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Open letter to UN Secretary-General: Current scientific knowledge does not substantiate Ban Ki-Moon assertions on weather and climate, say 125-plus scientists



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Policy actions that aim to reduce CO2 emissions are unlikely to influence future climate. Policies need to focus on preparation for, and adaptation to, all dangerous climatic events, however caused

Open Letter to the Secretary-General of the United Nations

H.E. Ban Ki-Moon, Secretary-General, United Nations
First Avenue and East 44th Street, New York, New York, U.S.A.
November 29, 2012

Mr. Secretary-General:

On [November 9 this year you told the General Assembly](#): “Extreme weather due to climate change is the new normal ... Our challenge remains, clear and urgent: to reduce greenhouse gas emissions, to strengthen adaptation to ... even larger climate shocks ... and to reach a legally binding climate agreement by 2015 ... This should be one of the main lessons of Hurricane Sandy.”

On November 13 you said at [Yale](#): “The science is clear; we should waste no more time on that debate.”

The following day, in [Al Gore’s “Dirty Weather” Webcast](#), you spoke of “more severe storms, harsher droughts, greater floods”, concluding: “Two weeks ago, Hurricane Sandy struck the eastern seaboard of the United States. A nation saw the reality of climate change. The recovery will cost tens of billions of dollars. The cost of inaction will be even higher. We must reduce our dependence on carbon emissions.”

We the undersigned, qualified in climate-related matters, wish to state that current scientific knowledge does not substantiate your assertions.

The U.K. Met Office recently released data showing that there has been no statistically significant global warming for almost 16 years. During this period, [according to the U.S. National Oceanic and Atmospheric Administration](#) (NOAA), carbon dioxide (CO₂)

concentrations rose by nearly 9% to now constitute 0.039% of the atmosphere. Global warming that has not occurred cannot have caused the extreme weather of the past few years. Whether, when and how atmospheric warming will resume is unknown. The science is unclear. Some scientists point out that near-term natural cooling, linked to variations in solar output, is also a distinct possibility.



In case you missed it, the nation <http://business.financialpost.com/2011/02/05/seeing-red-over-metered-internet/> target="blank">erupted last week over a controversial CRTC ruling that effectively imposed a usage-based billing (UBB) regime on all Canadian Internet service providers (ISPs) large and small. The federal telecom regulator's decision stifled third-party ISPs' ability to compete with the metered packages of larger providers such as Rogers Communications, Shaw Communications and BCE Inc.'s Bell Canada unit, by limiting their ability to offer "unlimited" download packages free of a monthly limit or "cap." An anti-UBB online petition quickly garnered several hundred thousand signatures and protests were organized and staged across the country. In Tuesday's <http://opinion.financialpost.com/2011/02/07/internet-usage-debate-the-real-myths/> target="blank">one corner stands Rocky Gaudrault, CEO of TekSavvy Solutions Inc., a third-party Internet Service Provider (ISP) based in Ontario. He argues the common defenses used by proponents of usage-based billing (UBB) policies such as light users being forced to subsidize heavy users and the Internet being comparable to common utilities like electricity and gas are in fact total myths and thus easily debunked. In the <http://opinion.financialpost.com/2011/02/07/internet-usage-debate-8b-to-keep-pace/> target="blank">opposing corner stands Mirko Bibic, senior vice-president of regulatory and governmental affairs for Bell Canada. Understandably, his argument is the opposite, pointing out that Canadian Internet usage has more than doubled between 2006 and 2009 and that Bell has invested more than \$8-billion in network upgrades to try and keep pace. Claiming that "fewer than 2%" of Canada's Internet users are actually affected by the UBB issue, Mr. Bibic asks "should they really be driving this debate?" Well, dear reader, should they? We welcome your comments below.
jberkow@nationalpost.com

The “even larger climate shocks” you have mentioned would be worse if the world cooled than if it warmed. Climate changes naturally all the time, sometimes dramatically. The hypothesis that our emissions of CO₂ have caused, or will cause, dangerous warming is not supported by the evidence.

The incidence and severity of extreme weather has not increased. There is little evidence that dangerous weather-related events will occur more often in the future. The U.N.’s own Intergovernmental Panel on Climate Change says in its [Special Report on Extreme Weather \(2012\)](#) that there is “an absence of an attributable climate change signal” in trends in extreme weather losses to date. The funds currently dedicated to trying to stop extreme weather should therefore be diverted to strengthening our infrastructure so as to be able to withstand these inevitable, natural events, and to helping communities rebuild after natural catastrophes such as tropical storm Sandy.

There is no sound reason for the costly, restrictive public policy decisions proposed at the U.N. climate conference in Qatar. Rigorous analysis of unbiased observational data does not support the projections of future global warming predicted by computer models now proven to exaggerate warming and its effects.

The NOAA “[State of the Climate in 2008](#)” report asserted that 15 years or more without any statistically-significant warming would indicate a discrepancy between observation and prediction. Sixteen years without warming have therefore now proven that the models are wrong by their creators’ own criterion.

Based upon these considerations, we ask that you desist from exploiting the misery of the families of those who lost their lives or properties in tropical storm Sandy by making unsupportable claims that human influences caused that storm. They did not. We also ask that you acknowledge that policy actions by the U.N., or by the signatory nations to the UNFCCC, that aim to reduce CO₂ emissions are unlikely to exercise any significant influence on future climate. Climate policies therefore need to focus on preparation for, and adaptation to, all dangerous climatic events however caused.

Signed by:

1. Habibullo I. Abdussamatov, Dr. Sci., mathematician and astrophysicist, Head of the Selenometria project on the Russian segment of the ISS, Head of Space Research of the Sun Sector at the Pulkovo Observatory of the Russian Academy of Sciences, St. Petersburg, Russia
2. [Syun-Ichi Akasofu](#), PhD, Professor of Physics, Emeritus and Founding Director, International Arctic Research Center of the University of Alaska, Fairbanks, Alaska, U.S.A.
3. Bjarne Andresen, Dr. Scient., physicist, published and presents on the impossibility of a “global temperature”, Professor, Niels Bohr Institute (physics (thermodynamics) and chemistry), University of Copenhagen, Copenhagen, Denmark
4. [J. Scott Armstrong](#), PhD, Professor of Marketing, The Wharton School, University of Pennsylvania, Founder of the International Journal of Forecasting, focus on analyzing climate forecasts, Philadelphia, Pennsylvania, U.S.A.
5. [Timothy F. Ball](#), PhD, environmental consultant and former climatology professor, University of Winnipeg, Winnipeg, Manitoba, Canada
6. James R. Barrante, Ph.D. (chemistry, Harvard University), Emeritus Professor of Physical Chemistry, Southern Connecticut State University, focus on studying the greenhouse gas behavior of CO₂, Cheshire, Connecticut, U.S.A.
7. Colin Barton, B.Sc., PhD (Earth Science, Birmingham, U.K.), FInstEng Aus Principal research scientist (ret.), Commonwealth Scientific and Industrial Research Organisation (CSIRO), Melbourne, Victoria, Australia
8. Joe Bastardi, BSc, (Meteorology, Pennsylvania State), meteorologist, State College, Pennsylvania, U.S.A.
9. Franco Battaglia, PhD (Chemical Physics), Professor of Physics and Environmental Chemistry, University of Modena, Italy
10. Richard Becherer, BS (Physics, Boston College), MS (Physics, University of Illinois), PhD (Optics, University of Rochester), former Member of the Technical Staff – MIT Lincoln Laboratory, former Adjunct Professor – University of Connecticut, Areas of Specialization: optical radiation physics, coauthor – standard reference book Optical Radiation Measurements: Radiometry, Millis, MA, U.S.A.
11. [Edwin X. Berry](#), PhD (Atmospheric Physics, Nevada), MA (Physics, Dartmouth), BS (Engineering, Caltech), Certified Consulting Meteorologist, President, [Climate Physics](#) LLC, Bigfork, MT, U.S.A.

12. Ian Bock, BSc, PhD, DSc, Biological sciences (retired), Ringkøbing, Denmark
13. Ahmed Boucenna, PhD, Professor of Physics (strong climate focus), Physics Department, Faculty of Science, Ferhat Abbas University, Setif, Algérie
14. Antonio Brambati, PhD, Emeritus Professor (sedimentology), Department of Geological, Environmental and Marine Sciences (DiSGAM), University of Trieste (specialization: climate change as determined by Antarctic marine sediments), Trieste, Italy
15. [Stephen C. Brown](#), PhD (Environmental Science, State University of New York), District Agriculture Agent, Assistant Professor, University of Alaska Fairbanks, Ground Penetrating Radar Glacier research, Palmer, Alaska, U.S.A.
16. Mark Lawrence Campbell, PhD (chemical physics; gas-phase kinetic research involving greenhouse gases (nitrous oxide, carbon dioxide)), Professor, United States Naval Academy, Annapolis, Maryland, U.S.A.
17. Rudy Candler, PhD (Soil Chemistry, University of Alaska Fairbanks (UAF)), former agricultural laboratory manager, School of Agriculture and Land Resources Management, UAF, co-authored papers regarding humic substances and potential CO₂ production in the Arctic due to decomposition, Union, Oregon, U.S.A.
18. [Alan Carlin](#), B.S. (California Institute of Technology), PhD (economics, Massachusetts Institute of Technology), retired senior analyst and manager, U.S. Environmental Protection Agency, Washington, DC, former Chairman of the Angeles Chapter of the Sierra Club (recipient of the Chapter's Weldon Heald award for conservation work), U.S.A.
19. Dan Carruthers, M.Sc., Arctic Animal Behavioural Ecologist, wildlife biology consultant specializing in animal ecology in Arctic and Subarctic regions, Turner Valley, Alberta, Canada
20. [Robert M. Carter](#), PhD, Professor, Marine Geophysical Laboratory, James Cook University, Townsville, Australia
21. Uberto Crescenti, PhD, Full Professor of Applied Geology, Università G. d'Annunzio, Past President Società Geologica italiana, Chieti, Italy
22. Arthur Chadwick, PhD (Molecular Biology), Research Professor of Geology, Department of Biology and Geology, Southwestern Adventist University, Climate Specialties: dendrochronology (determination of past climate states by tree ring analysis), palynology (same but using pollen as a climate proxy), paleobotany and botany; Keene, Texas, U.S.A.
23. George V. Chilingar, PhD, Professor, Department of Civil and Environmental Engineering of Engineering (CO₂/temp. focused research), University of Southern California, Los Angeles, California, U.S.A.
24. Ian D. Clark, PhD, Professor (isotope hydrogeology and paleoclimatology), Dept. of Earth Sciences, University of Ottawa, Ottawa, Ontario, Canada
25. Cornelia Codreanova, Diploma in Geography, Researcher (Areas of Specialization: formation of glacial lakes) at Liberec University, Czech Republic, Zwenkau, Germany
26. Michael Coffman, PhD (Ecosystems Analysis and Climate Influences, University of Idaho), CEO of Sovereignty International, President of Environmental Perspectives, Inc., Bangor, Maine, U.S.A.
27. Piers Corbyn, ARCS, MSc (Physics, Imperial College London)), FRAS, FRMetS, astrophysicist (Queen Mary College, London), consultant, founder WeatherAction long range weather and climate forecasters, American Thinker Climate Forecaster of The Year 2010, London, United Kingdom
28. Richard S. Courtney, PhD, energy and environmental consultant, IPCC expert reviewer, Falmouth, Cornwall, United Kingdom
29. Roger W. Cohen, B.S., M.S., PhD Physics, MIT and Rutgers University, Fellow, American Physical Society, initiated and managed for more than twenty years the only industrial basic research program in climate, Washington Crossing, Pennsylvania, U.S.A.
30. Susan Crockford, PhD (Zoology/Evolutionary Biology/Archaeozoology), Adjunct Professor (Anthropology/Faculty of Graduate Studies), University of Victoria, Victoria, British Columbia, Canada
31. [Walter Cunningham](#), B.S., M.S. (Physics – Institute of Geophysics And Planetary Sciences, UCLA), AMP – Harvard Graduate School of Business, Colonel (retired) U.S. Marine Corps, Apollo 7 Astronaut., Fellow – AAS, AIAA; Member AGU, Houston, Texas, U.S.A.

32. Joseph D'Aleo, BS, MS (Meteorology, University of Wisconsin), Doctoral Studies (NYU), CMM, AMS Fellow, Executive Director – ICECAP (International Climate and Environmental Change Assessment Project), College Professor Climatology/Meteorology, First Director of Meteorology The Weather Channel, Hudson, New Hampshire, U.S.A.
33. David Deming, PhD (Geophysics), Professor of Arts and Sciences, University of Oklahoma, Norman, Oklahoma, U.S.A.
34. James E. Dent; B.Sc., FCIWEM, C.Met, FRMetS, C.Env., Independent Consultant (hydrology & meteorology), Member of WMO OPACHE Group on Flood Warning, Hadleigh, Suffolk, England, United Kingdom
35. Willem de Lange, MSc (Hons), DPhil (Computer and Earth Sciences), Senior Lecturer in Earth and Ocean Sciences, The University of Waikato, Hamilton, New Zealand
36. Silvia Duhau, Ph.D. (physics), Solar Terrestrial Physics, Buenos Aires University, Buenos Aires, Argentina
37. Geoff Duffy, DEng (Dr of Engineering), PhD (Chemical Engineering), BSc, ASTCDip. (first chemical engineer to be a Fellow of the Royal Society in NZ), FICHEM, wide experience in radiant heat transfer and drying, chemical equilibria, etc. Has reviewed, analysed, and written brief reports and papers on climate change, Auckland, New Zealand
38. Don J. Easterbrook, PhD, Emeritus Professor of Geology, Western Washington University, Bellingham, Washington, U.S.A.
39. Ole Henrik Ellestad, former Research Director, applied chemistry SINTEF, Professor in physical chemistry, University of Oslo, Managing director Norsk Regnesentral and Director for Science and Technology, Norwegian Research Council, widely published in infrared spectroscopy, Oslo, Norway
40. Per Engene, MSc, Biologist, Co-author – The Climate, Science and Politics (2009), Bø i Telemark, Norway
41. Gordon Fulks, B.S., M.S., PhD (Physics, University of Chicago), cosmic radiation, solar wind, electromagnetic and geophysical phenomena, Portland, Oregon, U.S.A.
42. Katya Georgieva, MSc (meteorology), PhD (solar-terrestrial climate physics), Professor, Space Research and Technologies Institute, Bulgarian Academy of Sciences, Sofia, Bulgaria
43. Lee C. Gerhard, PhD, Senior Scientist Emeritus, University of Kansas, past director and state geologist, Kansas Geological Survey, U.S.A.
44. Ivar Giaever PhD, Nobel Laureate in Physics 1973, professor emeritus at the Rensselaer Polytechnic Institute, a professor-at-large at the University of Oslo, Applied BioPhysics, Troy, New York, U.S.A.
45. Albrecht Glatzle, PhD, ScAgr, Agro-Biologist and Gerente ejecutivo, Tropical pasture research and land use management, Director científico de INTAS, Loma Plata, Paraguay
46. Fred Goldberg, PhD, Adj Professor, Royal Institute of Technology (Mech, Eng.), Secretary General KTH International Climate Seminar 2006 and Climate analyst (NIPCC), Lidingö, Sweden
47. [Laurence I. Gould](#), PhD, Professor of Physics, University of Hartford, Past Chair (2004), New England Section of the American Physical Society, West Hartford, Connecticut, U.S.A.
48. [Vincent Gray](#), PhD, New Zealand Climate Coalition, expert reviewer for the IPCC, author of The Greenhouse Delusion: A Critique of Climate Change 2001, Wellington, New Zealand
49. William M. Gray, PhD, Professor Emeritus, Dept. of Atmospheric Science, Colorado State University, Head of the Tropical Meteorology Project, Fort Collins, Colorado, U.S.A.
50. Charles B. Hammons, PhD (Applied Mathematics), climate-related specialties: applied mathematics, modeling & simulation, software & systems engineering, Associate Professor, Graduate School of Management, University of Dallas; Assistant Professor, North Texas State University (Dr. Hammons found many serious flaws during a detailed study of the software, associated control files plus related email traffic of the Climate Research Unit temperature and other records and “adjustments” carried out in support of IPCC conclusions), Coyle, OK, U.S.A.
51. William Happer, PhD, Professor, Department of Physics, Princeton University, Princeton, NJ, U.S.A.

52. **Hermann Harde, PhD**, Professur f. Lasertechnik & Werkstoffkunde (specialized in molecular spectroscopy, development of gas sensors and CO₂-climate sensitivity), Helmut-Schmidt-Universität, Universität der Bundeswehr Fakultät für Elektrotechnik, Hamburg, Germany
53. Howard Hayden, PhD, Emeritus Professor (Physics), University of Connecticut, The Energy Advocate, Pueblo West, Colorado, U.S.A.
54. Ross Hays, Meteorologist, atmospheric scientist, NASA Columbia Scientific Balloon Facility (currently working at McMurdo Station, Antarctica), Palestine, Texas, U.S.A.
55. [Martin Hovland](#), M.Sc. (meteorology, University of Bergen), PhD (Dr Philos, University of Tromsø), FGS, Emeritus Professor, Geophysics, Centre for Geobiology, University of Bergen, member of the expert panel: Environmental Protection and Safety Panel (EPSP) for the Ocean Drilling Program (ODP) and the Integrated ODP, Stavanger, Norway
56. [Ole Humlum](#), PhD, Professor of Physical Geography, Department of Physical Geography, Institute of Geosciences, University of Oslo, Oslo, Norway
57. Craig D. Idso, PhD, Chairman of the Board of Directors of the Center for the Study of Carbon Dioxide and Global Change, Tempe, Arizona, U.S.A.
58. Sherwood B. Idso, PhD, President, Center for the Study of Carbon Dioxide and Global Change, Tempe, Arizona, U.S.A.
59. Larry Irons, BS (Geology), MS (Geology), Sr. Geophysicist at Fairfield Nodal (specialization: paleoclimate), Lakewood, Colorado, U.S.A.
60. Terri Jackson, MSc (plasma physics), MPhil (energy economics), Director, Independent Climate Research Group, Northern Ireland and London (Founder of the energy/climate group at the Institute of Physics, London), United Kingdom
61. Albert F. Jacobs, Geol.Drs., P. Geol., Calgary, Alberta, Canada
62. Hans Jelbring, PhD Climatology, Stockholm University, MSc Electronic engineering, Royal Institute of Technology, BSc Meteorology, Stockholm University, Sweden
63. Bill Kappel, B.S. (Physical Science-Geology), B.S. (Meteorology), Storm Analysis, Climatology, Operation Forecasting, Vice President/Senior Meteorologist, [Applied Weather Associates](#), LLC, University of Colorado, Colorado Springs, U.S.A.
64. Olavi Kärner, Ph.D., Extraordinary Research Associate; Dept. of Atmospheric Physics, Tartu Observatory, Toravere, Estonia
65. Leonid F. Khilyuk, PhD, Science Secretary, Russian Academy of Natural Sciences, Professor of Engineering (CO₂/temp. focused research), University of Southern California, Los Angeles, California, U.S.A.
66. William Kininmonth MSc, MAdmin, former head of Australia's National Climate Centre and a consultant to the World Meteorological organization's Commission for Climatology, Kew, Victoria, Australia
67. [Gerhard Kramm](#), Dr. rer. nat. (Theoretical Meteorology), Research Associate Professor, Geophysical Institute, Associate Faculty, College of Natural Science and Mathematics, University of Alaska Fairbanks, (climate specialties: Atmospheric energetics, physics of the atmospheric boundary layer, physical climatology – [see](#) interesting paper by Kramm et al), Fairbanks, Alaska, U.S.A.
68. Leif Kullman, PhD (Physical geography, plant ecology, landscape ecology), Professor, Physical geography, Department of Ecology and Environmental science, Umeå University, Areas of Specialization: Paleoclimate (Holocene to the present), glaciology, vegetation history, impact of modern climate on the living landscape, Umeå, Sweden
69. Hans H.J. Labohm, PhD, Independent economist, author specialised in climate issues, IPCC expert reviewer, author of [Man-Made Global Warming: Unravelling a Dogma](#) and [climate science-related Blog](#), The Netherlands
70. Rune Berg-Edland Larsen, PhD (Geology, Geochemistry), Professor, Dep. Geology and Geoengineering, Norwegian University of Science and Technology (NTNU), Trondheim, Norway
71. C. (Kees) le Pair, PhD (Physics Leiden, Low Temperature Physics), former director of the Netherlands Research Organization FOM (fundamental physics) and subsequently founder and director of The Netherlands Technology Foundation STW. Served the Dutch Government many years as member of its General Energy Council and of the National Defense Research Council. Royal

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90. Daniel Joseph Pounder, BS (Meteorology, University of Oklahoma), MS (Atmospheric Sciences, University of Illinois, Urbana-Champaign); Meteorological/Oceanographic Data Analyst for the National Data Buoy Center, formerly Meteorologist, WILL AM/FM/TV, Urbana, U.S.A.
91. [Brian Pratt](#), PhD, Professor of Geology (Sedimentology), University of Saskatchewan ([see](#) Professor Pratt's article for a summary of his views), Saskatoon, Saskatchewan, Canada
92. Harry N.A. Priem, PhD, Professore-emeritus isotope-geophysics and planetary geology, Utrecht University, past director ZWO/NOW Institute of Isotope Geophysical Research, Past-President Royal Netherlands Society of Geology and Mining, Amsterdam, The Netherlands
93. Oleg Raspopov, Doctor of Science and Honored Scientist of the Russian Federation, Professor – Geophysics, Senior Scientist, St. Petersburg Filial (Branch) of N.V.Pushkov Institute of Terrestrial Magnetism, Ionosphere and Radiowaves Propagation of RAS (climate specialty: climate in the past, particularly the influence of solar variability), Editor-in-Chief of journal “Geomagnetism and Aeronomy” (published by Russian Academy of Sciences), St. Petersburg, Russia
94. Curt G. Rose, BA, MA (University of Western Ontario), MA, PhD (Clark University), Professor Emeritus, Department of Environmental Studies and Geography, Bishop's University, Sherbrooke, Quebec, Canada
95. S. Jeevananda Reddy, M.Sc. (Geophysics), Post Graduate Diploma (Applied Statistics, Andhra University), PhD (Agricultural Meteorology, Australian University, Canberra), Formerly Chief Technical Advisor—United Nations World Meteorological Organization (WMO) & Expert-Food and Agriculture Organization (UN), Convener – Forum for a Sustainable Environment, author of 500 scientific articles and several books – here is one: “[Climate Change – Myths & Realities](#)“, Hyderabad, India
96. Arthur Rorsch, PhD, Emeritus Professor, Molecular Genetics, Leiden University, former member of the board of management of the Netherlands Organization Applied Research TNO, Leiden, The Netherlands
97. Rob Scagel, MSc (forest microclimate specialist), Principal Consultant – Pacific Phytometric Consultants, Surrey, British Columbia, Canada
98. Chris Schoneveld, MSc (Structural Geology), PhD (Geology), retired exploration geologist and geophysicist, Australia and France
99. [Tom V. Segalstad](#), PhD (Geology/Geochemistry), Associate Professor of Resource and Environmental Geology, University of Oslo, former IPCC expert reviewer, former Head of the Geological Museum, and former head of the Natural History Museum and Botanical Garden (UO), Oslo, Norway
100. John Shade, BS (Physics), MS (Atmospheric Physics), MS (Applied Statistics), Industrial Statistics Consultant, GDP, Dunfermline, Scotland, United Kingdom
101. Thomas P. Sheahen, B.S., PhD (Physics, Massachusetts Institute of Technology), specialist in renewable energy, research and publication (applied optics) in modeling and measurement of absorption of infrared radiation by atmospheric CO₂, National Renewable Energy Laboratory (2005-2009); Argonne National Laboratory (1988-1992); Bell Telephone labs (1966-73), National Bureau of Standards (1975-83), Oakland, Maryland, U.S.A.
102. S. Fred Singer, PhD, Professor Emeritus (Environmental Sciences), University of Virginia, former director, U.S. Weather Satellite Service, Science and Environmental Policy Project, Charlottesville, Virginia, U.S.A.
103. Frans W. Sluijter, Prof. dr ir, Emeritus Professor of theoretical physics, Technical University Eindhoven, Chairman—Skepsis Foundation, former vice-president of the International Union of Pure and Applied Physics, former President of the Division on Plasma Physics of the European Physical Society and former bureau member of the Scientific Committee on Sun-Terrestrial Physics, Euvelwegen, the Netherlands
104. Jan-Erik Solheim, MSc (Astrophysics), Professor, Institute of Physics, University of Tromsø, Norway (1971-2002), Professor (emeritus), Institute of Theoretical Astrophysics, University of Oslo, Norway (1965-1970, 2002- present), climate specialties: sun and periodic climate variations, scientific paper by Professor Solheim “[Solen varsler et kaldere tår](#)“, Baerum, Norway
105. H. Leighton Steward, Master of Science (Geology), Areas of Specialization: paleoclimates and empirical evidence that indicates CO₂ is not a significant driver of climate change, Chairman, [PlantsNeedCO2.org](#) and [CO2IsGreen.org](#), Chairman of the Institute

106. Arlin B. Super, PhD (Meteorology – University of Wisconsin at Madison), former Professor of Meteorology at Montana State University, retired Research Meteorologist, U.S. Bureau of Reclamation, Saint Cloud, Minnesota, U.S.A.
107. Edward (Ted) R. Swart, D.Sc. (physical chemistry, University of Pretoria), M.Sc. and Ph.D. (math/computer science, University of Witwatersrand). Formerly Director of the Gulbenkian Centre, Dean of the Faculty of Science, Professor and Head of the Department of Computer Science, University of Rhodesia and past President of the Rhodesia Scientific Association. Set up the first radiocarbon dating laboratory in Africa. Most recently, Professor in the Department of Combinatorics and Optimization at the University of Waterloo and Chair of Computing and Information Science and Acting Dean at the University of Guelph, Ontario, Canada, now retired in Kelowna British Columbia, Canada
108. George H. Taylor, B.A. (Mathematics, U.C. Santa Barbara), M.S. (Meteorology, University of Utah), Certified Consulting Meteorologist, Applied Climate Services, LLC, Former State Climatologist (Oregon), President, American Association of State Climatologists (1998-2000), Corvallis, Oregon, U.S.A.
109. J. E. Tilsley, P.Eng., BA Geol, Acadia University, 53 years of climate and paleoclimate studies related to development of economic mineral deposits, Aurora, Ontario, Canada
110. Göran Tullberg, Civilingenjör i Kemi (equivalent to Masters of Chemical Engineering), Co-author – [The Climate, Science and Politics](#) (2009) (see [here](#) for a review), formerly instructor of Organic Chemistry (specialization in “Climate chemistry”), Environmental Control and Environmental Protection Engineering at University in Växjö; Falsterbo, Sweden
111. Brian Gregory Valentine, PhD, Adjunct professor of engineering (aero and fluid dynamics specialization) at the University of Maryland, Technical manager at US Department of Energy, for large-scale modeling of atmospheric pollution, Technical referee for the US Department of Energy’s Office of Science programs in climate and atmospheric modeling conducted at American Universities and National Labs, Washington, DC, U.S.A.
112. [Bas van Geel](#), PhD, paleo-climatologist, Institute for Biodiversity and Ecosystem Dynamics, Research Group Paleocology and Landscape Ecology, Faculty of Science, Universiteit van Amsterdam, Amsterdam, The Netherlands
113. Gerrit J. van der Lingen, PhD (Utrecht University), geologist and paleoclimatologist, climate change consultant, Geoscience Research and Investigations, Nelson, New Zealand
114. A.J. (Tom) van Loon, PhD, Professor of Geology (Quaternary Geology specialization: Glacial Geology), Adam Mickiewicz University, former President of the European Association of Science Editors Poznan, Poland
115. [Fritz Vahrenholt](#), B.S. (chemistry), PhD (chemistry), Prof. Dr., Professor of Chemistry, University of Hamburg, Former Senator for environmental affairs of the State of Hamburg, former CEO of [REpower Systems AG](#) (wind turbines), Author of the book *Die kalte Sonne: warum die Klimakatastrophe nicht stattfindet* (The Cold Sun: Why the Climate Crisis Isn’t Happening”, Hamburg, Germany
116. Michael G. Vershovsky, Ph.D. in meteorology (macrometeorology, long-term forecasts, climatology), Senior Researcher, Russian State Hydrometeorological University, works with, as he writes, “Atmospheric Centers of Action (cyclones and anticyclones, such as Icelandic depression, the South Pacific subtropical anticyclone, etc.). Changes in key parameters of these centers strongly indicate that the global temperature is influenced by these natural factors (not exclusively but nevertheless)”, St. Petersburg, Russia
117. Gösta Walin, PhD and Docent (theoretical Physics, University of Stockholm), Professor Emeritus in oceanografi, Earth Science Center, Göteborg University, Göteborg, Sweden
118. Anthony Watts, ItWorks/IntelliWeather, Founder, [surfacestations.org](#), [Watts Up With That](#), Chico, California, U.S.A.
119. Carl Otto Weiss, Direktor und Professor at Physikalisch-Technische Bundesanstalt, Visiting Professor at University of Copenhagen, Tokyo Institute of Technology, Coauthor of “Multiperiodic Climate Dynamics: Spectral Analysis of...”, Braunschweig, Germany
120. Forese-Carlo Wezel, PhD, Emeritus Professor of Stratigraphy (global and Mediterranean geology, mass biotic extinctions and paleoclimatology), University of Urbino, Urbino, Italy

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124. Thomas (Tom) Wismuller –NASA (Ret) ARC, GSFC, Hdq. – Meteorologist, Ogunquit, ME, U.S.A.
125. Bob Zybach, PhD (Environmental Sciences, Oregon State University), climate-related carbon sequestration research, MAIS, B.S., Director, [Environmental Sciences Institute Peer review Institute](#), Cottage Grove, Oregon, U.S.A.
126. Milap Chand Sharma, PhD, Associate Professor of Glacial Geomorphology, Centre for the Study of Regional Development, Jawaharlal Nehru University, New Delhi, India
127. Valentin A. Dergachev, PhD, Professor and Head of the Cosmic Ray Laboratory at Ioffe Physical-Technical Institute of Russian Academy of Sciences, St. Petersburg, Russia
128. Vijay Kumar Raina, Ex-Deputy Director General, Geological Survey of India, Ex-Chairman Project Advisory and Monitoring Committee on Himalayan glacier, DST, Govt. of India and currently Member Expert Committee on Climate Change Programme, Dept. of Science & Technology, Govt. of India, author of 2010 MoEF Discussion Paper, “[Himalayan Glaciers – State-of-Art Review of Glacial Studies, Glacial Retreat and Climate Change](#)”, the first comprehensive study on the region. Winner of the Indian Antarctica Award, Chandigarh, India
129. [Scott Chesner](#), B.S. (Meteorology, Penn State University), KETK Chief Meteorologist, [KETK TV](#), previously Meteorologist with Accu Weather, Tyler, Texas, U.S.A
130. Richard A. Keen, PhD (climatology, University of Colorado), Emeritus Instructor of Atmospheric Science, University of Colorado; former President, Boulder-Denver branch of the American Meteorological Society; Expert Reviewer, IPCC AR5; author of reports and books on the regional weather and climate of Alaska, the Arctic, and North America; NWS co-op observer, Coal Creek Canyon, Golden, Colorado, U.S.A.
131. Gerhard Gerlich, Dr.rer.nat. (Mathematical Physics: Magnetohydrodynamics) habil. (Real Measure Manifolds), Professor, Institut für Mathematische Physik, Technische Universität Carolo-Wilhelmina zu Braunschweig, Co-author of “Falsification Of The Atmospheric CO2 Greenhouse Effects Within The Frame Of Physics”, Int.J.Mod.Phys.,2009, Braunschweig, Germany
132. Ralf D. Tscheuschner, Dr.rer.nat. (Theoretical physics: Quantum Theory), PhD, Freelance Lecturer and Researcher in Physics and Applied Informatics, Co-author of “Falsification of The Atmospheric CO2 Greenhouse Effects Within The Frame Of Physics, Int.J.Mod.Phys. 2009, Hamburg, Germany
133. Tom Quirk, MSc (Melbourne), D Phil, MA (Oxford), SMP (Harvard), Member of the Scientific Advisory Panel of the Australian climate Science Coalition, Member Board Institute of Public Affairs, Melbourne, Victoria, Australia
134. [Madhav L. Khandekar](#), PhD, consultant meteorologist, (former) Research Scientist, Environment Canada, Editor “Climate Research” (03-05), Editorial Board Member “Natural Hazards, IPCC Expert Reviewer 2007, Unionville, Ontario, Canada



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