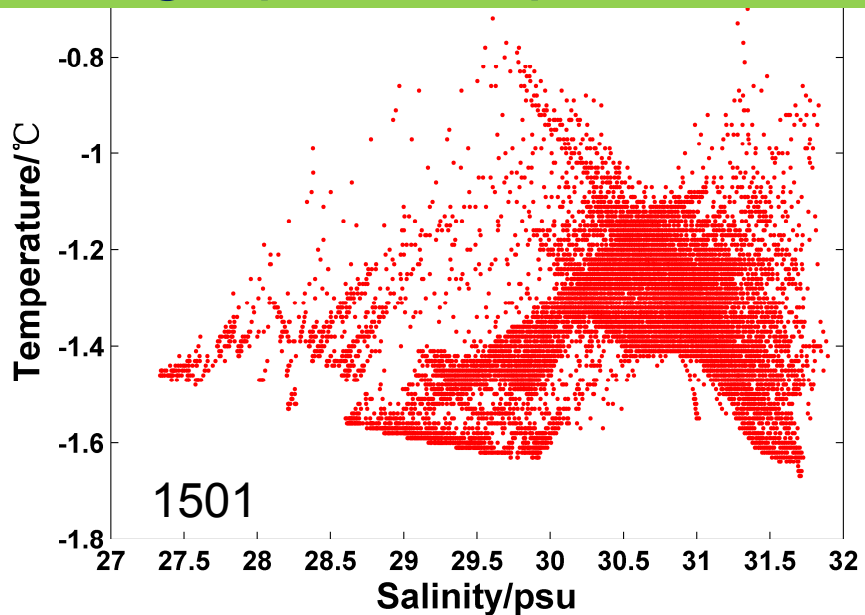


# Spatial resolution



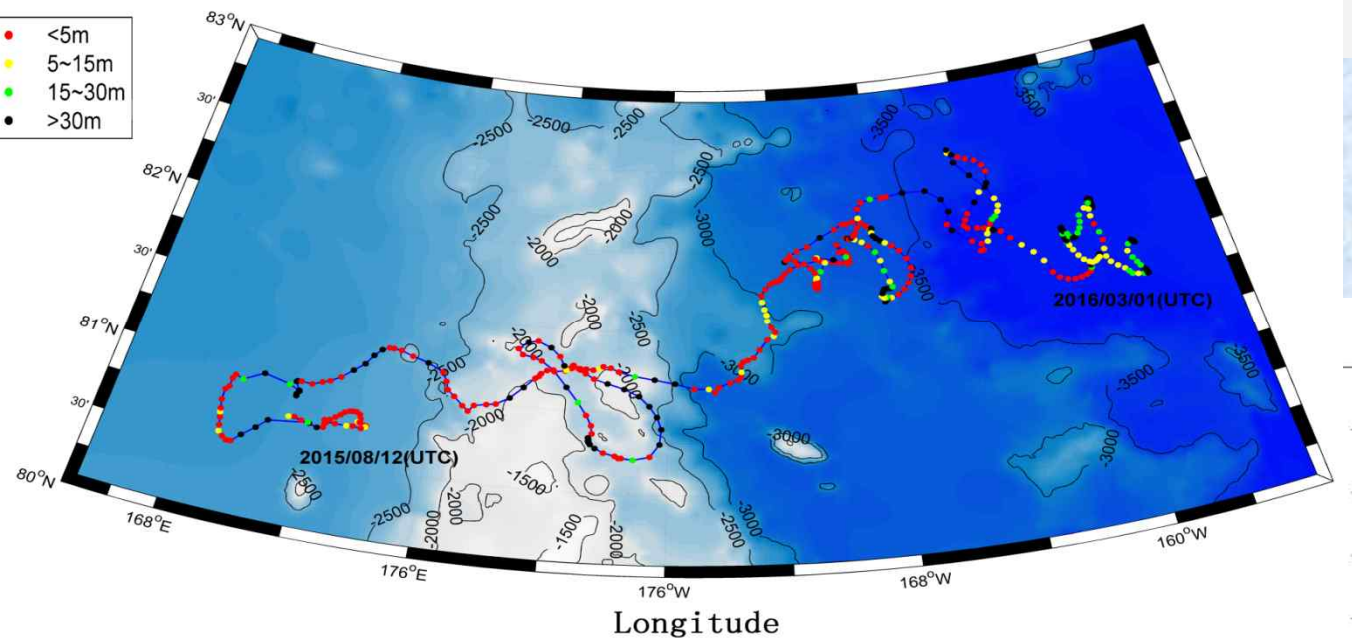


# T-S graph on top 50 meters



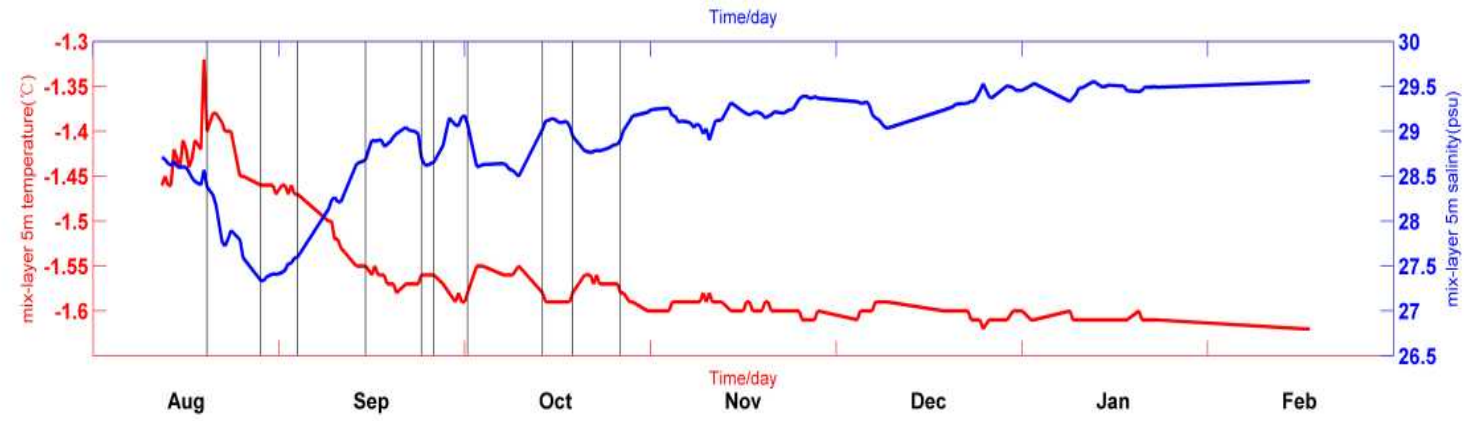
Latitude

- <5m
- 5~15m
- 15~30m
- >30m



Longitude

50  
Aug Sep Oct Nov Dec Jan Feb





## Further plans for D-TOP

2017: deploy two ocean-type sets by NABOS cruise

New D-TOP: Funded by MOST

Carrying up to 6 additional sensors

2017: develop two sets and test in deep lake

2018: deploy two sets in Arctic

2019: deploy two integrated systems in Arctic