

AGENDA

9:00-18:00 (UTC+8) May 25, 2023

Opening Ceremony

Meeting Room: Conference Center Back Hall

Chair: Jiuxin Shi

9:00-9:30

Welcoming Address+POGOC Introduction+Group Photo

Keynote Lectures

Meeting Room: Conference Center Back Hall

9:30-10:00	Matthew England	Abyssal ocean overturning slowdown and warming driven by Antarctic meltwater
10:00-10:30	Wenju Cai	Southern Ocean heat uptake and El Nino variability under greenhouse warming
10:30-10:45		Tea Break
10:45-11:15	Meng Zhou	Perspectives on the Ross Sea Ecosystem studies and monitoring
11:15-11:45	Akiho Shibata	Asian cooperation in strengthening the Antarctic governance: towards 2026 ATCM in Japan

Session: Southern Ocean Heat Uptake and Its Climatic Impacts

Meeting Room: Conference Center Back Hall

Chair: Yiyong Luo

14:00-14:20 16:00-16:20 (UTC+10)	Helen Phillips	Mechanisms of poleward heat transport in the Antarctic Circumpolar Current (Online)
14:20-14:40	Yan Du	Evolution of the subantarctic mode water in the Southern Ocean
14:40-15:00	Lixiao Xu	Buoyancy and wind driven effects on recent changes of the Subantarctic Mode Water
15:00-15:20	Shiming Xu	Observing Antarctic Marginal Ice Zones with Satellite Altimetry Synergy – A Case Study of the Indian Ocean Sector during July, 2017
15:20-15:40	Zhi Li	Key role of Southern Ocean water masses in global heat uptake using Argo measurements
15:40-16:00	Yu Hong	Origins and pathways of the Antarctic Intermediate Water
16:00-16:35		Tea Break

Chair: Fukai Liu

16:35-16:55	Kewei Lyu	Roles of surface forcing in shaping the Southern Ocean rapid warming
16:55-17:15	Xiaoming Hu	Role of seasonal energy transfer mechanism in the Antarctic Warming and its inter-model spread in CMIP6
17:15-17:35 5:15-5:35 (UTC-4)	Liping Zhang	The relative role of the subsurface Southern Ocean in driving negative Antarctic sea ice extent anomalies in 2016-2021 (Online)
17:35-17:55 5:35-5:55 (UTC-4)	Jia-Rui Shi	Climate change in the Southern Ocean: the rising temperature and enhanced zonal velocity (Online)

Session: Sustainability Use of Antarctic Marine Living Resources and Antarctic Governance

Meeting Room: The Second Floor Conference Room

Chair: Yitong Chen

14:00-14:20	Li Chen	Legal Implementation of Madrid Protocol in China (Online)
14:20-14:40	Xuefeng Li	Antarctic blue carbon protection under the framework of Antarctic treaty system
14:40-15:00 15:40-16:00 (UTC+9)	Hyoung Chul Shin	Governance of Antarctic marine ecosystem conservation, a hot potato or a cool lodestar? (Online)
15:00-15:15		Tea Break

Chair: Yang Liu

15:15-15:35	Yang Liu	Integrating Mesopelagic Fish into the assessment of marine protected areas under climate change scenarios
15:35-15:55	Yutian Ding	The Area 48 Krill Fishery: The difficult pace of upgrading the management system

AGENDA

9:00-17:00 (UTC+8) May 26, 2023

Session: Antarctic Shelf-basin Exchanges and Ice-ocean Interactions

Meeting Room: Conference Center Back Hall

Chair: Zhaoru Zhang

9:00-9:20	Steve Rintoul	Vulnerability of East Antarctic Ice Shelves to ocean processes and change (Online)
11:00-11:20 (UTC+10)		
9:20-9:40	Michael S. Dinniman	Sensitivity of the relationship between Antarctic ice shelves and iron supply to projected changes in the atmospheric forcing (Online)
21:20-21:40 (UTC-4)		
9:40-10:00	Xiaozhou Ruan	Ice-Shelf Meltwater Overturning in the Bellingshausen Sea (Online)
21:40-22:00 (UTC-4)		
10:00-10:20	Kathryn L. Gunn	Recent reduced abyssal overturning and ventilation in the Australian Antarctic Basin (Online)
12:00-12:20 (UTC+10)		
10:20-10:35		Tea Break

Chair: Chengyan Liu

10:35-10:55	Inga J. Smith	Ice-ocean interactions sea-ice formation and break-out near ice shelves (Online)
14:35-14:55 (UTC+12)		
10:55-11:15	Jiuxin Shi	Impacts of Grounding Icebergs on Sea Ice, Polynyas and Circulation in Prydz Bay, Antarctica
11:15-11:35	Jiechen Zhao	The influence of snow cover on landfast sea ice thickness in Prydz Bay, East Antarctica

Chair: Libao Gao

14:00-14:20	Shigeru Aoki	Deep and shallow warm water intrusion on the continental shelf off East Antarctic coasts (Online)
15:00-15:20 (UTC+9)		
14:20-14:40	Laura Herraiz Borreguero	Poleward shift of Circumpolar Deep Water threatens East Antarctic Ice Sheet (Online)
16:20-16:40 (UTC+10)		
14:40-15:00	Chengyan Liu	Topography-mediated transport of warm deep water across the continental shelf slope, East Antarctica
15:00-15:20	Guijun Guo	Intrusion of warm modified circumpolar deep water and its impact on dense shelf water formation
15:20-15:35		Tea Break

Chair: Jiuxin Shi

15:35-15:55	Zhaomin Wang	The salinity budget of the Ross Sea continental shelf, Antarctica (Online)
15:55-16:15	Zhaoru Zhang	Effects of projected wind changes caused by the Amundsen Sea low on the high salinity shelf water formation in the Ross Sea
16:15-16:35	Lingqiao Cheng	Interannual Variability of Winter Water in the Indian Ocean Sector of the Southern Ocean and Its Causes
16:35-16:55	Guy Williams	The New Golden Era of Polar Research and Exploration with Autonomous Systems (Online)
18:35-18:55 (UTC+10)		

Session: Marine Biodiversity and Biogeochemical Cycles in the Southern Ocean

Meeting Room: The Second Floor Conference Room

Chair: Yantao Liang

9:00-9:20 18:00-18:20 (UTC-7)	Jeomshik Hwang	Dissolved Organic Carbon Cycling in the Antarctic Seas Based on Radiocarbon Analysis(Online)
9:20-9:40	Yingxu Wu	Strong transport of anthropogenic carbon from the Antarctic shelf to deep Southern Ocean triggers rapid acidification
9:40-10:00 21:40-22:00 (UTC-4)	David Pez Espino	The Diversity of the Global Virome(Online)
10:00-10:20	Imali Kaushalya Herath	Isotopic constraints on sources and cycling of Nitrate in Polar Sea Ice
10:20-10:35		Tea Break

Chair: Xiaotong Xiao

10:35-10:55	Guang Yang	Role of zooplankton in the Southern Ocean biogeochemical cycles
10:55-11:15	Liyang Zhan	A study on the role of sea ice in the N ₂ O cycle in the Prydz Bay, Antarctica
11:15-11:35	Jun Zhao	Does reactive iron contribute to the long-term preservation of marine organic carbon in the Antarctic sediment?

Chair: Jun Zhao

14:00-14:20	Chunyang Li	A novel ATP dependent dimethylsulfoniopropionate lyase identified in Antarctic bacteria
14:20-14:40	Yongli Zhang	Iron limitation and uneven grazing pressure on phytoplankton co-lead the seasonal species succession in the Ross Ice Shelf Polynya
14:40-15:00	Meiaoxue Han	The distribution characteristics and potential roles of viruses in the Antarctic ice-edge algal blooms
15:00-15:20	Chaofeng Wang	Pelagic ciliate (Ciliophora) communities in the Southern Ocean: Bioindicator to water mass, habitat suitability classification and potential response to global warming
15:20-15:40	Fraser Kennedy	To be determined (Online)

POSTER

Yutong Zheng	The Southern Ocean rapid warming and related spiciness changes
Tingzhen Liu	Interannual variability of eddy activity in the Southern Ocean associated with the ENSO
Hong Li	The observed enhancement of eddy from stress in the standing meanderings of the Antarctic Circumpolar Current
Xubin Ni	The ocean response leaves behind a footprint in the Antarctic Intermediate Water heat content
Kaiyan Xiao	Bird feathers as non-invasive bio-indicators of metals and pesticides in the Southern Ocean
Yurong Mu	Climate-induced response of predators to the marine ecosystems in the Southern Ocean