

| CRYOSPHERE 2022 - Poster presentations - Part 2 | | | | |
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| | | Posters will be on display in the Harpa Conference Centre throughout the conference week. Poster viewing sessions will be held Tuesday and Thursday. | | |
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| NO. | PRESENTING AUTHOR | TITLE | AFFILIATION | COUNTRY |
| | | THE GREENLAND ICE SHEET IN A WARMER CLIMATE | | |
| 62933 | Jun Saito | Measured deep thermal profiles across a transect of Greenland’s percolation zone: Implications for seasonal storage and release of heat | University of Montana | US |
| 62984 | Nicholas Rathmann | On the limitations of using polarimetric radar sounding to Infer the crystal orientation fabric of ice masses | Niels Bohr Institute | DK |
| 63014 | Sonja Wahl | Evaluation of surface mass-balance model performance in the accumulation zone of the Greenland Ice Sheet | Geological Survey of Denmark and Greenland | DK |
| 63016 | Hayden Pearson | Calving and sea-ice dynamics at a large tidewater glacier draining the Greenland ice sheet. | University of Tromsø, Norway | NO |
| 63019 | Max Brils | Characteristics of the contemporary Greenland ice sheet firn layer (1958-2020) | IMAU, Utrecht University | NL |
| 63065 | Tiago Silva | The role of rainfall on the surface energy budget over the Greenland Ice Sheet | Institute of Geography and Regional Sciences | AT |
| 63109 | Alison Delhasse | How much more warming can the Greenland ice sheet withstand? | University of Liège | BE |
| 63116 | Sophie Goliber | Complex geometries of stability points of Greenland Glaciers | University of Texas at Austin | US |
| 63143 | Julien Westhoff | An optical approach to determine the bubble lock-in depth in ice cores | University of Copenhagen | DK |
| 63174 | Mikkel Lauritzen | The influence of past temperature variability on the current-day Greenland ice sheet and future sea-level projections | University of Copenhagen | DK |
| 63175 | Emma Carr | The influence of sea ice and ice mélange on seasonal outlet glacier dynamics in northwestern Greenland | Newcastle University | UK |
| 63214 | Niels F. Nymand | Ultra wideband dual-polarized radar system in connection with ice fabric anisotropy at NEGIS | Niels Bohr Institute, University of Copenhagen | DK |
| 63222 | Dina Rapp | Initial exploration and break-point detection of Greenland surface temperatures | University of Copenhagen | DK |
| 63257 | Matteo Ottaviani | Data fusion over Greenland and polarimetric retrievals of snow and atmospheric properties | NASA Goddard Institute for Space Studies | US |
| 63283 | Jonathon Preece | Summer Greenland Ice Sheet surface conditions linked to spring North American snow cover extent via a stationary Rossby wave response | University of Georgia | US |
| 63302 | Jeremy Carter | Variability in Antarctic surface climatology across regional climate models and reanalysis datasets | Lancaster University | UK |
| 63339 | Dániel Topál | Observation-model discrepancies in large-scale wind-driven Greenland melt impact sea-level rise projections | Eötvös University, Budapest | HU |
| 63344 | Sebastian B. Simonsen | A long timeseries of Greenland ice sheet mass balance from satellite radar altimetry | Technical University of Denmark | DK |
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| | | ANTARCTICA: HOW WILL THE FROZEN CONTINENT RESPOND TO GLOBAL WARMING? | | |
| 62923 | Aakriti Srivastava/Nigam | Temporal and spatial variability of Getz Ice Shelf fronts and its forecast using MODIS data and geospatial approach | Barkatullah University, Bhopal, Madhya Pradesh | IN |
| 62942 | Sarah Wauthy | High spatial and temporal variability of surface mass balance at ice rises in Dronning Maud Land (East Antarctica): origin, trends and cycles. | Université libre de Bruxelles | BE |
| 62999 | Mariel Discherl | Temporal monitoring of Antarctic supraglacial lake dynamics in 2015-2021 and links to environmental drivers | German Aerospace Center (DLR) | DE |
| 63036 | Aakriti Srivastava | Estimation of morphological changes of Getz Ice Shelf Fronts and its forecast using MODIS data and geospatial approach | Barkatullah University, Bhopal, Madhya Pradesh | IN |
| 63050 | Gunter Leguy | Sensitivity of the Community Ice Sheet Model under ISMIP6 extended Antarctic experiments | National Center for Atmospheric Research, Boulder | US |
| 63054 | Douglas MacAyeal | Preliminary analysis of melt-induced ice-shelf flexure on George VI Ice Shelf observed with GNSS | Geophysical Sciences, University of Chicago | US |
| 63055 | Douglas MacAyeal | Time-lapse photography as a witness to George VI Ice Shelf’s record-high melt in the 2019/2020 melt season | Geophysical Sciences, Univesity of Chicago | US |
| 63091 | Lisa Craw | Anisotropy of the Priestley Glacier lateral shear margin, Antarctica. | University of Otago | NZ |
| 63106 | Manoela Brum Poitevin Portella | Stable-isotope ratios ($\delta^{18}\text{O}$ and δD) in a firn core from West Antarctica | Universidade Federal do Rio Grande do Sul (UFRGS) | BR |
| 63113 | Beatriz Recinos Rivas | A model framework for time-dependent ice sheet uncertainty quantification; applied to three West Antarctic ice streams. | School of GeoSciences, University of Edinburgh | UK |
| 63130 | Devon Dunmire | Investigating the future of firn air content on Antarctica’s ice shelves using a physics-based snow model | University of Colorado, Boulder | US |
| 63141 | Lucia Gonzalez | Classic and machine learning approaches for microseismicity detection and location across the Eastern shear margin of Thwaites Glacier, West Antarctica | University of Texas at El Paso | US |
| 63187 | Mira Adhikari | Investigating the reversibility of Antarctic Ice Sheet mass loss under idealised committment and geoengineered scenarios | Kings College London | UK |
| 63249 | Josephine Maton | Monitoring Antarctic calving front locations and annual iceberg calving flux | Norwegian Polar Institute | NO |
| 63254 | Anirudha Mahagaonkar | Assessment of meltwater evolution and its controls over major ice shelves of Dronning Maud Land, East Antarctica | Norwegian Polar Institute | NO |
| 63263 | Sainan Sun | Impacts of recent calving events on upstream flow of Pine Island Glacier and modelling of potential future scenarios | Northumbria University | UK |
| 63278 | Daniel May | Bistatic radar observations to constrain subglacial material properties and geometry: System testing on McMurdo Ice Shelf | Department of Geophysics, Stanford University | US |
| 63301 | Irina Gorodetskaya | Heatwaves and rainfall at the Antarctic Peninsula associated with atmospheric rivers from Year of Polar Prediction enhanced observations and regional climate modeling | University of Aveiro | PT |
| 63602 | Laura De Santis | A geological record of the Cook-Ninnis-Mertz glacial system and ocean dynamics: data from Antarctic Italian Program cruise 2022 (George V Land continental margin, East Antarctica) | National Institute of Oceanography and Applied Geophysics | IT |
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| | | OCEAN-CRYOSPHERE INTERACTIONS | | |
| 62909 | Hyen Goo Cho | Provenance of the inner slope of the Chukchi Rise Sediments and their paleoenvironmental implications | Gyeongsang National University | KR |
| 62985 | Eva de Andrés | Assessing the relationship between Sea ice concentration and the freshwater content in the Beaufort Gyre from remote sensing data | Institut de Ciències del Mar (CSIC) | ES |
| 62987 | Anna Olivé Abelló | Sea-ice coverage and water mass transports in the Powell Basin | Institut de Ciències del Mar, CSIC, Barcelona | ES |
| 63025 | Rosemary Vieira | Elemental and mineralogical characterization of marine sediments and their relationship to sedimentary and oceanographic processes in Central Bransfield basin | Universidade Federal Fluminense | BR |
| 63026 | Rosemary Vieira | Sedimentology and physical properties of marine sediments from Port Foster, Deception Island (South Shetland Islands, Antarctica) | Universidade Federal Fluminense | BR |
| 63160 | Clara Lambin | Evaluation of MAR-NEMO coupled system simulations over the Arctic. | University of Liège | BE |
| 63176 | Anneke Vries | Freshwater budget of a fjord in Southwest Greenland | NIOZ Royal Netherlands Institute for Sea Research | NL |
| 63178 | Geir Moholdt | ALBATROSS: Improving bathymetry and ocean tide knowledge in the Southern Ocean | Norwegian Polar Institute | NO |
| 63191 | Ximena Aguilar Vega | Organic carbon properties in polar and sub-polar glaciomarine systems. | University of Stirling | UK |
| 63200 | Roiy Sayag | Formation and evolution of radial ice rifts | Ben Gurion University | IL |
| 63229 | Jan De Rydt | Coupled ice-ocean modelling of the Amundsen Sea glaciers | Northumbria University | UK |
| 63253 | Alessandro Silvano | Simulated warm water access to ice shelf cavities in the Amundsen Sea, Antarctica | University of Southampton | UK |

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| 63265 | Venisse Schossler/Aquino | Tropical-Pole teleconnections: Positive sea level anomalies in southern Brazil and Antarctic sea ice extent | Universidade Federal do Rio Grande do Sul | BR |
| 63274 | Elena Savidge | Linking thermal remote sensing and seal-borne measurements to investigate wintertime Polynya structure and variability at Pine Island Glacier, West Antarctica | Colorado School of Mines | US |
| 63296 | Jérémie Bonneau | Circulation and water properties in a Canadian Arctic glacial fjord. | The University of British Columbia | CA |
| 63310 | Rosemary Vieira | Methane hotspots dissolved in the surface water of Foster and Admiralty Bays (Southern Shetland Islands), Northern Antarctic Peninsula | Universidade Federal Fluminense | BR |
| 63322 | Rosemary Vieira | The Beagle Channel in the southernmost tip of South America: Spatial controls on carbon dioxide sink in sub-Antarctic coastal waters in early Fall | Institut de Ciències del Mar | ES |
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| | | CLIMATE VARIATIONS, CLIMATE AND EARTH SYSTEM MODELLING | | |
| 62943 | Nicole Loeb | Characteristics & impacts of extreme precipitation in southern Greenland in the current and future climate | University of Manitoba | CA |
| 62950 | Damien Maure | Contrasting effect of the climate warming on the grounded Arctic cryosphere | Université de Liège | BE |
| 63154 | Norman Steinert | Arctic carbon cycle feedbacks under idealized overshoot scenarios | NORCE, Bjerknes Centre for Climate Research, Bergen | NO |
| 63169 | Violet Patterson | Coupled climate-ice sheet simulations of the last two glacial maxima; why were the Northern Hemisphere ice sheets so different? | University of Leeds | UK |
| 63183 | Michelle McCrystall | How well do CMIP6 models to represent atmospheric processes in northeast Greenland? | University of Manitoba | CA |
| 63189 | Ketil Isaksen | Natural climatic and hydrological seasons in the West Spitsbergen area according to instrumental observations in the XX - XXI centuries | Norway Meteorological Institute | NO |
| 63209 | Libo Wang | Impact of an alternate snow cover fraction parameterization on snow simulation in CLASSIC | Environment and Climate Change Canada, Toronto | CA |
| 63219 | Tarek Zaqout | Climate change induced transformations in soil frost and urban flood risks in Iceland | University of Iceland | IS |
| 63247 | Kimberly Casey | Over two decades of snow cover, atmospheric and aquatic data over the Western US Great Basin, analysis and impacts towards drought, air quality and ecosystem health | U.S. Geological Survey | US |
| 63598 | Alexandra Avrutin | Observation-consistent nonlinear ice interactions in an efficient Earth Systems model and their implications for sea-level projections | University of Southampton | UK |
| 63741 | Bolli Pálmason | C3S Arctic regional reanalysis (1991-2021) | Icelandic Meteorological Office | IS |
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| | | MONITORING SYSTEMS, RESEARCH GAPS, NEW TECHNOLOGIES | | |
| 62926 | Arvind Pandey | Determining and assessing the dynamics of Snow and Vegetation Cover in Uttarakhand Himalaya during 1999-2021 using MODIS data | Soban Singh Jeena University, Almora, India | IN |
| 62928 | Nora Gourmelon | Calving fronts and where to find them: A multi-task model for automatic glacier calving front extraction from SAR imagery | Friedrich-Alexander-Universität Erlangen-Nürnberg | DE |
| 62949 | Kati Anttila | Finnish Environment Institute data on snow water equivalent, depth and snow cover fraction | Finnish Environment Institute | FI |
| 62996 | Martina Lodigiani | Multiband radar system for snowpack and glacier monitoring in Alpine area | University of Pavia | IT |
| 63001 | Tony Manzara | Reduction in glacier melt rate by albedo modification | Bright Ice Initiative | US |
| 63030 | Sahra Abdullahi | Quantifying the impact of X-band InSAR penetration bias on mass balance estimation | German Aerospace Center (DLR) | DE |
| 63053 | Alicia Pouw | Improved spatial distribution estimates of snow depth over lakes in Canada's Subarctic to further thermodynamic lake ice modelling | Wilfrid Laurier University | CA |
| 63079 | Martina Lan Salomon | Detectability of crude oil and diesel in the sea ice pore space by micro-CT analysis | The Norwegian University of Science and Technology (NTNU) | NO |
| 63120 | Leena Leppänen | Snow pits by citizens | University of Lapland | FI |
| 63139 | Claudio Artoni | PADI: the Italian platform for optical properties of dust in ice cores | University of Milano-Bicocca | IT |
| 63146 | Gifti Attiah | Monitoring changes in surface temperature and ice cover of Canadian sub-arctic lakes from in-situ observation, remote sensing, and modelling | Wilfrid Laurier University, Waterloo | CA |
| 63211 | Arash Rafat | Monitoring lake ice growth dynamics at high temporal resolutions in two Canadian sub-Arctic lakes | Wilfrid Laurier University, Waterloo | CA |
| 63231 | Ali Nadir Arslan | Coordination efforts on in-situ snow observations towards to harmonization and its applications: Nordic Snow Network | Finnish Meteorological Institute | FI |
| 63246 | Luiz Felipe Velho | Geospatial data from glacial drainage basins of Admiralty Bay, King George Island, Maritime Antarctic | Instituto Federal de Educação, Ciência e Tecnologia do Rio Grande | BR |
| 63251 | Guro Størdal | Extending snow coverage series using web camera pictures | Norwegian Meteorological institute | NO |
| 63259 | Signe Aaboe | Cryosphere monitoring at MET Norway through cryo.met.no | Norwegian Meteorological Institute | NO |
| 63262 | Dipti Tiwari | Will Terrestrial Snow Mass Mission be suitable to calibrate hydrological models? | Université de Sherbrooke | CA |
| 63315 | Gavin Piccione | Carbon oxidation within the subglacial waters of the East Antarctic ice sheet | University of California Santa Cruz | US |
| 63334 | Pavla Dagsson-Waldhauserova | Impacts of high latitude dust and snow-dust storms on the cryosphere | Agricultural University of Iceland | IS |
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| | | HUMANS IN THE CRYOSPHERE + OPPORTUNITIES, ADAPTATION, MITIGATION | | |
| 61021 | Vera Vinogradova | Universal Thermal Climate Index (UTCI) in the Russian Arctic | Institute of Geography, Russian Academy of Sciences | RU |
| 62937 | Randy Muñoz | Participatory scenario planning in mountain ecosystems: a systematic review | University of Zurich | CH |
| 63271 | Randy Muñoz | Linking changes in water availability and livelihoods assets of water users in the glacierized tropical Andes | Department of Geography, University of Zurich | CH |
| 63277 | Charne Lavery | Frozen hydrocolonialism: Water, empire and Antarctica in South African literature | Univ. of Pretoria and Univ. of the Witwatersrand | ZA |