

**Paul Andrew Mayewski**  
Biographical Data (Research)

**Academic Degrees**

Doctorate of Philosophy *honoris causa* (2000) University of Stockholm  
PhD (1973) Institute of Polar Studies and the Department of Geology and Mineralogy, Ohio State University  
B.A. (1968) Department of Geological Sciences (Honors Program), State University of New York at Buffalo

**Current Position (University of Maine)**

Director, Climate Change Institute, Distinguished Professor School of Earth and Climate Sciences, Cooperating Professor in School of Marine Sciences, School of Policy and International Affairs, Maine Business School, Center for Oceans and Coastal Law (Maine Law School).

**Academic, Research and Service Administrative Positions (selected)**

Science Advisory Board, Khumbu Research Center, Phortse, Nepal (2020)

National Geographic Society and Rolex Perpetual Planet Mt. Everest Expedition Leader and Science Leader in addition to Senior Advisor serving as a subject matter expert in support of Mt. Everest and high mountain scientific sampling and monitoring projects (2018-2020)

Member, Friends of Acadia Board (2018-)

Member, Advisory Council, Schoodic Institute at Acadia National Park (2017-2019)

Member, Advisory Board JONAA (Journal of the North Atlantic and Arctic) (2017-present)

Co-President, Arctic Futures Institute (2018-present)

Member, Advisory Board, Maine Lakes Society (2016-2018)

Member, Environmental Sustainability Committee, Boston Museum of Science (2014-2017)

Member Maine Delegation to the Arctic Circle Meetings, Reykjavik, Iceland (2014)

Advisory Board, Maine North Atlantic Development Office (2014-present)

Advisory Board, World Ocean Observatory (W2O) (2014-present)

Board Member, Tidal Energy Demonstration and Evaluation Center, Maine Maritime Academy (2009-2011)

Advisory Board, Marine Environmental Research Institute (MERI) Center for Marine Studies (2009-present)

Board of Cooperating Curators, Hudson Museum, University of Maine (2005-present)

Director, Climate Change Institute, University of Maine (2002-present)

Academic Member, Joint Key Laboratory of Cryosphere and Environment (in association with Cold and Arid Regions Environmental and Engineering Research Institute (Lanzhou), Institute of Tibetan Plateau Research (Beijing), Chinese Academy of Sciences/Chinese Academy of Meteorological Sciences (Beijing), China (2005 – present))

Honorary Research Associate Victoria University of Wellington (2000 - present)

Co-Director, Institute for Quaternary and Climate Studies, University of Maine (2000-2002)

Distinguished Professor, School of Earth and Climate Sciences, University of Maine (2000-present)

Founder and Director, AIRMAP (Atmospheric Investigation Regional Mapping and Prediction (1998-2000)

Founder and Chair, Executive Committee, International Trans Antarctic Scientific Expedition – ITASE (1990-present)

Chief Scientist and Field Leader, US ITASE (1997-present)

Chair, International Trans Antarctic Scientific Expedition, Scientific Committee for Antarctic Research and International Geosphere Biosphere Project

Institute for the Study of Earth, Oceans and Space at the University of New Hampshire and  
Department of Earth Sciences  
Professor 1985-2000  
Associate Professor 1980-1985  
Assistant Professor 1975-1980

Founder and Director, Climate Change Research Center (1996-2000)

Founder and Director, Glacier Research Group (1980-1996)

Director, University Research Development (1985-1986) (equivalent to Vice President for Research)

Coordinator, Geochemical Systems Laboratory (1987-1988)

Director, Greenland Ice Sheet Project 2 (GISP 2) Science Management Office (1989-1995)

Chief Scientist and Chairman of the Executive Committee, GISP2 (1989-1998)

Arctic Research Consortium of the United States, Board of Directors (1989-1994)

Visiting Senior Scientist, Laboratoire de Glaciologie et Geophysique de l'Environnement St. Martin-d'Herès, France (1989-1990)

Postdoctoral Fellow (1973-75) Institute for Quaternary Studies and Department of

**Research Experience**

**Field Party Leader and Principal Investigator:**

South Georgia and South Sandwich Islands (2019/2020)

Southwest Greenland (2019)

Iceland (2019)

National Geographic and Rolex Perpetual Planet Mt. Everest Expedition (Expedition Leader and Lead Scientist 2019)

Quelccaya Glacier, Peruvian Andes (2018)

South Georgia, South Atlantic (2012, 2015)

Central Andes (2010, 2011, 2012, 2013)

Western Greenland (2008, 2009, 2010)

Greenland and Baffin Island (2012)

US ITASE East Antarctica (2007-8)

US ITASE East Antarctica (2006-7)

Cordillera Darwin, Chile (2005, 2006)

Tasman Glacier, New Zealand (2003, 2004)

Antarctic Peninsula (2000, 2005, 2007)

US ITASE, West Antarctica to South Pole (2002-3)

US ITASE, West Antarctica (2001-2)

US ITASE, West Antarctica (2000-1)

Mt. Everest, Tibet (2000)

US ITASE West Antarctica (1999-0)

Mt. Everest, Tibet (1997)

Marie Byrd Land, West Antarctica (1995)

Siple Dome, West Antarctica (1994)

Dhauligiri Region, Nepal (1993)

Central Greenland (1993)  
Nepalese Himalayas (1992)  
Central Greenland (1992)  
Central Greenland (1991)  
Central Greenland (1990)  
Summit, Greenland (1989)  
Tian Shan and Bogda Shan, Northwest China (1989)  
Southern Victoria Land and South Pole (1988)  
North and South Greenland (1988)  
Southern Victoria Land, Antarctica (1987)  
Central Greenland (1987)  
Hofsjokul, Iceland (1985)  
Beardmore Glacier, Antarctica (1984-85)  
Southeast Greenland (1984)  
Rennick Glacier, Antarctica (1981-82)  
Garwhal Himalayas, India (1981, 1982)  
Northern Victoria Land, Antarctica (1980-81)  
Nun Kun Massif, Ladakh, India (1980)  
Southern Victoria Land, Antarctica (1979-80)  
Kashmir-Jammu, Indian Himalayas (1979)  
Columbia Icefields, Alberta (1978)  
Mt. Washington, New Hampshire (1978)  
South Georgia and the Antarctic Peninsula (1976)  
Northern Victoria Land, Antarctica (1974-75)  
Southern Victoria Land, Antarctica (1971-72)

**Consultant:** Glaciologist for Hydroelectric Power Development  
Program Kashmir-Jammu, India (1980)

**Lecturer:**

*M.S. Lindblad Explorer* - South Africa - Antarctica - South America (1976-77)

*M.S. Orion* – South America - Antarctic Peninsula (2004)

*Explorer II* – Antarctic Peninsula (2007)

*Orion* – Antarctic Peninsula (2009)

*Corinthian II* – Antarctic Peninsula (2009, 2014)

*Corinthian II* – St. Lawrence Seaway, Labrador, Baffin Island, Greenland

**Field Associate:**

Queen Maud Mountains, Antarctica (1970-71)

Wyoming (1967)

**Field Assistant:**

Wright Valley, Antarctica (1968-69)

Kingfield, Maine (1968)

**Field Student:** Yellowstone Bighorn Research Association, Princeton University  
(1967)

**Professional Societies and Honors and Recognitions**

2019 Invited keynote to celebrate the 60<sup>th</sup> Anniversary of the Signing of the Antarctic Treaty, Tufts University

2019 Invited to represent the Wilson Center and the Committee of the Parties (cancelled due to unrest in Santiago, Chile)

2019 Invited to be Field leader and Science Leader for the National Geographic and Rolex Perpetual Planet Extreme Mt Everest Expedition

2016 Top 100 (#58) all time most cited and “most influential” climate change papers as determined by Carbon Brief – clear on Climate

2016 European Geophysical Union Hans Oeschger Medal for Climate (Past, Present and Future)

2015 Ocean Exemplar (Special Citizen of the Ocean) designated by the World Ocean Observatory

2015 Maine Magazine “Top 50 Mainers Making A Real Difference”

Paul Andrew Mayewski Major Feature in Emmy Award Winner - Showtime’s “Years of Living Dangerously” now available on Netflix

Paul Andrew Mayewski Major Feature in Baikal International Film Festival Winner - Victoria and Oxford University Film "Thin Ice"

Abrupt Climate Change, Business and Policy course taught by J. Mahon, P. Mayewski and M. Hastings part of 2014 Aspen Faculty Pioneer Award given to J. Mahon (Business School, University of Maine)

Listed in "Top 150 Most Cited Authors on Climate Science" by the University of Toronto

Only member of the University of Maine and the State of Maine listed on the Thomson Reuters Highly Cited researcher list to date (last checked 2018)

DeWitt Clinton High School (NYC est. 1897) Notable Alumni (includes: James Baldwin, Richard Rogers, Burt Lancaster, Ralph Lauren)

Honorary Member, University of Maine Class of 1944

Honorary Member, American Polar Society (2013, 75<sup>th</sup> Anniversary Celebration)

Lambert Fellow, Deerfield Academy, Massachusetts (2012)

University of Maine Distinguished Professor (2010)

Chief Foreign Signer, The Magellan Declaration, Lago Grey, Parque Torres del Paine 31 October 2009)

The International Glaciology Society's Seligman Crystal (2009)

Certificate of Appreciation for contributions to the International Polar Year (IPY 2007-2008)

University of Maine, College of Natural Sciences, Forestry and Agriculture Outstanding Research Award (2009)

Maine Environmental Hero Award (2008)

Key to the City of Saco, Maine (2008)

AAAS Fellow, American Association for the Advancement of Science (2008)

Distinguished Alumni Award, State University of New York at Buffalo (2008)

Lowell Thomas Medal (Explorers Club, 2007)

S.T. Lee Lecturer, Victoria University of Wellington, New Zealand (2007)

Honoree Explorers Club (2007)

First SCAR Medal for Excellence in Antarctic Research (2006, SCAR (Scientific Committee on Antarctic Research) is the sole international representative for Antarctic science. (from a field of 45 countries, all disciplines)

Antarctica and the Global Climate System SCAR co-PI (2004-)

International Polar Year Traverse Committee (2004-06)

Member Scientific Steering Committee, International Symposium on Climate Change, Beijing, China

Member Office of Polar Programs, National Science Foundation Advisory Committee (2002-2005)

Doctorate of Philosophy (honoris causa) University of Stockholm (2000)

Honorary Research Associate Victoria University of Wellington (2000 - present)

American Geophysical Union (Fellow, 1998)

Chinese Academy of Sciences - Invited Guest and Special Single Audience in the Forbidden City (April 1996)

The 1995 Citation of Merit from the Explorers Club

American Meteorological Society (Member, 1995)

University of New Hampshire Award for Excellence in Research (1991)

Explorers Club (Fellow, 1978)

Ministere de la Recherche et de la Technologie Senior Fellowship 1989-90 (French Government)

International Glaciological Society (member since 1968, Vice President, Northeast North American Branch 1981-1983)

United States Antarctic Service Medal (1968)

Mayewski Peak, Antarctica (USGS Map Series)

Sigma Xi

Phi Kappa Phi

American Geophysical Union (member since 1978, Member of Snow and Ice Committee)

### **National and International Research Committees and Groups (Selected)**

2008 - 2020 Member AntClim21 (Antarctic Climate in the 21<sup>st</sup> century) part of SCAR (Scientific Committee for Antarctic Research)

2016 Member Office of Polar Programs, US National Science Foundation Advisory Committee for Proposal Review Procedures

West Ice Sheet Stability Project (WISP) Panel of the National Science Foundation

Ice Sheet Reconstruction Group of CLIMAP (Climate/Long Range Investigation, Mapping and Prediction)

Mount Washington Observatory Research Committee

Northern Victoria Land, Antarctica Planning Committee

U.S.-French Symposium on Paleoclimatic Reconstruction of the Northern Atlantic and Indian Oceans and Adjacent Continents over the Past 500,000 years

Subcommission on Quaternary Stratigraphy for Asia and the Pacific Area (INQUA)

Task Leader, Indo-US.S. Science and Technology Cooperation Panel (White House initiated panel)

International Glaciological Society Northeast North American Meeting (Convenor, 1982)

University of New Hampshire Marine Program Faculty (1982-87)

Ocean Process Analysis Laboratory (1984-86)

National Research Council Workshop on Polar Ice Coring

EPA-NADAP Historical Delineation Study

Ice Core Working Group (NAS Initiated and NSF Sponsored, Chairman 1986-1988)

International Ice Core Forum (SCAR initiated, Chairman)

Alaskan Glaciology Review Committee (USGS)

Global Change Institute: Trace Gases and the Biosphere (Senior Invited Speaker and Participant, 1988)

Snow, Ice and Permafrost Intersectional Committee, American Geophysical Union (1987)

Polar Ice Coring Office Drill Review Team for National Science Foundation

U.S. Ice Core Research Workshop (Convenor, 1988)

GISP2 Workshop (Convenor, 1989 - present, yearly)

US/USSR Workshop on Cooperation in Glaciologic Research (1989)

US representative to the European Committee on Ocean and Polar Sciences Workshop on "Antarctic Paleoclimate: Ice Core Records" sponsored by the European Science Foundation (1990)

International Trans-Antarctic Scientific Expedition (ITASE) Steering Committee



(Chairman, 1990-)

Invited Speaker - 1990 Arctic Systems Science (ARCS) Agency Briefing

Member Steering Committee - International Symposium on Snow and Ice Hydrology, Kathmandu, Nepal (1992)

Member Steering Committee - NATO Workshop- Ice Core Studies of Biogeochemical Cycles, Annecy, France (1993)

Invited Lecturer - American Association for the Advancement of Science - Boston (1993)

Co-Chair - Special American Geophysical Union Session on Summit Greenland Ice Cores (1993)

Invited Member - European Climate Study Center (Bremen, Germany 1994)

Invited Member - North Atlantic Biocultural Organization Meeting (Glasgow, Scotland, 1994)

Member - National Science Foundation Earth System History Committee (1994 - 1997)

Co-Convenor PAGES Workshop in Kathmandu, Nepal: The Himalayan / Tibetan Plateau Paleoclimate Workshop

Member - National Research Council Committee on Global Change Research (USGCRP) (1995-1999)

Member - Sub-Commission for Stratigraphy of the Asian-Pacific Region, International Quaternary Association (INQUA) (1995-1999)

Member Elected Council of the International Glaciological Society (1996-1999)

Chair, Committee on Climate and Paleoclimate, Atmospheric Sciences Section, American Geophysical Union (1996-1998)

Chair, Scientific Committee on Antarctic Research (SCAR) International Trans Antarctic Expedition (ITASE) Programme (1996-present)

Member, SCAR Group of Specialists on Global Change and the Antarctic (GLOCHANT) (1996-99)

Member - National Research Council, Polar Research Board, Committee on Arctic Natural Sciences (1997-98)

Member - National Research Council, Commission on Behavioral and Social Sciences and Education, Committee on Human Dimensions of Global Change (1997-00)

Expert Members Board for Chair in Glaciology, Stockholm University, 1998

Advisory Board Member - Lanzhou Institute of Glaciology and Geocryology, Chinese Academy of Sciences, 1997-present.

Member – National Science Foundation, Polar Programs Advisory Committee, 2001-2004.

ITASE (International Trans Antarctic Scientific Expedition) - Founder and Organizer – 22 countries (1989 – 2010)

AICA (Asian Ice Core Array) – co-leader – 7 countries (2004 – present)

SCAR (Scientific Committee for Antarctic Research) – ACCE (Antarctic Climate Change and the Environment) Advisory Group) (2002 – present)

SCAR PTC (Polar Tropical Connections) – co-founder (2004 – present)

SCAR AntClim21 (Antarctic Climate in the 21<sup>st</sup> Century) – SCAR Committee (2013 – 2018)

Committee of Visitors, National Science Foundation, Polar Programs – Antarctica (2016)

### **Research Support**

Principle Investigator – Maine Climate Futures Russell Grinnell Family Foundation (2017-2019)

Principal Investigator – National Geographic and Rolex Perpetual Planet Extreme Mt. Everest Expedition (2018-2020)

Principal Investigator – NSF, Ultra-High-Resolution Investigation of High Andean Snow and Ice Chemistry To improve Paleoclimatic Reconstruction and Enhance Climate Prediction

Co-Principal Investigator with Andrei Kurbatov – Allen Hills blue ice radar, NSF

Principal Investigator – Allen Hills blue ice chemistry, NSF

Co-Principal Investigator with Harvard University– Arcadia Foundation, Collaborative project: The last two thousand years of European and environmental history (2016-2022)

Co-Principal Investigator with Pascal Boehleber– National Geographic Society, Mt. Kilimanjaro (2015-2017)

Principal Investigator – NSF, Collaborative research – Investigating Hypothesized Bolide Signatures in Greenland Ice (2015-2016).

Principal Investigator – CCAFS-USAID, Climate Smart Agriculture Project – Mali (2015).

Principal Investigator – NSF, Paleoclimate, Pamir (Tajikistan/Kyrgyzstan) deep ice core (2012-2015).

Co-Principal Investigator with Jasmine Saros and others, NSF, IGERT - Abrupt Climate Change (2012-2017).

Principal Investigator, NSF-OPP, RICE deep drilling in Antarctica (2011-2015).

Co-Principal Investigator with Andrei Kurbatov, NSF-OPP, Cyberinfrastructure (2010-2013).

Principal Investigator, NSF-OPP, Antarctic climate reconstruction Using ITASE (2009-2012).

Co-Principal Investigator with Andrei Kurbatov, NSF-OPP, Exploring a 2 Million+ Year Archive (2009-2012).

Principal Investigator, W.M. Keck Foundation, Major Advances in the Field of Climate Reconstruction Using Ice Cores, (2008-2012)

Principal Investigator, NSF-ATM, Asian Ice Core Array (AICA) Reconstruction of Past Physical and Chemical Climate Over Asia, (2008-2011)

Principal Investigator, NSF-OPP, South Pole Climate Record, (2007-2010)

Principal Investigator, NSF-OPP, Mt. Logan ice core (2006-2009)

Principal Investigator, NSF-OPP, US ITASE Phase 2 (2005-2010)

Principal Investigator, NSF-OPP, US ITASE Phase 2 Science Management (2005-2010)

Co-Principal Investigator with George Denton, NOAA, Abrupt climate change (2004-2006)

Principal Investigator, NSF-OPP, Mt. Everest ice cores (2003-2006)

Co-Principal Investigator with Karl Kreutz and others, NSF MRI, Acquisition of ICP-MS for the Climate Change Institute

Principal Investigator, NSF-OPP, Mt. Logan ice cores (2003-2006)

Principal Investigator, NSF-OPP, US ITASE Science Management Office (2003-2005)

Principal Investigator, NSF-ATM, Global Scale Holocene Natural Climate Variability (1999-2001)

Principal Investigator, NOAA, Atmospheric Investigation Regional Modeling And Prediction, (1999-2001)

Principal Investigator, NSF-OPP, US ITASE Glaciochemistry (1999-2005)

Principal Investigator, NSF-OPP, The Science Management Plan for the Greenland Ice Sheet Project Two (1997-1999)

Principal Investigator, NSF-OPP, Siple Dome Deep Ice Core Chemistry and Regional Survey (1996-2001)

Principal Investigator, NSF-OPP, Scientific Management of the National Ice Core Laboratory (1996-2001)

Principal Investigator, NSF-ATM, Holocene Natural Climate Variability (1998-1999)

Principal Investigator, NSF-ATM, Significance of the GISP2 Record (1997-1998)

Principal Investigator, NSF-OPP, US International Trans Antarctic Scientific Expedition (US ITASE) Science Management Office (1998-2003)

Principal Investigator, NSF-ATM, Holocene Climate Variability (1999-2002)

Principal Investigator, NSF, Major Instrumentation, Acquisition of a Mass Spectrometer, Computer Networking and Ion Chromatography Upgrades for the Climate Change Research Center, University of New Hampshire (1998-2001)

Principal Investigator, Iola Hubbard Climate Change Endowment (1998-2000)

Principal Investigator, NOAA, AIRMAP (Atmospheric Investigation Regional Modeling and Prediction) (1998-2000)

Principal Investigator, NSF-ATM, Ice Core Records from Monsoon Asia (1994-1999)

Co-PI with Greg Zielinski, NSF-OPP, Mt. Moulton Climate Record, Antarctica (1999-2001)

Principal Investigator, National Science Foundation, Office of Polar Programs, Siple Dome Ice Core Glaciochemistry - Deep Drilling in West Antarctica (1995-1999).

Principal Investigator, National Science Foundation, Office of Polar Programs, Ross Ice Drainage System (RIDS) Late Holocene Climate Variability (1994-1997)

Principal Investigator, National Science Foundation, Office of Polar Programs, The Science Management Plan for the Greenland Ice Sheet Project Two (1994-1999)

Principal Investigator, National Science Foundation, Office of Polar Programs, Major Anions and Cations, Total Acidity and Ionic Balance Program for GISP 2 (1994-1998)

Principal Investigator, National Science Foundation, Atmospheric Sciences, Ice Core Records from Monsoon Asia (1994-1999).

Principal Investigator, NOAA, Modeling Variability in Climate Using High Resolution Ice Core Records (1995-1998).

Co-Principal Investigator with University of New Hampshire Dave Meeker, National Science Foundation, Division of Mathematics, Analysis of ice core-time series and paleoclimate modeling (1992-1994)

Principal Investigator, National Science Foundation, Atmospheric Chemistry, Central Asian Glaciochemistry Program (1991-1994)

Principal Investigator, National Science Foundation, Division of Polar Programs, "Major Anions and Cations, Total Acidity and Ionic Balance Program for GISP 2 (1989-1993)

Principal Investigator, National Science Foundation, Division of Polar Programs, The Science Management Plan for the Greenland Ice Sheet Project Two (1989-1993)

Principal Investigator, Electric Power Research Institute, Northern Hemisphere Glaciochemical/Greenhouse Gas Time-Series (1988-1990)

Principal Investigator, W.M. Keck Foundation, Purchase of a Geochemical Dating Laboratory for the Glacier Research Group (1987-1989)

Principal Investigator, National Science Foundation, Division of Polar Programs, Detailed Glaciochemical Interpretations in Southern Victoria Land, Antarctic - A Proxy Climate Record and Supplement: Nitrate and Chloride Records in Antarctic Firn - A Proxy for Ozone (1987-1990)

Principal Investigator, National Science Foundation, Division of Polar Programs, A Regional Study of Greenland Snow/Ice Chemistry (1987-1990)

Principal Investigator, National Science Foundation, Division of Polar Programs, The Ice Core Working Group (1987-1989)

Co-Principal Investigator, National Science Foundation Equipment Program, Acquisition of State of the Art Alpha Counting Equipment (1987)

Co-Principal Investigator, Bermuda Biological Station, Geochemistry of Vadoze Zone of Bermuda: Implications for Groundwaters Chemistry and Cave Development (1987)

Principal Investigator, Sea Grant, An Assessment of the Importance of Marine Ice in the Estuarine Environment (1985-1987)

Principal Investigator, North Atlantic Treaty Organization Research Program, Preliminary Glaciochemical Investigation of Hofsjokul, Iceland (1985-1987)

Principal Investigator, National Science Foundation, Division of Polar Programs, Characterization of Climatic Events for the Last 2000 Years Through the Retrieval of Ice Cores from the Transantarctic Mountains, Antarctica (1984-1986)

Principal Investigator, Environmental Protection Agency, Production of a Time-Series Record of Acidic Anions from Dye 3, Greenland (1983-1985)

Principal Investigator, National Science Foundation, Division of Polar Programs, History and Significance of Ice Mass Fluctuations in Victoria Land, Antarctica (1983-1985)

Principal Investigator, National Science Foundation, Division of International Programs Paleoclimatic Reconstruction Along the Monsoon-Arid Transition Zone, Indian Himalayas (1982)

Principal Investigator, National Science Foundation, Division of Polar Programs, History and Significance of Ice Mass Fluctuations in Victoria Land, Antarctica (1981)

Principal Investigator, National Science Foundation, Division of Polar Programs, History and Significance of Ice Mass Fluctuations in Victoria Land, Antarctica (1980)

Principal Investigator, National Science Foundation, Division of International Programs, Himalayan Paleoclimate Program (1980)

Principal Investigator, National Science Foundation, Division of Polar Programs, History and Significance of Ice Mass Fluctuations in Victoria Land, Antarctica (1979)

Principal Investigator, National Science Foundation, Division of Atmospheric Programs, Himalayan Paleoclimate Program (1979)

Principal Investigator, University of New Hampshire Central University Research Fund, Holocene Glacier Variations in the Central Himalayas (1977)

Principal Investigator, University of New Hampshire Central University Research Fund, A Feasibility Study of the Interpretation of Esker Depositional Environments in New Hampshire (1976)

Principal Investigator, National Science Foundation, Division of Polar Programs, Glacial Geologic Investigation of the Upper Rennick Glacier Region, Northern Victoria Land, Antarctica (1975)

Principal Investigator, National Science Foundation, Division of Polar Programs, Glacial Geology Near McMurdo Sound and Comparison with Central Transantarctic Mountains, Antarctica (1971)

### **Major Publications** (\* indicates my student as first author)

- (1) Hodge, D.S., and Mayewski, P.A., 1969, Gravity study of a hypersthene syenite body in the Laramie Anorthosite Complex, Wyoming: Geol. Soc. America Bull. 80, 705-714.
- (2) Mayewski, P.A., 1972, Glacial geology of McMurdo Sound and comparison with the central Transantarctic Mountains: Antarctic Jour. of the U.S. 7(4): 103-106.
- (3) Elliot, D.H., Barrett, P.J., and Mayewski, P.A., 1973, Reconnaissance geologic map of the Plunket Point Quadrangle, Transantarctic Mountains, Antarctica: United States Geol. Survey Antarctic Map No. 5.
- (4) Mayewski, P.A., 1975, Glacial geology and late Cenozoic history of the Transantarctic Mountains, Antarctica, Institute of Polar Studies Report 56, The Ohio State University, 168p.
- (5) Mayewski, P.A., 1975, Glacial geologic investigation of upper Rennick Glacier region, northern Victoria Land: Antarctic Jour. of the U.S. 10(4): 164-166.
- (6) CLIMAP, 1976, The surface of the ice-age Earth, Science 191: 1131-1137.
- (7) Mayewski, P.A., 1976, Past levels and present state of the Northern Victoria Land glaciers, Antarctica: Antarctic Jour. of the U.S. 11(4): 277-279.
- (8) Talkington, R., Mayewski, P.A. and Gaudette, H., 1976, Weathering stages of a tholeiitic basalt (dolerite), Queen Maud Mountains: Antarctic Jour. of the U.S. 11(4): 242-245.
- (9) Mayewski, P.A. and Jeschke, P.A., 1978, Lichenometric distribution of *Rhizocarpon geographicum* on Mt. Washington: A relative dating tool. Mount Washington Observatory Bulletin, December 1978, 19(4): 79-84.

- (10) Mayewski, P.A., Attig, J.W. and Drewry, D.J., 1979, Pattern of ice surface lowering for the Rennick Glacier, Northern Victoria Land, Antarctica, *Journal of Glaciology* 22(86): 53-65.
- (11) Mayewski, P.A. and Attig, J.W., 1978, A recent decline in available moisture in Northern Victoria Land, Antarctica, *Journal of Glaciology* 20(84): 593-594.
- (12) Mayewski, P.A. and Jeschke, P.A., 1979, Himalayan and Trans-Himalayan glacier fluctuations since AD 1812, *Arctic and Alpine Research* 11(3): 267-287.
- (13) Mayewski, P.A., Pregent, G., Armstrong, T., Brown, P., Butler, D., Hassinger, J., Jeschke, P., Palais, J. and Trombley, T., 1979, Results of the 1978 University of New Hampshire Athabasca Glacier Expedition Open file report, Western Region, Parks Canada, 61p.
- (14) \*Coupland, D., and Mayewski, P.A., 1980, An example of eskers formed in stagnant ice, *Northeastern Geology* 2(1): 7-12.
- (15) \*Butler, D., Lyons, W.B., Mayewski, P.A., and Hassinger, J., 1980, Shallow core snow chemistry of Athabasca Glacier, Alberta, *Canadian Journal of Earth Sciences* 17(2): 273-281.
- (16) Mayewski, P.A., Jeschke, P.A., and Pregent, G., 1980, Himalayan and Trans-Himalayan glacier fluctuations and the South Asian monsoon record, *Arctic and Alpine Research* 12(2): 171-182.
- (17) Mayewski, P.A., 1980, Himalayan glacier fluctuations and the South Asian monsoon record, *Joint U.S.-French Symposium on Paleoclimatic Reconstruction of the Northern Atlantic and Indian Oceans and Adjacent Continents over the Past 500,000 years*, Gif-suf-Yvette, France: 10-12.
- (18) Mayewski, P.A. and Hassinger, J., 1980, Characteristics and significance of rock glaciers in Southern Victoria Land, Antarctica, *Antarctic Journal of the U.S.* 15(5): 68-69.
- (19) Ahmad, N. and Mayewski, P.A., 1981, Himalayan glaciation: an unresolved issued, *The Geographer* 28(2): 21-32.
- (20) Mayewski, P.A., Denton, G.H. and Hughes, T., 1981, Late Wisconsin ice margins of North America in *The Last Great Ice Sheets*, ed. G. Denton and T. Hughes, 67-178.
- (21) Mayewski, P.A., Jeschke, P.A. and Ahmad, N., 1981, An active rock glacier in Wavbal Pass, Jammu-Kashmir Himalayas, *Journal of Glaciology* 27(95): 201-202.
- (22) Lyons, W.B., Mayewski, P.A. and Ahmad, N., 1981, Acidity of recent Himalayan snow, 38th Annual Eastern Snow Conference, Syracuse, New York, 49-56.
- (23) Mayewski, P.A., Lyons, W.B. and Ahmad, N., 1981, Reconnaissance glacio-chemical studies in the Indian Himalayas, 38th Annual Eastern Snow Conference, Syracuse, New York, 45-48.

- (24) \*Talkington, R., Mayewski, P.A. and Gaudette, H., 1982. Geochemical and glacio-geomorphic implications of basalt weathering in the Queen Maud Mountains, Antarctica, *Geological Magazine* 119(6): 553-566.
- (25) Mayewski, P.A. and Hassinger, J., 1982, History and significance of ice mass fluctuations in Victoria Land, Antarctica, *Antarctic Journal of the U.S.*
- (26) Mayewski, P.A. and Lyons, W.B., 1982, Source and climatic implications of the reactive iron and reactive silicate concentrations found in a core from Meserve Glacier, Antarctica *Geophysical Research Letters* 9(3): 190-192.
- (27) \*Hassinger, J. and Mayewski, P.A., 1983, Morphology and dynamics of the rock glaciers in Southern Victoria Land, Antarctica, *Arctic and Alpine Research* 15(3): 351-368.
- (28) Mayewski, P.A., Lyons, W.B., and Ahmad, N., 1983, Chemical composition of a high altitude fresh snowfall in the Ladakh Himalayas, *Geophysical Research Letters* 10(1): 105-108.
- (29) Lyons, W.B. and Mayewski, P.A., 1983, Nitrate plus nitrite concentrations in a Himalayan ice core, *Geophysical Research Letters* 10(12): 1160-1163.
- (30) Lyons, W.B. and Mayewski, P.A., 1984, Glaciochemical investigations as a tool in the historical delineation of the acid precipitation problem in *The Acidic Deposition Phenomenon and Its Effects*, V. 1, Atmospheric Science, A.P. Altshuller and R.P. Linthurst ed., 8-71-8-81.
- (31) Mayewski, P.A., Lyons, W.B., Smith, G., Ahmad, N. and Pourchet, M., 1984, Interpretation of the chemical and physical time-series retrieved from Sentik Glacier, Ladakh Himalaya, India, *Journal of Glaciology* 30(104): 66-76.
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### **Invited Presentations at Scientific Meetings and Media Appearances**

#### **Featured Events (selected):**

**Keynote speaker at well over 400 academic, state, public and private events (examples)** in North and South America, South Pacific, Europe, Asia, Arctic, Antarctica such as: The Forbidden City (Beijing, China), Young Presidents Organization, Explorers Club, Telluride Film

Festival, Boston Museum of Science, Swedish Royal Academy of Sciences, Polish Academy of Sciences, Chinese Academy of Sciences, American Museum of Natural History, ST Lee New Zealand, American Defense University Africa Center.

**More than 350 prominent media appearances** including: American Museum of Natural History, Boston Museum of Science, Boston Globe, LA Times, NY Times, Christian Science Monitor, Harpers, Discover, Popular Science, Archeology Magazine, Good Morning America, WNET Thirteen (Secrets of the Dead – The Lost Vikings), NOVA (eg. Mammoths of the Ice Age, 1995; The Last Extinction 2008), BBC (eg. The Maya Collapse, 2002), NPR Fresh Air (1993, 2002), Diane Rhem Show (2006), Fox News Climate Special (2005), CBS 60 Minutes (“Arctic Warning”, 2006; “The Age of Warming”, 2007), Stonehaven Productions, Montreal (“After the Warming”, 2005, “The Last Glaciers”), Voice of America Radio (African climate 2012), Victoria and Oxford University film (“Thin Ice” (Winner Baikal International Film Festival and others), Showtime (Years of Living Dangerously, (Winner 2014 Emmy)).

**Popular climate change books:** “The Ice Chronicles” (2002, Mayewski and F. White) and “Journey Into Climate – Adventure, Exploration and the Unmasking of Human Innocence” (2011, Mayewski and M.C. Morrison).

### **International Collaboration**

I have been or am currently involved in scientific efforts with colleagues in many U.S. and Canadian institutions, but also with colleagues in: India, Pakistan, Nepal, Japan, China, Philippines, Denmark, Iceland, Greenland, United Kingdom, France, Italy, Switzerland, Germany, Sweden, Poland, Scotland, Russia, New Zealand, Australia, Mexico, Chile, Brazil, Tajikistan, Kyrgyzstan, Bolivia, Peru, Falkland Islands, South Georgia and South Sandwich Islands.