PROGRAMME

Date 日期	Time 时间	Events 事项	Location 地点	
October 25, Friday 10 月 25 日	14:00-20:00	**On-site Registration** 现场注册	**1st Floor, Junyi Dynasty Hotel** 君宜王朝大饭店一层大厅	
	18:00-19:30	Dinner 晚餐	Wuzhou Restaurant 五洲餐厅	
October 26, Saturday 10 月 26 日	**08:30-11:50**	**Opening Session** 开幕式 **Keynote Session** 主旨报告	**Beidou Hall 4th Floor, WHU Library IS Branch** 图书馆信息科学分馆四层北斗厅	
	12:00-13:30	Lunch 午餐	Xinghuyuan Restaurant 星湖园餐厅	
	14:00-17:40	**Session 1: Polar surveying, mapping, remote sensing and geoinformation intelligent service** 专题 1：极地测绘遥感与地理信息智能服务	**Room 224** 224 教室	**Teaching Building 1** 信息学部 1 教学楼 （Coffee Break, Room 211）
		Session 4: Polar ecological environmental changes 专题 4：极地生态环境变化	**Room 108** 108 教室	
		Session 6: Polar regions and humans 专题 6：极地公共治理	**Room 119** 119 教室	
	18:00-19:30	Welcome Dinner 欢迎晚宴	Donghu Hall 6th Floor, Junyi Dynasty Hotel 君宜王朝大饭店六层东湖厅	
October 27, Sunday 10 月 27 日	08:30-12:00	**Session 2: Polar ice sheets and sea level changes** 专题 2：极地冰盖与海平面变化	**Room 224** 224 教室	**Teaching Building 1** 信息学部 1 教学楼 （Coffee Break, Room 211）
		Session 3: Polar sea ice change 专题 3：极地海冰	**Room 108** 108 教室	
		Session 5: The cryosphere and global change 专题 5：冰冻圈与全球变化	**Room 119** 119 教室	
	12:10-13:30	Lunch 午餐	Xinghuyuan Restaurant 星湖园餐厅	
	13:30-18:00	**Session 2 (Continued)** 专题 2	**Room 224** 224 教室	**Teaching Building 1** 信息学部 1 教学楼 （Coffee Break, Room 211）
		Session 3 (Continued) 专题 3	**Room 108** 108 教室	
		Session 5 (Continued) 专题 5	**Room 119** 119 教室	
	18:10-19:30	Dinner 晚餐	Wuzhou Restaurant 五洲餐厅	

October 26, Saturday 10 月 26 日，星期六

8:30-11:50	**Opening Session and Keynote Session**	**Beidou Hall** 图书馆北斗厅

Opening Session **Session Chair: XU Jian**		
8:30-8:40	Speech on behalf of the Scientific Committee	**Kim Johan Holmen** Co-Chair Norwegian Polar Institute, Norway
8:40-8:50	Speech on behalf of the Department of International Cooperation, the Ministry of Natural Resources of China	**CHEN Danhong** Director-General Ministry of Natural Resources of China, China
8:50-9:00	Speech on behalf of Wuhan University	**CHU Longqiang** Deputy Party Secretary Wuhan University, China
9:00-9:30	Departure ceremony for the WHU members of the 41st Chinese Antarctic Research Expedition Team	
9:30-9:50	Coffee break	
Keynote Session **Session Chair: ZHANG Xiaohong**		
9:50-10:20	SK-1: Shaping Antarctic Governance: The Role of Science in Policy Development	**Yeadong Kim** Korea National Committee on Polar Research, Korea
10:20-10:50	SK-2: Contemporary Polar Ice-Sheet Mass Balance Estimates: A Perspective	**C. K. Shum** The Ohio State University, USA
10:50-11:20	SK-3: The Driving Forces of the Arctic Order: the Climate Crisis or the Geopolitical Competition?	**YANG Jian** Shanghai Institutes for International Studies, China
11:20-11:50	SK-4: Geodetic Studies of Glacier Mass Change and GIA	**Jeffrey Freymueller** Michigan State University, USA
12:00-13:30	Lunch (Xinghuyuan Restaurant)	

14:00-17:40	Session 1	Room 224, Teaching Building 1 一教学楼 224 室

Session 1-1: Polar Surveying, mapping, remote sensing and geoinformation intelligent service
Session Chair: QIU Yubao, CUI Yingchun

14:00-14:25	**Invited** S1-1-1: The first aerial photogrammetry of Snow Eagle 601 in Antarctica	**CUI Yingchun** Polar Research Institute of China, China
14:25-14:50	**Invited** S1-1-2: Application of deep learning in the polar cryosphere	**YU Lejiang** Polar Research Institute of China, China
14:50-15:10	S1-1-3: Lake responses to cryospheric and climate change	**Shoukat Ali Shah** Mehran University of Engineering and Technology, Pakistan
15:10-15:30	S1-1-4: Progress and key technologies of undersea feature names in Antarctica	**LI Yanwen** National Marine Data and Information Service, China
15:30-15:50	Coffee break (Room 211)	

Session 1-2: Polar Surveying, mapping, remote sensing and geoinformation intelligent service
Session Chair: CUI Meng, YU Lejiang

15:50-16:15	**Invited** S1-2-1: Digital environmental for the operations over high mountain and polar cold reigons	**QIU Yubao** Aerospace Information Research Institute, Chinese Academy of Sciences, China
16:15-16:40	**Invited** S1-2-2: Small Svalbard glaciers in a changing Arctic: when extreme events become the norm	**Florian Tolle** University of Franche Comté, France
16:40-17:00	S1-2-3: Polar route planning method based on satellite remote sensing data	**CUI Meng** Marine Design & Research Institute of China, China
17:00-17:20	S1-2-4: Prediction analysis of potential locations of Antarctic meteorites based on machine learning	**LI Outong** Wuhan University, China
17:20-17:40	S1-2-5: Exploration of Polar Surveying Mode for Unmanned or One-man Operations	**DU Weigang** South Surveying & Mapping Technology Co., Ltd., China
18:00-19:30	Welcome Dinner (Junyi Dynasty Hotel)	

14:00-16:55	Session 4	Room 108, Teaching Building 1 一教学楼 108 室

Session 4-1: Polar ecological environmental changes
Session Chair: GENG Lei, PENG Fang

14:00-14:25	**Invited** S4-1-1: Climate change driven Arctic CO_2 uptake and acidification	**QI Di** Jimei University, China
14:25-14:45	S4-1-2: Remote sensing monitoring of Arctic lake drainage events and investigation of ecological tipping points	**LIU Aobo** Shandong Normal University, China
14:45-15:05	S4-1-3: Evaluation of the spatial and temporal dynamics of ecological vulnerability in the Ice-free zone of Antarctica	**FANG Xiaoling** Wuhan University, China
15:05-15:25	S4-1-4: Remote forcing from tropical Atlantic contributed to the Adélie Penguin population changes in the Ross Sea	**LIU Hongwei** University of Science and Technology of China, China
15:30-15:50	Coffee break (Room 211)	

Session 4-2: Polar ecological environmental changes
Session Chair: QI Di, HAO Weifeng

15:50-16:15	**Invited** S4-2-1: Probing large scale changes in atmospheric oxidation capacity and the driving forces using ice core records	**GENG Lei** University of Science and Technology of China, China
16:15-16:35	S4-2-2: Pan-Antarctic pioneer plants information extraction	**Alatan Zhula** Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, China
16:35-16:55	S4-2-3: Antarctic Ardley Island Terrace — an ideal place to study the marine to terrestrial succession of microbial communities	**PENG Fang** Wuhan University, China
18:00-19:30	Welcome Dinner (Junyi Dynasty Hotel)	

14:00-17:15	Session 6	Room 119, Teaching Building 1 一教学楼 119 室

Session 6-1: Polar regions and humans **Session Chair: LIU Lanfeng**		
14:00-14:25	**Invited** S6-1-1: Research on synergistic governance of resource development and ecological protection in the Arctic under the perspective of green development	**YANG Zhenjiao** Ocean University of China, China
14:25-14:45	S6-1-2: Great powers competition and governance in Arctic	**RUAN Jianping** Wuhan University, China
14:45-15:05	S6-1-3: Development and improvement of Chilean Antarctic legislation–focusing on Law No. 21255	**WU Ningbo** Shanghai University of International Business and Economics, China
15:05-15:25	S6-1-4: The BBNJ Agreement's impact on the Arctic governance and China's response	**GUO Ran** Shanghai Maritime University, China
15:30-15:50	Coffee break (Room 211)	
Session 6-2: Polar regions and humans **Session Chair: YANG Zhenjiao**		
15:50-16:15	**Invited** S6-2-1: Antarctic resources: exploitation, regulation and prospects	**Borislava Valentinova Vankova** Bulgarian Ministry of Education and Science, Bulgaria
16:15-16:35	S6-2-2: Analysis of Southern Ocean governance	**LIU Lanfeng** Guangdong University of Foreign Studies, China
16:35-16:55	S6-2-3: New trends in Antarctic multilateral governance	**CHEN Chen** China University of Political Science and Law, China
16:55-17:15	S6-2-4: Arctic governance and China's Arctic policy under the background of Russia-Ukrain war	**ZHAO Ningning** Central China Normal University, China
18:00-19:30	Welcome Dinner (Junyi Dynasty Hotel)	

8:30-18:00	Session2	Room 224, Teaching Building 1 一教学楼 224 室

Session 2-1: Polar ice sheets and sea level changes
Session Chair: WANG Zhaoming

8:30-8:55	**Invited** S2-1-1: Greenland ice sheet mass balance revealed by GNSS and gravity	**RAN Jiangjun** Southern University of Science and Technology, China
8:55-9:20	**Invited** S2-1-2: Decoding seasonal glacier dynamics at Greenland with physics-informed machine learning and remote sensing	**Bryan Riel** Zhejiang University, China
9:20-9:40	S2-1-3: Monitoring and understanding ice sheet mass change using satellite geodetic methods	**ZHANG Bao** Wuhan University, China
9:40-10:00	S2-1-4: Antarctic surface mass balance during the past three centuries and its impact on global sea level rise	**WANG Yetang** Shandong Normal University, China
10:00-10:20	S2-1-5: Improved depth-albedo parameterization for supraglacial lake model: an application of bottom ablation estimation on the Greenland ice sheet	**WU Jiake** Sun Yat-sen University, China
10:20-10:40	Coffee break (Room 211)	

Session 2-2: Polar ice sheets and sea level changes
Session Chair: RAN Jiangjun

10:40-11:05	**Invited** S2-2-1: Interannual salinity variability on the Ross Sea continental shelf in a regional ocean-sea ice-ice shelf model	**WANG Zhaomin** Southern Marine Science and Engineering Guangdong Laboratory (Zhuhai), China
11:05-11:25	S2-2-2: Iceberg calving of Antarctic ice shelves driven and enhanced by strong ice-ocean interaction	**LIU Yan** Beijing Normal University, China
11:25-11:45	S2-2-3: 30-year surface elevation changes for the Greenland and Antarctic Ice Sheet from multiple satellite radar altimeters	**ZHANG Baojun** Wuhan University, China
11:45-12:05	S2-2-4: Supraglacial lake depth retrieval from ICESat-2 and multispectral imagery datasets	**ZHOU Quan** Sun Yat-sen University, China
12:10 -13:30	Lunch (Xinghuyuan Restaurant)	

	Session 2-3: Polar ice sheets and sea level changes Session Chair: ZHENG Lei		
13:40-14:05	**Invited** S2-3-1: Potential link between the stratospheric ozone and snow chemistry in Antarctica	**SHI Guitao** East China Normal University, China
14:05-14:30	**Invited** S2-3-2: Unveiling the crust and lithosphere hidden beneath the Antarctic ice sheet with aerogeophysical and satellite imaging	**Fausto Ferraccioli** National Institute of Oceanography and Applied Geophysics, Italy
14:30-14:50	S2-3-3: Ice and subglacial bedrock drilling project at Princess Elizabeth Land, East Antarctica	**ZHANG Nan** Jilin University, China
14:50-15:10	S2-3-4: Reconstructing daily snow and ice albedo series for Greenland by coupling spatiotemporal and physics-informed models	**YE Fan** China University of Geosciences, China
15:10-15:30	S2-3-5: A continuous piecewise fitting algorithm for trend changing points detection in sea level	**XIAO Mingyu** Wuhan University, China
15:30-15:50	Coffee break (Room 211)	
	Session 2-4: Polar ice sheets and sea level changes Session Chair: SHI Guitao		
15:50-16:15	**Invited** S2-4-1: Retained meltwater in Greenland ice sheet: remote sensing and numerical simulation	**ZHENG Lei** Sun Yat-sen University, China
16:15-16:40	**Invited** S2-4-2: A new way of monitoring Greenland mass changes using the GNET GNSS network	**Valentina R. Barletta** Technical University of Denmark, Demark
16:40-17:00	S2-4-3: Insights into the capabilities of new photon-counting altimetry satellite ICESat-2 using multi-sensor observations over Antarctic Ice Sheet	**QIAO Gang** Tongji University, China
17:00-17:20	S2-4-4: Geodetic observations of multi-timescale variations of the Greenland ice sheet	**LI Zhen** Innovation Academy for Precision Measurement Science and Technology, Chinese Academy of Sciences, China
17:20-17:40	S2-4-5: High-resolution GRACE solutions reveal recent Greenland glacier mass loss	**WU Haotian** Southern University of Science and Technology, China
17:40-18:00	S2-4-6: Extraction and analysis of crevasses in Antarctic ice sheet based on SAR satellite images	**PENG Boyang** Wuhan University, China
18:10-19:30	Dinner (Wuzhou Restaurant)	

8:30-17:35	Session 3	Room 108, Teaching Building 1 一教学楼 108 室

Session 3-1: Polar sea ice changes
Session Chair: XU Shiming

8:30-8:55	**Invited** S3-1-1: Technologies and applications of polar Air-ice-sea stereo cooperative monitoring	**DOU Yinke** Taiyuan University of Technology, China
8:55-9:15	S3-1-2: Sea ice concentration extracted from marine radar footage during CHINARE2023	**QU Meng** Polar Research Institute of China, China
9:15-9:35	S3-1-3: Estimating multi-scale sea ice density during the MOSAiC expedition	**ZHOU Yi** Shanghai Jiao Tong University, China
9:35-9:55	S3-1-4: Changing sea ice conditions have impacted the air-ice/ocean turbulent exchanges over the Arctic Ocean	**ZHANG Zhilun** Sun Yat-sen University, China
9:55-10:15	S3-1-5: Sea ice classification in the Arctic transition zone using HaiYang-2B microwave scatterometer and radiometer data	**WU Shiyu** Wuhan University, China
10:20-10:40	Coffee break (Room 211)	

Session 3-2: Polar sea ice changes
Session Chair: QU Meng

10:40-11:05	**Invited** S3-2-1: Observing Antarctic sea ice mass balance with satellite remote sensing	**XU Shiming** Tsinghua University, China
11:05-11:25	S3-2-2: Retrieval algorithm for Arctic sea ice surface melt and freeze onset using FY-3B&3D microwave radiometer imager data	**QU Zhifeng** Ocean University of China, China
11:25-11:45	S3-2-3: Polar sea ice leads detection using deep learning with MODIS imagery	**WANG Yueyun** Wuhan University, China
11:45-12:05	S3-2-4: Spatial and temporal variability of Arctic sea ice ridge formation	**LI Hao** Ocean University of China, China
12:10-13:30	Lunch (Xinghuyuan Restaurant)	

	Session 3-3: Polar sea ice changes Session Chair: LIU Tingting	
13:50-14:10	S3-3-1: Multiscale and integrated sea ice observations and prediction models: the Norway – China collaboration initiative Digital Sea Ice	**Are Frode Kvanum** University of Oslo, Norway
14:10-14:30	S3-3-2: A monthly Arctic sea ice thickness product from 1995 to 2023 using multiple radar altimetry data	**XIAO Feng** Wuhan University, China
14:30-14:50	S3-3-3: Trends, seasonal and interannual variability of Arctic melt pond fraction among different products	**QIN Yuqing** Ocean University of China, China
14:50-15:10	S3-3-4: The impacts of anomalies in atmospheric circulations on Arctic sea ice outflow and sea ice conditions in the Barents and Greenland seas: case study in 2020	**ZHANG Fanyi** Wuhan University, China
15:10-15:30	S3-3-5: Spatio-temporal matching methods for estimating snow depth on the Arctic sea ice integrating laser and radar satellite altimetry measurements	**GENG Tong** Wuhan University, China
15:30-15:50	Coffee break (Room 211)	
	Session 3-4: Polar sea ice changes Session Chair: ZHANG Shengkai	
15:50-16:15	**Invited** S3-4-1: Cryosphere remote sensing - validation studies for land ice and sea ice in the Ross Sea sector	**Wolfgang Rack** University of Canterbury, New Zealand
16:15-16:35	S3-4-2: Comparison of sea ice detection based on HY-2B and CFOSAT scatterrometer data	**JIANG Chengfei** National Marine Data Information Center, China
16:35-16:55	S3-4-3: Annual evolution of the ice–ocean interaction beneath landfast ice in Prydz Bay, East Antarctica	**HU Haihan** Sun Yat-sen University, China
16:55-17:15	S3-4-4: SMOS multi-Tie points-based method for retrieving the Arctic thin sea ice thickness	**LI Jiaxing** Wuhan University, China
17:15-17:35	S3-4-5: Key technologies of the S-411 ice information navigation service in the Arctic sea route	**JIAO Chenchen** Wuhan University, China
18:10-19:30	Dinner (Wuzhou Restaurant)	

8:30-17:15	Session 5	Room 119, Teaching Building 1 一教学楼 119 室

Session 5-1: The cryosphere and global change Session Chair: ZHU Yannian		
8:30-8:55	**Invited** S5-1-1: High-precision estimation of cloud properties and surface radiation balance in three polar regions based on multi-source satellites	**HUSI Letu** Aerospace Information Research Institute, Chinese Academy of Sciences, China
8:55-9:15	S5-1-2: Model simulation of the aerosol perturbation on convective precipitation over the Tibetan Plateau	**JIANG Mengjiao** Chengdu University of Information Technology, China
9:15-9:35	S5-1-3: The impact of Arctic sea ice reduction and Tibetan Plateau warming on summer extreme precipitation dipole patterns in mid-latitude Asia	**MA Qianrong** Yangzhou University, China
9:35-9:55	S5-1-4: Association of Tibetan heat sources with heat waves in China	**TAN Ziyuan** Lanzhou University, China
9:55-10:15	S5-1-5: Polar tropopause modulation by planetary waves based on radiosonde observations	**WANG Rui** Polar Research Institute of China, China
10:20-10:40	Coffee break (Room 211)	

Session 5-2: The cryosphere and global change Session Chair: MAO Feiyue		
10:40-11:05	**Invited** S5-2-1: Regulating effect of surface albedo on aerosol radiation in Arctic region	**ZHAO Chuanfeng** Peking University, China
11:05-11:30	**Invited** S5-2-2: Hidden large aerosol-driven cloud cover effect over high-latitude ocean	**ZHU Yannian** Nanjing University, China
11:30-11:50	S5-2-3: Spatial contrast in abundance and mixing state of black carbon particles in Arctic marine air	**TENG Xiaomi** Zhejiang University, China
12:10-13:30	Lunch (Xinghuyuan Restaurant)	

Session 5-3: The cryosphere and global change Session Chair: HWANG Cheinway		
13:40-14:05	**Invited** S5-3-1: The application of PANDA Meteorological Network	**DING Minghu** Chinese Academy of Meteorological Sciences, China
14:05-14:25	S5-3-2: UAV and remote sensing based monitoring of cryospheric hazards in the Pamir, Tajikistan	**Mustafo Safarov** Research Center for Ecology and Environment of Central Asia, Tajikistan
14:25-14:45	S5-3-3: Mapping abrupt permafrost thaw at a pan-Arctic scale from multi-source remote sensing data using AI foundation models	**HUANG Lingcao** The Chinese University of Hong Kong, China
14:45-15:05	S5-3-4: Research progress and trends in cryospheric human geography	**QIN Yue** Northwest Institute of Eco-Environment and Resources, Chinese Academy of Sciences, China
15:05-15:25	S5-3-5: Estimation and changes of long-time global solar radiation at China's Antarctic Zhongshan Station and Great Wall Station	**ZENG Zhaoliang** Chinese Academy of Meteorological Sciences, China
15:30-15:50	Coffee break (Room 211)	
Session 5-4: The cryosphere and global change Session Chair: DING Minghu		
15:50-16:15	**Invited** S5-4-1: Monitoring surface deformations using radar altimetry and InSAR across various polar terrains	**HWANG Cheinway** Taiwan Chiao Tung University, China
16:15-16:35	S5-4-2: Towards sustainable Arctic governance: enhancing adaptability and synergy	**ZHAO Long** Shanghai Institutes for International Studies, China
16:35-16:55	S5-4-3: Elevation-dependent climate dynamics and associated cryospheric variation in Himalaya since 1990	**Abhishek Banerjee** Department of Forest, Government of Haryana, India
16:55-17:15	S5-4-4: Crustal loading deformation velocity of the Tibetan Plateau due to land water change	**JIAO Jiashuang** Wuhan University, China
18:10-19:30	Dinner (Wuzhou Restaurant)	

Notice

- Please transfer your PPT file to the computer of the meeting room in advance before your presentation. （请将您的口头报告 PPT 文件提前传递至会场计算机。）

- Please keep quiet and set your mobile phone to "mute" mode when you are listening to the presentations in the meeting room. （会场请保持安静，并将您的手机设置为"静音"状态。）

- Please gather at the lobby of the Junyi Dynasty Hotel at 8:10 a.m. and follow the volunteers to the meeting venue, or go to the meeting venue by yourself. （请于早上 8:10 在君宜王朝大饭店大堂集合，跟随志愿者指引前往会场，或自行前往会场。）

VENUE MAP

武汉大学五洲餐厅
Wuzhou Restaurant

武汉大学星湖园餐厅
Xinghuyuan Restaurant

主会场 Main Venue
武汉大学图书馆信息科学分馆
WHU Library Information Science Br.

武汉大学中国南极测绘研究中心
Chinese Antarctic Center of Surveying
and Mapping, WHU

分会场 Branch Venue
武汉大学信息学部1教学楼
WHU Information Department Teaching Building 1

Luoshi Rd

珞狮路

八一路 Bayi Rd

Guangba Rd

广八路

地铁二号线，街道口站，C出口
Exit C，Jiedaokou Station，Metro Line 2

珞瑜二门
Luoyu Gate 2

君宜王朝大饭店
Junyi Dynasty Hotel

珞喻路
Luoyu Rd

珞瑜门
Luoyu Gate

地铁二号线，广埠屯站，K出口
Exit K，Guangbutun Station，Metro Line 2

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