

AGU 2019 Fall Meeting

Sessions, talks, and events relevant to the Arctic Research community

Monday, 9 December 2019

Talk Sessions:

B11D The Resilience and Vulnerability of Arctic and Boreal Ecosystems to Climate Change I

Moscone West - 3001, L3

08:00 - 10:00 – Primary Convener Michelle C Mack

Northern Arizona University

C11A Advances in Glacier Hydrology I

Moscone West - 2008, L2

08:00 - 10:00 – Primary Convener Kristin M Schild

University of Oregon

C11B Merging Ice Sheet and Climate Reconstructions with Numerical Models to Understand the Mechanisms and Rates of Ice Sheet Change I

Moscone West - 2003, L2

08:00 - 10:00 – Primary Convener Nicolas E Young

Lamont -Doherty Earth Observatory

ED11A Making Science Relevant: Strategies for Communicating About Science to Broad Audiences I

Moscone South - 216, L2

08:00 - 10:00 – Primary Convener Regina Brinker

Livermore Valley Joint Unified School District

PA11A Bringing Science Down to Earth: Using Storytelling, Personal Narratives, and Multichannel Media to Advance Awareness and Use of Earth Science in Communities Worldwide I

Moscone South - 301-302, L3

08:00 - 10:00 - Primary Convener Lawrence Friedl

NASA Headquarters

How to Sketch Your Science

Moscone West - 2001A, L2

10:00 - 11:30

B12D The Resilience and Vulnerability of Arctic and Boreal Ecosystems to Climate Change II

Moscone West - 3001, L3

10:20 - 12:20 - Primary Convener Michelle C Mack

Northern Arizona University

C12A Advances in Glacier Hydrology II

Moscone West - 2008, L2

10:20 - 12:20 - Primary Convener - Kristin M Schild

University of Oregon

C12B Arctic Coastal Changes, Hazards, and Risks: Circumpolar Truths and Future Outcomes I

Moscone West - 2006, L2

10:20 - 12:20 - Primary Convener - Anna M. Irrgang

Alfred Wegener Institute Helmholtz-Center

ED12B Making Science Relevant: Strategies for Communicating About Science to Broad Audiences II

Moscone South - 216, L2

10:20 - 12:20 - Primary Convener Regina Brinker

Livermore Valley Joint Unified School District

GC12A Coupled Surface Interactions in the Arctic and Antarctic: From Process-Level Understanding to Advanced Regional Predictive Capabilities I

Moscone West - 2003, L2

10:20 - 12:20 - Primary Convener - Patrick C Taylor

NASA Langley Research Center

TH13B Building Momentum: Developing Sustainable Cross-Disciplinary Collaborations

Moscone West - 2016, L2

12:30 - 13:30 – Primary Convener - Caitlyn A Hall

Arizona State University

TH13D Estimating the Circulation and Climate of the Ocean (ECCO) Town Hall: The Latest Global Ocean and Sea Ice State Estimate from the ECCO Consortium

Moscone West - 2007, L2

12:30 - 13:30 - Primary Convener - Ian G Fenty

NASA Jet Propulsion Laboratory

TH13E Power of Science Lies in Its Diverse Voices

Moscone West - 3001, L3

12:30 - 13:30- Primary Convener - Aditi Sengupta

Pacific Northwest National Laboratory

TH13L NSF Cyberinfrastructure Center of Excellence Pilot: Supporting Large-Scale Facilities for Sustained Scientific Research

Moscone West - 3004, L3

12:30 - 13:30 - Primary Convener - Janet Wyngaard

University of Notre Dame

B13D The Resilience and Vulnerability of Arctic and Boreal Ecosystems to Climate Change III

Moscone West - 3001, L3

13:40 - 15:40 – Primary Convener - Michelle C Mack

Northern Arizona University

C13B Ice Core Records of Environmental Change I

Moscone West - 2006, L2

13:40 - 15:40 – Primary Convener - Vasilii V Petrenko

University of Rochester

ED13A Sharing Their Science: Enabling Scientists in Public Engagement and Communication Efforts I

Moscone South - 216, L2

13:40 - 15:40 – Primary Convener - Christine B Shupla

Lunar and Planetary Institute

PA13A Communicating with Appropriate Urgency: How to Connect with Audiences in a Time of Accelerating Change eLightning

Moscone South - eLightning Theater I

13:40 - 15:40 - Primary Convener - Beth A Bartel

UNAVCO, Inc. Boulder

B14D The Resilience and Vulnerability of Arctic and Boreal Ecosystems to Climate Change IV

Moscone West - 3001, L3

16:00 - 18:00 - Primary Convener - Michelle C Mack

Northern Arizona University

C14A Advances in Ice Sheet-Ocean Interactions: From Measurement to Climate Impacts II

Moscone West - 2008, L2

16:00 - 18:00 - Primary Convener - Thomas W. K. Armitage

Jet Propulsion Laboratory

PA14C Science Communication at Multiple Scales eLightning

Moscone South - eLightning Theater I

16:00 - 18:00 - Primary Convener - Kathy Kelsey

University of Colorado Denver

Individual Talks:

EP11B-01 Submarine Permafrost Dynamics Along the Arctic Shelf Edge

Moscone West - 3009, L3

08:00 - 08:20 – Author - Charles K Paull

Monterey Bay Aquarium Research Institute

A12E-01 High Latitude Water Vapor in CMIP6 models *Philip J Rasch*(Invited)

Moscone West - 3002, L3

10:20 - 10:35 – Author - Philip J Rasch

Pacific Northwest National Lab

GC12C-04 Investigation of Boundary Layer Inversions, Urban Heat Island and Human Thermal Comfort Trends in Big Cities of Eastern Arctic: First Results (in Connection with UHIARC-Network Measurements) *Pavel Konstantinov*

Moscone West - 2007, L2

11:05 - 11:20 – Author - Pavel Konstantinov

Lomonosov Moscow State University

C13B-01 EGRIP – drilling through an ice stream *Dorthe Dahl-Jensen*(Invited)

Moscone West - 2006, L2

13:40 - 13:55 – Author - Dorthe Dahl-Jensen

Poster Session:

C11C Ice Core Records of Environmental Change II Posters

Moscone South - Poster Hall

08:00 - 12:20 – Primary Convener - Vasilii V Petrenko

University of Rochester

ED11B Amazing Technologies and Capabilities That Contribute to STEAM II Posters

Moscone South - Poster Hall

08:00 - 12:20 – Primary Convener - Emily Law

Jet Propulsion Laboratory

NS11B Geophysical Advances in Cryospheric Processes, Structure, and Environmental Change III Posters

Moscone South - Poster Hall

08:00 - 12:20 – Primary Convener - *Stephanie R. James*

USGS Geology, Geophysics, and Geochemistry Science Center

C13C Advances in Glacier Hydrology III Posters

Moscone South - Poster Hall

13:40 - 18:00 - Primary Convener - Kristin M Schild
University of Oregon

C13D Arctic Coastal Changes, Hazards, and Risks: Circumpolar Truths and Future Outcomes II Posters

Moscone South - Poster Hall

13:40 - 18:00 - Primary Convener - Anna M. Irrgang
Alfred Wegener Institute Helmholtz-Center

C13E Observations, Interactions, and Implications of Permafrost Systems in Transition III Posters

Moscone South - Poster Hall

13:40 - 18:00 - Primary Convener - Sarah G. Evans
Appalachian State University

ED13F Making Science Relevant: Strategies for Communicating About Science to Broad Audiences III Posters

Moscone South - Poster Hall

13:40 - 18:00 - Primary Convener - Regina Brinker
Livermore Valley Joint Unified School District

GC13H Coupled Surface Interactions in the Arctic and Antarctic: From Process-Level Understanding to Advanced Regional Predictive Capabilities II Posters

Moscone South - Poster Hall

13:40 - 18:00 - Patrick C Taylor
NASA Langley Research Center

[IN13C-0736 - The Canadian Consortium for Arctic Data Interoperability: Developing an Integrated Canadian Arctic Data Management System](#)

Data & Rising Technologies - SWIRL

Moscone South - Poster Hall

13:40 - 18:00

[H13K-1856 - Mapping Coastal Change along Southwest Banks Island, Northwest Territories, Canada](#)

Centennial - SWIRL

Moscone South - Poster Hall

13:40 - 18:00

Tuesday, 10 December 2019

Talk Sessions:

B21D The Resilience and Vulnerability of Arctic and Boreal Ecosystems to Climate Change V

Mosccone West - 3001, L3

08:00 - 10:00 -Primary Convener - Michelle C Mack

Northern Arizona University

C21B Glacier Monitoring from in Situ and Remotely Sensed Observations I

Mosccone West - 2008, L2

08:00 - 10:00 – Primary Convener - Laura Thomson

Queen's University

C21C Changing Climate Components in the Arctic and Antarctic Coupled Systems I

Mosccone West - 2003, L2

08:00 - 10:00 – Primary Convener - Michael Steele

Applied Physics Laboratory University of Washington

ED21A Dirty Stories of Data Rescue: Sharing Successes and Learning Opportunities to Improve Workflows eLightning

Mosccone South - eLightning Theater I

08:00 - 10:00 – Primary Convener - Denise J Hills

Geological Survey of Alabama

ED21B Scientists, Artists, and the Earth: Cooperating for the Planet II eLightning

Mosccone South - eLightning Theater I

08:00 - 10:00 – Primary Convener - George Sand Franca

UNB University of Brasilia

IN21A Achieving the "R" of FAIR Data Principles: Reusability Is the Biggest Challenge but the Most Rewarding I

Mosccone West - 2018, L2

08:00 - 10:00 – Primary Convener - Lesley A Wyborn

Australian National University

IN21B Visual Communication in Science: New Ideas, Best Practices, Great Tools, Awesome Examples eLightning

Mosccone South - eLightning Theater III

08:00 - 10:00 - Richard Saltus

University of Colorado at Boulder

A22B Jacob Bjerknes Lecture

Mosccone West - 2022-2024, L2

10:20 - 11:20 – Primary Convener - James W Hurrell

Colorado State University

C22A Glacier Monitoring from in Situ and Remotely Sensed Observations II

Mosccone West - 2008, L2

10:20 - 12:20 – Primary Convener - Laura Thomson

Queen's University

C22B Changing Climate Components in the Arctic and Antarctic Coupled Systems II

Mosccone West - 2003, L2

10:20 - 12:20 – Primary Convener - Michael Steele

Applied Physics Laboratory University of Washington

C22C Observations, Interactions, and Implications of Permafrost Systems in Transition I

Moscone West - 2006, L2

10:20 - 12:20 – Primary Convener - Sarah G. Evans

Appalachian State University

C22D Visualizing the Dynamic Cryosphere eLightning

Moscone South - eLightning Theater II

10:20 - 12:20 – Primary Convener - Eric A Sproles

Montana State University

TT22B Science to Action: How to Work with Communities and Make an Impact

Moscone South - 104-105, LLS

10:50 - 11:20 – Primary Convener - Julie A Vano

National Center for Atmospheric Research

TT22D Evaluation: Best Practices for Broader Impacts

Moscone South - 104-105, LLS

11:50 - 12:20 – Primary Convener - Jennifer A Wade

National Science Foundation

TH23A Ice Sheet System Model Town Hall

Moscone West - 2004, L2

12:30 - 13:30 – Primary Convener - Eric Y Larour

Jet Propulsion Laboratory

TH23G Data FAIR: Persistent Identifiers In Action

Moscone West - 2005, L2

12:30 - 13:30 – Primary Convener - Shelley Stall

American Geophysical Union

TH23M NSF Geosciences Town Hall 2019

Moscone West - 2003, L2

12:30 - 13:30 – Primary Convener - Melissa Lane

NSF Geosciences

U23G Sharing Your Science in the 21st Century: New Developments in Scholarly Communication and Journal Publishing II

Moscone South - Hall D, Centennial Central

13:40 - 14:40 – Primary Convener - Caroline Coward

NASA Jet Propulsion Laborato

C23A The John F. Nye Lecture and Honored Member Presentations

Moscone West - 2022-2024, L2

13:40 - 15:40 – Primary Convener - Lora Koenig

National Snow and Ice Data Center

ED23A Linking Education and Research Communities in Earth and Space Sciences: International Trends, Collaboration, and Impact I

Moscone South - 213-214, L2

13:40 - 15:40 – Primary Convener - Vincent C H Tong

University College London

ED23B Scientists, Artists, and the Earth: Cooperating for the Planet I

Moscone South - 301-302, L3

13:40 - 15:40 – Primary Convener - Tiziana Lanza

Istituto Nazionale di Geofisica e Vulcanolo

ED23C Student/Educator Undergraduate Research Programs Promoting Authentic Scientific Experience I

Moscone South - 216, L2

13:40 - 15:40 – Primary Convener - Edgar A Bering

University of Houston

ED23E Efforts to Improve and Support REU Internship Programs eLightning

Moscone South - eLightning Theater II

13:40 - 15:40 – Primary Convener - Valerie Sloan

National Center for Atmospheric Research

PP23A Centennial Session: One Hundred Years of Ice Sheet and Sea Level Science I

Moscone West - 2006, L2

13:40 - 15:40 – Primary Convener - Tamara Pico

Harvard University

B24F The Resilience and Vulnerability of Arctic and Boreal Ecosystems to Climate Change eLightning

Moscone South - eLightning Theater II

16:00 - 18:00 – Primary Convener - Michelle C Mack

Northern Arizona University

C24A Artificial Intelligence and Automation Techniques for Large-Scale Remote Sensing of the Cryosphere I

Moscone West - 2008, L2

16:00 - 18:00 – Primary Convener - Leigh A Stearns

University of Kansas

C24B Observations, Interactions, and Implications of Permafrost Systems in Transition II

Moscone West - 3024, L3

16:00 - 18:00 – Primary Convener - Sarah G. Evans

Appalachian State University

ED24A Reaching the Researcher: Collaborations Between Educators, Scientists, and the Public for the Advancement of STEM and Geosciences I

Moscone South - 215, L2

16:00 - 18:00 – Primary Convener - Janet Warburton

ARCUS

ED24B Student/Educator Undergraduate Research Programs Promoting Authentic Scientific Experience II eLightning

Moscone South - eLightning Theater III

16:00 - 18:00 – Primary Convener - Edgar A Bering

University of Houston

GC24C Environmental, Socioeconomic, and Climatic Changes in Northern Eurasia I

Moscone West - 2010, L2

16:00 - 18:00 – Primary Convener - Pavel Groisman

HS&S

PP24A Centennial Session: One Hundred Years of Ice Sheet and Sea Level Science II

Moscone West - 2006, L2

16:00 - 18:00 – Primary Convener - Tamara Pico

Harvard University

PA24A Science Diplomacy: Advancing Scientific Discovery Through Cross-Border Collaboration I

Moscone South - 301-302, L3

16:00 - 18:00 – Primary Convener – Yekaterina Y Kontar

Cryosphere Sciences Business Meeting and Reception

Marriott Marquis - Salon 8, Lower B2

18:30 - 20:00 – Ticket Required

Individual Talks:

B21E-01 Long-Term Local Ecological Change in the Klondike Exposed with Permafrost eDNA

Moscone West - 3012, L3

08:00 - 08:15 -Author - Sabrina Shirazi

University of California Santa Cruz

B21E-04 Which Assembly Rules drive Biodiversity Patterns in Diatoms? A Study on Recent and Ancient Sedimentary DNA from Arctic Lakes

Moscone West - 3012, L3

08:45 - 09:00 – Author - Kathleen Stoof-Leichsenring

Alfred Wegener Institute

B22A-05 Assessing Key Environmental Drivers of Ecosystem Functional Diversity in the Circumpolar Arctic

Tundra Amanda Hildt Armstrong

Moscone West - 3005, L3

11:20 - 11:35 – Author - Amanda Hildt Armstrong

Universities Space Research Association Columbia

B23A-02 Pan-Arctic Molecular Fingerprints: Multi-Year FT-ICR MS Data from the Major Arctic Rivers Reveal Unique Seasonal- and River-Specific Molecular Formulae

Moscone West - 3007, L3

13:55 - 14:10 – Primary Author - Megan Irene Behnke

Florida State University

GC23D-02 Nonuniform Contribution of Internal Variability to Recent Arctic Sea Ice Loss *Mark England (Invited)*

Moscone West - 2005, L2

13:55 - 14:10 – Primary Author - Mark England

Columbia University of New York

B24C-01 Fire and Ice – the impacts of changing boreal fire regimes and permafrost loss on carbon stocks and stability

Moscone West - 3007, L3

16:00 - 16:15 – Primary Author - Catherine M Dieleman

University of Guelph

PA24A-02 - Research Together Is Better: Science Diplomacy Must Overcome Fabricated Political Strife (Invited)

Julie Brigham-Grette, Univ Massachusetts

Moscone South - 301-302, L3

16:00 - 18:00 – Primary Convener – Yekaterina Y Kontar

PA24A-03 - Importance of cross-border team science in permafrost research for risk mitigation (Invited)

Louise Melanie Farquharson, University of Alaska Fairbanks

Moscone South - 301-302, L3

16:00 - 18:00 – Primary Convener – Yekaterina Y Kontar

Poster Session:

C21D Advances in Ice Sheet-Ocean Interactions: From Measurement to Climate Impacts III Posters

Moscone South - Poster Hall

08:00 - 12:20 – Primary Convener - Thomas W. K. Armitage
Jet Propulsion Laboratory

C21E Merging Ice Sheet and Climate Reconstructions with Numerical Models to Understand the Mechanisms and Rates of Ice Sheet Change II Posters

Moscone South - Poster Hall

08:00 - 12:20 – Primary Convener - Nicolas E Young
Lamont -Doherty Earth Observatory

C21F Investigating the Feedbacks Between Solid Earth Properties and the Cryosphere II Posters

Moscone South - Poster Hall

08:00 - 12:20 – Primary Convener - Samantha Elizabeth Hansen
The University of Alabama

ED21C Assessing Student Learning: Moving Beyond Affect I Posters

Moscone South - Poster Hall

08:00 - 12:20 – Primary Convener - Tanya Furman
Pennsylvania State University

ED21D Reaching the Researcher: Collaborations Between Educators, Scientists, and the Public for the Advancement of STEM and Geosciences II Posters

Moscone South - Poster Hall

08:00 - 12:20 – Primary Convener - Janet Warburton
ARCUS

H21N Remote Sensing of Hydrology and Environmental Change in the Cryosphere I Posters

Moscone South - Poster Hall

08:00 - 12:20 – Primary Convener - Colin J Gleason
University of Massachusetts Amherst

B23G Arctic Land Surface Energy Fluxes and Their Impact on the Earth System Under Current and Future Conditions I Posters

Moscone South - Poster Hall

13:40 - 18:00 – Primary Convener - Jacqueline Oehri
University of Zurich

B23H Causes and Consequences of Changing Disturbance Regimes in Boreal Forests Across the Globe II Posters

Moscone South - Poster Hall

13:40 - 18:00 – Primary Convener - Heather Dawn Alexander
Mississippi State University

B23I Understanding the Interactions Between Hydrological and Biogeochemical Dynamics in Permafrost Environments with Observations and Models II Posters

Moscone South - Poster Hall

13:40 - 18:00 – Primary Convener - Peter Munroe Douglas
McGill University

B23J Ecology of the Cryosphere: Biological and Environmental Interactions in Seasonally and Permanently Cold Ecosystems II Posters

Moscone South - Poster Hall

13:40 - 18:00 - Megan Dillon
Lawrence Berkeley National Laboratory

B23K The Resilience and Vulnerability of Arctic and Boreal Ecosystems to Climate Change VI Posters

Mosccone South - Poster Hall

13:40 - 18:00 – Primary Convener - Michelle C Mack

Northern Arizona University

B23M Vulnerability of Permafrost Carbon to Climate Change III Posters

Mosccone South - Poster Hall

13:40 - 18:00 – Primary Convener - Christina Schaedel

Northern Arizona University

C23B Advances in Observing and Modeling Ice Sheet and Ice Shelf Surface Mass Balance: Past, Present, and Future III Posters

Mosccone South - Poster Hall

13:40 - 18:00 – Primary Convener - Jan Lenaerts

University of Colorado at Boulder

C23D Changing Climate Components in the Arctic and Antarctic Coupled Systems III Posters

Mosccone South - Poster Hall

13:40 - 18:00 – Primary Convener - Michael Steele

Applied Physics Laboratory University of Washington

GC23F Codeveloped and Coimplemented: Advancing Transdisciplinary Approaches to Global Change Challenges I Posters

Mosccone South - Poster Hall

13:40 - 18:00 – Primary Convener - Erica Key

Belmont Forum

IN23D Achieving the "R" of the FAIR Data Principles: Reusability Is the Biggest Challenge but the Most Rewarding! II Posters

Mosccone South - Poster Hall

13:40 - 18:00 – Primary Convener - Lesley A Wyborn

Australian National University

Wednesday, 11 December 2019

Talk Sessions:

[Navigating the NSF System](#)

Mosccone South - 4, LL

09:00 - 12:00 - Workshop

[C32A Controls on Tidewater Glacier Terminus Dynamics in Observations and Models I](#)

Mosccone West - 2008, L2

10:20 - 12:20 – Primary Convener - Denis Felikson

NASA Goddard Space Flight Center

[C32B Properties and Processes of Sea Ice: Understanding Interannual Variability and Dynamic Change I](#)

Mosccone West - 2006, L2

10:20 - 12:20 – Primary Convener - Chris Polashenski

U.S. Army Cold Regions Research and Engineering Laboratory

[ED32B Evaluation of Education, Outreach, and Communication: Learning from Our Work and Telling the Story of Learning I](#)

Mosccone South - 213-214, L2

10:20 - 12:20 – Primary Convener - Hilarie B Davis

Technology for Learning

[C33A Advances in Observing and Modeling Ice Sheet and Ice Shelf Surface Mass Balance: Past, Present, and Future I](#)

Mosccone West - 2008, L2

13:40 - 15:40 – Primary Convener - Jan Lenaerts

University of Colorado at Boulder

[PP33A A Warming Arctic: What Records of the Past Tell Us About the Future I](#)

Mosccone West - 2004, L2

13:40 - 15:40 – Primary Convener - Jamie Marie McFarlin

Northwestern University

[C34A Advances in Observing and Modeling Ice Sheet and Ice Shelf Surface Mass Balance: Past, Present, and Future II](#)

Mosccone West - 2008, L2

16:00 - 18:00 – Primary Convener - Jan Lenaerts

University of Colorado at Boulder

[ED34A Actions and Perspectives on Diversity, Inclusion, and Equity in the Earth and Space Sciences in the Classroom II](#)

Mosccone South - 216, L2

16:00 - 18:00 – Primary Convener - Lesley A Wyborn

Australian National University

[PP34A A Warming Arctic: What Records of the Past Tell Us About the Future II](#)

Mosccone West - 2004, L2

16:00 - 18:00 – Primary Convener - Jamie Marie McFarlin

Northwestern University

[TH35A Federal Interagency Coordination for Research in the Arctic](#)

Mosccone West - 2004, L2

18:15 - 19:15 – Primary Convener - Sara Bowden

Interagency Arctic Research Policy Committee

Individual Talks:

B32B-06 Seasonal Cycles of Air-Sea CO₂ Exchange in an Arctic Coastal System

Moscone West - 3007, L3

11:35 - 11:50 – Primary Author - Brent Else

University of Calgary

Poster Session:

C31A Artificial Intelligence and Automation Techniques for Large-Scale Remote Sensing of the Cryosphere II Posters

Moscone South - Poster Hall

08:00 - 12:20 – Primary Convener - Leigh A Stearns

University of Kansas

C31B Glacier Monitoring from in Situ and Remotely Sensed Observations III Posters

Moscone South - Poster Hall

08:00 - 12:20 – Primary Convener - Laura Thomson

Queen's University

C31C Altimetry of the Polar Regions: CryoSat-2, Operation IceBridge, ICESat-2, and Beyond IV Posters

Moscone South - Poster Hall

08:00 - 12:20 – Primary Convener - Joseph A MacGregor

NASA Goddard Space Flight Center

ED31C Actions and Perspectives on Diversity, Inclusion, and Equity in the Earth and Space Sciences III Posters

Moscone South - Poster Hall

08:00 - 12:20 – Primary Convener - Lesley A Wyborn

Australian National University

PP31C Centennial Session: One Hundred Years of Ice Sheet and Sea Level Science III Posters

Moscone South - Poster Hall

08:00 - 12:20 – Primary Convener - Tamara Pico

Harvard University

C33B Modeling of the Cryosphere: Seasonal Snow II Posters

Moscone South - Poster Hall

13:40 - 18:00 – Primary Convener - Adam H Winstral

WSL Institute for Snow and Avalanche Research SLF

C33C Quantifying Spatial and Temporal Variability of Snow and Snow Processes II Posters

Moscone South - Poster Hall

13:40 - 18:00 – Primary Convener - Jeffrey S Deems

National Snow and Ice Data Center

C33D Recent Advances in Monitoring, Measuring, and Modeling Snow Processes Posters

Moscone South - Poster Hall

13:40 - 18:00 – Primary Convener - Andrew R Hedrick

USDA-ARS

C33E Remote Sensing of the Cryosphere: Seasonal Snow II Posters

Moscone South - Poster Hall

13:40 - 18:00 – Primary Convener - McKenzie Skiles

University of Utah

ED33D Evaluation of Education, Outreach, and Communication: Learning from Our Work and Telling the Story of Learning II Posters

Moscone South - Poster Hall

13:40 - 18:00 – Primary Convener - Hilarie B Davis

Technology for Learning

Thursday, 12 December 2019

Talk Sessions:

B41E Ecology of the Cryosphere: Biological and Environmental Interactions in Seasonally and Permanently Cold Ecosystems I

Moscone West - 3001, L3

08:00 - 10:00 – Primary Convener - Megan Dillon
Lawrence Berkeley National Laboratory

C41A Altimetry of the Polar Regions: CryoSat-2, Operation IceBridge, ICESat-2, and Beyond I

Moscone West - 2005, L2

08:00 - 10:00 – Primary Convener - Joseph A MacGregor
NASA Goddard Space Flight Center

C41B Quantifying Spatial and Temporal Variability of Snow and Snow Processes I

Moscone West - 2006, L2

08:00 - 10:00 – Primary Convener - Jeffrey S Deems
National Snow and Ice Data Center

U41B Plenary: Value of Diversity in Team Science

Moscone South - Hall D, Centennial Central

09:00 - 10:00 – Primary Convener - Tanya Furman
Penn State Univ

Bystander Intervention Training for Everyone

Moscone South - 4, LL

09:00 - 11:00

B42B Understanding the Interactions Between Hydrological and Biogeochemical Dynamics in Permafrost Environments with Observations and Models I

Moscone West - 3001, L3

10:20 - 12:20 – Primary Convener - Peter Munroe Douglas
McGill University

C42A Altimetry of the Polar Regions: CryoSat-2, Operation IceBridge, ICESat-2, and Beyond II

Moscone West - 2008, L2

10:20 - 12:20 – Primary Convener - Joseph A MacGregor
NASA Goddard Space Flight Center

C42B Remote Sensing of the Cryosphere: Seasonal Snow I

Moscone West - 2006, L2

10:20 - 12:20 – Primary Convener - McKenzie Skiles
University of Utah

U42C Panel Discussion: Discussion on Sexual Harassment in the Sciences and Progress in This Area

Moscone South - Hall D, Centennial Central

11:20 - 12:20 – Primary Convener - Frazier Benya
National Academies of Sciences, Engineering, and Medicine

TH43H Data FAIR: Open Science and Open Data: What Funders and Publishers Are Expecting

Moscone West - 2002, L2

12:30 - 13:30 – Primary Convener - Erin Robinson
Foundation for Earth Science Information Partners

[A43B Extratropical and High-Latitude Storms, Teleconnections, Extreme Events, and the Rapidly Changing Polar Climate I](#)

Moscone West - 3000, L3

13:40 - 15:40 – Primary Convener - Xiangdong Zhang
University of Alaska Fairbanks

[C43B Altimetry of the Polar Regions: CryoSat-2, Operation IceBridge, ICESat-2, and Beyond III](#)

Moscone West - 2005, L2

13:40 - 15:40 – Primary Convener - Joseph A MacGregor
NASA Goddard Space Flight Center

[C43C Modeling of the Cryosphere: Seasonal Snow I](#)

Moscone West - 2006, L2

13:40 - 15:40 – Primary Convener - Adam H Winstral
WSL Institute for Snow and Avalanche Research SLF

[A44C Extratropical and High-Latitude Storms, Teleconnections, Extreme Events, and the Rapidly Changing Polar Climate II](#)

Moscone West - 3002, L3

16:00 - 18:00 – Primary Convener - Xiangdong Zhang
University of Alaska Fairbanks

[C44A The Next 100 Years of Cryosphere I](#)

Moscone South - 201-202, L2

16:00 - 18:00 – Primary Convener - Jeffrey S Deems
National Snow and Ice Data Center

[PA44B Native Science to Action: How Indigenous Perspectives Inform, Diversify, and Build Capacity in Environmental Science and Policy I](#)

Moscone South - 301-302, L3

16:00 - 18:00 – Primary Convener - Ryan E Emanuel
North Carolina State University Raleigh

[TH45H DOE and NOAA Atmospheric Measurement Facilities Updates, Atmospheric Observations and Platforms, and Atmospheric Science Field Campaigns in the Alaskan Arctic](#)

Moscone West - 2006, L2

18:15 - 19:15 – Primary Convener - Brian A Vasel
NOAA Boulder

[TH45I The Art and Science Community at AGU](#)

Moscone West - 2016, L2

18:15 - 19:15 – Primary Convener - Jill S Shipman
University of Alaska Fairbanks

[TH45K Voices from the Front Lines of a Changing Bering Sea](#)

Moscone West - 2004, L2

18:15 - 19:15 – Primary Convener - Raychelle Daniel
Pew Charitable Trusts

Individual Talks:

[B41D-06 Sources and fates of organic matter delivery to Arctic lagoons: seasonality, trophic dependence and ecological resiliency](#)

Moscone West - 3005, L3

09:15 - 09:30 – Primary Author - Kenneth H Dunton
University of Texas at Austin

[GC41B-05 Linkages and Remote Connections of Cryospheric Extent Change between the Third Pole and the Arctic](#)

Moscone West - 2003, L2

9:15 - 09:30 – Primary Author - Tingjun Zhang

Lanzhou University

Poster Session:

[C41C Controls on Tidewater Glacier Terminus Dynamics in Observations and Models II Posters](#)

Moscone South - Poster Hall

08:00 - 12:20 – Primary Convener - Denis Felikson

NASA Goddard Space Flight Center

[C41D Cryospheric Hazards Posters](#)

Moscone South - Poster Hall

08:00 - 12:20 – Primary Convener - Mylene Fabienne Jacquemart

University of Colorado, Boulder

[C41E Processes on, Within, and Around Debris-Covered Glaciers Posters](#)

Moscone South - Poster Hall

08:00 - 12:20 – Primary Convener - Pascal Buri

University of Alaska Fairbanks

[PA41F Native Science to Action: How Indigenous Perspectives Inform, Diversify, and Build Capacity in Environmental Science and Policy II Posters](#)

Moscone South - Poster Hall

08:00 - 12:20 – Primary Convener - Ryan E Emanuel

North Carolina State University Raleigh

[PP41B A Warming Arctic: What Records of the Past Tell Us About the Future III Posters](#)

Moscone South - Poster Hall

08:00 - 12:20 – Primary Convener - Jamie Marie McFarlin

Northwestern University

[C43D Cryosphere Changes: Integrative Research and Synthesis II Posters](#)

Moscone South - Poster Hall

13:40 - 18:00 – Primary Convener – Fiammetta Straneo

Scripps Institution of Oceanography

[C43E Properties and Processes of Sea Ice: Understanding Interannual Variability and Dynamic Change II Posters](#)

Moscone South - Poster Hall

13:40 - 18:00 – Primary Convener - Chris Polashenski

U.S. Army Cold Regions Research and Engineering Laboratory

Friday, 13 December 2019

Talk Sessions:

[A51A Arctic and Midlatitude Linkage: Causes and Effects I](#)

Moscone West - 3004, L3

08:00 - 10:00 – Primary Convener - Yutian Wu

Lamont-Doherty Earth Observatory of Columbia University

[C51A Sub-Ice-Sheet and Sub-Ice-Shelf Environments: Bridging the Gap Between Modern Observations and Geologic Records I](#)

Moscone West - 2008, L2

08:00 - 10:00 – Primary Convener - Ryan Venturelli

University of South Florida

[A52A Atmosphere and Cryosphere Coupling in the Arctic: Observations, Modeling, and Implications for Future Arctic Changes I](#)

Moscone West - 3000, L3

10:20 - 12:20 – Primary Convener - Xianglei Huang

University of Michigan Ann Arbor

[C52A Cryosphere Changes: Integrative Research and Synthesis I](#)

Moscone West - 2008, L2

10:20 - 12:20 – Primary Convener - Fiammetta Straneo

Scripps Institution of Oceanography

[C52B Understanding Ice Shelf Processes I](#)

Moscone West - 2006, L2

10:20 - 12:20 – Primary Convener - Martin Wearing

Lamont-Doherty Earth Observatory

[TH53K Advancing and Sharing Arctic Research: Study of Environmental Arctic Change \(SEARCH\) Town Hall](#)

Moscone West - 2003, L2

12:30 - 13:30 – Primary Convener - Brendan Patrick Kelly

University of Alaska Fairbanks

[A53A Aerosols, Clouds, and Chemistry in Polar and Pristine Regions I](#)

Moscone West - 3006, L3

13:40 - 15:40 – Primary Convener - Paul Zieger

Stockholm University

[C53A Modeling of the Cryosphere: Glaciers and Ice Sheets I](#)

Moscone West - 2008, L2

13:40 - 15:40 – Primary Convener - Ian Hewitt

University of Oxford

[ED53A Climate Literacy: Bringing Climate Change Science Curricula, Pedagogy, and Research to K-12 Educators, Preservice Teachers, and Students I](#)

Moscone South - 215, L2

13:40 - 15:40 – Primary Convener - Bradley E Hoge

National Center for Science Education

[ED53B Curating the Creative: Science, Art, and Public Engagement I](#)

Moscone South - 216, L2

13:40 - 15:40 – Primary Convener - Katie Pratt

University of Rhode Island

[SA53A Dynamic Processes in the High-Latitude Ionosphere: Magnetosphere Coupling, Upflow, and Outflow I](#)

Moscone South - 203-204, L2

13:40 - 15:40 – Primary Convener - Katherine Garcia-Sage
NASA Goddard Space Flight Center

[A54A Aerosols, Clouds, and Chemistry in Polar and Pristine Regions II](#)

Moscone West - 3006, L3

16:00 - 18:00 – Primary Convener - Paul Zieger
Stockholm University

[C54A Modeling of the Cryosphere: Glaciers and Ice Sheets II](#)

Moscone West - 2008, L2

16:00 - 18:00 – Primary Convener - Ian Hewitt
University of Oxford

[C54B Remote Sensing of the Cryosphere: Freshwater and Sea Ice I](#)

Moscone West - 2006, L2

16:00 - 18:00 – Primary Convener - Walter Meier
National Snow and Ice Data Center

[ED54A Integrating the Humanities and Arts with Sciences: Building Capacity, Effective Engagement, and Learning Experiences I](#)

Moscone South - 216, L2

16:00 - 18:00 – Primary Convener - Peter W Webley
University of Alaska Fairbanks

[ED54B Climate Literacy: Preparing the Future Climate Workforce Through Higher Education: Engaging Students at Minority-Serving Institutions in STEM-Successful Approaches I](#)

Moscone South - 215, L2

16:00 - 18:00 – Primary Convener - Bonnie Murray
NASA Langley Research Center

[PA54A Growing Pains: Overcoming Obstacles and Working Together to Improve Research Collaboration in Science I](#)

Moscone South - 301-302, L3

16:00 - 18:00 – Primary Convener - Brit Myers
ARCUS

Individual Talks:

[H51A-04 Isotope ecohydrological studies in an Arctic Finland watershed](#)

Moscone West - 3020, L3

08:45 - 09:00 – Primary Author - Hannu Marttila
University of Oulu

[52G-05 Observatory- and model-based efforts to understand the influence of cloud-nucleating particles on clouds in Arctic Alaska](#)

Moscone West - 3012, L3

11:20 - 11:35 – Primary Author - Gijs de Boer
University of Colorado at Boulder

[H53G-04 Assessment of Satellite and Reanalysis Precipitation Products over Arctic Sea Ice Yang Song](#)

Moscone West - 3020, L3

14:25 - 14:40 – Primary Author - Yang Song
University of Arizona

Poster Sessions:

A51H Aerosols, Clouds, and Chemistry in Polar and Pristine Regions III Posters

Moscone South - Poster Hall

08:00 - 12:20 – Primary Convener - Paul Zieger

Stockholm University

C51C Modeling of the Cryosphere: Glaciers and Ice Sheets III Posters

Moscone South - Poster Hall

08:00 - 12:20 – Primary Convener - Ian Hewitt

University of Oxford

C51D Remote Sensing of the Cryosphere: Freshwater and Sea Ice II Posters

Moscone South - Poster Hall

08:00 - 12:20 – Primary Convener - Walter Meier

National Snow and Ice Data Center

ED51A Climate Literacy: Bringing Climate Change Science Curricula, Pedagogy, and Research to K-12 Educators, Preservice Teachers, and Students II Posters

Moscone South - Poster Hall

08:00 - 12:20 – Primary Convener - Bradley E Hoge

National Center for Science Education

ED51B Integrating the Humanities and Arts with Sciences: Building Capacity, Effective Engagement, and Learning Experiences II Posters

Moscone South - Poster Hall

08:00 - 12:20 – Primary Convener - Peter W Webley

University of Alaska Fairbanks

ED51C Climate Literacy: Preparing the Future Climate Workforce Through Higher Education and Engaging Students at Minority-Serving Institutions in STEM-Successful Approaches II Posters

Moscone South - Poster Hall

08:00 - 12:20 – Primary Convener - Bonnie Murray

NASA Langley Research Center

ED51D Curating the Creative: Science, Art, and Public Engagement II Posters

Moscone South - Poster Hall

08:00 - 12:20 – Primary Convener - Katie Pratt

University of Rhode Island

PA51D Growing Pains: Overcoming Obstacles and Working Together to Improve Research Collaboration in Science II Posters

Moscone South - Poster Hall

08:00 - 12:20 – Primary Convener - Brit Myers

ARCUS

A53J Arctic and Midlatitude Linkage: Causes and Effects II Posters

Moscone South - Poster Hall

13:40 - 18:00 – Primary Convener - Yutian Wu

Lamont-Doherty Earth Observatory of Columbia University

A53K Atmosphere and Cryosphere Coupling in the Arctic: Observations, Modeling, and Implications for Future Arctic Changes II Posters

Moscone South - Poster Hall

13:40 - 18:00 – Primary Convener - Xianglei Huang

University of Michigan Ann Arbor

C53B Sub-Ice-Sheet and Sub-Ice-Shelf Environments: Bridging the Gap Between Modern Observations and Geologic Records II Posters

Moscone South - Poster Hall

13:40 - 18:00 – Primary Convener - Ryan Venturelli

University of South Florida

C53C Understanding Ice Shelf Processes II Posters

Moscone South - Poster Hall

13:40 - 18:00 – Primary Convener - Martin Wearing

Lamont-Doherty Earth Observatory

ED53D Creating Opportunities for Experiential Learning in Introductory Geoscience Classes I Posters

Moscone South - Poster Hall

3:40 - 18:00 – Primary Convener - Geoffrey W Cook

University of California San Diego