

Wednesday 12 July**C06 - New Frontiers in Paleoclimate Reconstructions and Proxy Interpretations From Ice Cores**

08:30	10:00	Dey, Rahul	IUGG23-4184	250 years of snow accumulation and summertime melt in the coastal Dronning Maud Land, East Antarctica
08:30	10:00	Dietrich, Laura	IUGG23-4092	Surface snow fractionation during snow-atmosphere humidity exchange alters annual mean climate signal in ice core records
10:30	12:00	Banerjee, Asmita	IUGG23-2473	Clumped isotope constraints on upper tropospheric temperature changes during the last deglaciation

C08 - Challenges in Modeling, Monitoring and Predicting Alpine Mass Movements

13:30	15:00	Neuhauser, Michael	IUGG23-3488	Multi-sensor investigation of particle movement in snow avalanches
13:30	15:00	Yu, Hongxiang	IUGG23-0797	Environmental conditions for snow cornice formation in a wind tunnel

IC01 - Remote Sensing of the Cryosphere (IACS, IAHS)

10:30	12:00	Ravinder, Nitin	IUGG23-1580	Elevation changes of the Greenland Ice Sheet observed by CryoSat-2 and ICESat-2
10:30	12:00	Kerr, Megan	IUGG23-4460	Geophysical mapping of the southern flank of Dome A, Antarctica: Initial results from the inaugural COLDEX airborne survey
13:30	15:00	Lutz, Katrina	IUGG23-0681	Supraglacial lake depth algorithm developed from ICESat-2, Sentinel-2, and fieldwork observations
13:30	15:00	Poizat, Marine	IUGG23-0016	Linear snow dunes orientation in Antarctica

IG05 - Geodesy for Climate Research (IAG, IAMAS, IACS, IAPSO, IAHS)

08:30	10:00	Graf, Matthias	IUGG23-1499	Mass Trend Time Series for the Greenland Ice Sheet and Periphery Glaciers from the Combination of Gravimetric and Geometric Data
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JH02 - Advances in Snow Hydrology (IAHS, IACS)

08:30	10:00	Haagmans, Vincent	IUGG23-4608	Winter tree surface temperature dynamics in boreal and sub-alpine forests revealed by thermal infrared imaging
08:30	10:00	Storebakken, Brage	IUGG23-4447	Distributed modelling of micrometeorological conditions inside mountain forests using standard observations from the open in the Berchtesgaden National Park (Germany)
13:30	15:00	Oberrauch, Moritz	IUGG23-1699	Improving distributed snowpack simulations by mapping perturbations of meteorological forcings inferred from particle filter assimilation of snow monitoring data
13:30	15:00	Courard, Maria	IUGG23-2819	Operational snow condition estimates in the extratropical Andes Cordillera through physically based, snowdrift permitting numerical modeling

JH03 - Snow in the Critical Zone (IAHS, IACS)

15:30	17:00	Rojas Heredia, Francisco	IUGG23-2785	Snow accumulation in forest gaps in the Central Pyrenees: Influence of their geometry and topographic attributes
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JP03 - Physical and Biogeochemical Ocean and Ice Processes in the Southern Ocean: Observations, State Estimation and Modeling (IAPSO, IACS)

10:30	12:00	Zhang, Jingwei	IUGG23-0062	Roles of surface forcing on salinity changes in the Southern Ocean since 1960
13:30	15:00	Gülk, Birte	IUGG23-2594	Variability and remote controls of the warm-water halo and Taylor cap at Maud rise
13:30	15:00	Schmidt, Christina	IUGG23-2503	Wind- and sea-ice-driven interannual variability of Antarctic Bottom Water formation
13:30	15:00	Neme, Julia	IUGG23-0108	Identifying the drivers of the Weddell Gyre variability using a barotropic vorticity budget
13:30	15:00	Dawson, Hannah	IUGG23-2810	Connectivity pathways and advection timescales along the Antarctic continental shelf from a Lagrangian perspective
15:30	17:00	Ferola, Antonino Ian	IUGG23-0158	The role of the Pacific-Antarctic Ridge in establishing the northward extent of Antarctic sea-ice

Thursday 13 July**C01 - Advances in Modelling Glaciers and Ice Caps – Past Reconstructions, Future Projections, and Process-Based Studies**

08:30	10:00	Dymova, Taisiya	IUGG23-4261	Projections of Elbrus glaciers throughout the 21st century
10:30	12:00	Frank, Thomas	IUGG23-1956	Full-stokes based thickness inversion for all Swedish glaciers

C02 - Glacier Changes in High Mountain Asia and the Karakoram Anomaly: Latest Insights From the Atmosphere and Cryosphere

13:30	15:00	Javed, Aaqib	IUGG23-0208	Western Disturbances and their role in sustaining the "Karakoram Anomaly"
13:30	15:00	P. J. Navinkumar	IUGG23-3305	Early 21st century glacier ice volume changes in the Teesta basin, Eastern Himalayas

IC01 - Remote Sensing of the Cryosphere (IACS, IAHS), Room Paris 2

08:30	10:00	Liu, Zhihao	IUGG23-4150	Snow depth retrieval using satellite altimetry, climate reanalysis data and machine learning: A case study in mainland Norway
08:30	10:00	Cluzet, Bertrand	IUGG23-4953	Towards the assimilation of satellite products from the ESA Alpine Regional Initiative AlpSnow EXPRO+ into a distributed physically-based snow model

IC02 - Declining Glacier, Snow Cover and Permafrost and Their Impacts on Downstream Hydrology (IACS, IAHS, IAG)

13:30	15:00	Prokopenko, Kristina	IUGG23-4462	Suspended sediment dynamics in the Lena River delta: In-situ and remote sensing approaches
15:30	17:00	Schuster, Phillip	IUGG23-1924	MATILDA – An Open-Source Workflow for Modeling Water Resources in Glaciated Catchments

JP06 - Electromagnetic Studies of the Ice and Ocean System (IAPSO, IACS, IAGA)

13:30	15:00	Neudert, Mara	IUGG23-0596	Retrieval of porous sea ice properties from multifrequency electromagnetic measurements
13:30	15:00	Hornschild, Aaron	IUGG23-1863	Scaling of ocean circulation-induced magnetic signals by assimilating Swarm satellite observations

Friday 14 July**C05 - Tropical Glaciers: Mass Changes, Climate Forcing and Impacts on Indigenous Communities**

08:30	10:00	Hinzmann, Anne	IUGG23-0937	New estimates of glacier retreat on Kilimanjaro, Mount Kenya and in the Rwenzori Range from high-resolution satellite imagery
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C10 - Satellite-Derived Snow Cover Products and Their Applications in Hydrology

08:30	10:00	Sengendo, Ashraf	IUGG23-4255	Evaluation of H SAF satellite snow products for runoff prediction in the Upper Euphrates Basin of Turkey
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C13 - Data Driven Cryospheric Sciences: Machine Learning, Data Assimilation and Inverse Methods for the Cryosphere

08:30	10:00	Cao, Wenxue	IUGG23-3280	Glacier observational data assimilation for mass balance modelling in Svalbard
08:30	10:00	Schmitt, Patrick	IUGG23-1823	Towards a flexible, global data assimilation framework for glacier modelling
13:30	15:00	Tollenaar, Veronica	IUGG23-0611	Blue ice in Antarctica: The gateway to travel in time and space
13:30	15:00	Verma, Sarvesh Kumar	IUGG23-2643	Lake bathymetry using ICESat-2 and multi-mission multispectral remote sensing: case studies from the Indian Himalayas
13:30	15:00	Tanniru, Srinivasarao	IUGG23-3007	Use of extremely randomized trees approach for estimation of snow depth from AMSR-2 PMW data over Alaska
15:30	17:00	Herrmann, Oskar	IUGG23-2698	Using deep learning to detect calving fronts in satellite images
15:30	17:00	Groenke, Brian	IUGG23-1900	Applications of physics-informed machine learning in accelerating dynamical models of permafrost processes

JA02 - Data Assimilation and Statistical Learning in Earth and Space Sciences (IAGA, IACS, IAHS, IAMAS, IASPEI)

15:30	17:00	Cluzet, Bertrand	IUGG23-4944	Spatialized data assimilation of snowdepth observations into a distributed model: Addressing the issues of equifinality and outlier observations
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JG01 - Interactions of the Solid Earth With Ice Sheets and Sea Level (IAG, IACS, IASPEI)

08:30	10:00	Willen, Matthias	IUGG23-2570	Spatially resolved GIA in Antarctica from a global inversion
08:30	10:00	Buchta, Eric	IUGG23-3435	Geodetic GNSS observations disclose the response of the solid Earth to changing ice masses in Dronning Maud Land, East Antarctica
08:30	10:00	Valencic, Natasha	IUGG23-4536	Mapping geodetically inferred Antarctic ice height changes into thickness variations: A sensitivity study
13:30	15:00	Swierczek-Jerzeczek, Jan	IUGG23-0500	Faststostasy.jl - Accelerated computation of glacial isostatic adjustment
15:30	17:00	Pan, Linda	IUGG23-3633	Is transient creep necessary to explain sea level and crustal uplift data from Greenland?
15:30	17:00	Ajourlou, Parviz	IUGG23-3635	Improved Greenland glacial isostatic adjustment models with 3D Earth structure inferred from the joint inversion of regional data sets
15:30	17:00	Drew, Matthew	IUGG23-5010	The Influence of Topography and Sediment Cover Change on Pleistocene Glacial Cycles and the MPT with Coupled Ice Sheet-Climate-Sediment Physics

JC05/M16 - Atmosphere-Ocean-Sea Ice Interactions: Physical and Chemical Processes (IACS, IAMAS, IAPSO)

15:30	17:00	Ritschel, Markus	IUGG23-4921	Regional and temporal evolution of sea-surface pCO2 in Arctic waters
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Saturday 15 July**JC03 - Coupling Processes Between the Atmospheric Boundary-Layer and Snow - Ice Surfaces: Modelling at Convection and Snowdrift-Permitting Scales (IACS, IAHS, IAMAS)**

15:30	17:00	Reynolds, Dylan	IUGG23-3924	Validation of a novel high-resolution atmospheric model and its application to seasonal snowcover modeling
15:30	17:00	Haddjeri, Ange	IUGG23-0842	Benefits of fuzzy methods for the evaluation of high-resolution snow models

JC04/C15 - Atmospheric Circulations and Surface Mass Balance of Ice Sheets (IACS, IAMAS)

15:30	17:00	Stefanini, Claudio	IUGG23-2474	Characterization of the seasonal evolution of the surface snow grain size on the East Antarctic Plateau
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JC05/M16 - Atmosphere-Ocean-Sea Ice Interactions: Physical and Chemical Processes (IACS, IAMAS, IAPSO)

08:30	10:00	Fogarty, Joseph	IUGG23-4770	Ice-water-air exchanges in the marginal ice zone: Numerical simulations of satellite-sensed surface states
13:30	15:00	Lin, Ting	IUGG23-1716	Impacts of Sea spray on Polar Lows through surface heat fluxes
13:30	15:00	Xu, Xiaojin	IUGG23-1376	Variability and impacts of explosive cyclones over the Southern Ocean
13:30	15:00	Wang, Peixi	IUGG23-2568	Role of the Drake Passage in the asymmetric warming between the Arctic and the Antarctic

JC06 - Mountain Cryosphere Hazards (IACS, IAHS, IASPEI)

08:30	10:00	Cathala, Maïva	IUGG23-1859	Mapping release and propagation areas of permafrost-related rock slope failures to identify hot spots for hazard assessment, French Alps
10:30	12:00	Simon, Verena	IUGG23-4234	Climate-change-induced seismicity: The recent onset of seasonal microseismicity at the Grandes Jorasses, Mt. Blanc Massif, France
10:30	12:00	Binder, Daniel	IUGG23-4351	What causes the recent jökulhlaup drainage perturbations in Zackenberg, NE-Greenland?

JM02 - Tropical-Polar Interactions, Arctic Amplification and Its Influence on Midlatitude Weather (IAMAS, IACS, IAPSO)

08:30	10:00	Fang, Yingfei	IUGG23-3064	Remote forcing for the interannual variability of surface melting events over the Ross Ice Shelf
08:30	10:00	Hou, Yurong	IUGG23-1435	A dipole surface temperature pattern between Eurasian and North American continents induced by the Barents-Kara sea-ice variability
13:30	15:00	Batelaan-Bruggeman, Thomas	IUGG23-1899	Jet stream waviness response to Polar warming on an aquaplanet

Sunday 16 July**C04 - Fast Glacier Flow: Processes, Observations and Modelling of Ice Streams, Tidewater Glaciers and Surging Glaciers**

13:30	15:00	Langhamer, Lukas	IUGG23-0264	Response of ice flow velocity, calving flux, and glacier retreat to atmospheric forcing in the Cordillera Darwin
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C07 - Mass Changes of The Cryosphere – The Need for and Lessons Learned From Intercomparison Exercises

15:30	17:00	Döhne, Thorben	IUGG23-4734	Globally consistent land ice mass balance estimates from GRACE/GRACE-FO: Sensitivity to methodological choices
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C14 - Cryospheric Processes and Related Socioeconomic Impacts

15:30	17:00	Zhang, Can	IUGG23-3321	Divergent glacier area and elevation changes across the Tibetan Plateau in the early 21st century
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JP02 - Arctic Ocean Physics and Biochemistry in a Changing Climate (IAPSO, IACS)

08:30	10:00	Pisareva, Maria	IUGG23-1898	Circulation in the Chukchi Sea from a long-term dataset of satellite radar altimetry
15:30	17:00	Li, Xinyue	IUGG23-0095	Eddy-rich Arctic as future sea ice disappears in a high-resolution view
15:30	17:00	Fischer, Reint	IUGG23-2661	Decadal-scale trends and variability in Bering Sea ice extent, wind and wave conditions

JS01 - Cryoseismology (IASPEI, IACS, IAG)

08:30	10:00	Lanteri, Ariane	IUGG23-1912	Bayesian surface wave dispersion inversion of glaciated environments
13:30	15:00	Binder, Daniel	IUGG23-4316	On-ice seismicity of a rapidly-rising jökulhlaup cycle at the A.P. Olsen Ice Cap, NE-Greenland
13:30	15:00	Dietrich, Thoralf	IUGG23-4481	Array seismologic insights into Grímsvötn jökulhlaups, Iceland