

Curriculum Vitae

Andrei V Kurbatov

Climate Change Institute and
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University of Maine



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June 3, 2024

Research Interests

- Impacts of volcanism on Earth's climate system, natural hazards, informatics.

Professional Preparation

- **State University of New York**, Buffalo, New York USA. November, 2000
 - *Ph.D.*: Geology.
 - *Dissertation*: Geodynamics of Kamchatka Peninsula, Russia.
 - *Concentration*: Paleoseismology & tephrochronology.
 - *Advisor*: Marcus I. Bursik.
- **State University of New York**, Buffalo, New York USA. February, 1997

- *M.A.:* Geology.
 - *Thesis:* Investigation of the May 18, 1980, Blast Surge Deposit at Mount St.Helens Volcano, USA.
 - *Concentration:* Tephrostratigraphy, volcanology, and physical modeling of the blast surge deposits.
 - *Advisor:* Marcus I. Bursik.
- **Moscow State University**, Moscow, Russia. June, 1989
 - *Diploma:* Geology.
 - *Concentration:* Stratigraphic correlation of Jurassic coral-reef formations of southern Uzbekistan Mesozoic limestones based on paleontological and microfacies analyses.
 - *Advisors:* Nikolai V. Beznosov & Irina A. Mikhailova.

Appointments

- **Climate Change Institute**, University of Maine, Orono, Maine, USA
 - *Associate Professor* September 1, 2018 — present
 - *Associate Research Professor* July 1, 2013 — August 31, 2018
 - *Assistant Research Professor* October 1, 2006 — June 30, 2013
 - *Research Associate* January 15, 2001 — September 30, 2006
- **School of Earth and Climate Sciences**, University of Maine, Orono, Maine, USA
 - *Associate Professor* September 1, 2018 — present
 - *Associate Research Professor* July 1, 2013 — August 31, 2018
 - *Assistant Research Professor* January 1, 2012 — June 30, 2013
- **Department of Geology**, State University of New York, Buffalo, New York USA
 - *Research Assistant* January 1994 — December 2000
- **Texaco E & P Inc.**, NAP-West region, Denver, Colorado USA.
 - *Summer intern* May — August, 1998
- **Institute of Volcanic Geology & Geochemistry**, Kamchatka, Russia

- *Research Scientist* 1991 — 1993
- **Laboratory of Seismology (OMSP)**, Kamchatka, Russia
 - *Scientific Associate* 1992 — 1993
- **Institute of Volcanology**, Kamchatka, Russia
 - *Research Associate* 1989 —1991
- **Geological Survey of Uzbekistan**, Tashkent, Uzbekistan
 - *Field Assistant* July –August, 1988
 - *Field Assistant* May –September, 1987

Field Experience

- **Kangerlussuaq**, Greenland June, 2017
 - Ice coring
- **Tupungatito volcano**, Chile January — February, 2012
 - Ice coring
- Expedition Leader: **Allan Hills**, Antarctica November, 2010 — January, 2011
 - Ice coring and mapping
- **Tupungatito volcano**, Chile February-March, 2010
 - Ice coring
- Expedition Leader: **Allan Hills**, Antarctica November — December, 2009
 - Ice coring and mapping
- **Kangerlussuaq**, Greenland August, 2009
 - Sampling YD boundary
- Expedition Leader: **Kangerlussuaq**, Greenland September, 2008
 - Sampling glacial / interglacial transition
- **Kangerlussuaq**, Greenland July, 2008

- Sampling YD boundary
- **Detroit Plateau**, Antarctic Peninsula November -December, 2007
 - Recovery of 133 meters ice core as part of IPY project with Chile and Brazil
- **Detroit Plateau**, Antarctic Peninsula February, 2007
 - Ice core site selection and snow sampling
- **East Antarctica**, Antarctica November, 2006- January 2007
 - Ice coring for the US-ITASE
- **Mt. Etna**, Italy September, 2006
 - Ice core drilling in the lava cave
- **Cordillera Darwin**, Chile February, 2006
 - Ice core drilling
- **Cordillera Darwin**, Chile March, 2005
 - Ice core site selection
- **Tasman Glacier**, Mt. Cook, New Zealand October, 2004
 - Ice core drilling project
- **Mt. Moulton and Allan Hills**, Antarctica, January, 2004
 - Blue ice area project
- **Tasman Glacier**, Mt. Cook, New Zealand November, 2003
 - Ice core site selection
- **Santorini volcano**, Santorini Is., Greece June, 2002
 - Field excursion
- Expedition Leader: **Vestnik Bay, Vahil**, Kamchatka, Russia August, 1999
 - Tephrochronological dating of shoreline landforms
- **Northern Hispaniola**, Dominican Republic January 21 - 22, 1999
 - Field excursion

- **Karymsky, Avachinsky volcano**, Kamchatka, Russia July - August, 1997
 - Tephrochronological work
- **San Fransisco Volcanic Field**, Arizona USA July - August, 1996
 - Erosion monitoring network
- **Mount St. Helens volcano**, Washington USA May - June, 1995
 - Blast surge deposit mapping
- **Avachinsky volcano**, Kamchatka, Russia September, 1994
 - Tephrochronological work
- **Mount St. Helens volcano**, Washington USA May, 1994
 - Field reconnaissance
- **Karaginskiy and Bering Islands**, Russia July - September, 1993
 - Tephrochronological dating of shoreline landforms
- **First International Tsunami expedition**, Kamchatka, Russia July, 1993
 - Mapping tsunami deposits in Ust'-Kamchatsk and Khalaktirka Bay areas
- **Paleotsunami and Paleoearthquakes**, Washington, USA June, 1993
 - Field excursion
- **Kreshenii Ognem Cape**, Kamchatka, Russia September, 1992
 - Dating of seismogenic landslide using tephrochronology
- Expedition Leader: **Ksudach, Avachinskiy Volcanoes**, Kamchatka, Russia July - August, 1991
 - Tephrochronological work
- **Shiveluch volcano, Ossora, Ust' Kamchatsk**, Kamchatka, Russia June - September, 1990
 - Tephrochronological work
- **Kluchevskoi and Bezimianny volcanoes**, Kamchatka, Russia January - March, 1990

- Monitoring of volcanic activity
- **Ebeco volcano**, Paramushir Island, Russia September, 1989
 - Monitoring of volcanic activity and reconstruction of eruption history
- **Ksudach, Zheltovsky, Avachinsky volcanoes**, Kamchatka, Russia June - August, 1989
 - Tephrochronological work
- **Dinosaur tracks in Central Asia**, Uzbekistan, Turkmenistan, Tadzhikistan September, 1988
 - Field excursion
- **South West Gissar Mountains**, Uzbekistan June - August, 1988
 - Geological mapping
- **Kandalaksha Bay**, White Sea, Russia September, 1987
 - Biology Field Camp
- **South West Gissar Mountains**, Uzbekistan June - August, 1987
 - Stratigraphy and paleontology
- **Scientific Cruise onboard the 'Feodosija' ship**, Black Sea, Russia May, 1987
 - Marine Geology Field Camp
- **Geological Mapping**, Moscow Region, Russia June, 1986
 - Field Camp
- **Satino training and research station**, Moscow Region, Russia August, 1985
 - Field Camp
- **Russian platform - Crimea**, Russia, Ukraine June, 1985
 - Geology Field Camp

Teaching

- **ERS 602** Python Scientific Programming for Earth Sciences Spring 2024
- **INV-101** Research Learning Experience (RLE) Fall 2023
- **REU**, Research Experience for Undergraduates Summer, 2023
 - Angelina Bucco, COLDEX, Summer 2023 REU.
- **ERS 319** Geohazards & Humans Spring 2019, 2020, 2021, 2023
- **INV-101** Research Learning Experience (RLE) Fall 2022
- **ERS 310** Field Methods in Earth Sciences Summer 2021, 2022
- **ERS 602** Volcanoes & Climate Fall 2017
- **ERS 602**, Advances in Ice Core Research, co-taught with Dr. Paul A. Mayewski Spring 2017
- **ERS 602**, Data Mining in Earth Sciences, co-taught with Dr. Chawathe Fall, 2016
- **ERS 602**, Volcanoes & Climate Spring, 2014
- **ERS 602**, Atmospheric Chemistry Fall, 2011
- **ERS 221**, Geologic Problems I (Independent Study) Fall, 2011
 - Ashley Switter
- **REU**, Research Experience for Undergraduates Summer, 2011
 - Daniel Lesser
- **ERS 602**, Independent study: Selected topics in Geology Fall, 2010
 - Peter Acton
- **Capstone project**, Independent study: Selected topics in Geology Fall, 2010
 - Eileen Carr
- **ERS 602**, Independent study: Selected topics in Geology Fall, 2009
 - Kristin Schild
- **INT 500**, Visiting speaker seminar series Fall, 2009

- Invited lecture
- **ERS 602**, Introduction to numerical data analysis Spring, 2009
- **GLY 407** Geological Field Mapping, (UB Field Camp in Colorado, Arizona, Utah) May—June, 2000
 - Teaching Assistant
- **GLY 606**, Digital Data Analysis Spring, 1999
 - Co-Instructor

Funded Research Projects

- **National Science Foundation (NSF)**
 - **Co-PI, OPP-2215771** **9/01/2022—8/31/2025**
MRI: Acquisition of LA-HR-ICPMS instrumentation for climate, environmental, ecosystem, and engineering research at the University of Maine. \$944,946.
 - **PI, OPP-2149519** **9/01/2022—7/31/2025**
Collaborative Research: Testing Next Generation Measurement Techniques for Reconstruction of Paleoclimate Archives from Thin or Disturbed Ice Cores Sections. \$249,851
 - **PI, Subcontract to PLR-2019719** **10/1/2021—9/30/2026**
The Center for OLDest Ice EXploration (COLDEX) \$465,957
 - **PI, OPP-2032473** **9/15/2020—8/31/2023**
Collaborative Research: Laser Cutting Technology for Borehole Sampling (RELIC). \$49,812
 - **PI, supplement to PLR-1543361** **4/1/2020—8/31/2022**
Supplement to award Collaborative Research: Tephrochronology of a South Pole ice core. \$37,023.
 - **Co-PI, AGS-2002483** **6/1/2020 —5/31/2024, P2C2:**
Evaluating North Pacific hydroclimate during the Holocene using the Denali ice core archive. \$333,031.
 - **Co-PI, PLR-1745007** **9/15/2018—8/31/2024**
Collaborative research: Snapshots of Early and Mid-Pleistocene Climate and Atmospheric Composition from the Allan Hills Blue Ice Area. \$648,147.

- **PI, PLR-1848747** **9/1/2018–8/31/2022**
 NSF Summer 2019 workshop: Computing Arctic Data: Orono, ME - Spring 2019. \$49,999.
- **Co-PI, EAR-1727460** **8/1/2017–7/30/2020**
 Acquisition of LA-ICP-QQQ-MS equipment for in situ trace element and isotopic research and training at the University of Maine. \$298,269.
- **PI, PLR-1543361** **4/1/2016–8/31/2022**
 Collaborative Research: Tephrochronology of a South Pole ice core. \$205,000.
- **Co-PI, PLR-1443306** **9/1/2015–8/31/2018**
 Collaborative Research: Window into the World with 40,000-year Glacial Cycles from Climate Records in Million Year-old Ice from the Allan Hills Blue Ice Area. \$168,367.
- **Co-PI, PLR-1443461** **9/01/2015–8/31/2016**
 Collaborative Research: Allan HILLS Englacial Site (AHILLES) Selection. \$35,594.
- **Co-PI, PLR-1417476** **9/1/2014 – 2/28/2017**
 Collaborative Research: Collaborative Research: Investigating geochemical signatures in Greenland ice of a possible extraterrestrial impact during the Younger Dryas climate event. \$33,585.
- **Co-PI, AGS-1401899** **6/1/2014 – 5/31/2017**
 Collaborative Research: P2C2–Pleistocene/Holocene Climate Reconstruction from a Pamir High Resolution Deep Ice-Core. \$590,830.
- **PI, PLR-1203640** **9/1/2012 – 8/31/2015**
 ACC–Searching for Abrupt Climate Change Precursors Using Ultra High Resolution Ice Core Analysis. \$797,560.
- **PI, PLR-1142007** **8/1/2012 – 7/31/2017**
 AntT–Collaborative Research: Developing an Antarctic Tephra Database for Interdisciplinary Paleoclimate Research. \$365,095.
- **Co-PI, PLR-1042883** **6/15/2011 – 5/31/2015**
 RICE–Roosevelt Island Climate Evolution Project: US Deep Ice Core Glaciochemistry Contribution. \$815,937.
- **Co-PI, EAR-1027960** **10/01/2010 – 9/30/2013**
 CDI-Type I: CiiWork–An interactive workbench for integration, exploration, and analysis of chronological information. \$451,743.
- **PI, PLR-0838843** **7/1/2009 – 6/30/2013**
 2MBIA–Collaborative Research: Exploring A 2 Million+ Year Ice Climate Archive-Allan Hills Blue Ice Area. \$407,668.

- **Co-PI, ANT-0837883** **6/1/2009 — 5/31/2013**
ARRA–Collaborative Research: Antarctic Climate Reconstruction Utilizing the US ITASE ICE Core Array. \$725,700.
- **Co-PI, ATM-0754644** **8/15/2008 — 8/14/2011**
AICA Collaborative Research: Asian Ice Core Array–Reconstruction of Past Physical and Chemical Climate over Asia. \$415,336.
- **Co-PI, ANT-0636740** **7/1/2007 — 6/30/2011**
Collaborative Research: Microparticle/tephra analysis of the WAIS Divide ice core. \$591,434.
- **Co-PI, ANT-0636506** **7/1/2007 — 6/30/2010**
Collaborative Proposal: 2000+ Year Detailed, Calibrated Climate Reconstruction from a South Pole Ice Core Set in an Antarctic - Global Scale Context. \$203,858.
- **Co-PI, ARC-240878** **5/15/2003 — 5/14/2006**
A New Mt. Logan Ice Core Record - Change in Climate and Chemistry of the Atmosphere for the North Pacific. \$423,407.
- **Co-PI, ATM-139491** **10/1/2002 — 9/31/2005**
Paleoclimate from Mount Everest Ice Cores. \$397,005.
- **National Oceanographic & Atmospheric Administration (NOAA)**
 - **Co-PI, Office of Global Programs** **9/01/2005 — 8/31/2006**
Abrupt Climate Change, Part II.
 - **Co-PI, Office of Global Programs** **9/01/2004 — 8/31/2005**
Abrupt Climate Change, Part I.
- **W.M. Keck Foundation**
 - **Co-PI,** **7/1/2008 — 7/30/2011**
Major Advances in the Field of Climate Change Reconstruction Using Ice Cores
- **The Heinz Endowments**
 - **Co-PI,** **10/25/2011 — 10/25/2013**
Breathe Project & 10 Green

Professional Associations

- **American Geophysical Union** 1994 — present

- **Geographical Society of Russia**

1989 — 1993

Computer Skills

- **Languages:** C, C++, Java, T_EX, Matlab, NCL, Python, R.
- **Applications:** Generic Mapping Tools (GMT), ERDAS Imagine, common database, spreadsheet, and presentation software.
- **Operating Systems:** Linux, MacOS, Windows

Languages

- Fluent in Russian and English
- Introductory level of Spanish

Special Training

- The mobile summer institute workshop on evidence based learning. CITL June 4-8, 2018
- NCL workshop, University of Maine, Orono, ME April 23–25, 2014
- Polar bear safety training for Arctic researchers seminar by Andy McMullen with BearWise Inc., organized by Polar Field Services Inc. April 19 , 2014
- NCL workshop, NCAR, Boulder, CO June, 2013
- Global Positioning System (GPS), UNAVCO November, 2009
- Snowmobile safety training, United States Antarctic Program and 2010 November, 2009
- Ground Penetrating Radar (GPR), CRELL September, 2009
- First Aid training Red Cross June, 2009
- "Crevasse Rescue", United States Antarctic Program November, 2006
- "Snow School", United States Antarctic Program January, 2004

- Java Programming, UNIX-SL275, SUN Microsystems June 21 - 26, 1998
- Field Work Safety, Moscow State University August, 1985
- Nuclear, Chemical, Biological and Natural disaster management, Moscow State University 1984 — 1985

Synergistic Activities

- Actively involved in incorporating research results of the Climate Change Institute into development of cyberinfrastructure that will simplify public access to published CCI results and data sets.

p301dx web site: <http://cs.umaine.edu/~chaw/p301/>;

IceReader web site: <http://www.icereader.org>;

10green web site: <http://www.10green.org>.

CCI ice core data: <http://www.icecoredata.org>.

- NSF proposals and panels reviewer 2015–2022.
- Served on the 2015 University of Maine Research Faculty Committee.
- Member of the US Ice core Working Group (ICWG) 2014–2022.
- US Coordinator for Polar to Tropical Connections project.
- *Co-convener:*

Georgia Historical Ice-Core Project (GHICP) Workshop Ilia State University, Tbilisi, Georgia. July 11–13, 2023.

Tephra Data Systems 2023 Workshop Playa at Summer Lake, OR, USA. June 7–10, 2023.

IAVCEI 2023 Throughput-Tephra Workshop From field apps to data repositories: Improving tephra data discoverability, access, and workflows to support next generation research. Rotorua, NZ. January 28–29, 2023.

Ice Core Sampling and Data Standards Workshop NSF-ICF, Denver, CO, USA. June 13–14, 2022.

Earth Cube Tephra Fusion 2022 [online](#) Feb. 10, 18, 25, and March 3, 2022

Earth Cube Tephra workshop Dublin, Ireland, July 27–August 2, 2019

NSF 2019 Computing Arctic Data Workshop . University of Maine, Orono, ME, USA. May 14–16, 2019.

IAVCEI 2017 Workshop [Best Practices in Tephra Collection, Analysis, and Reporting: Leading Toward Better Tephra Databases](#), August 19, 2017.

AGU Session V11D Tephra in Ice Cores: Characterization, Transport, and Sources. December, 2011.

- Organizer of [NCL](#) workshop at the University of Maine (April 23-25, 2014).
- Co-organizer of Harold W. Borns Symposium, University of Maine (2009-2012).

See Harold W. Borns Symposium [web site](#)

- Actively participated in high school and UMaine student tours of ice core facilities of Climate Change Institute.
- Featured in "Megabeasts' Sudden Death". Produced by NOVA, PBS. First time premiered as "Last Extinction" on March 31, 2009.

web site <http://www.pbs.org/wgbh/nova/clovis/>.

Graduate and Postdoctoral Sponsors

Marcus I. Bursik, State University of New York at Buffalo, NY

Gregory A. Zielinski, Climate Change Institute, University of Maine

Graduate Student Advisees

Nicole Spaulding (Ph.D., September 2009—April 2013).

Donna Kalteyer (M.S., August 2013—December 2015).

Sarah Wheatley (M.S., June 2015—December 2018).

Heather Clifford (M.S., June 2016—May 2019), co-advised with Paul A. Mayewski.

Laura Hartman (M.S., September 2016—December 2018), co-advised with Alicia Cruz-Urbe.

Heather Clifford (Ph.D., June 2019— August 2022), co-advised with Paul A. Mayewski.

Meredith Helmick (M.S., June 2020—December 2022).

Lela Gadrani (Ph.D., January 2020—expected 2024), co-advising with Paul A. Mayewski.

Samantha Baumgartner (M.S., September 2023—expected 2025), co-advising with Paul A. Mayewski.

Roisin Rumsey (M.S., January 2024—expected 2026).

Graduate committee member

Elena Korotkikh (M.S. 2007), Sharon Sneed (Ph.D. 2013), Bess Koffman (Ph.D. 2013), Thomas Beers (M.S. 2014), Skylar Haines (M.S., 2015), Elena Korotkikh (Ph.D., 2019), Charles Rodda (Ph.D., 2019), Ji-Hye Seo (Ph.D., Dartmouth College, 2021), Mariusz Potocki (Ph.D., 2022), Mark Royer (Ph.D., expected 2024), Hanna Brooks (Ph.D., expected 2024).

Undergraduate committee member

Nathan Dunn, Honors Thesis, Spring 2015.

Meetings and Workshops

- **3rd US Ice Core Community Meeting (IceCOMM), Portland, ME May 15—17, 2024**
- **Climate Change and Human-Environment Interaction in the Caucasus: Geo-bio- archeological and literary perspectives. ENS-CNRS, Paris, France Dec. 1—2, 2023**
- **Ice Core Working Group (ICWG) Meeting, online Feb. 17, 2022**
- **Historical Ice Core Project, Orono, ME Dec. 6—8, 2021**
- **Ice Core Working Group (ICWG) Meeting, online March 8, 2021**
- **Ice Core Working Group (ICWG) Meeting, online April 2—3, 2020**

- Ice Core Working Group (ICWG) Meeting, Seattle, WA Sep. 18, 2019
- South Pole Ice core project (SPICEcore) meeting, Seattle, WA Sep. 17—18, 2019
- The 2019 EarthCube Annual Meeting, Denver, CO June 12—14, 2019
- Historical Ice Core Project, Harvard, MA November 13—15, 2018
- AntT framework: Volcanic layers in Antarctic ice cores: local and distal sources. Lanzhou, China October 21, 2018.
- South Pole Ice core project (SPICEcore) meeting, Seattle, WA Sep. 11—12, 2018
- “The 2018 RiSE Center Teaching Symposium.” Panel participant: “The Role of Big Data in Undergraduate STEM Education”. University of Maine, Orono, ME June 27, 2018
- “Climate & Colonization: The case of North America”. Radcliffe Institute, Harvard, MA Oct. 19-20, 2017
- South Pole Ice core project (SPICEcore) meeting, Seattle, WA Sep. 19—20, 2017
- IAVCEI 2017, Portland, OR August 14—18, 2017
- Historical Ice Core Project, Harvard, MA June 8—9, 2017
- Harold W. Borns symposium, Orono, Maine USA Apr. 13 —14, 2017
- Historical Ice Core Project, Orono, ME Jan. 4—6, 2017

- **South Pole Ice core project (SPICE core) meeting, La Jolla, CA** **Sep. 18—20, 2016**

- **Historical Ice Core Project, Harvard, MA** **Sep. 14—16, 2016**

- **Harold W. Borns symposium, Orono, ME** **Apr. 14—15, 2016**

- **Historical Ice Core Project, Harvard, MA** **Jan. 19—20, 2016**

- **Ice Core Working Group (ICWG) Meeting, San Fransisco, CA** **Dec. 12—13, 2015**

- **"2,000 Years of European Climate: First Results From The [SoHP](#) Historical Ice Core Project", Harvard, MA** **Nov. 11, 2015**

- **2015 WAIS Divide-SPICE CORE Science Meeting, La Jolla, CA** **Sept. 22—23, 2015**

- **Bicentenary of the great Tambora eruption.** **April 7—10, 2015**
International Conference on Volcanoes, Climate, and Society, University of Bern, Switzerland.

- **Tephra 2014 Workshop, Portland, OR** **Aug. 4 —7, 2014**

- **IDPO Community Workshop on Ice Coring, UC-Irvine, CA** **Feb. 26—27, 2014**

- **South Pole Ice Core Workshop, UC-Irvine, CA** **Feb. 25 —26, 2014**

- **Cyberinfrastructure for Polar sciences, Minneapolis, MN** **Sept. 10 —12, 2013**

- **RICE project workshop, Wellington, New Zealand** **July 22 —24, 2013**

- **Harold W. Borns symposium, Orono, ME** **Apr. 22 —23, 2013**

- **South Pole planning workshop, Boulder, Colorado USA** **Feb. 21 --22, 2013**

- **WAIS cores, La Jolla, CA USA** **Sept. 10 --12, 2012**

- **Harold W. Borns symposium, Orono, ME** **Apr. 5 --6, 2012**

- **Ice Drilling Science Community planning workshop** **Apr. 15 --16, 2011**

- **Harold W. Borns symposium, Orono, ME** **Apr. 7 -- 8, 2011**

- **CASA-PTC meeting, Castine, Maine USA** **Jun. 14 -- 16, 2010**

- **Harold W. Borns symposium, Orono, ME** **May 6 -- 7, 2010**
Is tropical tephra present in the WAIS Divide ice core?

- **Harold W. Borns symposium, Orono, ME** **May 7 -- 8, 2009**
Quest for the Oldest Ice on Earth.

- **AICA meting, San Francisco, CA** **Dec. 13, 2008**
Recovery ice core from Fedchenko glacier, Pamir, Tadzhikistan.

- **ITASE meting, Castine, Maine USA** **Sep. 3 -- 6, 2008**
Update on CASA initiative.

- **Harold W. Borns Symposium, Orono, Maine USA** **May 8 -- 9, 2008**
Update on CASA (Climate of Antarctica and Southern America) initiative.

- **Agassiz Symposium, Orono, Maine USA** **May 10 -- 11, 2007**
Searching for the new Northern Hemisphere climate proxies.

- **Volcanic Flows and Falls, Buffalo, New York USA** **May 11 -- 12, 2006**
Tephra Study in the Siple Dome A Ice Core, Antarctica.

- **WAIS Meeting, Algonkian Meeting Center in Sterling, Virginia USA** **Sep. 28 --
Oct. 1, 2005**
Can sulfate signatures in ice cores verify the source volcano?

- **Agassiz Symposium, Orono, Maine USA** **May 5 -- 6, 2005**
Siple Dome A tephra at 1261 C.E. and possible link with 1259 event.

- **Siple Dome Principal Investigator Meeting, Reno, NV** **Feb. 24, 2004**
Volcanic ash records in the Siple Dome Ice Core.
- **Geological survey of Canada, Quaternary discussion group, Ottawa** **Oct. 15, 2003**
Explosive volcanism recorded in Siple Dome Ice core, Antarctica.
- **ITASE Workshop, Castine, Maine USA** **Jun. 1 – 3, 2003**
- **Agassiz Symposium, Orono, Maine USA** **May 8 – 9, 2003**
Volcanic Signals in the SDMA Ice Core, Antarctica.
- **Antarctic Proposal Workshop for New Investigators** **Aug. 26 – 27, 2002**
NSF, Arlington, Virginia USA.
- **Agassiz Symposium, Orono, Maine USA** **May 20 – 21, 2002**
Explosive Volcanism Recorded in Siple Dome Ice Core, Antarctica.
- **Siple Dome Science Meeting, Arlington, Virginia USA** **Mar. 18 – 19, 2002**
- **AGU Chapman Conference: Volcanism and the Earth's Atmosphere** **June, 2002**
Santorini, Greece.
- **Volcanic record in the Siple Dome Ice Cores. Science Meeting,** **April 19-20, 2001**
Biosphere-2, Arizona USA.

Published peer-reviewed papers

- [1] S. B. Piva, S. J. Barker, N. A. Iverson, V. H. L. Winton, N. A. N. Bertler, M. Sigl, C. J. N. Wilson, N. W. Dunbar, **A. V. Kurbatov**, L. Carter, B. L. A. Charlier, and R. M. Newnham. "Volcanic glass from the 1.8 ka Taupō eruption (New Zealand) detected in Antarctic ice at 230 ± 10 CE". In: *Scientific Reports* 13.16720 (Oct. 2023). DOI: <https://doi.org/10.1038/s41598-023-42602-3>.
- [2] Y. Yan, **A. Kurbatov**, P. A. Mayewski, S. Shackleton, and J. A. Higgins. "Early-Pleistocene East Antarctic temperature in phase with local insolation". In: *Nature Geoscience* 16.1 (Jan. 2023), pp. 50–55. URL: <https://doi.org/10.1038/s41561-022-01095-x>.

- [3] **H. M. Clifford***, M. Potocki, C. Rodda, D. Dixon, S. Birkel, M. Handley, E. Korotkikh, D. Introne, F. Schwanck, F. A. Tavares, R. T. Bernardo, F. G. Lindau, V. Gomez Oscar, H. Jara-Infantes, B. Urviola Victor, L. Perry, J. Maurer, A. Seimon, M. Schwikowski, G. Casassa, S. Hou, **A. V. Kurbatov**, K. R. Miner, J. C. Simões, and P. A. Mayewski. "Prefacing unexplored archives from Central Andean surface-to-bedrock ice cores through a multifaceted investigation of regional firn and ice core glaciochemistry". In: *Journal of Glaciology* (Nov. 2022), pp. 1–15. URL: <https://doi.org/10.1017/jog.2022.91>.
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