

World Climate Declaration

THERE IS NO CLIMATE EMERGENCY

1977 SIGNATORIES



GLOBAL CLIMATE INTELLIGENCE GROUP

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There is no climate emergency

Climate science should be less political, while climate policies should be more scientific. Scientists should openly address uncertainties and exaggerations in their predictions of global warming, while politicians should dispassionately count the real costs as well as the imagined benefits of their policy measures

Natural as well as anthropogenic factors cause warming

The geological archive reveals that Earth's climate has varied as long as the planet has existed, with natural cold and warm phases. The Little Ice Age ended as recently as 1850. Therefore, it is no surprise that we now are experiencing a period of warming.

Warming is far slower than predicted

The world has warmed significantly less than predicted by IPCC on the basis of modeled anthropogenic forcing. The gap between the real world and the modeled world tells us that we are far from understanding climate change.

Climate policy relies on inadequate models

Climate models have many shortcomings and are not remotely plausible as policy tools. They do not only exaggerate the effect of greenhouse gases, they also ignore the fact that enriching the atmosphere with CO₂ is beneficial.

CO₂ is plant food, the basis of all life on Earth

CO₂ is not a pollutant. It is essential to all life on Earth. More CO₂ is favorable for nature, greening our planet. Additional CO₂ in the air has promoted growth in global plant biomass. It is also profitable for agriculture, increasing the yields of crops worldwide.

Global warming has not increased natural disasters

There is no statistical evidence that global warming is intensifying hurricanes, floods, droughts and suchlike natural disasters, or making them more frequent. However, there is ample evidence that CO₂-mitigation measures are as damaging as they are costly.

Climate policy must respect scientific and economic realities

There is no climate emergency. Therefore, there is no cause for panic and alarm. We strongly oppose the harmful and unrealistic net-zero CO₂ policy proposed for 2050. Go for adaptation instead of mitigation; adaptation works whatever the causes are.

OUR ADVICE TO THE WORLD LEADERS IS THAT SCIENCE SHOULD STRIVE FOR A SIGNIFICANTLY BETTER UNDERSTANDING OF THE CLIMATE SYSTEM, WHILE POLITICS SHOULD FOCUS ON MINIMIZING POTENTIAL CLIMATE DAMAGE BY PRIORITIZING ADAPTATION STRATEGIES BASED ON PROVEN AND AFFORDABLE TECHNOLOGIES.

To believe the outcome of a climate model is to believe what the model makers have put in. This is precisely the problem of today's climate discussion to which climate models are central. Climate science has degenerated into a discussion based on beliefs, not on sound self-critical science. Should not we free ourselves from the naive belief in immature climate models?



The undersigned:

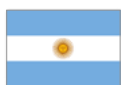
WCD AMBASSADORS

NOBEL LAUREATE PROFESSOR JOHN F. CLAUSER / USA
NOBEL LAUREATE PROFESSOR IVAR GIAEVER NORWAY/USA
PROFESSOR GUUS BERKHOUT / THE NETHERLANDS
DR. CORNELIS LE PAIR / THE NETHERLANDS
PROFESSOR REYNALD DU BERGER / FRENCH SPEAKING CANADA
BARRY BRILL / NEW ZEALAND
VIV FORBES / AUSTRALIA
DR. PATRICK MOORE / ENGLISH SPEAKING CANADA
JENS MORTON HANSEN / DENMARK
PROFESSOR LÁSZIÓ SZARKA / HUNGARY
PROFESSOR SEOK SOON PARK / SOUTH KOREA
PROFESSOR JAN-ERIK SOLHEIM / NORWAY
DR. G.-FIVOS SARGENTIS / GREECE
FERDINAND MEEUS / DUTCH SPEAKING BELGIUM
PROFESSOR RICHARD LINDZEN / USA
HENRI A. MASSON / FRENCH SPEAKING BELGIUM
PROFESSOR INGEMAR NORDIN / SWEDEN
JIM O'BRIEN / REPUBLIC OF IRELAND
PROFESSOR IAN PLIMER / AUSTRALIA
DOUGLAS POLLOCK / CHILE
DR. BLANCA PARGA LANDA / SPAIN
DR. PETER STALLINGA / PORTUGAL
PROFESSOR ALBERTO PRESTININZI / ITALY
PROFESSOR BENOÎT RITTAUD / FRANCE
DR. THIAGO MAIA / BRAZIL
PROFESSOR FRITZ VAHRENHOLT / GERMANY
THE VISCOUNT MONCKTON OF BRENCHLEY / UNITED KINGDOM
DUŠAN BIŽIĆ / CROATIA, BOSNIA AND HERZEGOVINA, SERBIA AND MONTE NEGRO



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TOTAL SIGNATORIES 1977



5 SIGNATORIES FROM ARGENTINA

5 Signatories

- Dr. Cristián Antiba
- Mauro Borsella
- Aldo Brandani
- Rosa Compagnucci

Research professor at national universities and educational institutes
Environmental Consultant & Auditor

Coastal Specialist and Environmental Scientist

PhD in Meteorological Sciences, Climate Researcher, Full-time
Professor at the University of Buenos Aires and Principal Researcher
at CONICET

- Sergio Heguilén

MSc, Director of Ecoativo Environmental Consulting, specialized in
regenerative agriculture and livestock and energy revaluation of
wastes



183 SIGNATORIES FROM AUSTRALIA

2 WCD Ambassadors

- Viv Forbes

Geologist with Special Interest in Climate, Founder of www.carbon-sense.com, Queensland, Australia

- Ian Plimer

Professor Earth Sciences, The University of Melbourne

181 Signatories

- D.Weston Allen

Physician and Medical Director of Kingscliff Health, New South Wales,
Author of a number of Climate-related papers

- Don Andersen
- David Archibald
- Rick Armstrong
- Michael Asten

Retired Teacher, Programmer

Research Scientist

retired metallurgist and strategic planner

Retired Professor in Geophysics and Continuing Senior Research
Fellow at the Monash University, Melbourne

- József Balla
- Stuart Ballantyne
- Dr. Priyanka Bandara

retired teacher and manager of a small business

PhD, Senior Ship Designer, Sea Transport Corp.

PhD, former academic medical researcher operating as a freelance
researcher in environmental health since 2012.

- Jim Bannister

industry researcher for many years but recently a high school
educator.

- Jeremy Barlow
- Dr. Colin M. Barton

Energy and Mining professional, Director and CEO

Geologist, Retired Civil Engineer with Experience in Project Control,
Research and Professional Training, Honorary Fellow RMIT University,
Australia

- Gordon Batt
- Maxwell C.S. Beck
- Robert M. Bell
- Karen Benn

Director GCB Investments Pty Ltd.

B.Juris.LLB, lifetime experience in law, Retired Magistrate and Coroner

Retired Geologist, Victoria

PhD, Biologist and Environmental Scientist, Educator and University
Lecturer in Sciences, Biology, Environmental Sciences, Water Quality
and Water Resource Management

- Richard Blayden†
- Colin Boyce

Professional Engineer

Engineer, Member of Parliament, Queensland State Parliament,
Engineer, Farmer and Entrepreneur

- Howard Thomas Brady

Member Explorers Club of New York, Member of the Australian
Academy of Forensic Sciences

- Geoff Brown
- Andrew Browne

Organizer of a Critical Climate Group

Exploration Geoscientist, Fellow AusIMM (CP), 50 Years Global
Experience

Australia continued

- Frank Brus holds a B. Comm from UNSW, spent most of his working life with the Electricity Commission of NSW
- Ernest Buchan Chartered Engineer MIET, Kardinya, W. Australia
- Alan Douglas Buerger Fellow Australasian Institute of Mining and Metallurgy, Member of Australian Institute of Company Directors
- Mike Bugler Retired Environmental Consultant
- Paul Buncl Medical Practitioner
- Tony Burns PhD in Chemical Engineering
- Paul Callander Retired Geologist BSc Melbourne, Extensive experience in energy economics
- Charles Camenzuli Structural Engineer specializing in Remedial Work, Catcam Group, Sydney
- Ray Carman Organic Chemist, Honorary Fellow University of Queensland
- Dr. Larry Cashion PhD in Psychology, Consultant Psychologist, Special interest in cognition and language of climate science
- Peter Champness Retired Radiologist
- Andrew E. Chapman Expert on Rainfall and Flood Events
- Michael F. Clancy Retired Civil Engineer, Brisbane
- Martin Clark Expert in Building Design, Planning and Landscaping, Townsville NQ
- Richard Corbett Member Royal Australian Chemical Institute, Member of The Clean Air Society of Australia and New Zealand
- Dr. Michael Creech lifetime active as Geologist; Dr. Creech informs the public by giving presentations on Climate Change
- Matt Crisanti BSc, UniSA, Science Faculty Coordinator at St. Columba College in 2008
- Majorie Curtis Retired Geologist, Stratigrapher and Palaeoclimatic Studies, Canberra
- Eric Daniel Retired IT Consultant
- Arthur Day Earth Scientist, Specialist in Geochemical Modelling of Volcanic Processes
- Dr. Geoff Deacon PhD., MSc., BSc (hons), geologist, palaeontologist, advocate for geological truth in Climate Science
- David H. Denham lifetime experience as Architect (B Arch), active in giving talks and writing opinion articles on climate change
- Geoff Derrick Geologist
- Trish Dewhirst Retired Geologist, Queensland
- Bevan Dockery BSc (UWA), Grad.Dip.Computing (Curtin U), Exploration Geophysicist in minerals world-wide
- Aert Driessen Geologist, Fellow Australian Institute of Geoscientists
- John A. Earthrowl Retired Geologist, Brisbane
- Mike Elliott Dux of School in Mathematics, Co-Founder of Climate Realists of Five Dock
- Jeremy K. Ellis Retired Chairman of BHP, now Chairman of the Saltbush Club in Australia
- Dr. Stephen David English PhD in Crop Physiology from University of New England, Retired Agricultural Scientist
- Matthew J. Fagan Founder and President of FastCAM Inc.
- Michael Foley BSc Microbiology, PhD Biochemistry, Professor of Biochemistry, La Trobe University Australia
- Paul S. Forbes Financial Advice Specialist
- Nick Franey MSc Mineral Exploration, NJFconsulting Pty Ltd (founder, MD), Director Australian Institute of Geoscientists
- Dr. Rodney Fripp Mining Geologist and Chemist by education, lifetime experience in the fields of Mining and Exploration Geology, Analytical Chemistry and Physics of the Earth
- Michael Fry PhD, retired Professor, ex Head of School and Dean of IT
- Christopher J.S. Game Retired Neurophysiologist
- Robin George PhD Geology Geologist and mining company executive, Canterbury
- David Gibson Experimental Physicist
- Andrew Gillies Geologist

Australia continued

- Gavin Gillman Former Senior Principal Research Scientist with SCIRO Australia, Founding Director of the IITA Ecoregional Research Centre in Cameroon
- Paul R.C. Goard BSc Sydney University, Physics & Maths, + Two years geology, one year Chemistry, member of the Australian Meteorological & Oceanographic Society
- Brendan Godwin Weather Observations and General Meteorology, Radio (EMR and Radar) Technical Officer, Retired from Bureau of Meteorology
- Hamish Grant MR Spectroscopy & Imaging Consultant, Victoria
- Dr. Kesten C. Green University of South Australia. Forecasting for public policy; author of “The Scientific Method: A Guide to Finding Useful Knowledge” thescientificmethod.info
- Jeffrey R. Grimshaw MSc Information Technology, Author of Trigger Warming, Everything You Wanted To Know About Global Warming But Were Afraid To Ask
- Guy Grocott MSc Engineering Geology, Retired Consulting Engineering Geologist/ Geotechnical Engineer
- Lindsay Hackett BSc, Author of the paper “Global Warming Misunderstood” and the paper “The Impact of Greenhouse Gases on Earth’s Spectral Radiance”
- Markus O. Haering PhD Geologist, Energy geoscientist, Natural resources professional, retired
- Maureen Hanisch PhD Biochemistry, Medical Research 1997, Australian National University, Retired
- Erl Happ Managing Director at Happs
- John Happs Geoscientist, Retired University Lecturer
- Peter J.F. Harris Retired Engineer (Electronic), now Climate Researcher
- Paul Leonard Harrison Geophysicist with an M.Sc. in Geology and Geophysics, over 45 years experience in research and exploration for the geo-energy industry
- Jarvis Hayman Retired Surgeon, Recently retired Archaeologist and Visiting Fellow at the Australian National University
- Mark Henschke Retired Geologist in Mining, Oil and Gas
- Frederick Stewart Hesse Consulting Civil and Forensic Engineer, Critic of Government Policy on Climate Related Matters
- Gerhard Hofmann Geologist and Palaeontologist, Former Director of the Geological Survey of Queensland
- Robert Ian Holmes PhD in Climate Science/Mitigation, University Lecturer (retired) and Climate Scientist
- Selwyn Hopley MSSSI, Retired Land and Engineering Surveyor
- Antonia Howarth-Wass Mathematician, Author on Local Climate Articles
- Geraint Hughes Climate Researcher, Mechanical Building Engineer, Climate Researcher
- Douglas Hutchison BSc and MSc degrees in geology, consulting geologist in the mining industry, member of the Australian Institute of Geoscientists
- David Hyde MEnvSt, Environmental Biology, Former Scientific Chairman of Australian Underwater Federation (NSW)
- Paul Ingram Qualified Geologist, Member of the Australian Institute of Mining and Metallurgy, studying Palaeoanthropology and Human Evolution
- Mr. Anthony Jackson Bachelor of Arts degree, Bachelor of Laws degree, retired
- Ian Johnson Bachelor of Engineering, consultant
- Mike Jonas IT consultant, retired, frequent contributor to Watts Up With That?
- Prof. Aynsley Kellow Professor emeritus of Government, College of Arts, Law and Education, University of Tasmania
- Alison Kelsey PhD, Palaeoclimatologist and Archaeologist, University of Queensland
- Kevin Kemmis Climate Researcher, Expert in Information Technology
- Neil Killion Occupational Psychologist, author and Chairman and Co-Founder of Climate and Energy Realists Queensland
- Bill Kininmonth BSc (UWA), MSc (CSU) M. Admin. (Monash), Former Superintendent of the Bureau of Meteorology National Climate Center
- David Knox IT professional, bachelors in business (Uni of South Australia) and a Masters degree in business administration (Charles Sturt University)
- Rosemarie Kryger PhD, Biochemistry, Retired, University of Queensland, Brisbane
- Hugh H. Laird Retired Tropical Agriculture Executive

Australia continued

- Peter Laznicka retired Professor of Economic Geology, co-founder of Data Metallogenica
- John Leahey retired Geologist and Finance Director; with career long interest in the natural resources sector,
OBE, Expert in Physical Chemistry
Worked for NASA, now Technology Consultant to Multinationals
CEO Australian Bauxite Ltd.
- John Leisten Fellow of the Institution of Engineers of Australia
- Brian Levitan Geologist, Bsc (Hons) Petroleum Geologist, Fellow of the Geological Society
- Ian Levy LtCol(Ret'd) BAppSc, BE Mech(hons), psc, jssc, Grad Dip Strategic Studies
- Matthew David Linn Conjoint Professor in Surgery, University of New South Wales
- Ian Longley Professor Emeritus in the Department of Grain Science and Industry at Kansas State University USA
- Kevin A. Loughrey Bsc, Adip, Cres., Management of Forests and National parks in Victoria
- David Z. Lubowski BA(Science)TCD, MSc, PhD, Lifetime experience in modeling and data analysis; in retirement, 20 years of interest in climate data analysis
- Finlay MacRitchie Technical Director Eon NRG
- John Ross May Geologist and informed scientist on the subject of Climate Science
- Sandy McClintock Retired Geologist, Queensland
- Gerard McGann PhD, independent climate data analyst
- Jim McGregor-Dawson General Medical Practitioner AM, MBBS, FRACGP, FACRRM
- Rodney McKellar Retired Environmental Health Officer
- John McLean Agricultural Scientist
- Toby McLeay PhD, Earth Science
- Ross McLeod Retired Industrial Chemist
- Peter R. Meadows Former Deputy Secretary of the Federal Treasury, Founder and Leader of the Institute for Private Enterprise
- Paul Messenger Contributor and Editor of the Mark Steyn Compilation: "Climate Change, the Facts", Author of Climate Change: "Treaties and Policies in the Trump Era"
- John Michelmore Prominent Australian Mining Executive, Fellow of the Australian Academy of Technology, Science and Engineering (FTSE)
- Des Moore† PhD, Adjunct Professor, Social Sciences, La Trobe University (Melbourne) and the Cairns Institute, James Cook University
- Alan Moran BSc in Geology, DipEd in Geology, Physics, Chemistry, Biology, Consultant Geologist
- Hugh M. Morgan PhD, Retired Senior Lecturer Physics and one time Dean of Science, James Cook University, North Queensland
- Peter Murphy Honorary Research Professor in Mathematics, Victoria University, Australia
- John Edward Nethery MB, BS, FRCS, FRACS, Retired Surgeon
- John Nicol† DSc, Geologist, Emeritus Professor of Geology and Honorary Research Fellow
- Vasily Novozhilov B.E Mech. FIE Aust CPEng NER, Principal Design Engineer, specialised in boiler design and gas radiation analysis
- Paul John O'Keeffe MSc Applied Science, Materials and Welding Engineer
- Clifford David Ollier Environmental Scientist
- David Parsons PSc, CM, Sceptical Scientific Contrarian in the Climate Debate
- M. Louise Petrick Geologist and Director of Minnelex Pty Ltd.
- Suzana Podreka Nuclear Physicist
- Alistair Pope PhD, Mathematical Geophysics, Retired CSIRO Chief Research Scientist
- Robert Pypser BVSc (Hons), MVSc, Veterinarian, retired, A long-time interest in Meteorology, Climate, and Geology
- Tom Quirk Barrister and Solicitor
- Art Raiche Oceanographer and Geophysicist
- Geoff Rankin Mining Geologist
- Campbell Rankine Author of CO2 Feeds the World and The Climate Change Delusion
- Peter Ridd
- Tim Riley
- John Cameron Robertson

Australia continued

- Philip Lance Robinson
Chemical Engineer, lifetime experience in the aluminium and steel industry
- Nigel Rowlands
Retired from Mining and Exploration Industry
- Judy Ryan†
Editor Principia Scientific Institution Australia
- George (Rob) Ryan
Professional Geologist
- Tony Schreck
Managing Director, 35 yrs experienced geologist, Member of the Australian Institute of Geoscientists, Member of the Australian Institute of Company Directors
- Pasquale Seizis
Mechanical Engineer, climate critic
- Geoffrey Sherrington
Geoffrey Sherrington, Retired Chief Geochemist, Geopeko Limited
- Jim Simpson
Retired after 45 years in the international Telecoms industry - OTC(A), then Telstra. Nowadays Convenor, The Climate & Energy Realists of Five Dock, Sydney Australia
- Case Smit
Retired Scientist; co-founder of the Galileo Movement
- Lee Smith
University Lecturer in Spatial Technology, Responsible for State Government Precise Monitoring of Sea Level and International Sea Boundaries
- Edward Smith
Chartered Chemist, member of the Royal Australian Institute of Chemistry (RACI), lifetime of experience in the Pharmaceutical industry
- Peter Smith
Geologist (Retired), New South Wales
- Mark Sonter
MSc(Hons)(Physics - Space Resources), Consultant & Principal, Asteriod Enterprises Pty Ltd at Asteroid Enterprise
- Dr. Libor Spacek
PhD in Computer Science, Modelling & AI
- Darren Speirs
Independent Business Owner, Rangeland NRM Consultants
- Geoffrey Stocker
Professor and Head of Department of Forestry, PNG University of Technology, Director of PNG Forest Research Institute
- Dr. Nancy Enid Stone
BSc (Hons), University of Western Australia (1950), PhD Cantab. (1956), Retired Research Biochemist
- John Stone
Former Head of the Australian Treasury and Executive Director of both the IMF and the World Bank
- Rodney R. Stuart
Retired Expert in Energy Industry, Tasmania
- Roger Symons
Professional Engineer, Expert in Temperature Control of Industrial Buildings
- James Taylor
Electrical Aerospace and Astrophysics Engineer, Computer Modelling Researcher
- Tony Thomas
MA, B.Ec, journalist and author for more than 60 years
- Rustyn Wesley Thomas
Retired Aircraft Engineer
- Baki M. Top
Senior Agricultural Scientist, Freelance Consultant Agricultural and Food Production & Agribusiness
- John W. Turner
Science Educator, Noosa Heads
- Ralph J. Tyler
Retired Senior Principal Research Chemist, CSIRO, expert in conversion of coal and natural gas to liquid fuel
- Peter Tyrer
Project Controls Engineer in Mining Industry
- Dr. Julian Vearncombe
PhD, Geologist, Fellow Australian Institute of Geoscientists
- Terrence Vincent
Security Engineer, Small Business Adviser AIST, ASIAL, SMBE
- John Vucko
Electrical Engineer, Nationally Awarded Consultant
- James Walter
Medical Doctor
- John Warnock
Astro Economist
- Chris Warren
Retired Engineer, Design and Construction of Dams and feasibility of Coal Mines
- Colleen J. Watts
Retired Environmental Scientist with specialization in Aquatic Chemistry and Environmental Consequences of Renewable Energy
- Alan C. Watts
Medical Practitioner specialized in Effects of Infrasound on Human Health
- Glyn Weatherall
Energy Resources Advisor
- Neil Wilkins
Retired Geologist
- Richard Willoughby
retired electrical engineer with thirty years experience in the Australian mining and mineral processing industry
- Lawrence A. Wilson
Professional Chemical Engineer, Melbourne

Australia continued

- P.C. Wilson
- Michael Wilson

- Philip Wood

- Michael Wort

Former Journalist with the A.B.C. Queensland

PhD, DSc, Emeritus Professor, former Executive Dean UWS, Former Chief Research Scientists CSIRO, Low Emissions Transport Fuels Leader

Qualified Lawyer in four Jurisdictions (Australia, New York, UK and Hong Kong), CEO of two ASX-listed Companies operating in the Mining and Minerals Processing Fields

BSc Geology, MSc Mineral Process Design, PhD Mineral Technology, Geologist interested in impact of high levels of atmospheric CO₂ as trigger for formation of limestone deposits



10 SIGNATORIES FROM AUSTRIA

10 Signatories

- Dr. Wolf Bertling
- Dr. Ernst Hammel

- Dr. Gerhard Kirchner
- Dipl Ing, Dr rer techn Heribert Martinides
- Rudolf Posch

- Dr. Eike Roth
- Helmut M. Sauseng
- Hans Dirk Struve
- Dr. Joseph Laszlo Szekeres

- Konrad Falko Wutscher

PD in Medicine, and pharmacist and entrepreneur

Career in Physics and Nanotechnology, patent holder and author in multiple scientific publications

Berg Ingenieur, Climate Realist

European Space Agency, retired

PhD, Retired Software Engineer of a Technical Multinational, Expert in Nonlinearities and Feedbacks

PhD in Physics, Lifetime career in Nuclear Energy

MSc Physical Chemistry, entrepreneur, activist in civil society

Dipl. Ing., Mechanical Engineer with large experience in business

MD, PhD, Associate Professor at Medical University of Vienna, President of Vienna Medical Association

Doctor of Engineering Sciences, specialist in treatment of water and wastewater



1 SIGNATORY FROM BANGLADESH

1 Signatory

- Prof. Dr. Aftab Alam Khan

PhD, Active Professor Geological Oceanography, BSMR Maritime University, Retired Professor of Geology and Geophysics of Dhaka University



1 SIGNATORY FROM BARBADOS

1 Signatory

- Fred Corbin

Director of CSW Engineering 2000, Co-founder of The FREEWINDS organization



39 SIGNATORIES FROM BELGIUM

2 WCD Ambassadors

- Henri A. Masson

- Ferdinand Meeus

Professor Emeritus Dynamic System Analysis and Data Mining, University of Antwerp, French speaking Belgium

Retired Dr. Sc (Chemistry, Photophysics, Photochemistry), IPCC expert Reviewer AR6

37 Signatories

- Rudy Berkvens

- Eric Blondeel
- Emiel van Broekhoven†
- Christophe de Brouwer

- Jan-Paul Buijs

- Alexandre G. Clauwaert

Information Security and Quality Management Auditor in ICT and Aviation, Commercial Pilot, Flight Instructor

Retired Civil Engineer

Emeritus Professor of Economics, University of Antwerp

MD, Honorary Professor of Environmental and Industrial Toxicology, Former President of the School of Public Health at the Université Libre de Bruxelles

Biologist, Computer scientist, experienced business consultant and change manager, director of two NGOs around awareness for, and protection and restoration of fragile ecosystems

Brussels Polytechnic, Civil Engineer

Belgium continued

- Alain Colignon Surgeon, Brussels University (ULB), Professor of Laser Physics at Paris V René Descartes, Specialist in medical Ultrasound.
- Rudi Creemers Eur. Ing. MSc Electronics-ICT, Network engineer/manager, retired since 2024
- Benjamin Damien PhD in Molecular biology and serial entrepreneur
- Ferdinand Engelbeen Former Chemical Process Automation Engineer, Akzo Nobel Chemicals
- Samuel Furfari Professor of Energy Geopolitics at the Free University of Brussels
- Georges Geuskens Emeritus Professor of Chemistry, Free University of Brussels and Expert Publicist on Climate Science
- Drieu Godefridi PhD, Law, Author of several books
- Jan Goffa Civil Engineer Applied Mechanics, Retired lecturer in thermo- and aerodynamics
- Dr. Volkmar Hierner degree in business administration and economy, retired coach of companies in increasing the effectiveness of their organization
- Jan Jacobs Science Journalist Specializing in Climate and Energy Transition
- Guy Janssen MSc Applied Sciences (civil engineer electromechanics), MSc Nuclear Engineering, Reactor Sciences, experienced conventional electric power expert
- Vincent Kemme Retired biology teacher
- Raymond Koch Retired Research Director at Lab. Plasma Physics, RMA Brussels and Fellow Lecturer at UMons
- Rob Lemeire Publicist on Environmental and Climate Issues
- Jean Meeus Retired Meteorologist, Brussels Airport, Author of the Best Seller Astronomical Algorithms
- Ernest Mund Honorary Research Scientist, Honorary Research Director, FNRS, Nuclear Engineering
- Bart Ooghe Geologist & Geophysicist, Independent Scientist
- Luc Opdecamp “The agronomist-philosopher” (independent researcher), Agronomist (Soil science)
- Jaak Peeters Psychologist and Writer
- Eric Perpète Microcomputed Tomography Scientist, FNRS Senior Research Associate in Chemical Physics
- Michel Pollyn MSc in Energy Science, Retired engineer. Lifetime career in industrial process water treatment and energy projects
- Dr. Hugo Poppe Emeritus hoogleraar, Weer- en Klimaatkunde, KU-Leuven, 1966-2002
- Alain R. Prétat PhD in Geology, Emeritus Professor at Université Libre de Bruxelles
- Danie Roettger MSc. Engineering, lifetime career in energy conversion system development
- Phil Salmon Computer Tomography Scientist, Kontich
- Paul Scheers MSc Engineer in Chemistry and Nuclear Physics
- Rémy Sproelants Civil Engineer Retired CEO ‘RESPRO Languages & Consultancy’, Team H2 SALK/ ThinkTank/Engineering
- Jozef Verhulst PhD, Chemistry, Author
- Jean van Vliet Retired Specialist in Space Weather
- Dr. Marc Wathélet PhD in Molecular Biology, Free University of Brussels
- Appo van der Wiel Senior Development Engineer



1 SIGNATORY FROM BOLIVIA

1 Signatory

- Ambassador José Brechner retired Congressman and Ambassador for the Bolivian Government, Chair of the Foreign Affairs Committee, currently Syndicated Columnist and Senior Political Analyst



22 SIGNATORIES FROM BRAZIL

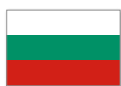
1 WCD Ambassador

- Dr. Thiago Maia Nuclear Physicist, PhD in Astrophysics

Brazil continued

21 Signatories

- Jorge Luis Balino
PhD in Nuclear Engineering, Career in R&D and Education in topics related to Nuclear and Petroleum Engineering
- Dr. Peter Brian Bayley
PhD, lifetime experience in Aquatic Ecology and Fisheries, retired from Dep. Fisheries & Wildlife, Oregon State University
- Jose Nestor Cardoso
Professor on first oceanography course in Latin America, Pioneer on Brazilian expedition to Antarctic, First scientific diver for Brazil from CMAS
- Mario de Carvalho Fontes Neto
Agronomist, Editor of 'The Great Global Warming Swindle'
- José Bueno Conti†
Geographer and Professor of Climatology, Full Professor of the Geography Department at the University of Sao Paulo (USP)
- Dr. Johnson Delibero Angelo
Master and Ph.D. in Material Science, Industrial Chemist, Emeritus Collaborating Professor of Postgraduate Studies in Mechanical Engineering at UFABC
- Prof. Dr. Ricardo Augusto Felicio
BSc Meteorology - USP, MSc Antarctic Meteorology and Satellites - INPE, PhD in Climatology - Physical Geography - USP
- Richard Jakubazsko
Executive Editor of Agro DBO Magazine and Co-Author of the Book 'CO2, Warming and Climate Change: Are you kidding us?'
- Dr. George Lentz Cesar Fruehauf
BSc. Doctor of Sciences - USP, MSc. Meteorology - SJSU, expert in environmental engineering
- Agnaldo Martins
professor and researcher at the Department of Oceanography and Ecology at the Federal University of Espírito Santo
- Prof. Luiz Carlos Badicero Molion
PhD, Retired from National Institute for Space Research (INPE) and Federal University of Alagoas (UFAL). Presently, Climate consultant for agribusiness
- Prof. Marcos José de Oliveira
Environmental Engineer, Master in Climatology, Author of research articles about climate cycles and natural causes of climate change
- Fernando Paiva
PhD Animal Science, Full professor at the Federal University of Mato Grosso do Sul
- José Carlos Parente de Oliviera
Physicist, Professor at the Federal Institute of Education, Science and Technology of Ceará (IFCE), Retired Associate Professor of the Federal University of Ceará (UFC)
- Paulo Pimenta
PhD in Aerospace Engineering, Professor for Solid and Structural Mechanics, University of São Paulo
- Guilherme Polli Rodrigues
Geographer, Master in Climatology, Environmental Consultant
- Adelino de Santi
BSc Biology and Ecology, MSc Applied Ecology, Biologist, works with environmental education, licensing, restoration, sustainability management and staff supervision
- Geraldo Luis Saraiva Lino
Geologist, Author of 'How a Natural Phenomenon Was Converted into a False Global Emergency'
- Marcello Silva Sader
Graduated in Veterinary Medicine and Computer Sciences
- Daniela de Souza Onca
Professor of the Geography Department of the State University of Santa Catarina (UDESC)
- Igor Vaz Maqueira
Biologist, Specialist in Environmental Management



2 SIGNATORIES FROM BULGARIA

2 Signatories

- Ivan Daraktchiev
MSc of Applied Science (Electronics engineering, Chemistry, Physics), Independent Researcher
- Fabrice Toussaint
lifetime of experience in the geo-energy industry, expert in complex numerical modelling



148 SIGNATORIES FROM CANADA

2 WCD Ambassadors

- Reynald du Berger
Retired Professor of Geophysics, Université du Québec a Chicoutimi, French Canada
- Patrick Moore
Ecologist, Chair CO2 Coalition, Co-Founder Green Peace

146 Signatories

- Steven Ambler
Emeritus Professor, Université du Québec à Montréal, Département des sciences économiques
- John Andersen
BSc, Honours Geology, University of Alberta
- Peter Andreadis
Satellite Systems Engineer
- Dr. Grant Armstrong
Leadership development and coaching
- Russ Babcock
retired biochemist, lifetime experience in the mining and smelting industry with emphasis on pollution abatement
- Tim Ball†
Emeritus Professor Geography, University of Winnipeg and Advisor of the International Science Coalition
- Ron Barmby
M.Eng in Engineering with major in Geoscience, Author of 'Sunlight in Climate Change: A Heretic's Guide to Global Climate Hysteria'
- Timothy J. Barrett
PhD, Geochemical Researcher, Ore Systems Consulting
- Robert Douglas Bebb
Professional Engineer (Mechanical), MBA
- Callum Beck
PhD in Religious Studies, Sessional Professor in Religious and University Studies
- Rick Beingessner
BSc, BA and LLB University of Alberta, lifetime experience in the Geo-Energy Industry, recently involved in researching Climate Change Matters
- Jean du Berger
Ingénieur Retraité, Bell
- Mario Blais
Science and Mathematics Teacher
- Alain Bonnier
PhD, Physique, INRS-Centre de Recherche en Énergie, Montréal
- Andrew Bonvicini
Professional Geophysicist, Former President of Friends of Science Society
- Dr. Don Bowen
PhD population ecology, Emeritus Research Scientist, Bedford Institute of Oceanography
- Jacques Brassard
Minister of Recreation (1984), Minister of Environment (1994), Minister of Transport and Intergovernmental Affairs of Canada (1996), Minister of Natural Resources and House Leader
- Kevin Burke
MSc in Marine Biology, author/co-author of 2 technical report with the Department of Fisheries and Oceans and 2 scientific article published in the Journal of Shellfish Research
- Chris Carr
BSc (Hons) Engineering Geology and Geotechnics, retired Geoscientist
- Michel Chapdelaine
MSc, Géologie, Montréal
- Michel Chossudovsky
PhD of Economics, Professor of Economics, Emeritus, University of Ottawa
- Ian Clark
Professor of Earth and Environmental Sciences, University of Ottawa
- Henry Clark
Thermal/Power Engineer
- Edmond (Ted) Clarke
MSc, Engineering, Member of Friends on Science Society
- Paulo N. Correa
Biophysicist and Oncologist, Inventor, Author of numerous books and research papers, Director of Research at Aurora Biophysics Research Institute
- Hortense Côté
Ingénieur Géologue, Goldminds
- Susan Crockford
Zoologist and Polar Bear Expert, Former Adjunct Professor University of Victoria
- Norman Curry
Technical College, Design Engineering-Mechanical Engineering, President of National Zephyr Research
- Charles Danten
former veterinarian, scientific translator, author, and free-lance journalist.
- John Bruce Davies
BSc Pysics and Mathematics, MSc Geoscience, PhD Geophysics and Astrophysics, awards for research on cosmology and fundamental physics.
- Ronald Davison
Professional Chemical Engineer, President of Friends of Science Society
- Dr. E. David Day
BSc, PhD, Chemistry
- A.E. Dixon
PhD, Emeritus Professor of Physics, University of Waterloo
- Eric Ducharme
MSc, Géologie, Abitibi
- Michel Dumais
Ingénieur Civil Retraité, Université d'Ottawa
- Dr. George Duncan
PhD, Retired environmental consultant from A & A Environmental Consultants Inc.
- Claude Duplessis
BcSc, Géologie, Ingénieur Géologue, Goldminds

Canada continued

- Craig A. Elliott MSc Mechanical Engineering, Design Consultant, President at CA Elliott Inc
- Ashton Embry Research Geologist, Embry Holdings
- Christopher Essex Emeritus Professor of Mathematics and Emeritus Professor of Physics, University of Western Ontario
- David Fermor Anaesthesiologist, B.A., M.D., FRCPC
- Chris Fleming PhD, Senior Metallurgical Consultant
- Len Flint Ph.D, P.Eng. (Life Member). A 54 year career in oil and gas and renewable energies. Advisor on GHG footprints for several companies in Canada. Follower of the broad science.
- André Forgues Meteorologist/Aerologist
- Jeffrey Foss† Professor of Philosophy of Science, University of Victoria; Former WCD Ambassador
- Joseph Fournier PhD, Expert in Physical Chemistry
- Anita Frayne farmer and firm adherent of science realism-based decision making.
- Paul M. Gagnon Professional Engineer
- George Gale PhD Geology, Mineral Deposit Geoscience
- Thomas P. Gallagher Earth Scientists, life-long career in the study of paleoclimate, geology and earth ocean systems, see <https://www.youtube.com/watch?v=pj-lu1i317E>
- J. Claude Gobeil BSc, Geology
- Douglas Goodman Engineer, life of time experience in the geo-energy industry
- Kenneth B. Gregory Retired Engineer, Director Friends of Science Society
- Dr. Jean-Francois Guay Regional planner and research professor - Environmental decision system modelling
- Dr. Paul Hamblin Retired Research Scientist Environment Canada, Advisor to the Georgian Bay Association
- John Hastie MSc Soil Physics, Reclamation and Soil Scientist
- Mark T. Hohm P.ENG., Director Friends of Science Society
- R.G. Holtby profesional agrologist
- Patrick Hunt former member of the Royal Canadian Navy, former member of the Legislative Assembly of Nova Scotia, retired entrepreneur in the high-tech field (35 Years)
- Rick Ironside Director Fortress ESG, provides specialized expertise to help clients map out their journey to attempt to achieve the goal of net zero by 2050
- Eric Jelinski M. Eng. P. Eng., Alumni and Contract Lecturer, University of Toronto, Department of Chemical Engineering and Applied Chemistry, CHE568 Lecturer, Nuclear Plant Engineering
- Paul A. Johnston Associate Professor, Paleontology, Paleoecology, Department of Earth and Environmental Sciences, Mount Royal University, Calgary, Alberta
- Richard T. Jones experimental physicist, researched in the field of fission energy
- E. Craig Jowett Geologist and Environmental Researcher PhD University of Toronto
- Andre Julien MSc Mechanical Engineering, Thermodynamics Expert, over 40 patents published
- Klaus L.E. Kaiser Retired Research Scientist, National Water Research Institute, Author of Numerous Press Articles
- Bogdan Kasprzak Professional Geoscientist, life time experience in data modelling, data analysing and data interpretation
- Madhav Khandekar Expert Reviewer IPCC 2007 AR4 Report
- David Koop BSc, Analytical Chemist
- Kees van Kooten Professor of Economics and Canada Research Chair in Environmental Studies and Climate, University of Victoria
- Emil Koteles PhD in Solid State Physics, Max Planck Institute in Stuttgart, National Research Council of Canada, visiting professor at Zhejiang University in Hangzhou, retired
- Jean Laberge Professeur Retraité de Philosophie, CEGEP du Vieux Montréal
- Sherri Lange CEO North American Platform Against Wind Power, Great Lakes Wind Truth
- M.J. Lavigne MSc, Professional Geologist
- Douglas Leahey PhD, Meteorology, Former President of Friends of Science

Canada continued

- Professor Denis Leahy
PhD in Astrophysics, Full Professor in the Department of Physics and Astronomy, University of Calgary
- Dr. Catherine Lebrun
PhD, Management, HEC Montreal
- Robert Ledoux
PhD, Professeur Retraité en Géologie, Université Laval
- Dick Leppky
Retired businessman and Independent Truth Seeker
- Richard Lewanski
BSc (Hons) in Geophysics from the university of Manitoba, Exploration Geophysicist, Founder and CEO of several exploration and production companies in the oil industry
- H. Douglas Lightfoot
Research Engineer in the Chemical Industry, Co-Founder of the Lightfoot Institute, papers on Alternative Energy and Atmospheric CO2
- Gerald Machnee
Retired Meteorologist, Environment Canada
- Paul MacRae
Independent Climate Researcher
- Allan M.R. MacRae
Retired Engineer
- Joanne Marcotte
Bachelor's Degree in Computer Engineering and Author of "Inconvenient Doubts - Climate Change Apocalypse: Really?"
- Michael Martinz
Radio Podcast Host, Climate Realist, Activist, former Industrial Consulting Forester
- J. David Mason
Applied Geologist, BAsC, Applied Geology, MEng., Mining
- Stuart McDonald
Retired Canadian Insurance Broker
- Dwight McIntosh
degree in physics and geology at the University of Alberta, lifetime of experience in the geo-energy industry, advisor on how to cope with financial penalties for GHG emissions
- Norman Miller
Former P.Eng, now Retired
- Ron Mills
Geologist/geochemist Emeritus NS Geological Survey
- Randall S. Morley
veterinary epidemiologist, retired
- Dr. Thomas F. Moslow
PhD, P. Geol., President Moslow Geoscience Consulting Ltd., Adjunct Professor Department of Geoscience, University of Calgary
- Roland Moutal
Teacher Physics and Chemistry at Vancouver Community College
- Prof. Frank Mucciardi
retired Professor in the Department of Mining and Materials Engineering at McGill University Montreal, research focus on energy, heat transfer, fluid mechanics and modeling
- Eiichiro Ochiai
Emeritus Professor, Juniata College (USA)
- Christian Olivier
former Postdoc @ UC Berkeley
- Robert Orr
Historical Linguist
- Scott Patterson
Professional Geologist
- Andy Pattullo
Associate Professor of Medicine at the University of Calgary
- Steven Pearce
PhD, Lecturer
- Prof. David A. Penny
PhD, Former Associate Professor, Dept. of Computer Science, University of Toronto, currently CTO at BlueCat Networks
- Gregory Phillips
Retired Agrifood Industry Professional, with research background in biology, economics and policy formulation.
- Jozinus Ploeg
retired Vice-President, Engineering and Technology, National Research Council, Canada. Field of expertise: Energy transfer from atmosphere to surface of ocean, wave mechanics
- Joe Postma
Research Analyst, Physics & Astronomy, University of Calgary
- Brian R. Pratt
Professor of Geological Sciences, University of Saskatchewan
- Michael Priaro
BSc Chem. Eng, P.Eng, Member of Association of Professional Engineers and Geoscientists of Alberta
- Gerald Ratzer
Professor Emeritus, Computer Science McGill University, Montreal
- Dr. Michael Raw
PhD in Mechanical Engineering, specialization in computer modelling of fluid flow and heat transfer; current field of work in technology management
- John Angus Raw
aerospace engineer, specialised in aerodynamics, life time career in the international aerospace industry
- Robert James Reid
BSF degree, Registered Professional Forester, lifetime experience in the forestry industry
- Norman Reilly
Professor Emeritus of Mathematics, Simon Fraser University, British Columbia
- Gérald Riverin
PhD, Géologie, Géologue Retraité
- John Robson
Historian, Journalist, Documentary Filmmaker

Canada continued

- Peter Saloniuss
Retired Research Scientist, Natural Resources
- Marcelo C. Santos
Professor of Geodesy, University of New Brunswick
- Paul R. Schmidt
BSc, Professional Engineer Ontario, Research Scientist, Author/
Lecturer 'Review & Analysis of Climate Change', Member Friends of
Science
- Ian de W. Semple
Retired Exploration Geologist and Mining Investment Analyst of McGill
University
- Afshin Shahzamani
Retired professional (Medical Science Liaison) pharmaceutical
industry
- Élie Shama
Ingénieur Retraité en Électromécanique, Président d'Éconoden,
Montréal
- Wayne Shephard
MSc Geology, Retired oil and gas explorer
- H.F. (Gus) Shurvell
Emeritus Professor of Chemistry, Queen's University
- Brian Slack
Distinguished Professor Emeritus, Concordia University Montreal,
Department of Geography, Planning and Environment
- Aize Smit
MSc Climatology on Global Warming, retired high school science and
A.P. environmental science teacher
- Nigel Southway
Business and Manufacturing Engineering Consultant, Educator, and
Author
- Rodolfo (Rudy) Spatzner
graduated from Environmental/Civil Engineering Technology, Humber
College, Ontario, lifetime experience in wireless networks across
North America
- Robert Sproule
PhD, Professor of Economics, Bishop's University, Quebec, Canada
- Michelle Stirling
Writer/Researcher with focus on 'consensus' social proofs, Top 10%
downloaded author on SSRN, Communications Manager, Friends of
Science Society
- Mary Taitt
PhD Zoology, MSc Ecology, retired
- Mario Thomas
B.Sc., Ph.D. Chemistry, CEO and Chairman of Precision Biomonitoring
Inc.
- Graydon Tranquilla
BScEE, Electrical Power, Senior Electrical Engineer (retired), now an
energy advisory consultant
- V Ismet Ugursal
Professor of Mechanical Engineering, Dalhousie University
- Marc Vallée
PhD, Geophysicien
- Petr Vaníček
Dr. Sc, Professor Emeritus of Geodesy, University of New Brunswick
- Duncan Veasey
psychiatrist with a particular interest in mass hysteria,
authoritarianism and social compliance
- Prof. Dr. Ir. Frank C.J.M. van Veggel
Full Professor at the University of Victoria, M.Eng and PhD in Chemical
Technology, University of Twente, The Netherlands, Since 2015 Fellow
of the Royal Society of Canada
- Jean-Joel Vonarburg
PhD, Professeur Ingénieur, Université du Québec à Chicoutimi
- Dr. Ronald Voss
PhD Chemistry, lifetime career in the environment department of a
research consortium
- Robert Wager
BSc and MSc, Microbiological Sciences and Immunology, Biochemistry
and Molecular Biology, Retired
- Dr. Helen Warn
PhD in Fluid Dynamics from McGill University
- Dr. Thorpe W. Watson
material science, lifetime career in the mining industry with focus on
intellectual property protection
- Larry Weiers
energy engineer, retired, author of "Sustainability of the Modern
Human Economy"
- William van Wijngaarden
Professor of Physics, York University
- Kenneth W. Wilson
Professional Engineer (retired)
- Daryl Youck
MSc, PEng, Oil Sands Pioneer
- AL ZEEPER
Physicist, Mathematically discovered the Unification of Gravity with
Electricity and Magnetism



4 SIGNATORIES FROM CHILE

1 WCD Ambassador

- Douglas Pollock
Civil Industrial Engineer, University of Chile

Chile continued

3 Signatories

- Juan Luis Edwards Velasco
- Rafael Muñoz Canessa
- Carlos Varea

Civil engineer in hydraulics, Universidad Católica de Chile, Master in hydraulic engineering, Universidad de Santander, Spain
Part time Academic University of Talca, Economics and strategic management
Energy Engineer



4 SIGNATORIES FROM CHINA

4 Signatories

- Dr. Robert Hanson
- Guang Bao Liu
- Wyss Yim
- NG Young

PhD, BA (Hons), MA, LL.M, PGCE, CPE, Barrister
BSc and MSc in Atmospheric Physics, Author of “The Principle of Periodic Changes in Earth’s Climate”
Retired Professor, Dpt of Earth Sciences, University of Hong Kong, Dept Chairman Climate Change Science Implementation Team
UNESCO year for Planet Earth, Expert Reviewer IPCC AR2
Principal Geoscientist, Danxiashan Global Geopark of China



2 SIGNATORIES FROM COLOMBIA

2 Signatories

- William Antonio Lozano Rivas
- Felipe Villegas

full Professor of Water Management, Water Engineering, Climate and Meteorology, Simulation and Modeling; Piloto de Colombia University
MSc Civil engineer. MBA, Consultant for Energy, Policy and Regulation



1 SIGNATORY FROM COSTA RICA

1 Signatory

- Eugenio G. Araya

Theoretical Physicist, Researcher, former scientist at University of Costa Rica



2 SIGNATORIES FROM CROATIA

1 WCD Ambassador

- Dušan Bižić

MSc, Meteorologist, Head of Radar Centre of the Croation Meteorological and Hydrological Service

1 Signatory

- Zorislav Gerber

MSc, Head of Hail Prevention Support Department, Croatian Meteorological and Hydrological Service



1 SIGNATORY FROM CYPRUS

1 Signatory

- Darko Krstic

editor of <https://philosophyofgoodnews.com/>



18 SIGNATORIES FROM CZECH REPUBLIC

18 Signatories

- Ladislav Bocak
- Pavel Dudr
- Jiri Duspiva
- Marek Eiderna
- Tomas Furst
- Ketil Haarstad
- Václav Hubinger
- Pavel Kalenda

PhD, Professor of Entomology, Czech Advanced Technology and Research Institute
Ing, Independent publicist and climatologist / Pravy prostor, EP Shark/
expert in safety of nuclear installation
Agricultural Engineer and graduated in General Biology
PhD, teacher of mathematics at Palacky University in Olomouc and a proponent of correct, i.e. Bayesian inference
statistics and geology. Retired from Norwegian Institute for Bioresearch NIBIO since 2022.
Retired Ambassador, Anthropologist.
CSc., Coal Expert, private expert firm

Czech Republic continued

- Václav Klaus
- Peter Kopa
- Tomáš Kvítek
- Lubos Motl
- Václav Procházka
- Dr. Milan Šálek
- Ivan Spicka
- Dalibor Štys
- Gary M. Vasey
- Ing. Miroslav Žáček

Former President of the Czech Republic, Professor of Economics, Founder of the Václav Klaus Institute

Lawyer, Writer, Publisher, Founder of thinktanklatam.org

Professor, Faculty of Agriculture and Technology, Department of Applied Ecology, University of South Bohemia in České Budejovice
PhD, former Harvard faculty, high energy theoretical physicist, co-author of the 2009 NIPCC report

PhD, geochemist, also dealing with paleoclimate and the solar energy in Earth crust

PhD, Freelance Meteorologist and Consultant

Professor of Internal Medicine at Charles University with speciality in Hemato-Oncology, Prague

professor of Applied physics, Faculty of Fisheries and Protection of Waters, University of South Bohemia in České Budejovice

PhD, Geology, Managing Partner and Analyst in Commodity Technology Advisory llc

PhD., applied geochemistry, been working on the climate for more than 10 years as a geochemist



15 SIGNATORIES FROM DENMARK

1 WCD Ambassador

- Jens Morten Hansen

PhD, Geology, Professor at Copenhagen University, Former Director General for the Danish National Research Agency and National Research Councils

14 Signatories

- Bjarne Andresen
- Claus Beyer
- Steffen Frederiksen
- Dr. Hans Götzsche
- Frank Hansen
- Niels Harrit
- Sören Kjærsgaard
- Johannes Krüger
- Knud Larsen
- Peter Loch
- Peter Kjær Poulsen
- Steen Rasmussen
- Niels Schrøder
- Pavel Svennerberg

Professor of Physics, Niels Bohr Institute, University of Copenhagen
Geologist, gen.manager for CB-Magneto, possessing palaeomagnetic laboratory

MSc Economics, Climate Economics, Cost benefit analysis of CO2

Emeritus Associate Professor, Linguistics and Philosophy of Science, President Nordic Association of Linguists (NAL), Director, Center for Linguistics, Aalborg University

Emeritus Professor, Department of Mathematics, University of Copenhagen

PhD, Emeritus Associate Professor of Chemistry, Dept. Chemistry, University of Copenhagen

Professional Chemical Engineer

Emeritus Professor, Dr. Scient, Department of Geosciences and Natural Resource Management, University of Copenhagen

PhD, Natural Sciences

Senior Lecturer, Business Academy Aarhus (statistics)

Metering Engineer

Bsc in Electrical Engineering from Denmark Technical University, lifetime career at IBM Denmark Aps

Geophysist/Geologist, Associate Professor Institute of Nature and Environment, Roskilde University

Master of engineering, Technology of oil and gas processing



1 SIGNATORY FROM ECUADOR

1 Signatory

- Fernando Villon

MSc, Industrial Engineer, Lifetime Experience in the Geo-Energy Industry



1 SIGNATORY FROM ESTONIA

1 Signatory

- Andres Saukas

Diploma Electrical Engineer, Estonian Society of Moritz Hermann Jacobi



7 SIGNATORIES FROM FINLAND

7 Signatories

- Merit Enckell
- Christer Kald
- Simo Mykkanen
- Ari Okkonen
- Dr. Antero Ollila
- Simo Ruoho
- Boris Winterhalter

PhD, MSc, former KTH, Royal Institute of Technology, freelance researcher; specialist in Structural Health Monitoring, sustainable development

Engineer with academic studies in Physics, Chemistry and Mathematics

Ba Econ, small business owner, retired

MSc EE, Finland, Climate data analysis enthusiast

Emeritus Adj. Ass. Professor Aalto University, expert in atmospheric modeling

President Ilmastofoorumi ry Finland, Signature of association <https://ilmastofoorumi.fi> including its scientists and professional members

Retired Marine Geology, Geological Survey of Finland



113 SIGNATORIES FROM FRANCE

1 WCD Ambassador

- Benoît Rittaud

Assistant professor of Mathematics at University of Paris-Nord, President of the French Association des climato-réalistes

112 Signatories

- Jean-Charles Abbé
- Pascal Acot
- Bertrand Alliot
- Yacine Amara
- Frédéric Antoine
- Charles Aubourg
- Hervé Azoulay
- Guy Barbey
- Jean-Pierre Bardinet
- Yorik Baunay
- Bernard Beauzamy
- Serge Bellotto
- Guy Bensimon
- Jean-Claude Bernier
- Pierre Beslu†
- Michel Bouillet
- Christian Buson
- Jean-Louis Butré
- Emmanuel Camhi
- Bernard Capai
- John Carr
- Patrick de Casanove

Former Research Director at CNRS, Labs Director (Strasbourg, Nantes) in Radiochemistry, Expert at NATO and IAEA

Centre National de la Recherche Scientifique, Paris

Environmentalist

PhD of Applied Physics, Professor of Electrical Engineering

graduated from Sciences Politiques in France

Full Professor at the University of Pau, Geophysicist

Engineer (CNAM), Specialist of Networks and Systemics, CEO and President of several Associations

Alumnus of Harvard Business School, Retired Investment Banker, Founder and President of 'Climate et Vérité'

Ingénieur ENSEM, Publicist on Climate Issues

Geographer (Master 2) specialized in the natural risk and crisis management, CEO of Ubyrisk Consultants (firm specialized on natural hazard mitigation)

University Professor (Ret.), Chairman and CEO, Société de Calcul Mathématique SA (Paris)

PhD, Geology

Retired Associate Professor of Economics at Institute of Political Studies of Grenoble (SciencesPo Grenoble)

Emeritus Professor (University of Strasbourg), Former Director of the Institute of Chemistry of the CNRS

Former Researcher and Head of Department in the French Nuclear Energy Commission (CEA)

PhD, Human Geography, Emeritus Professor, Former Associate Researcher at the MMSH (Aix-en-Provence)

PhD, Agronomy, Director of Research in a Company (impact studies in Environmental Issues, Sewage Treatment)

Head of Laboratory at Grenoble Nuclear Research Center, President of the Fédération Environnement Durable and the European Platform Against Windfarms

Msc in Physics, life time experience in Complex Systems Modeling and Data Analysis in the Aerospace industry

Retired Chemistry Engineer, Specialist of Industrial Processes avoiding the use of Carcinogenic Solvents

PhD in Physics, Directeur de Recherche CNRS (retired), Particle Physics and Astroparticle Physics

Doctor of Medicine, Chairman of the Cercle Frédéric Bastiat

France continued

- Philippe Catier
Medical Doctor
- Vincent Chaplot
PhD Soil Science, Senior Research Scientist
- Bruno Chaumontet
Engineer ENSEA, specialized in Feedback Systems
- Pascal Chondroyannis
Forest Engineer, Retired Director of the National Alpine Botanical Conservatory (2008-2013)
- Jean Michel Colin
PhD, Retired Chemist Engineer, Expert for the French Academic Evaluation Agency (AERES)
- Philippe Colomban
CNRS Research Emeritus Professor, Former Head of Laboratory at Université Piere-et-Marie Curie, Expert in Hydrogen-based Energy Storage
- Jacques Colombani
Former Research Director ORSTOM-IRD, numerous Studies in Hydrology and Climatology and Specialist in Fluid Mechanics, Member of the Board of ORSTOM for twenty years
- Christian Coppe
PhD, Organic & Analytical Chemistry
- Philippe Costa
Energy Engineer at ENSEM Nancy, specialist in Industrial Process and Energy Saving
- Vincent Courtillot
Geophysicist, Member of the French Academy of Sciences, Former Director of the Institute de Physique du Globe de Paris
- Pierre Darriulat
Professor of Physics, Member of the French Academy of Sciences
- Jean Davy
Engineer (ENSAM), Digital Modeling Software Developer
- Dr. Stephen John Dearden
Retired Research Chemist, lifetime R&D experience in the general chemical, pharmaceutical and photographic industries
- Pierre Delarboulas
CEO of a Robotics Company, Former R&D Director at Partnering Robotics, Silver Medal at the 2016 Lépine contest of the Ministry of Foreign Affairs and International Development
- Jean-Pierre Desmoulins
Retired Professor of Thermal and Energy Engineering at the "Institut Universitaire de Technologie, Université-Grenobles-Alpes"
- Gérard Douhet
PhD, Nuclear Physics, Retired Engineer at CERN, Technical Manager on Digital Transmission and Video Encoding
- Hubert Dulieu
Emeritus Professor Applied Ecology, Formerly Senior Researcher in the CNRS, President of the National Scientific Research Committee, Vegetal Biology Section (XXVII)
- Dr. Denis Dupuy
Urologist, climate realist
- Bruno Durieux
Economist, Former Minister of Health and of Foreign Trade, Ancient Administrator of the French National Institute of Statistics and Economic Studies (INSEE)
- Ralph Ellis
Bsc in Aviation, ATPL
- Max Falque
International Consultant in Environmental Policy
- Serge Ferry
PhD, Retired Teacher-Researcher (MCF), University of Lyon
- Patrick Fischer
Associate Professor in Applied Mathematics, University of Bordeaux
- Michel Frenkiel
Engineer (Arts et Métiers), Former Researcher with NCAR at Boulder
- Francis le Gaillard
PhD, Natural Sciences and Pharmaceutical Sciences, Emeritus Professor of Biochemistry at the Faculty of Pharmaceutical Sciences of Toulouse
- François Gauchenot
Governance Specialist, Founder of Saint George Institute
- Denis Geraads
PhD, Emeritus Directeur de Recherches, CNRS, Paris. Paleontologist and paleoecologist, specialized in Miocene to Pleistocene mammals.
- Jean Gergelé
Engineer Graduate from the Ecole Centrale de Lyon, R&D Director, Freelance Consultant, mainly in the Li-ion battery development
- Christian Gérondeau
Former Advisor of several French Prime Ministers, Formerly responsible for the Road Traffic Safety Policy for France and the European Union
- Francois Gervais
Emeritus Professor of Physics and Material Sciences, University of Tours
- Philippe Giraudin
Ecole Polytechnique Paris, Geographic Sciences
- Bernard Grandchamp
Agronomic Engineer and Environment & Plant Defense Expert, Managing Director of Famos Chateaux Viticoles in Bordeaux
- Gilles Granereau
Former Meteorologist, currently Project Manager Environment and Tourism, Worked on Coastal Risks, Marine Erosion, Sand Dune Fixation, Hydraulics, Forest Management, Botany
- Maximilian Hasler
Associate Professor in Mathematics, University of French West Indies

France continued

- Charles Hazan Retired Chemist (ENSCP) and Chemical Engineer (UMIST) Former Technical Director Nosolor
- Manfred Horst MD, PhD, MBA, lifetime career in healthcare and pharmaceuticals
- Ed Hoskins MSc, Founder of Applied Research of Cambridge
- Julien Iapichella PhD in Chemistry
- Yvon Jarny Emeritus Professor in Thermal and Energy Sciences, Nantes University
- Claude Jobin Retired A&M Engineer specialized in Microwave Communication
- Alan Kennedy Emeritus Professor of Psychology, University of Dundee, Fellow of Royal Society of Edinburgh
- Vladimir Klein lifetime career in renewable energy projects, patent holder in aerobic composting of organic waste
- Alexandre Krivitzky Psychoanalyst, Member of the International Psychoanalytical Association
- Roger Lainé Retired Geological Engineer
- Philippe de Larminat Professor at École Centrale de Nantes, specialist of Business Process Modeling
- Jacques Laurentie Aeronautical Engineer, and CEO of a software publishing company
- René Laversanne Researcher at the CNRS, 16 patents
- Christian Liegeois PhD Physics, patent holder in photonics
- Jean-Marie Longin Engineer (Saint-Cyr), Chief of the Pole Operations of Security Inventory Management
- Guy Lucazeau Emeritus Professor (Institut Polytechnique de Grenoble) in Material Sciences and Spectroscopy
- Philippe Malburet Emeritus Associated Professor of Mathematics, Founder of the Planetarium of Aix-en-Provence, Member of the Academy of Aix-en-Provence
- Christian Marchal Astronomer and Mathematician, Former Research Director at the French National Office for Aerospace Studies and Research
- Dr. Yves G. Maria-Sube PhD in Geosciences Montpellier University, lifetime career in the geo-energy industry
- Paolo Martinengo Applied Physicist, Senior Staff Member in the Experimental Physics Department, Detector Technologies Group, CERN
- Patrick Mellett Architect and CEO
- Marc le Menn PhD, Head of Metrology-Chemistry Oceanography Lab, Brest
- Henri Mertz Ingénieur Civil de l'école de la Métallurgie et des Mines de Nancy, Chef d'Entreprises
- Serge Monier former manager of various multinational companies, at present Co-founder and Treasurer of 'Climat et Vérité'
- Jean-Laurent Monnier Emeritus Research Director, CNRS-Université de Rennes, Research Worker at the CNRS from 1973 to 2013, speciality in Pleistocene Geology in Western Europe
- Jacques-Marie Moranne Retired Engineer (Ecole Centrale de Lille), Specialist in Air and Water Purification, Chemical and Nuclear Engineering
- Serge Morin Emeritus Professor Geography at Université Michel de Montaigne, Bordeaux, Honorary Mayer of Branne
- Cédric Moro Geographer on Natural Hazards Management, Co-Founder of Visov, a NGO in Civil Defense
- Philippe Morvan Engineer ENSTA and Génie Maritime, specialist in Software Development
- Dr. Arnaud Muller-Feuga former researcher in biological oceanography, agronomy engineer, founder of Microphyt SA. Now retired.
- Charles Naville R&D Exploration Geophysicist, IFP Energies Nouvelles
- Massimo Nespolo PhD, Distinguished Professor of Mineralogy and Crystallography, Université de Lorraine, France
- Michel le Normand Emeritus Professor of Botany and Plant Pathology and Chairman of Plant Production Department, National Superior School of Agronomy, Rennes
- Ludovic Penin† former Senior Executive, Chief Information Officer, former Entrepreneur/Investor, Co-founder and Vice-president of 'Climat et Vérité', member of "Association des Climato-réalistes"

France continued

- Dr. Patrice Poyet
Graduated at Ecole des Mines de Paris as a geochemist and defended a D.Sc. (1986) at Nice University / INRIA, author of 'The Rational Climate e-Book'
- Rémy Prud'homme
Emeritus Professor in Economics at University of Paris-Est, Former Deputy-Director, Environment Directorate, OECD
- Jean Marie Ravier
Engineer of ECOLE CENTRALE DE PARIS, and diplomed SCIENCES POLITIQUES PARIS, recently retired MD of small industrial company
- Pierre Richard
Engineer ESPCI Paris, Former Research Geochemist at Institut de Physique du Globe de Paris (IPGP)
- Pierre Ripoche
Engineer INSA in Chemistry, Retired Project Manager in R&D, Expert in High Temperature Plasma for Optical Fiber Process
- Isabell Rivals†
Associate Professor in Statistics at ESPCI Paris
- Bertrand Rouffiange
Doctor of Medicine, specialized in Radiology
- Jean Rouquerol
Emeritus Research Director at CNRS Marseille, Expert in Gas Adsorption and Calorimetry
- Georges de Sablet
Retired Associate Professor at University of Paris Descartes, formerly in charge of Operating Systems and Networks at IUT Paris
- Jorge Julian Sanchez Martinez
PhD in Physics, Msc in Solid State Physics MSc in Maths
- François Simonet
PhD, Biology, Former Director for Planning and Foresight in a State Agency for Water and Aquatic Ecosystems Management
- Zakaria Tarif
Scientific engineer specialized in electrical energy and telecommunications
- Luc C. Tartar
Mathematician, corresponding member of Académie des Sciences in Paris, University Professor of Mathematics emeritus at Carnegie Mellon University, Pittsburgh, PA
- Marcel Terrier
Ex Engineers in Industry, Former Teacher at the Douai School of Mines
- Michel Thizon
Chemical engineer, ACR (Association des Climato-Réalistes, France) member, former researcher at the Ecole Polytechnique, consultant, retired
- David Uzal
PhD philosophy of technics and PhD of practical philosophy
- Etienne Vernaz
Former Director of Research of CEA (Commissariat à l'Énergie Atomique) in France, Professor at INSTN (Institut National des Sciences et Techniques Nucléaires)
- Camille Veyres
Retired Engineer at École des Mines, specialist in Telecommunications and Broadband Networks
- Werner de Ville Vreden
writer ("Afrika"), developer and author
- Brigitte van Vliet-Lanoë
Geoscientist, Emeritus Research Director (CNRS, Université de Bretagne Occidentale), Stratigraphy and Palaeoenvironments, Quaternary and Holocene
- Théa Vogt
Retired CNRS Searcher, Géomorphology, Quaternary Palaeoenvironments, Soil and Desertification Remote Sensing
- Henry Voron
Retired Civil Chief Engineer, specialized in Water Management



120 SIGNATORIES FROM GERMANY

1 WCD Ambassador

- Fritz Vahrenholt
Professor (i.R.) am Institut für Technische und Makromolekulare Chemie der Universität Hamburg

119 Signatories

- Detlef Ahlborn
PhD, Expert on German Energy Transition (Energiewende)
- Prof. Dr. Peter Altmiks
Professor of Economics, FOM Hochschule für Oekonomie und Management Hannover
- Patrick A. Baeuerle
Serial entrepreneur, co-founder of eight biopharmaceutical companies, cancer drug developer, inventor, molecular biologist, and a member of the CO2 Coalition
- Hans-Jürgen Bandelt
Emeritus Professor of Mathematics, University of Hamburg
- Dietrich Bannert
Professor Honoris Causa, University of Marburg
- Graham George Baumber
former agronomist & irrigation crop specialist, business man & investor
- Dr. Lars Birlenbach
Dr. in Chemistry, University of Siegen
- Michael Bockisch
Emeritus Professor Chemistry at the Technical University of Berlin

Germany continued

- Klaus-Dieter Böhme
- Thomas Brey
- Stephan Bujnoch

- Martin Bülow

- Eike-Mattias Bultmann
- Prof. (i.R.) Dr.rer.nat Eberhard Burkel
- Dr. Arthur Chudy
- Dr. Günter Dedié
- Prof. Dr. Hans Demanowski

- Dr. Joachim Dengler

- Dr. Ing. Rolf Diederichs
- Prof. Dr. Klaus D. Döhler†
- Wolf Doleys
- Joerg Dornemann
- Jörg Eichner
- Friedrich-Karl Ewert
- Ludwig E. Feinendegen
- Dr. Dieter Freundlieb

- Gerhard Gerlich†
- Axel Robert Göhring
- Dr. Klaus-Jürgen Goldmann
- Dr. Christian Habermann
- Eberhard Happe
- Hermann Harde

- Prof. Dr. Bernd Hartke

- Manfred Hauptreif
- Dr. Fleck Helmut

- Dennis J. Hendricks

- Dietmar Hildebrand

- Dr. Jens Hofele
- Dr. Andreas Hoppe
- Heinz Hug

- Prof. Axel Janke
- Jörg Jensen
- André Karutz
- Professor Dr. Gerhard Kehrer
- Dr. Udo Kienle
- Werner Kirstein
- Prof. Dr. Knut Kleesiek

- Gunther Klessinger
- Dr. André Knoth
- Dr. Torsten Kreer

- Stefan Kröpelin

- Dr. rer. nat Gunther Kümel

Dipl. Physicist, professional experience in X-ray spectroscopy
 PhD in Natural Sciences (Dr. rer. nat), Marine Ecological Researcher
 Wirtschaftsingenieur (i.e. a combination of economics and engineering), retired manager with the automotive industry
 Emeritus Professor of Physical Chemistry at the Leibniz Sozität der Wissenschaften zu Berlin, e.V.
 Geoscientist
 Prof. (i.R.) Dr.rer.nat , Physics of New Materials, University of Rostock
 Agricultural Chemist, OT Warsaw
 Dipl. Physiker
 Engineer, Professor of Packaging Technology, BHT, Berlin, expert in Counterfeit Protection, holder of several Patents in this field
 Physicist retired, PhD, patent holder in fingerprint analysis, work on relation between CO2 emissions and concentration
 Studie Eisenhüttenkunde in Clausthal-Zellerfeld, climate realist
 Professor of Pharma Sciences, University of Hannover
 Retired teacher (high school, college) and writer (essay, poetry, novel)
 Msc in Geology, lifetime career in the Geo-Energy Industry
 Specialist in situational awareness in crises and risk management
 Emeritus Professor Geology, University of Paderborn
 Emeritus Professor Medicine
 retired senior lecturer Griffith University, School of Humanities, Brisbane, Australia
 Emeritus Professor of Mathematical Physics, TU Braunschweig
 Doctor of Natural Sciences, EIKE e.V.
 worldwide experienced petroleum geologist
 Dr. in Economics, Investment Manager
 Eisenbahningenieur
 Emeritus Professor of Experimental Physics and Materials Science, Helmut Schmidt-University, Hamburg
 Professor in Theoretical Chemistry, Expert Knowledge in Computer Modelling, University of Kiel
 Natural Scientist
 langjährige berufliche Tätigkeit als Projektkoordinator in einer Großforschungseinrichtung
 Graduated Engineer of Environmental Technologies, Technischen Hochschule Ostwestfalen-Lippe, University of Applied Sciences and Arts
 PhD Biophysics and Nuclear Physics, patent holder in fuzzy logic based surveillance, IT expert and development manager
 Chemist, developer of low-carbon cement compositions
 Systems biologist, Institute for Bee Research
 Chemistry, Master (Diplom Chemiker), PhD (Dr. rer. nat.), lecturer at Paul-Ehrlich-Schule (Frankfurt, Germany), Technical College affiliated to the former Hoechst AG
 PhD, professor of evolutionary genomics
 Dipl.-Ing. Interested and committed to environmental issues
 Chemist, Dr. rer. nat. expert in environmental matters
 Retired Physician, Internist and Physiologist
 Agricultural Scientist at University of Hohenheim
 Emeritus Professor of Climatology, University of Leipzig
 Emeritus Professor for Clinical Chemistry and Clinical Biochemistry Ruhr University Bochum
 Physicist, University at Regensburg Germany and Boulder Colorado
 PhD in Economics and Organizational Science
 PhD in physics, 20 years experience in academic research and education, condensed matter physics
 Dr. in Geosciences, Free University of Berlin and University of Cologne (Retired), specialized in Climate Change of the Sahara
 lifetime career in virus research in the natural sciences

Germany continued

- Max Kupillas Dipl.-Ing. Masch.-Bau, retired Prod.Ltr.
- Ulrich Kutschera Professor of Plant Physiology & Evolutionary Biology at the University of Kassel and Visiting Scientist in Stanford USA
- Jobst Landgrebe Scientist and Entrepreneur specialised in Artificial Intelligence and Theory of Science
- Wolfgang Laub Physics (J.W.Goethe University, 1977-1986), Medicine (Physiology-Biomechanics, Max-Planck Institute, 1980-1986), patent holder in different areas
- Michael Limburg Vice-President EIKE (Europäisches Institute für Klima und Energie)
- Dr. rer. nat. Rolf Lindner Chemist
- Martin Lindner PhD in Chemistry, Dipl. in Chemistry, President of the Bürger für Technik
- Dr. Alf Loeffler PhD in Theoretical Physics
- Prof. Dr. Kai van de Loo Dr. rer. oec. Honorarprofessor der THGA und Senior Consultant im Forschungszentrum Nachbergbau
- Dr. Stephan Lorenzen PhD Theoretical Biology, Bioinformatician, worked with nonlinear modelling
- Professor Dr. Knut Löschke studied crystallography, chemistry, physics, mathematics and computer science. Honorary professor at the University of Leipzig, dealt with the energy industry and climate change
- Horst-Joachim Lüdecke Professor of Operations Research (i.R.) HTW of Saarland, Saarbrücken
- Hermann Luyken MSc Chemical Engineering
- Wolfgang Merbach Professor Dr. Agrar. Habil. at Institut für Agrar Ernährungswissenschaften
- Prof. Lothar W. Meyer Emeritus Professor of Material Engineering, Chemnitz University of Technology, Saxony Entrepreneur 'Nordmetall GmbH', Member of the Board of 'Vernunftkraft Niedersachsen'
- Prof. Dr. med. Marcus Moller University Professor of translational Nephrology, RWTH Aachen University, Germany
- Jens Möller graduate economist, climate realist
- Wolfgang Monninger PhD, lifetime career in Petroleum Geology (Exploration, Petrophysics)
- Klaus Morawetz PhD Physics, Professor in Theoretical Physics, Quantum Kinetic Theory, Quantum Statistics
- Werner Mormann Emeritus Professor of Macromolecular Chemistry, Universität Siegen
- Dipl. Phys. Raimund Müller education in physics and thermodynamics, climate realist
- Holger Neulen retired mechanical engineer
- Prof. Dr.rer.nat Dr.med Peter Nielsen retired Biochemist and Physician from the Universital Hospital Hamburg-Eppendorf, medical faculty of the University of Hamburg
- Rainer Olzem Diplom-Geologe, Aachen
- Flo Osrainik Bestselling Author & Journalist
- Hans Penner PhD, Dipl.-Chem. Dr. rer. nat., Linkenheim-Hochstetten
- Lutz Peters Businessman with intensive experience as investor in carbon chemistry
- Dr. Dr. Wätzold Plaum Physicist and YouTuber
- Michael Principato MSc. in Electrical Engineering, specialised in control engineering and modeling
- Dieter Ramcke retired geophysicist
- Siegfried Reiprich Dipl.-Ing. Geoscientist and Oceanography
- Mathias Ricking Dr. rer.nat Geoscience, Environmental Geoscientist
- Andreas Salzman Dr. rer. nat. , Diplom Chemiker
- Prof. Dr. Dieter Schildknecht Professor of theoretical Physics, University of Bielefeld
- Dr. Hendrik Schlesing Environmental Expert and Consultant
- Dr. Martin Schmidt PhD Physics, industrial career of research, development and production of hightec products and subsequently 22 years CEO of Möller-Wedel, a German medical company
- Dr.-Ing. Stefan Schmidt Senior Numerical Modeller of Unsteady Turbulent Flows
- Hans Joerg Schmidt Chemical Engineer and Autor of certain books, explaining atmospheric energy exchange and providing arguments against global warming caused by mankind
- Christoph Schmidt MSc Mathematics, JWG-University Frankfurt

Germany continued

- Dr. Jens-Christoph Schneider
PhD in Isotope Chemistry, life time career in palaeoclimate and atmospheric geochemistry
- Dr. rer. nat. Michael Schnell
Retired Chemist
- Prof. Dr. Dr. Karl-Heinz Schulz
University Hospital Hamburg-Eppendorf, interdisciplinary research in Medicine, Psychology and exercise science (<https://www.researchgate.net/profile/Karl-Heinz-Schulz-2>)
- Thomas Schulze
Thomas Schulze, Dr. phil., Selbständiger Berater und Dozent
- Dipl. Psych. Ulrike Schwan
Professional psychotherapist, psychotherapist look at the IPCC organization
- W.H. Eugen Schwartz
Emeritus Professor of Theoretical Chemistry, Universitaet Siegen
- Dr.-Ing. Christian Singewald
Dipl.-Geologist, PhD Mining Engineering
- Attila Sonal
Dipl.-Ing. der Elektrotechnik, Retired am Technischen Universität Kaiserslautern, Stadtratsmitglied Kaiserslautern, Preisträger Ansaldo Ricerche Price
- Dr. Fritz Sontheimer
Retired Physicist, PhD in Condensed Matter Physics
- Dr. Gerhard Stehlik
PhD Natural Science Physico-Chemiste
- Dr. Wolfgang Strehlau
Phys. Chemist, Technology Fellow in Johnson Matthey Plc, UK
- Lothar Strenge
strategy and concept developer, full time writing on a large SF project
- Manuel Tacanho
founder and president of the Afrindependent Institute
- Matthias Thiermann
Parliamentary adviser in the Bavarian Parliament
- Dr. Holger Thuss
President EIKE Institute
- Dr. Martin Treiber
PhD in Physics, Professorship of Econometrics and Statistics
- Jost Trier
PhD, Retired Experimental Physicist at the Federal Institute in Braunschweig, Dept. of Atomic Physics
- Ralf D. Tscheuschner†
PhD in Physics
- Dr. Stefan Uhlig
Geologist
- Helmut Waniczek
Dr. Dipl. Ing., Scientist, working 40 years in chemical industry
- Ulrich O. Weber
Exploration Geophysicist with lifetime interest in Paleoclimate
- Silvio Weeren
Diplom in Physics, former IBM environmental affairs Germany, former chairs of EM13 and ECMA TC38
- Thomas Weimer
Process Engineer (Dr.-Ing.), worked on CO2 capture from atmosphere and during hydrogen generation
- Toon Weisenborn
PhD in Theoretical Physics, Emeritus scientist
- Carl-Otto Weiss
Emeritus Professor in Non-linear Physics, Advisor to the European Institute for Climate and Energy, Former President of the German Meteorological Institute, Braunschweig
- Roland Wiesendanger
Professor of Experimental Physics, University of Hamburg, Germany
- Dr. Peter Willingmann
Dr. rer.nat
- Lutz Wimmer
MSc Climate- and Environmental Change (Geography)



18 SIGNATORIES FROM GREECE

1 WCD Ambassador

- Dr. G.-Fivos Sargentis
Dr Engineer-Sculptor, Dept. of Water Resources; School of Civil Engineering, National Technical University of Athens

17 Signatories

- Prof. Dr. Stavros Alexandris
Former Professor of Agricultural Meteorology at the Agricultural University of Athens, Dept. of Natural Resources & Agricultural Engineering
- Ioannis Benekos
PhD in Civil and Environmental Engineering, Senior Researcher, Head of the Laboratory on Risk Management and Resilience at the Centre for Research and Technology Hellas
- Costas Fasseas
Emeritus Professor of Plant Anatomy & Electron Microscopy, Department of Crop Science, Agricultural University of Athens
- Anthony Foscolos†
Emeritus Professor of Mineral Resources at the Technical University of Crete, Energy Consultant for the United Nations Development Program (UNDP)
- Chris Fytas
PhD, MSc in Chemistry, Chemist, Lyophilization Scientist
- Christos D. Georgiou
MSc (with Honors) in Biochemistry, PhD in Biology-Biochemistry, Emeritus Professor of Biochemistry

Greece continued

- Dr. Vassilios C. Kelessidis
PhD in Chem. Engineering, former Professor of Petr. Engineering at, Khalifa University Abu-Dhabi, Texas A&M at Qatar, Technical University of Crete Greece
- Dr. Christos J. Kolovos
Independent Energy Consultant, Mining & Metallurgy Engineer, Former Director of Mine Planning & Contractor Works Dept., PPC SA/WMLC, ck-energy.blogspot.com
- Emmanouil Kopanakis
Mechanical Engineer, Teacher at the Environmental Education Center of Karpenisi Germany continued
- Prof. Demetris Koutsoyiannis
Professor Emeritus of Hydrology and Analysis of Hydrosystems at the National Technical University of Athens
- Aristotelis Liakatas
Emeritus Professor of the Agricultural University of Athens on Agrometeorology, Member of the Greek Agricultural Academy
- Prof. Nikos Mamassis
Professor of Engineering Hydrology and Hydrometeorology at the National Technical University of Athens
- Charilaos Markopoulos
MSc in Waste Management
- Spyridon Nikiforos
Economist, MBA
- Dr Miltiadis Nimfopoulos
PhD in Earth, Atmospheric and Environmental Sciences, lifetime career in Applied and Environmental Geochemistry
- Sonia Perez†
PhD, Biology/Immunology, Scientific Coordinator Cancer Immunology and Immunotherapy Center Saint Savas Cancer Hospital, Athens
- Michael Sidiropoulos
Principal Engineer, FortisBC



2 SIGNATORIES FROM GUATEMALA

2 Signatories

- Jorge Chapas
agronomist, environmental economics specialist, writer, spokesman of climate realism and conservative politician.
- Christopher Lingle
PhD Economics Universidad Francisco Marroquín



9 SIGNATORIES FROM HUNGARY

1 WCD Ambassador

- Laszlo Szarka
Geophysicist, O.M.

8 Signatories

- Dr. Dezso Csejtei
retired professor of philosophy at the University of Szeged
- Dr. Endre Fuggerth
lifelong experience in gas-chromatography
- István Héjjas
PhD, Retired R&D Electrical Engineering
- Tom Kauko
PhD Geography, Independent Researcher based in Budapest
- József Király
Chemical Engineer and one of the Authors of the Hungarian site www.klimarealista.hu
- Dr. József Majer
Senior Professor of Ecology and Environment Protection at University of Pecs
- Gábor Simon
MSc Chemical Engineering, University teacher General, Anorganic, Environmental and Analytic Chemistry
- Dr. Gábor Szász
Professor Emeritus, College Professor Dennis Gabor College Department of Economics and Engineering



1 SIGNATORY FROM ICELAND

1 Signatory

- Dr. Helgi Tomasson
PhD in Econometrics/statistics, Estimation and Computation in time-series models



5 SIGNATORIES FROM INDIA

5 Signatories

- Dr. M.M. Ali
MSc in Meteorology and Oceanography with a PhD in Meteorology, Center for Ocean-Atmospheric Prediction Studies, Florida State University, USA

India continued

- Dornadula Chandrasekharam
- Vijay Jayaraj
- Prem raj Pushpakaran
- Sanjeev Sabhlok

retired professor from Indian Institute of Technology Bombay, currently working in Izmir Institute of Technology as TUBITAK Professor working on geothermal energy systems
Research Associate at CO2 Coalition, Contributor to Cornwall Alliance
PhD in BioTechnology, Professor
Economist with focus on Climate and Energy Policy



2 SIGNATORIES FROM INDONESIA

2 Signatories

- Dr. Dr Paul D Giammalvo
- Purwono Wahyudi

PhD, CDT, CCE (#1240), MScPM, MRICS, Senior Technical Advisor, retired
Entrepreneur and informed climate realist



20 SIGNATORIES FROM IRELAND

1 WCD Ambassador

- Jim O'Brien

Founder of the Irish Climate Science Forum, Expert Reviewer of IPCC AR6

19 Signatories

- Tom Baldwin
- dr. Dr Timothy Dunne
- Gerald Fitzgibbon
- David Horgan
- Seamus Hughes
- Mark Gerard Keenan
- Ultan Murphy
- Donal O'Callaghan
- Owen O'Brien
- Patrick L. O'Brien
- J. Philip O'Kane
- Peter O'Neill
- Fintan Ryan
- Christian Schaffalitzky
- Dr. Norman Stewart
- Brian N. Sweeney
- Pat Swords
- Sean Tangney
- David Thompson

Electrical Engineer, Specialist in Power System Security
PhD Psychology, Consultant Clinical Psychologist working in private practice in Dublin
Physical Chemist specializing in Electrochemistry and Thermodynamics
MA (Cambridge), MBA (Harvard), Resource Company Director
BAgricSc, Specialist in Genetics
Former Science Advisor, Department of Energy and Climate Change, U.K., Former Environmental Affairs Officer, United Nations Environment Division, Geneva, Switzerland
BSc (Hons) Chemistry, Industry Science Professional
electrical engineer, retired food industry research scientist
Business Founder and Entrepreneur, MBA, DBA
MSc, MPhil, Senior International Environmental Consultant
Emeritus Professor, School of Engineering, University College Cork
Retired, School of Engineering, University College Dublin, Expert Reviewer of IPCC AR6
Retired Senior Airline Captain, Fellow Royal Aeronautical Society
FIMMM, Founder Institute of Geologists of Ireland, EurGeol
PhD, former astrophysicist and meteorologist
Founding Chairman of Science Foundation Ireland
BE, CEng, FICHEM, PPSE, CEnv, MIEA, Challenger of Over-Reach in Environmental Legislation
Business Entrepreneur, Former Technical Director, CRH plc
BAgricSc, MA, Animal Nutritionist



7 SIGNATORIES FROM ISRAEL

7 Signatories

- Dr. Gaby Avital
- Uriel Cohen
- Prof. Yonatan Dubi
- Yakov Itenberg

PhD in Aerospace, member of the Israeli forum for rational environmentalism
MSc in Computer Science from Technion - Israel Institute of Technology
PhD, Professor of Theoretical Physics and Chemistry at Ben-Gurion University, co-founder of the Israeli Forum For Rational Environmentalism
BSc of Meteorology and Climatology, MSc of Physics Education, 25 years reserve meteorological officer of Israeli Defense Forces Home Front Command

Israel continued

- Micha Klein
PhD, Emeritus Professor, The Department of Geography and Environmental Studies
- Avner Niv
PhD of Solid State Physics, Research scholarship awarded by Ministry of National Infrastructures, Energy and Water Resources. Industrial multidisciplinary experimental researcher
- Nir J. Shaviv
PhD in Physics at the Israel Institute of Technology, Professor of Physics at the Racah Institute at the The Hebrew University of Jerusalem



206 SIGNATORIES FROM ITALY

1 WCD Ambassador

- Alberto Prestinanzi
Professor of Geological Risks at Sapienza University of Rome, former Scientific Editor in Chief of the International Journal IJEGE, Director Research Centre CERI

205 Signatories

- Pietro Agostini
Ingegnere, Associazione Scienziati e Tecnologi per la Ricerca Italiana
- Aldo Aluigi
Nuclear Engineer, Consultant in Power Plants, Cogeneration end District Heating
- Piero Baldecchi
Lettore
- Achille Balduzzi
Geologo, Agip-Eni
- Antonio Ballarin
Fisico, "Chief Artificial Intelligence Officer" della Pubblica amministrazione
- Donato Barone
Ingegnere
- Sergio Bartalucci
Fisico, Presidente Associazione Scienziati e Tecnologi per la Ricerca Italiana
- Giuseppe Basini
Astrofisico, Deputato, Già dirigente di ricerca dell'INFN
- Francesco Battaglia
Professore di Chimica Fisica, Università di Modena, Movimento Galileo 2001
- Marco Benini
Ingegnere idraulico, libero professionista
- Eliseo Bertolasi
Dottore di Ricerca in Antropologia Culturale
- Giorgio Bertucelli
Ingegnere, già Dirigente Industriale, ALDAI
- Alessandro Bettini
Professore Emerito (Fisica) Università di Padova
- Antonio Bianchini
Professore di Astronomia, Università di Padova
- Luciano Biasini
Emeritus Professor of Numerical and Graphic Calculations, Director of the Faculty of Mathematical, Physical and Natural Sciences of the University of Ferrara
- Mariano Bizzarri
PhD, M.D., is Professor of Clinical Pathology in the Department of Experimental Medicine at University Sapienza, Rome
- Paolo Blasi
Professore Emerito (Fisica) e già Rettore dell'Università di Firenze; già Presidente della Conferenza dei Rettori delle Università Italiane
- Enrico Bongiovanni
Dottore Commercialista
- Paolo Bonifazi
Ex Direttore dell'Istituto di Fisica dello Spazio Interplanetario (IFSI) dell'Istituto Nazionale Astrofisica (INAF)
- Roberto Bonucchi
Insegnante in Pensione
- Giampiero Borrielli
Ingegnere
- Gilles Bourgeois
Professional Engineer with 27 experience in applied thermodynamics in oil and gas
- Francesca Bozzano
Professore di Geologia Applicata, Università di Roma La Sapienza, Direttore del Centro di Ricerca Previsione, Prevenzione e Controllo Rischi Geologici (CERI)
- Antonio Brambati
Professore di Sedimentologia, Università di Trieste, Responsabile Progetto Paleoclima-mare del PNRA, già Presidente Commissione Nazionale di Oceanografia
- Gianfranco Brignoli
Geologo
- Marcello Buccolini
Professore di Geomorfologia, Università di Chieti-Pescara
- Paolo Budetta
Professore di Geologia Applicata, Università di Napoli
- Antonio Maria Calabrò
Ingegnere, Ricercatore, Consulente
- Monia Calista
Ricercatore di Geologia Applicata, Università di Chieti-Pescara

Italy continued

- Massimo Canali Associate Professor of Agricultural Economics and Policy, Department of Agriculture and Food Sciences, University of Bologna
- Dr. Andrea Capodaglio PhD, Professor, Environmental Engineering, University of Pavia
- Cristiano Carabella Geologo, Borsista presso l'Università di Chieti
- Peppe Caridi
- Franco Casali Professore di Fisica, Università di Bologna e Accademia delle Scienze di Bologna
- Andrea Casini Lifetime career in electronic engineering and radiocommunications, patent holder in wideband radio signals transmission over fiber optics, Member of The Climate Reality Project
- Giuseppe Cautero MSc in Physics, head of the Instrumentation & Detectors Laboratory, Elettra Synchrotron radiation Source
- Dr. Fausto Cavalli Agronomist, specialisation in meteorology
- Giuliano Ceradelli Ingegnere e Climatologo, ALDAI
- Augusta Vittoria Cerutti Membro del Comitato Glaciologico Italiano
- Franco di Cesare Dirigente, Agip-Eni
- Alessandro Chiaudani PhD, Agronomo, Università di Chieti-Pescara
- Luigi Chilin Dirigente in Pensione
- Claudio Ciani Relazioni Internazionali, Scienza Politica, Università di Roma La Sapienza
- Edoardo Cicali Member of the C.I.R.N (Italian Nuclear Relaunch Committee) and of the "Atoms for peace" association, former employee of a Radiological Medical Center. Currently in the IT sector
- Pino Cippitelli Geologo Agip-Eni
- Carlo Colomba
- Enrico Colombo Chimico, Dirigente Industriale
- Vito Comencini Onorevole, Membro della Camera dei Deputati italiana dal 2018
- Enrico Conti Physicist, Istituto Nazionale di Fisica Nucleare (INFN)
- Ferruccio Cornicello Fotografo e Lettore di Studi sul Clima
- Domenico Corradini Professore di Geologia Storica, Università di Modena
- Carlo del Corso Ingegnere Chimico
- Uberto Crescenti Professore Emerito di Geologia Applicata, Università di Chieti-Pescara, già Magnifico Rettore e Presidente della Società Geologica Italiana
- Fulvio Crisciani Professore di Fluidodinamica Geofisica, Università di Trieste e Istituto Scienze Marine, Cnr, Trieste
- Salvatore Custodero
- Roberto d'Arielli Geologo, Borsista presso l'Università di Chieti
- Francesco Dellacasa Ingegnere, Amministratore di Società nel Settore Energetico
- Alessandro Demontis Perito Chimico Industriale, Tecnico per la Gestione delle Acque e delle Risorse Ambientali, Pomezia
- Gandolfo Dominici PhD in Business Management, Associate Professor of Business Management and Marketing, University of Palermo, Italy
- Serena Doria Ricercatore di Probabilità e Statistica Matematica, Università di Chieti-Pescara
- Carlo Esposito Professore di Rischi Geologici, Università di Roma La Sapienza
- Gianluca Esposito Geologo
- Prof. Stefano Falcinelli PhD, Professor of Chemistry and Materials Technology, Department of Civil and Environmental Engineering, University of Perugia
- Antonio Mario Federico Professore di Geotecnica, Politecnico di Bari
- Aureliano Ferri Vicepresidente Associazione Piceno Tecnologie
- Maurizio Fiorelli Sommelier Professionale, Studioso dell'evoluzione nella Coltivazione delle Vigne
- Mario Floris Professore di Telerilevamento, Università di Padova
- Gianni Fochi Chimico, Ricercatore in Pensione della Scuola Normale Superiore, Giornalista Scientifico
- Sergio Fontanot Ingegnere
- Luigi Fressoia Architetto Urbanista, Perugia
- Mario Gaeta Professore di Vulcanologia, Università di Roma La Sapienza
- Stefano Galli MSc. In Chemical Engineering, retired researcher
- Sabino Gallo Ingegnere Nucleare e Scrittore Scientifico

Italy continued

- Stefano Gallozzi
Degree in Physics, 1st Researcher at the INAF, Italian Institute for Astrophysics, Astronomical Observatory of Rome and president of the Safeguarding Astronomical Sky Foundation
- Giuseppe Gambolati
Fellow della American Geophysical Union, Professore di Metodi Numerici, Università di Padova
- Alessio del Gatto
Liceo Scientifico, Collaboratore Attivita Solare.it
- Rinaldo Genevois
Professore di Geologia Applicata, Università di Padova
- Umberto Gentili
Fisico dell'ENEA, Climatologo per il Progetto Antartide, ora in pensione
- Enrico Ghinato
Perito Fisico
- Mario Giaccio
Professore di Tecnologia ed Economia delle Fonti di Energia, Università di Chieti-Pescara, già Preside della Facoltà di Economia Chimico, Primo Ricercatore ora in pensione da CNR
- Daniela Giannessi
Ingegnere, Amministratore G&G, Roma
- Roberto Grassi
Ricercatore di Geologia Stratigrafica e Paleoclimatologia/
Paleoceanografia, Università di Napoli, già Geologo presso il Servizio Geologico d'Italia
- Roberto Graziano
Agronomo
- Alberto Guidorzi
Professore di Fisica Medica, Università di Cagliari
- Roberto Habel
Physicist
- Nicola Iacovone
Tropical Agronomist and Subtropical Field Biologist, Scientific adviser and consultant in research-projects and learned societies
- Thomas Kukovec
Ingegnere, Presidente di Società Ripristino Impianti Complessi Danneggiati
- Alberto Lagi
PhD in Material Science of the University of Padova, working on next generation PV
- Dr. Francesco Lamberti
Ricercatore IPCF-CNR, Pisa
- Luciano Leporiti
Professore di Impianti Nucleari, Politecnico di Milano
- Carlo Lombardi
Geometra
- Walter Luini
Meteorologo
- Roberto Madrigali
PhD, INFN Senior Researcher, more than 40 years Experience in Research at CERN, Saclay, Dubna and Frascati
- Angelo Maggiora
Emeritus Professor, expert on microelectronics and modelling
- Franco Maloberti
Ingegnere
- Ettore Malpezzi
Geologo, Borsista presso l'Università di Chieti
- Vania Mancinelli
Fisico Nucleare e Giornalista Scientifico, UGIS
- Ludovica Manusardi
Geologo, Centro Ricerca Previsione, Prevenzione e Controllo Rischi Geologici (CERI), Università di Roma La Sapienza
- Luigi Marino
Graduated in Geological Sciences and science author on the Sun and Space Meteorology
- Maurizio Marsigli
Professor Emeritus of University of Florence, Former President of European Turbomachinery Society
- Francesco Martelli
Ingegnere, già Dirigente ENEA
- Alessandro Martelli
Independent Petroleum Geologist, ex-Eni
- Paolo Martini
Professore di Geologia Applicata all'Ingegneria al Territorio ed ai Rischi, Università di Roma "Sapienza"
- Salvatore Martino
Tecnologa, ASTRI Scienza Nazionale *Associazione Scienziati Ricercatori e Tecnologi Italiani (astri@scienzanazionale.it)
- Maria Massullo
Primo ricercatore in Chimica-Fisica, ora in pensione da CNR
- Enrico Matteoli
Former Professor of Applied Chemistry at Politecnico di Torino, Current research: climate issues, ocean chemistry, CO2 dynamic equilibria in seawater and climate cyclic variations.
- Daniele Mazza
Associate Professor of Quaternary Geology and Paleontology and of Archeozoology, University of Florence
- Paul P.A. Mazza
Professore di Interferometria Satellitare, Università di Roma La Sapienza
- Paolo Mazzanti
Professore di Meteorologia e Climatologia, Università di Napoli
- Adriano Mazzarella
Teacher and entrepreneur in the training sector, Fondatore del Website MeteoSincero
- Marcello Mazzoleni
Professore di Tecnologie Ambientali, Università di Roma La Sapienza
- Carlo Merli

Italy continued

- Enrico Miccadei
Professore di Geografia Fisica e Geomorfologia, Università di Chieti-Pescara
- Gabriella Mincione
Professore di Scienze e Tecniche di Medicina di Laboratorio, Università di Chieti-Pescara
- Umberto Minopoli†
Presidente dell'Associazione Italiana Nucleare
- Diego Minuto
MSc Geology, Engineering Geologist, Italy
- Alberto Mirandola
Professore di Energetica Applicata e Presidente Dottorato di Ricerca in Energetica, Università di Padova
- Aurelio Misiti
Professore di Ingegneria sanitaria-Ambientale, Università di Roma La Sapienza, già Preside della Facoltà di Ingegneria, già Presidente del Consiglio Superiore ai Lavori Pubblici
- Maurizio Montuoro
Medico
- Maria Luisa Moriconi
CNR researcher at Institute of Atmospheric Physics (retired) and associate to INAF until 2020
- Renzo Mosetti
Professore di Oceanografia, Università di Trieste, già Direttore del Dipartimento di Oceanografia, Istituto OGS, Trieste
- Prof. Federico A. Nazar
Researcher at Scientific Progress Fund, former Professor at the Pontifical Catholic University of Argentina
- Prof. Rinaldo Nicolich
Emeritus Professor of Applied Geophysics, University of Trieste
- Daniela Novembre
Ricercatore in Georisorse Minerarie e Applicazioni Mineralogichepetrografiche, Università di Chieti-Pescara
- Francesco Oriolo
Professore di Impianti Nucleari, Università di Pisa
- Paolo Emmanuele Orrù
Professore di Geografia Fisica e Geomorfologia, Università di Cagliari
- Sergio Ortolani
Professore di Astronomia e Astrofisica, Università di Padova
- Roberto Pagani
Freelance Geologist
- Alessandro Pagano
Geologist
- Giorgio Paglia
Geologo, Borsista presso l'Università di Chieti
- Massimo Pallotta
Primo Tecnologo, Istituto Nazionale Fisica Nucleare
- Antonio Panebianco
Ingegnere
- Giuliano Panza
Prof. Geophysics – Trieste, Emeritus Hon. Prof. Inst. IGP-CEA – Beijing, LINCEO, EGU Beno Gutenberg medal 2000, Int. Award AGU 2018, Knight OMRI since 2015 – Rome
- Emanuele Paone
BSc.(HONS) Geology, M.Sc Geology, Geologist
- Prof. Andrea Pardini
PhD, University of Florence
- Antonio Pasculli
Ricercatore di Geologia Applicata, Università di Chieti-Pescara
- Ernesto Pedrocchi
Professore Emerito di Energetica, Politecnico di Milano
- Davide Peluzzi
Ambasciatore del Parco Nazionale del Gran Sasso e dei Monti della Laga nel Mondo nel 2017
- Corrado Penna
Docente di Matematica
- Enzo Pennetta
Professore di Scienze Naturali e Divulgatore Scientifico
- Gianni Pettinari
Impiegato Amministrativo, Fondatore del gruppo Facebook: “Falsi allarmismi sul riscaldamento globale”
- Alessandro Pezzoli
Ricercatore universitario e Professore aggregato in Weather Risk Management, Politecnico di Torino e Università di Torino
- Tommaso Piacentini
Professore di Geografia Fisica e Geomorfologia, Università di Chieti-Pescara
- Stefano de Pieri
Ingegnere Energetico e Nucleare
- Paolo M.J. Pilli
Pensionato
- Massimo Pilolli
PhD Physics, Physicist, Meteorologist, Teacher
- Stefano Piotto
PhD in Chemistry, Associate professor in Chemistry at the University of Salerno
- Mirco Poletto
Geologo libero professionista, registered at 'Ordine dei geologi del Veneto'
- Andrea Pomozzi
Presidente Associazione Piceno Tecnologie
- Guido Possa
Ingegnere nucleare, già Viceministro del Ministero dell'Istruzione, Università e Ricerca con delega alla ricerca
- Alfonso Pozio
PhD, Senior Researcher, ENEA CR Casaccia, Rome
- Giorgio Prinzi†
Ingegnere, Direttore responsabile della Rivista “21mo Secolo Scienza e tecnologia”
- Franco Prodi
Professore di Fisica dell'Atmosfera, Università di Ferrara

Italy continued

- Franco Puglia
Ingegnere, Presidente CCC, Milano
- Francesca Quercia
Geologo, Dirigente di Ricerca, Ispra
- Nunzia Radatti
Chimico, Sogin
- Arnaldo Radovix
Geologo, Risk Manager in Derivati Finanziari
- Maurizio Rainisio
Mathematician, Lifetime career in Clinical Development and Epidemiology
- Mario Luigi Rainone
Professore di Geologia Applicata, Università di Chieti-Pescara
- Mario Rampichini
Chimico, Dirigente Industriale in pensione, Consulente
- Arturo Raspini
Geologo, Ricercatore, Istituto di Scienze Marine (ISMAR), Consiglio Nazionale delle Ricerche (CNR), Bologna
- Enzo Reali
MSc, Agricultural and Rural Development Expert
- Marco Ricci
Fisico, Primo Ricercatore, Istituto Nazionale di Fisica Nucleare
- Renato Angelo Ricci
Professore Emerito di Fisica, Università di Padova, già Presidente della Società Italiana di Fisica e della Società Europea di Fisica, Movimento Galileo 2001
- Renzo Riva
Comitato Italiano Rilancio Nucleare (C.I.R.N.), Buja
- PierMarco Romagnoli
Ingegnere, Milano
- Vincenzo Romanello
Ingegnere nucleare, Ricercatore presso il Centro di Ricerca Nucleare di Rez, Repubblica Ceca
- Piergiorgio Rosso
Ingegnere Chimico
- Stefano Rosso
Insegnante di Geografia, Storia e Italiano, Scuola Secondaria, Modena
- Alberto Rota
Ingegnere, Ricercatore presso CISE ed ENEL, Esperto di Energie Rinnovabili
- Ettore Ruberti
Ricercatore ENEA, Docente di Biologia Generale e Molecolare
- Giancarlo Ruocco
Professore di Struttura della Materia, Università di Roma La Sapienza
- Sergio Rusi
Professore di Idrogeologia, Università di Chieti-Pescara
- Massimo Salleolini
Professore di Idrogeologia Applicata e Idrogeologia Ambientale, Università di Siena
- Nicola Scafetta
Professore di Fisica dell'Atmosfera e Oceanografia, Università di Napoli
- Emanuele Scalcione
Responsabile Servizio Agrometeorologico Regionale ALSIA, Basilicata
- Nicola Sciarra
Professore di Geologia Applicata, Università di Chieti-Pescara
- Francesco Sensi
Generale di Divisione Aerea (R)
- Massimo Sepielli
Direttore di Ricerca, ASTRI Scienza Nazionale *Associazione Scienziati Ricercatori e Tecnologi Italiani (astri@scienzanazionale.it)
- Leonello Serva
Geologo, Accademia Europa delle Scienze e delle Arti, Classe V, Scienze Tecnologiche e Ambientali, già Direttore Servizio Geologico d'Italia
- Roberto Simonetti
Geologo, R&D c/o Azienda S.I.I.
- Elio Sindoni
Professore Emerito dell'Università di Milano Bicocca
- Enzo Siviero
Professore di Ponti, Università di Venezia, Rettore dell'Università e-Campus
- Rinaldo Sorgenti
Deputy Chairman of ASSOCARBONI
- Ugo Spezia
Ingegnere, Responsabile Sicurezza Industriale, Sogin, Movimento Galileo 2001
- Luigi Stedile
Geologo, Centro di Ricerca Previsione, Prevenzione e Controllo Rischi Geologici (CERI), Università di Roma La Sapienza
- Emilio Stefani
Professore di Patologia Vegetale, Università di Modena
- Flavio Tabanelli
Fisico
- Maria Grazia Tenti
Geologo
- Umberto Tirelli
Visiting Senior Scientist, Istituto Tumori d'Aviano, Movimento Galileo 2001
- Francesco Torre
Former Associate Professor of Geomorphology at the University of Bologna
- Giorgio Trenta†
Fisico e Medico, Presidente Emerito dell'Associazione Italiana di Radioprotezione Medica, Movimento Galileo 2001
- Riccardo Tucci
agroecology and regenerative expert
- Roberto Vacca
Ingegnere e Scrittore Scientifico
- Gianluca Valensise
Dirigente di Ricerca, Istituto Nazionale di Geofisica e Vulcanologia, Roma
- Prof. Paolo Sebastiano Valvo
PhD - Associate Professor of Solid and Structural Mechanics, University of Pisa

Italy continued

- Corrado Venturini
- Flavio Vetrano
- Mario Visaggio
- Benedetto de Vivo
- Mario Voltaggio
- Andrea Zaccone
- Luigi Zanotto
- Franco Zavatti
- Antonino Zichichi

Professore di Geologia Strutturale, Università di Bologna
Honorary Professor of General Physics, DiSPeA, University Carlo Bo, Urbino
founder of the scientific Facebook page of Klima and science (Klima e scienza)
Professore di Geochimica in Pensione dall'Università di Napoli; ora Professore Straordinario presso Università Telematica Pegaso, Napoli
MSc in Geology, former first researcher CNR IGAG, retired
Geologo, Dirigente Protezione Civile Regione Lombardia
Docente in Pensione
Ricercatore di Astronomia, Università di Bologna
Professore Emerito di Fisica, Università di Bologna, Fondatore e Presidente del Centro di Cultura Scientifica Ettore Majorana di Erice



7 SIGNATORIES FROM JAPAN

7 Signatories

- Takahiko Ban
- Masayuki Hyodo
- Kanzan (KZ) Inoue
- Yoshihiro Muronaka
- Mototaka Nakamura
- Dr. Hiroshi L. Tanaka
- Junji Yamamoto

Ph. D. Chemical Engineering, Associate Professor at Osaka University
Professor of Earth Science, Kobe University, Japan
Ph.D., Physicist & President of Exponential Future LLC
Technical consultant covering energy & environment, Professional Engineer
Atmospheric and Oceanic Scientist (ScD in Meteorology, MIT)
Professor in Atmospheric Science, Centre for Computational Sciences, University of Tsukuba
PhD, Professor of Earth and Planetary Sciences, Kyushu University



1 SIGNATORY FROM KENYA

1 Signatory

- Reginald Oduor

Associate Professor of Philosophy, University of Nairobi, Kenya



1 SIGNATORY FROM KUWAIT

1 Signatory

- Mohammad A. AlKhamis

DVM, MPVM, PhD, Assistant Professor of Epidemiology, Department of Epidemiology and Biostatistics, Faculty of Public Health, Health Sciences Center, Kuwait University



1 SIGNATORY FROM MALAYSIA

1 Signatory

- Christoffel Schoneveld

Earth Scientist and Retired Shell Exploration Geophysicist



1 SIGNATORY FROM MALTA

1 Signatory

- Joseph Attard

Retired Scientist, PhD chemical engineering MSc Electronics Communication



5 SIGNATORIES FROM MEXICO

5 Signatories

- Rubén Coronal Méndez
- Luis Frausto
- Armando Páez
- prof. dr. Rumen Tsonchev
- Victor Manuel Velasco Herrera

Master degree in Applied Economics, Industrial Engineer
Chemical Engineer
PhD, Urbanism, Expert in Sustainability and Energy Transitions
PhD in Physics, Professor at Faculty of Physics, University of Zacatecas
PhD, Space Engineer



1 SIGNATORY FROM NAMIBIA

1 Signatory

- Dr. Simon Idris Beshir Cardiologist, currently involved in Green Project in Kalahari Desert



158 SIGNATORIES FROM NETHERLANDS

2 WCD Ambassadors

- Prof.Dr.Ir. Guus Berkhout Emeritus Professor of Geophysics, Delft University of Technology, Member of the Royal Netherlands Academy of Arts and Sciences
- Dr. C. (Kees) le Pair Physicist, Former CEO Netherlands National Physics & Technology Research Organisations

156 Signatories

- Drs. Jan H. Akkerman MSc Structural Geology (cum laude), specialized in metals exploration and mining, of which 19 years with Billiton and >24 years as director of Akkerman Exploration B.V.
- Maarten van Andel Author of the 'Groene Illusie'
- Tjeerd Andringa MSc in Physics, PhD in Signal Processing, former Associate Professor of Sensory Cognition, Epistemologist
- Jan Asselbergs Mechanical Engineer who started his career with IHC. Since 1990 he is active in revitalizing medium sized companies
- Dries Ausems MSc, Earth Sciences, Lifetime Experience as Geologist in the Geo-Energy Industry
- René Bakers Former Lawyer and Attorney Liability and Insurance
- Dr. Thomas W. Bakker Lifetime Experience in the Geo-energy Industry, Founder and former (or retired) CEO of Well Engineering Partners BV
- Nanda Josina Sofia Bakker -Ait Arrami MSc, MBA
- Robert Becht Lifetime R&D Experience in Water Management with emphasis on water management in East Africa
- Frans van den Beemt Nuclear Physicist, Former Program Director Technology Foundation STW
- Jan Bernard Geologist dredging- and offshore industry and Royal Netherlands Navy Reserve (hydrography)
- Drs. A (Toine) J. A. Beukering Bgen (b.d.), Member of the Provincial Council of Zuid Holland, Member of the Senate (Eerste Kamer) of the Dutch Parliament (the States General)
- Jim van Beusekom Retired Captain B747-400 with KLM, 35 years observational knowledge of the Earth's atmosphere
- Maarten Biesheuvel MSc and PhD Chemical Technology, University of Twente, Senior Scientist Chemical Engineering and Water Technology, Wetsus
- André Bijkerk Retired Officer Royal Dutch Air Force, now Climate Researcher
- Dr. Frans Bijlaard Professor-Emeritus steel constructions, TU Delft
- Dr. Ruud Binnekamp Msc Integral Design and Management, teacher and researcher in design and decision systems at TU Delft
- Harold J. Blaauw PhD in Physics, Secretary of the former Netherlands Energy Research Council, independent consultant (retired)
- Peter Bloemers Emeritus Professor of Biochemistry, Radboud University, Nijmegen
- Albert F.T. de Booij† Founder Speakers Academy Int. BV, Founder and CEO World of Consciousness.com, Co-Founder with Pim Fortuyn of the political party LPF.
- Hans Bouman MSc, Chemistry, Professional in Production Technology and Asset Management
- Dr. Ir. Arnold Bovy retired, former Director Energy Transmission Company MEGALIMBURG
- Ben Braam Msc in Physics, lifetime career in space instrumentation
- Paul M.C. Braat Emeritus Professor of Pulmonary Physics, University of Amsterdam
- Solke Bruin Emeritus Professor of Product-driven Process Technology, University of Eindhoven and Former Member Management Committee Unilever Research, Vlaardingen
- Dr. T.H.L. Claassen Aquatic Ecologist

Netherlands continued

- Prof.Dr. Paul Cliteur
Professor of Legal Sciences, Member of the Senate of The Netherlands
- Albert J.H.G. Cloosterman
Retired Chemical Engineer, Publicist on Climate and Cosmological Matters
- Charles Coleman
former executive Olivetti Group International
- Marcel Crok
Climate Researcher and Science Journalist
- Gerhard Diephuis
MSc, Geosciences, specialized in Geophysics, Lifetime Experience in the Geo-Energy Industry, Guest Lecturer TU Delft
- Henck van Dijk
Sculptor, designer and innovator
- Hessel van Dijk
Organic Chemist
- David E. Dirkse
Former Computer Engineer and Teacher Mathematics
- Dr. Tjibbe Dokter
MBA, Expert in Scenario Analysis and Risk Assessment, retired from AkzoNobel
- Marco Draaisma
ICT Process Coördinator
- Vincent van Driel
MSc Mechanical Engineering TU Delft, Design and Construction of gas / oil processing plants, Retired
- Dr. Jan W. Drukkert†
Emeritus Professor Industrial Design Delft University of Technology, University of Twente and (Visiting Professor) Tsinghua University Beijing,
- Arjan Duiker
Process Technologist at Tata Steel, specialist on Thermodynamics and Fluid Mechanics
- Louw Feenstra
Emeritus Professor Erasmus University and Philosopher, Rotterdam
- Arnold Fellendans
Physics at TU Delft, 40 years at Unilever (retired), www.omdeearde.nl
- Frans Galjee
Mechanical Engineer, Retired Researcher at ECN
- Harold van Garderen
PhD in complexity science/chemistry (TU Eindhoven) and social complexity/narrative scientist (self-employed)
- Jan van Gils
Teacher in Physics
- Ir. Henk Goemans
MSc, Geosciences, specialized in Reservoir Engineering
- Frans H Gortemaker
Former Vice President Unilever Global R&D
- Drs. W.J. Evert van de Graaff
Consulting Geologist, 50+ years Global Experience
- Ton J.T. Grimberg
Oil & Gas Professional, Finance Adviser
- Katharina Grimm
Msc Agroecology and Sustainable Food Systems, Project Leader energy transition at the municipality of Epe
- Dr. Ir. Paul de Groot
Co-founder dGB Earth Sciences
- Ir. Kees de Groot
Former Director Upstream Research Lab. Shell
- Lex A. van Gunsteren
Marine propulsion expert, former director of Corporate Planning and R&D of the Royal Boskalis Westminster Group, former professor of Technology at TU Delft and Erasmus University
- Leo Halvers
Former Director Billiton Research Arnhem and Former Director Technology Foundation STW
- Hans Hamaker
University Degree in Phonetic Sciences, expert in biomechanics of speech, supporter of plasma cosmology, former wireless communication officer
- Maarten Hardon
BSc, Civil Engineering, Lifetime Experience in Offshore Industry, Director Venty BV
- Eduard Harinck†
Former Logistics Expert, Nedlloyd Group/KPMG Consulting
- Drs. Godard Hazeu
MSc, Geosciences, specialized in Geology, past Technical Director of the Dutch State Oil and Gas Company EBN
- Edward Heerema
Msc in Civil Engineering TU Delft, Chairman of Allseas, worldwide active in offshore pipelaying and platform lifting
- J.R. Hetzler†
Retired WUR Engineer Forestry Economics
- Dr. Tom van der Hoeven
Energy Transport Modeling Expert
- Jan Holtrop†
Emeritus Professor of Petroleum Engineering, Delft University of Technology
- J.A.R. Hombroek
MSc, Geoscience, Lifetime Experience in the International Geo-Energy Industry
- Tom Hoornstra
Air-Conditioning Engineer
- Jan Horstink
Earth Scientist, Exploration Projects Oil & Gas ME & FE
- A. Huijser
Physicist and Former CTO Royal Philips Electronics
- Jan de Jager
emeritus professor Geology (VU University Amsterdam, University of Utrecht)

Netherlands continued

- Jan de Jong former director Sampo Industrial Insurance NV, Benelux and Electrorisk Verzekeringsmaatschappij N.V.
- Jan J.C. de Jong Msc Process Engineering TU Delft, expert in energy- and thermal process engineering, lifetime career in the oil and gas industry
- Wouter J. Keller Emeritus Professor of Statistical Methods, Former Member Board of Directors, Central Bureau of Statistics (CBS)
- Jacques van Kerchove Economist and Marketeer, Former CFO Rabobank, now Climate and Environment Researcher
- Henri G. Kerkdijk-Otten Msc History, University of Nijmegen, Founder and Chairman of Restoring Africa's Wildlife Foundation, Founder and former chairman of True Nature Foundation
- Rob de Kok Principal Geophysicist, researching Influence of CO₂ on Atmospheric Temperatures
- Hans Kolmschate Chemical Engineer, University of Twente
- Henk de Koning MSc, former Principal Management Consultant Atos Consulting with specialisation Logistics, IT and Information Security
- Rob Kouffeld† Emeritus Professor of Energy Conversion, Delft University of Technology
- Hans H.J. Labohm Former Expert Reviewer IPCC
- Prof. dr. Cornelis A. de Lange Emeritus Professor of Atmospheric Chemistry and Physics, and Complex Modelling, Former Senator in the Dutch Senate
- Arjan Lenoir MSc Industrial Sciences
- Dr. ir. B.G. Linsen Former Director Unilever Research Vlaardingen
- Jaap M. van Luijk Msc. Petroleum Engineering, lifetime experience in the international geo-energy industry
- PROF. DR. Pieter Lukkes† Emeritus Professor of Economic and Human Geography, University of Groningen
- Ronald Luttkhuizen Studied Physical Geography, retired economist and statistician
- Hugo Matthijssen Former Teacher Meteorology, now Publicist on Climate Matters
- Leo D. Minnigh PhD, retired scientist in structural geology, lecturer/speaker for non-professionals
- Dr. Rob Mooij PhD in Nuclear Physics at University of Utrecht, MS Computer Science at Drexel University, Philadelphia, Retired as Medical Physicist from University of Pennsylvania
- Ir. J.M. Mulderink Former General Director Akzo-Nobel
- Rob Nijssen Radar Engineer and Publicist on Climate Matters
- Rutger van den Noort PhD, advisor in Innovation Processes, CEO Newcalf
- Ir. Peter Oosterling Former Scientist E & P Shell, now active as Climate Researcher
- Daan Osinga Geologist
- Kees Pieters Mathematician, Former Operational Research and ICT manager at Shell
- Robert J. van der Plas MSc Applied Physics, MSc Development Studies, Sustainable Energy Management and Development Specialist
- Reynier Pronk Former IT Manager, Accredited Project Management Consultant and Trainer
- Paul Ras Msc Geophysics TU Delft, Geophysical Consultant, climate realist
- Ir. B. Peter Rauwerda Msc in nuclear engineering, TU Delft
- Louis M.P.T. van den Reek PharmD, Member of 'De Groene Rekenkamer'
- Jan C. Reinoud retired CEO Dutch chain of Supermarkets
- A.G. Reitsma MSc in Social technology, planned change (University of Groningen 1978) Social Technician
- Kees Remi Electrical Engineer, lifetime experience in Energy Distribution and Industrial Automation
- Joseph Reynen Finite Element Modeling Expert, Retired from EU Joint Research Centre in Ispra, Emeritus Associate professor TU Delft
- George T. Robillard Emeritus Professor of Biochemistry and Biophysics
- Jaap Romijn Msc in Civil Engineering TU Delft, lifetime experience in water management projects
- Kees Roos Emeritus Professor of Optimization Technology, Delft University of Technology
- Albertus F. Rooze MSc in Chemistry, mathematics and natural sciences, retired

Netherlands continued

- Robert Sambell
PhD, Physics, Professional Geophysicist
- Rutger van Santen
Emeritus Professor of Anorganic Chemistry and Catalysis, Former Rector Magnificus, Eindhoven University
- Don Schäfer
Former Director Shell Exploration & Production and New Business, Shell
- Juleon Schins
PhD in Molecular Physics, specialist in near infrared spectroscopy
- Dr. Rob Schoevaart
Biocatalist, Co-founder and Managing Director of ChiralVision, being specialised in making chemical processes greener
- Frans Schrijver
Strategy Consultant and Climate Publicist
- Jan Jacob Siepman van den Berg
retired teacher in physics, mathematics, astronomy and phenomenology
- Bert Sigmond
Geologist, Founder of EuGeNe Company in Geothermal Energy
- Hendrick Smit
Chemical Engineer, specialised in Environmental Instrumentation
- Prof.Dr.Ir. Jos de Smit
Emeritus Professor of Stochastic Operations Research and Former Rector Magnificus of the University of Twente
- Barend-Jan Smits
Geologist, Former Director of Wintershall Nederland, BASF Group
- Jack van Soest
BSc, Geography teacher (retired)
- Dr. Engel van Spronsen
PhD in Physics, Lifetime career in Shell as researcher, reservoir engineer, and technical manager. After Shell he also worked for Maersk Oil, IMPaC Engineering, and Eneco
- Chris Stenger
PhD in inorganic chemistry and materials engineering. Lifetime research and development career in Billiton and Shell. .
- Albert Stienstra†
Emeritus Professor of Computer Simulation and Micro-Electronics, Delft University of Technology.
- P.J. Strijkert
Former Member Board of Directors of DSM, Delft
- Dr Hans van Suijdam
Former Executive Vice President Research and Development DSM
- Dick Swart
MSC, worldwide drilling expert, lifetime of experience in the geo-energy industry
- Dr. Harrie C. M. de Swart
Emeritus Professor of Logic and Language Analysis, University of Tilburg, Author of the book 'Philosophical and Mathematical Logic'
- Peter van Toorn
Former Research Geophysicist Shell
- Fred Udo
Emeritus Professor of Nuclear Physics, Vrije Universiteit Brussels
- Ir. Arnold Uijlenhoet
retired Electrical Engineer, TU Delft, Postgraduate at University of Pittsburgh, Lifetime international experience in power generation, transmission, and distribution
- prof. dr. ir. Jan Dirk van Elsas
PhD, Em. Prof .Microbial Ecology, RUG
- Maarten Vasbinder
MD, specialized in prion theories and practice
- J.F. van de Vate
Former Director ECN, Petten, The Netherlands. Former UN Delegate IPCC
- prof. dr. ir. Jan Verheij
Retired Scientist Applied Physics at TNO Delft, Emeritus Professor of Noise Control Engineering at Eindhoven University of Technology
- Hans Verschuur
MSc, Geosciences, specialized in Mining
- Henk Verveer
Ing. Civil Engineering HTS Rotterdam, lifetime experience in maritime infrastructure and building services
- Jannes. J. Verwer
Former Director ECN and Former Chairman Supervisory Board State Owned Radio Active Waste Storage Facilities
- Koen Vogel
Geologist and Geostatistician, lifetime experience in numerical modelling, proficient in evaluating and developing global energy projects
- Henk van der Vorst
Emeritus Professor of Numerical Mathematics, University of Utrecht
- Bart Vos
Msc Petroleum Engineering, Lifetime of Experience in the Geo-energy Industry
- Rob de Vos
Geographer and Editor of "Klimaatgek"
- Henk de Vries
lifetime experience in organised crime, expert in digital forensics
- Jaap van der Vuurst de Vries
Emeritus Professor of Petroleum Engineering, Former Dean Faculty of Applied Earth Sciences, Delft University of Technology
- Dr. Jules de Waart
PhD Physical Geography, Exploration Geologist in Africa, Past member of the Dutch Parliament, author of the book on Climate Change and Energy Transition "Don't believe everything"
- Karel Wakker
Emeritus Professor of Astrodynamics & Geodynamics, Delft University of Technology

Netherlands continued

- Dr. André Wakker
energy expert, lifetime experience in nuclear energy, speaker and writer on energy transition
- Robert N. Walter
MSc E.E., member Advisory Board 'De Groene Rekenkamer'
- Cyril Wentzel
Multi-Physics Engineer and Chairman of Environmental Think Tank 'Groene Rekenkamer'
- Frans A. van der Werf
Owner int. business and IT consulting and AI-firm & project leader St. Milieu & Mens in higher appeal case Milieudéfensie - Shell as independent party
- Bert Weteringe
Author; independent research journalist on energy transition and wind energy.
- Dr. Dolf van Wijk
Retired, formerly AkzoNobel Environmental Research Laboratory and Former Executive Director Cefic-Euro Chlor, Brussels
- Jaap Wijsman
Mechanical Engineer; active in the offshore industry
- Jan Winkel
MSc, Chemical Engineering, specialization in Natural Gas Projects, Lifetime Experience in the Geo-Energy Industry
- Theo te Winkel
Geo Scientist and International Health Care Specialist
- Wim Witteman
Professor of Applied Physics and CO2 lasers, University of Twente
- Dr. Hans Wolkers
PhD in Animal Physiology and Environment, Over 20 years of research experience, incl. Arctic ecotoxicology, Science journalist and university lecturer in 'Writing about Science'
- Theo Wolters
Chairman Environment, Science & Policy Foundation; researcher and speaker on climate and energy
- Govert Zijderveld
MSc Mining Engineering, Consultant for all Drilling, Mining and Naval Engineering activities
- Dr. E.J. (Ed) Zuiderwijk
Retired Astrophysicist and Data Manager
- Diederik Zwager
MSc Petroleum Engineering, CEO Air Drilling Associates



27 SIGNATORIES FROM NEW ZEALAND

1 WCD Ambassador

- Barry Edward Brill
OBE, Previously Minister of Science and Technology

26 Signatories

- Deborah Alexander
Agricultural Scientist
- Jock Allison†
Retired Agricultural Scientist, Ministry of Agriculture
- Mario Barbafiera
MSc Palaeoclimatology, Teacher
- Paul A. Catchpole
Qualified Land Surveyor & Fellow of New Zealand Institute of Surveyors, Retired Ex Commissioner of the New Zealand Environment Court
- Roger High Dewhurst
Retired, Geologist/Hydrogeologist
- Geoffrey. G. Duffy
Professor Emeritus, University of Auckland
- Terry Dunleavy†
MBE, Co-Founder (2006) and Honorary Secretary New Zealand Climate Science Coalition; Former WCD Ambassador
- Doug Edmeades
Managing Director agKnowledge Ltd.
- Joe Fone
CAD Engineer, Enatel Ltd.
- Professor Michael J Kelly
MA, PhD, SCD, MAE, Emeritus Prince Philip Professor of Technology at the University of Cambridge
- Gary Kerkin
Retired Chemical Engineer, Upper Hutt. Executive Member New Zealand Climate Science Coalition
- Roman Leslie
Research specialist in geochemistry of arc-magmatism, magma-wallrock interactions, mineralogy, melt inclusions, SW Pacific tectonics and geodynamics.
- Brian Leyland
Power systems engineer with experience in all forms of renewable energy
- Gerrit J. van der Lingen
Geologist and Paleoclimatologist, New Zealand, Author of the Book The Fable of Stable Climate
- Nima Maleki
MD specialist in family health, Bachelor in science
- Dr. John Maunder
Climate Scientist, President of the WMO Commission for Climatology 1989-1996
- Dr Richard Reaney
Climate Researcher, Post Graduate Qualification in Antarctic Studies, University of Canterbury New Zealand

New Zealand continued

- Darag S. Rennie
 - John Scarry
 - John Sexton
 - David Shelley
 - David Steward
 - Philip Strong
 - Hugh Thorpe
 - Richard Treadgold
 - Ian Wright
- MBChB, Lifetime explorer of truth
ME (Civil), Structural Engineer, Member of the New Zealand Climate Science Coalition
Member of the New Zealand Climate Coalition
Emeritus Associate Professor Geology and latterly Dean of Postgraduate Studies, University of Canterbury, Christchurch
Electronic Engineer, Supporter of truth seeking in climate change
Science Research Leader & Member of the New Zealand Climate Coalition
PhD, Retired Civil Engineer-Scientist.
Executive Member NZ Climate Scienc Coalition, Convenor Climate Conversation Group
Professional Geologist



33 SIGNATORIES FROM NORWAY

2 WCD Ambassadors

- Ivar Giaever
Nobel Laureate Professor, Nobel Prize Winner in Physics, Emeritus Professor of the Rensselaer Polytechnic Institute, Chief Technology Officer of Applied Biophysics Inc., Fellow of the American Physical Society
- Jan-Erik Solheim
Professor Emeritus Astrophysics, University of Tromsø – The Arctic University of Norway

31 Signatories

- Gunnar Abrahamsen
Professor Emeritus Soil Science, University of Life Sciences
- Knut Åm
Retired Geoscientist, adjunct Professor of Geophysics at the University of Bergen, Norway, Honorary member of The Norwegian Academy of Technological Sciences
- Egil Bergsager
MSc of UCLA and University of Oslo, Petroleum Geologist, Director Norwegian Petroleum Directorate, President Rogaland Science Park. Board member of advanced technology companies
- Stein Sorlie Bergsmark
Phycisist, Former Head of Renewable Energy Studies Programmes, University of Agder
- Einar R. Bordewich
multidiscipline Engineering
- Dr. Hans Borge
Associate Professor in Mathematics, University of Stavanger
- Reidar Borgstrøm
Professor Emeritus in Fishbiology and Nature Conservation, University of Life Sciences
- Dr. Erik Bye
Retired Senior Scientist in Physical Chemistry, Crystallography, Chemometrics and Occupational Hygiene
- Ole Henrik Ellestad
Physical Chemist. Former Research Director and Professor in Petrochemistry at the Centre for Industrial Research and University of Oslo
- Jon Gulbrandsen
PhD, Biologist, Associate Professor NOFIMA and NOAA (USA)
- Arve Gleissner Gustavsen
Msc in Cybernetics, Lifelong Experience in Design and Engineering
- Rögvaldur Hannesson
Professor Emeritus, Norwegian School of Economics
- Geir Hasnes
Adjunct Associate Professor, Department of Engineering Cybernetics, Norwegian University of Science and Technology
- Martin Torvald Hovland
Geophysical and Geological Advisor, Former Lecturer at University of Tromsø
- Ole Humlum
Professor Emeritus in Physical Geography, University of Oslo
- Morten Jødal†
Biologist, Former Employee of the Norwegian Research Council and the Centre for the Development and Environment at the University of Oslo Passed away
- Dr. Ing. Hans Konrad Johnsen
Emeritus Professor, Chemistry, Bergen University
- Olav Martin Kvalheim
Professor Emeritus Biology, Norwegian University of Science and Technology
- Arnfinn Langeland
MS Applied Phycs and electronics, PhD Chemical Physics, Prof Applied Physics (Optics) and Biophysics (spectroscopy)
- Mikael Lindgren

Norway continued

- Oddbjørn Melberg
- Willy Nerdal
- Johannes Oraug
- Egil Pedersen
- Elen Roaldset
- Ulf Torgny Rock
- Gjertrud Røyland
- Håkon Gunnar Rueslåtten
- Tom V. Segalstad
- Einar Sletten
- Jørgen Stenersen

Engineer in several large international oil companies with solid experience in building and using numerical simulation models.

Professor of Chemistry, University of Bergen

Landscape Architect, Researcher for 11 years at the Norwegian Institute for Urban and Regional Research

Dr. Eng. and Professor of Technology at UiT The Arctic University of Norway

Emeritus Professor in Geology, University of Oslo, Former Director of Natural History Museum Oslo, Professor at Norwegian University of Science and Technology

Master of Chemical Engineering, Norsk Hydro

Meteorologist with experience in operational forecasting (1997-2007) from the Norwegian Meteorological Institute.

Geological Researcher, Trondheim

Associate Professor Emeritus of Geochemistry, University of Oslo

PhD, Professor in the Dept of Chemistry, University of Bergen

Professor Emeritus Eco-Toxicology, University of Oslo



1 SIGNATORY FROM PARAGUAY

1 Signatory

- Albrecht Glatzle

Retired Director Research of INTTAS (Iniciativa para la Investigación y Transferencia de Tecnología Agraria Sostenible)



2 SIGNATORIES FROM PHILIPPINES

2 Signatories

- Melanchthon Bernil
- Herman Bognot

Professional Chemical Engineer

MA in Philosophy, Assistant Professor, Department of European Languages, University of the Philippines Diliman



5 SIGNATORIES FROM POLAND

5 Signatories

- Marek Boinski
- Zbigniew Gidzinski
- Jaroslaw Grzesik
- Dominik Kolorz
- Karol Pietrak

Chairman of the National Section of Energy Workers' Union NSZZ

Advisor to the Chairman of the Silesian Region of the Solidarity Union for climate policy, former Secretary of the National Energy Security Team of the Chancellery of the President

Chairman of the National Secretariat of Mine and Energy Workers' Union NSZZ

Chairman of the Slasko-Dabrowski Region of NSZZ

Assistant Professor at Warsaw University of Technology, PhD in Power Engineering



11 SIGNATORIES FROM PORTUGAL

1 WCD Ambassador

- Dr. Peter Stallinga

Professor Associado com Agregação, Universidade do Algarve, Portugal, Faculty of Sciences and Technology, Department of Electronic Engineering and Informatics

10 Signatories

- Demétrio Carlos Alves
- José Araújo
- Rui Cruz
- Pieter IJzerman
- Prof. Dr. Igor Khmelinskii

PhD in Spatial Planning; Postgraduate Diploma in Legal Issues of Territorial Planning and Urbanism, Degree in Engineering; Researcher at HTC/UNL.

Environmental Engineer, Airline Pilot.

Pharmaceutical Development Scientist, PhD In Chemical and Biological Engineering (Material Science Focus for Solar Energy Applications)

entrepreneur in modern energy solutions and electric mobility

Aggregate Professor of Physical Chemistry, University of Algarve, discoverer of long-range energy transfer in biological systems

Portugal continued

- Joao Manuel Silva Martins
- Pamela Matlack-Klein
- José Pinto de Sá

- Henrique Sousa

- João José Rodrigues Tilly

retired agrarian researcher

Member of Portuguese Sea Level Project, USA

PhD in Electrical and Computers Engineering, Professor of Power Systems (Electrical and Computers Engineering), Instituto Superior Técnico, Lisbon

Retired electrical engineer and teacher, wind energy expert and energy consultant

Mechanical Engineer and Maths teacher



8 SIGNATORIES FROM RUSSIA

8 Signatories

- Habibullo Abdussamatov

- Prof. Vladimir N. Bashkin

- Pavel Bizyukov

- Gleb I. Evgenev
- Vladimir G. Kossobokov

- Eugene Nagibin

- Henni Ouerdane

- Dr. Michael Petelin

Head of the Space Research Sector of the Sun, Pulkova Observatory RAS and Head of the Lunar Observatory Project on Monitoring of the Climate

Professor in Biogeochemistry, Principal Researcher of the Institute of Physicochemical and Biological problems of Soil Science of RAS, Moscow

PhD in Metallurgical Engineering, faculty member at Moscow State Institute of Steel and Alloys

Professor of Environment, Moscow State Technical University (MADI)

Chief Scientist, Professor, Expert of Russian Academy of Sciences, Foreign Member of Accademia Nazionale delle Scienze detta dei XL (Rome, Italy)

MA in Economics, CIR, Territorial Development and Management Consultant

PhD in Physics, Associate Professor with extensive experience in the physics of energy conversion and the related technologies

Professor of the University of Nizhny Novgorod, head researcher of the Institute of Applied Physics, Nizhny Novgorod



1 SIGNATORY FROM SAUDI ARABIA

1 Signatory

- Christopher M. Fellows

Phd, physical chemist



1 SIGNATORY FROM SERBIA

1 Signatory

- Ivan Stefanovic

Curator of collection, Faculty of Mining and Geology, University of Belgrade



2 SIGNATORIES FROM SINGAPORE

2 Signatories

- Andrew Frazer
- Dr. Lars Schernikau

offshore drilling, earth sciences and renewables

Energy Economist, Entrepreneur & Author



1 SIGNATORY FROM SLOVAKIA

1 Signatory

- Boris Divinsky

MSc, freelance researcher in geography, demography, and migration issues



4 SIGNATORIES FROM SLOVENIA

4 Signatories

- Borut Bohanec

- Tadej Ian

- Ján Lakota

Emeritus Professor of Biotechnology, active to explain major missinterpretations of scientific discoveries

MA, owner of a green-roof business, political publicist/columnist, and expert in international relations

MD, PhD molecular biology

Slovenia continued

- Rafael Mihalič Professor of Electrical Engineering, University of Ljubljana



13 SIGNATORIES FROM SOUTH AFRICA

13 Signatories

- Dr. Henrique J.S. de Barros Pinheiro Geologist, Invited Associate Professor, Universidade Fernando Pessoa, Porto, Portugal
- Prof. Rosemary Falcon Emeritus Professor Clean Coal Technology Research Group at the University of Witwatersrand, Director Fossil Fuel Foundation
- Dennis Shaun Garisch BSc (Civil) Eng, Professional Engineer registered with Engineering Council of South Africa (ECSA), over 30 years of practice, inclusive of many storm water management designs
- Dr. Hans Hofmann-Reinecke nuclear physicist, author of several books "Grün und Dumm", articles and videos on global warming and alternative energies for the general public
- Dr. Rob Jeffrey Economic Risk Consultant: Senior Economist and Managing Consultant, leading expert in energy and electricity
- Dr. Kelvin Kemm PhD, Nuclear Physicist, Chairman: Stratek Global (Pty) Ltd, Pretoria
- Dr. John Ledger Visiting Associate Professor at the University of the Witwatersrand, Energy and Environmental Consultant, Consulting Editor, Freelance Writer, Editor and Lecturer
- Prof. Richard Meissner Associate Professor, Department of Political Sciences, University of South Africa
- Dr. Don Mingay Retired Professor of Nuclear Physics, University of the Witwaterstand. Involved since 1995.
- Professor Martin R. Sharpe PhD from University of Exeter, retired Geologist, Geochemist, Analyst and Field Mapper at University of Pretoria, Founder of geological consulting and exploration companies
- Dr. Grant Son PhD in Natural Science
- Dr. Jacques Theron Retired Veterinarian
- Geert F de Vries Retired physicist / nuclear engineer



2 SIGNATORIES FROM SOUTH KOREA

1 WCD Ambassador

- Dr. Seok Soon Park Professor of Environmental Science and Engineering, Ewha Womans University, Seoul, Founder of the Climate Truth Forum

1 Signatory

- Zonghie Han economist at Daegu University



22 SIGNATORIES FROM SPAIN

1 WCD Ambassador

- Blanca Parga Landa PhD, Modelling Expert, specialist in Environmental Law

21 Signatories

- Bernardo Armero Engineer and Project Leader within Clean Aviation
- Raquel Barquero PhD, lifetime career as nuclear engineer and medical physicist in Valladolid University Clinical Hospital
- Dr. Saúl Blanco Associate Professor of Ecology at the University of León
- Ferran Brunet Professor on the European Economy, Unniversitat Autònoma de Barcelona
- Antonio de la Hoz BSc in in Business and International Economics, activist and expert in economics and political implications of causes and consequences of climate change
- Aitor Ercilla climate historian and computer scientist. Researches the importance of climate change in social processes
- Maria Teresa Estevan Bolea Engineering award 2019 Royal Spanish Academy of Engineering, World Award 2018 In Engineering WFEO, National Prize in Industrial Engineering 2019
- José-Ramón Ferrandis Analyst, Writer, Communicator

Spain continued

- Juan Miguel Gómez Menor Robles PhD in Biology (Botany), High School Head of Department.
- Antonio J. Huertas Engineer with 35 years experience in Energy Politics and Operation, and Environmental Care
- Isabel López García PhD on Chemical Engineering, Assistant Professor of Physical Chemistry and applied Thermodynamics, University of Córdoba
- Alexander Keith Martin PhD Geology and Geophysics, Consultant geologist
- Jose Manuel Miranda Lopez PhD, Professor at the University Santiago de Compostela, Department of Analytical Chemistry, Nutrition and Bromatology
- Antonio Jesús Muñoz Cobo PhD in Environmental Sciences from the University of Jaén, member of the research group Environmental Technologies of the Dept of Chemical, Environmental and Materials Engineering
- Luis Pomar Emeritus Professor of the University of the Balearic Islands, Sedimentologist specialized in the study of Carbonate Rocks which the Impact of CO2 and Paleoclimate
- Alejandro Rodríguez-Gómez Associate Professor, Universitat Politècnica de Catalunya, Barcelona, Spain
- Manuel Jesús Romero Rincón PhD Civil Engineering, Professor at Miguel Hernández University of Elche, Spain CEO at ETRES Consultores
- Manuel M. Sánchez del Pino PhD, Department of Biochemistry and Molecular Biology, University of Valencia
- Javier del Valle Melendo Doctor in Climatology, Professor a Centro Universitario de la Defensa
- Javier Vinós PhD, Scientist and independent climate researcher
- Wynn Williamson co-founder and managing partner of real estate developer BWRE



48 SIGNATORIES FROM SWEDEN

1 WCD Ambassador

- Ingemar Nordin Emeritus Professor Philosophy of Science, Linköping University

47 Signatories

- Michael Andersson Bsc in biology, medical doctor, retired Chief Medical Officer at a battalion of the Swedish Airforce
- Leif Åsbrink PhD, Technology at KTH in Molecular Physics, Stockholm
- Sture Åström MSc, Technology, Professional in Climate Issues, Secretary of the Swedish Network Klimatsans
- Erik Axelkrans MSc in physics and physical oceanography, University of Gothenburg
- Rolf Bergman Emeritus Professor of Physical Chemistry, Uppsala University
- Dr. Lars Bern Member of The Royal Swedish Academy of Sciences, Retired CEO in Incentive AB
- Joakim Blomqvist Sr. Design Manager for design and energy solutions within a larger construction company
- Magnus Cederlöf Software Specialist, Stockholm
- Tore Dalvåg Msc, Physics, Research Engineer in Hydrodynamics and Thermodynamics, Senior Advisor in Environmental Standards, Author of 'CO2 a source of life or a threat'
- Hans Eklund PhD, Technology, Acting Professor at the Department of Laser-and Electro-optics, Chalmers University of Technology, Gothenburg
- Per-Olof Eriksson Physicist, Former CEO of Sandvik Group
- Dr. Anders Flodin PhD, Mechanical Engineering, NC, USA
- Mats Freding MSc Mechatronics Test team leader, environmental and software test.
- David D. Gee† Professor Emeritus Orogen Dynamics, Uppsala University
- Anders Grufman MSE, MA, Economics, Industrial and Environmental Economics
- Jan Hagberg PhD, Statistics, Stockholm
- Björn Hammarskjöld MD, PhD in Biochemistry, Assistant Professor in Pediatrics
- Lars Hässler PhD, Rock and Soil Mechanics, Bsc Chemistry and Biology, Msc Civil Engineering
- Eilif Hensvold PhD, Mathematics, Associate Professor of Mathematics (Retired), Simulation of Large-scale Industrial Systems, Uppsala University, Luleå Technical University
- Gunnar Holmgren PhD, Space Physics, Retired Head of Dept. of Engineering Sciences, Uppsala University

Sweden continued

- Mats Janson
MSc, Electrical Engineering, KTH Royal Institute of Technology, Stockholm
- Hans Jelbring
Climate Researcher
- Göran Johansson
specialist in Energy Systems
- Claes Johnson
Emeritus Professor of Mathematics at Royal Institute of Technology, Stockholm
- Gunnar Juliusson
Professor of Hematology, Lund University, Senior Consultant, Skåne, University Hospital, Lund
- Sten Kaijser
Emeritus Professor of Mathematics, Uppsala University
- Johnny Kronvall
Emeritus Professor in Building Physics, Malmö University and Lund University
- Lars E. Linder
Associate Professor of Medicine, Gothenburg
- Jan Lindström
Senior Medical Physicist, PhD, Former Head of Department of Medical Physics Karolinska, Worked and published in Environmental Science (Harwell UK). Long climate interest.
- Rune Lundgren
MSc, Helsinki University of Technology, Energy System Expert
- Toomas Mathiesen
MD, Retired
- Johan Montelius
Associate Professor of Computer Science at the Royal Institute of Technology, Stockholm
- Jacob Nordangård
PhD, Technology and Social Change at the University of Linköping, Researcher on Climate Change History
- Gabriel Oxenstierna
PhD, retired, currently author for Klimatupplysningen.se
- Gösta Pettersson
Emeritus Professor in Biochemistry, University of Lund
- Marian Radetzki†
Emeritus Professor of Economics, Luleå University of Technology
- Mats Rosengren
Mathematics, Space Flight Trajectory Specialist
- Torsten Sandström
Professor Emeritus, Department of Law, University of Lund
- Rabbe Sjöberg
PhD, Geology, Member of Paleogeophysics & Geodynamics Institute
- Peter Stilbs
Emeritus Professor of Physical Chemistry, Royal Institute of Technology (KTH), Stockholm
- Jan-Olov Strömberg
Emeritus Professor of Mathematics at Royal Institute of Technology, Stockholm
- Lars H. Thylen
Professor emeritus in photonics, Dept. of Applied Physics, Royal Institute of Technology, SE-106 91 Stockholm, Sweden
- Tege Tornvall
Automotive and transport editor and expert. On election committee of association Klimatrealisterna, regular contributor to blog Klimatupplysningen and network Klimatsans
- Gösta Walin†
Professor Emeritus in Oceanography at University of Gothenburg
- Elsa Widding
Consultant, Author on Climate Change, Stockholm
- Lech Wosinski
Researcher Emeritus, Associate Professor, Royal Institute of Technology, Stockholm
- Orjan Wrangé
PhD, Emeritus Professor in molecular Genetics Karolinska Institutet, Stockholm, Sweden



25 SIGNATORIES FROM SWITZERLAND

25 Signatories

- Dr. Denis Bednyagin
researcher specialised in integrated (Energy-Economy-Environment) assessment modelling
- Thomas Binder
Cardiologist and Internist
- Majed Chergui
Emeritus Professor of Chemistry and Physics
- Helmut Elben
PhD in Physics, working as Strategy, Technology and IT Consultant
- Dr. Michael Esfeld
full professor of philosophy of science, University of Lausanne
- Ferruccio Ferroni
Dipl.Ing. ETH, Energy Consultant
- René Funk
Software Engineer, specialized in Analysing Satellite, Sea and Land Temperature
- Werner Furrer
MSc, Mathematics and Physics, President of the Climate Realistic Group in Switzerland
- Robert James Hopkirk
PhD, Energy Consultant, R&D in thermodynamics, heat and mass transfer in engineering, aquatic, atmospheric and geothermal environments
- Christian Jacot
Pharmacist

Switzerland continued

- Fabrizio Jauch
PhD Earth Sciences, Expert for the Swiss Accreditation Service for geotechnical laboratory analysis
- Markus D. Knecht
chemist, 15 years reserach on climate change
- Dr. Johannes Nöggerath
40 years experience in Nuclear Power Engineering, Passionate amateur researcher in realistic climate science for more than 10 years
- Joseph Ongena
Member of the Permanent Monitoring Panel for World Energy, World Federation of Scientists, Geneva
- Jacques Perret-Gentil
Professor of Physics for 40 years and co-author of physics-chemistry books intended for teaching
- Dr. Jean-Claude Pont
Dr. Math., Emeritus Professor of The History of Philosophy of Sciences, University of Genève
- Dr. Franz-Karl Reinhart
Emeritus Professor of Physics, Lausanne
- Claude Roessiger
Entrepreneur and Author of several Books on Organizational Management and Public Policy, Organiser and Chairman of the Portsmouth Conference 2018 on Climate Policies
- Beat Dominic Roth
Owner Filmcompany
- Heinz Schmid
Dipl. Ing. Agr ETH, more than 10 years involvement in climate science and climate communication
- Dr. Ralf Lorenz Schmitt
PhD in Chemistry, Product Manager
- Thomas Stadler
MSc in Physics, ETH Zürich, Geophysics, Specialty in Geothermics
- Ivan Surace
PhD in Geology, Geol Surace I.R.
- Prof. Dr. Eric P. Verrecchia
Professor at the University of Lausanne, Chair of Biogeochemistry at the Institute of Earth Surface Dynamics, expert in terrestrial carbon cycle of the tropical and temperate zones
- Dr. Eric Vieira
(retired), Ph.D (organic chemistry), 27 years at Roche Pharmaceuticals (Principal Scientist)



3 SIGNATORIES FROM TURKEY

3 Signatories

- Prof. Kerem Cankocak
Professor in Particle Physics at Istanbul Technical University, author of more than 200 books in different scientific areas
- Ufuk Coscun
columnist at Milat Newspaper
- Andrew Cullen
Ph.D Geography



2 SIGNATORIES FROM UKRAINE

2 Signatories

- Vsevolod Lozitsky
DrSci, Astronomical Observatory of Taras Shevchenko National University of Kyiv, expert in solar physics, solar activity and magnetic field, and solar-terrestrial connections
- Irina Vasiljeva
CSc, Research Fellow at the Main Astronomical Observatory of National Academy of Science of Ukraine, research interests include solar physics



167 SIGNATORIES FROM UNITED KINGDOM

1 WCD Ambassador

- Christopher The Viscount Monckton of Brenchley
Peer of the Realm and Author of several reviewed papers on Climate

166 Signatories

- Tom Agbabi
PhD, Professional engineer in the energy industry
- Colin Andress
BSc Physics, MSc Astrophysics, MA (Oxon) Classics & Philosophy, Barrister, Fellow of the Royal Astronomical Society
- Neils C. Arveschoug
Geophysicist, Private start-up Oil E&P Company
- Nigel Banks
PhD Geology, Petroleum Geologist
- Andrew P. Barker
Biological Chemist
- John Anthony Barney
Retired Scientist and Technologist
- Nik Bartley
Mechanical Engineer

United Kingdom continued

- Nigel Beckwith professional graduate Podiatrist, Post Grad. in Sports Science, Post Grad. in Science Education
- Alan Belk BSc, Mechanical Engineering, MBA, 40 years with a global Industrial Gases, Chemicals and Energy company
- Simon Bevan BSc Oceanography and Geology, WMO Qualified Meteorological Forecaster
- Roshan Bhunnoo Mathematics and Statistics, former Climate Data Analyst at the Meteorological Office
- Paul Binns Former Research Geoscientist and Climate Researcher
- David Blake BSc Applied Chemistry, Chair of East College Group & CME Futures Trader
- David Bodecott Geologist/Geophysicist, Fellow of the Geological Society of London
- Dr. Richard Booth retired Special Merit mathematician in the UK Civil Service
- D.Q. Bowen† Emeritus Professor of Earth and Ocean Sciences, Fellow International Union for Quaternary Research, Cardiff University
- Dr Phillip A. W. Bratby Physicist, Member of the Institute of Nuclear Engineers, retired energy consultant
- Michael Brown Expert in Large Scale Thermal Fluid Dynamic Models
- Paul Burgess BSc, MSc, C. Eng (retired) Hydro Climate Specialist
- Derrick Byford BSc (Hons) holder of 10 patents, previously Deputy Director Research & Statistics Inner London Education Authority
- Gerry Byron BSc in Physics, MBA which included modules on statistical analysis
- Peter Cale Solicitor, co founder and fund raiser for wave energy research project as Director of Staithe Energy Products (1988 1995)
- George Carey BSc Hons. Physics and Geology, Lifetime Physics teacher and amateur astronomer
- Brian R. Catt Electrical Engineer, Retired, publishing papers on Energy and Climate Change
- Richard Ceen BSc Physical Oceanography with Physics, entrepreneur / engineer in Marine LNG Safety and Weather forecast dependent Optimising Voyage Control Systems
- Arthur Champion retired European Environmental Coordinator and CofE Diocesan Environmental Adviser
- John Church Earth Science Professional, Retired from Energy Sector
- David Coe MA(Oxon) in Physics, lifetime working on gaseous absorption spectroscopy, Lead author of "The Impact of CO₂, H₂O and Other Greenhouse Gases on Equilibrium Earth Temperatures"
- Professor John C.W. Cope Hon Research Associate, University of Bristol
- Dr. Douglas Cormack BSc in Chemistry, Maths, Physics and Microbiology, PhD in Physical Chemistry, Chief at Scientific Civil Service, Founder of the website "The campaign against belief consensus"
- Richard Courtney Retired Material Scientist, Expert Peer Reviewer of the IPCC
- Chas Cowie GDE Mining Engineering, Wits University, Retired IT Professional worked primarily in Mining and Logistics Industries
- David Crabtree retired assistant professor biology
- Dr. David Critchley Senior Clinical Pharmacologist, mathematical modelling of complex systems
- Michael Cross Chemical Engineer
- Peter Cunningham Expert in Mathematical Modelling of Complex Physical Phenomena
- Dr Philip George Davies Principal Lecturer in the Department of Computing and Informatics at Bournemouth University
- Robert Davies BSc Airline pilot
- Isabel Davies Geophysicist and Entrepreneur
- Jeremy Dawson retired Chartered Engineer with a career in the oil and gas industries
- Dr. Keith P. Dawson Environmental and Agricultural Researcher
- John Dewey Emeritus Professor of Geology at the University College Oxford, Distinguished Emeritus Professor University of California,
- Howard Dewhirst FGS, Geologist, Initiator Open Letter to the Geological Society of London
- James Dillon BSc Physics, DPhil Nuclear Physics, Former research physicist
- Gregor Dixon FGS, Geologist, Former Member Geological Society of London

United Kingdom continued

- Peter Dorey BSc Physics, Senior Project Manager, (and unpaid educator & Climate Scientist)
- Tilak Doshi Economist, CO2 Coalition member, ex-Forbes contributor, frequent op-ed contributor (Daily Sceptic, RealClearEnergy, South China Morning Post, etc.)
- Timothy (Tim) C. Duckworth Retired Mechanical Engineer in the Oil & Gas industry, Senior Auditor in Management/Facility/HSE
- Dr. Michael Earle international earth scientist, energy professional, author
- Dr. John S. Easterby Retired Senior Lecturer in Biochemistry University of Liverpool, Research area: Protein chemistry, Enzymology, Metabolic Modelling
- Roderick Paul Eaton MBA FIET MCMI, Retired Consultant Energy Industry Analyst/Management Consultant
- Debra Eddy Entrepreneur and Guest Lecturer in Business Management
- Dr. Andrew Edmonds data scientist with a strong background in AI, past CTO of a publicly traded US tech company, currently CEO of a private US company, ThinkBase LLC
- Peter Etherington-Smith Geologist/Oceanographer, Coral Reef Researcher, MSc Petroleum Engineering (Imperial), life-time international experience in developing countries, retired from BG
- Kevin Foo MSc, DIC, Dip. Met, AusIMM, IOM3, SME, Ch.Eng., President Tianshan Jade (UK) Ltd
- Ashley Francis BSc, FRAS, Geophysicist with expertise in forward and inverse modelling, stochastic modelling and resolution/scale change impacts
- Sean Galbally Project Manager Water and Wastewater Systems
- Gil Gilchrist Geophysicist
- Peter Gill Physicist, Ex Chair Institute of Physics Energy Group, Ex London Branch Chair & Fellow of EI
- Alan Gill Retired Engineer in South Wales
- Paul R. Goddard retired Professor of Radiology, University of the West of England
- John D. Goss-Custard PhD Ecology, University of Aberdeen, Visiting Professor in the Department of Life and Environmental Sciences, Bournemouth University
- Alastair Gray retired geologist, 50 years in oil exploration, production and asset evaluation
- Delphine Gray-Fisk Former airline pilot, and parliamentary candidate for both the UK Independence Party and Brexit Party
- Mick Greenway Research and Development of Flight Control Systems for Modern Civil and Military Aircraft, Retired Head of Research and Development within a Multi-Million-Dollar Company
- David P. Gregg retired Unilever Research group leader and scientist, Author of studies of historical climate time series based on modern spectral analysis techniques
- Brian Gregory MA. in Natural Sciences, MSc. in Business Studies, Lifetime Career in the UK Chemical Industry, currently Policy Director of the Alliance of British Drivers
- Jimmy Haigh Independent Geological Consultant
- Stephen Hardcastle Retired Electronics Engineer, 10 years experience in the design of NDIR gas detectors, for gases including CFC's CO2, CH4 and N2O
- David Hardy Business Owner, Director and Experienced Chemical Engineer. 20+ years in Energy technology development including removal of pollution from conventional fossil fuel power sources
- Tim Harper PhD (Engineering, rock mechanics), CEng., Geomechanics Consultant and Researcher, Recipient of the Royal Academy of Engineering MacRobert Award
- John Harrison Former Chartered Physicist and Chartered Engineer
- Ken Harrison Retired Chartered Physicist
- Peter Harvey Project Manager – Renewable offshore wind industry
- Raymond Hayes BA (Lond) M.Litt (Oxon) FRGS Solicitor Hong Kong and England and Wales
- Alex Henney Formerly London Electricity Board, Consultant on Electricity Matters
- Roger Higgs DPhil (Oxon), Independent Geological Consultant, Geoclastica Ltd.

United Kingdom continued

- Tatiane Melchior Stefanello Hodson BSc Oceanographer, MSc International Public Policy, author of “How to Recognize Totalitarians”.
- Dr. Sinclair Holland MBChB(Edin) Medical Doctor
- Paul Homewood Climate & Energy Policy Analyst
- Keith H. James PhD, Consultant Geologist
- James Barry Jamieson Retired Aeronautical Engineer, Co-author IPCC report 1999
- Anthony Janio PhD in Physics, Independent Elected Councillor in Brighton and Hove
- David A.L. Jenkins Geologist, Director Hurricane Energy plc
- Dr. Chris Jesshope Emeritus Professor University of Amsterdam, Director Techne Consulting Ltd.
- David Jessop C.Eng., M.I.C.E., lifetime career in the water industry
- Robert Jones BSc and PhD Mining Engineering, Director at Warwick Energy
- Stephen Latimer Jones BA Chemistry, IT professional
- Zana Juppenlatz BSc Hons, LLDip, MPhil, MA; Specialist in Environmental Policy & Law, Environmental Impact Assessment & Sustainable Development (Retired)
- Gautam Kalghatgi PhD Aeronautical Engineering, Consultant Professor, 50 Years’ experience in R&D in combustion, fuels and energy
- Gavin Kenny Emeritus Professor of Anaesthesia, Intensive Care and Pain Medicine University of Glasgow
- John L.D. Kerr B.A. (Hons) in Environmental Science & Technology; B.Sc. (Hons) in Chemistry, active as Environmental Consultant
- Stephen King Experienced technically trained chemical engineer with experience in environmental consideration of major petrochemical projects, including technical and economic aspects
- David A. Kirkwood MSc MIET, Professional engineer working in IT, Deputy Chairman of Reform UK Scotland
- Geoffrey W. Lane retired Marine Engineer and Technical Author
- Eur.Ing Colin Leci CO2 and Environmental Specialist
- Roger Longstaff Experimental Space Physicist and Company Director
- Anthony Lowe BSc Hons Polymer Chemistry and Physics, Consultant Polymer Solutions
- Peter Justin Lunt MSc Geology London, adjunct lecturer in geology (stratigraphy) at Universiti Teknologi Petronas and Shandong University of Science and Technology (SDUST) Qiangdao
- Tom Mackay BSc, Geologist, Fellow of the Geological Society (FGS) of London
- Chris MacKenzie MSc, Director and Geological & Environmental Consultant at Peak Minerals Ltd
- Ian Magness Geologist turned treasurer, Since retirement actively involved in the analysis of all aspects of climate change from a sceptical viewpoint
- Stephen Martin retired exploration geophysicist
- Chris Matchette-Downes Geologist and Geochemist, particularly involved in studies about past climates including glaciation
- William James McAuley M.Sc. from Imperial College and an M.B.A. from Lehigh University, retired Chemical Engineer with a 40+ year international career in energy, industrial gas and chemical industries
- Dr. Niall McCrae PhD in Mental Health
- Angela McKay retd Mechanical Engineer in Turbine Generator Industry. Retd Head of Physics St Mary’s 6th Form College, Lancashire
- Dr. Euan Mearns retired, freelance consultant, researcher, blogger and author
- Krov Menuhin Expert on ocean life, underwater filmmaker, professional diver, pilot and writer, explored the Earth’s extremities, experiencing the oceans and the atmosphere first-hand
- Geoffrey Middleton Chartered Architect, Social Science
- Terence Mordaunt Accomplished businessman, Self taught climate scientist mentored by Professor David Bellamy
- Dr. William Morgan Retired Clinician
- Dr. Ian Mortimore BSc, PhD, MB, BS, FRCP, retired Consultant Respiratory Physician in the NHS with research affiliations to Edinburgh and Newcastle Universities

United Kingdom continued

- Philip Mulholland Geoscientist, Life time experience in the Geo-Energy Industry, co-author of the DAET climate model
- Stuart Munro Exploration Geologist and Geophysicist
- Edward Nealon Geologist, Member of the Australian Institute of Mining & Metallurgy
- Alex Nichols BSc Geography, MSc Environmental Assessment, 30 years in sustainability consultancy, programmes and projects
- Blair Nimmo Electronic Engineer, working in Computer Networking and Optical Surface Metrology and Fibre Optics
- Michael John Oates Geologist, Lifetime Experience in the Geo-Energy Industry, Fellow of the Geological Society of London
- Gerard O'Donovan Entrepreneur, Business Owner, career in building international and multinational organisations
- Andrew O'Rourke journalist climate change
- Peter Owen FGS, Fellow of the Geological Society of London
- Jonathan R. Partington Emeritus Professor of Mathematics, University of Leeds
- Dennis Paterson Retired Geologist
- Dr. James Petch Physical Geographer, formerly Reader in Environmental Science at MMU and Head of Distributed Learning at the University of Manchester
- Peter Phillips BSc Hons Mechanical Engineering, lifetime experience in the geo-energy industry
- Graeme Phipps geologist and geophysicist, Jersey Channel Islands
- Dr. James Pindell Geologist, specialised in plate tectonics and palaeographic evolution, Director of Tectonic Analysis Ltd (UK), Adjunct Professor at Rice University (USA)
- Gerry A. Quinn Research Scientist, Ulster University, lifetime career in microbiology, biochemistry and environmentalism
- Clive Randle Geologist, Fellow of the Geological Society of London
- Jonathan Charles Read Honours degree in Physics from the University of Durham, member of the Institute of Physics (MInstP), Fellow of the Chartered Association of Certified Accountants (FCCA)
- Dr. Colin Richard Reeves Emeritus Professor of Operational Research, Coventry University, Expert in Mathematical Modelling
- Ceri Reid PhD Electrical and Electronic Engineering, Sonar Specialist
- Chris Rice BEng(Hons) Engineering & Environmental Science
- Steven Andrew Richards MSc, Retired Chartered Engineer, Retired Lecturer from Portsmouth University and Southampton Solent University
- Michael F. Ridd Geologist, Fellow of the Geological Society of London
- Philip Risby BSc Engineering, Retired environmental consultant, patent holder
- Anthony Robb PhD, Retired Chemist
- Salmaan Saleem Family Medicine Doctor
- Dr. José Sánchez-Morales Doctor in Geology, analysing paleoclimate cycles and software expert
- Richard Saumarez Biomedical Engineer from Imperial College
- Charles Savage BA, BSc, MA (Oxon.) in Chemistry, CEO of CP Pharmaceuticals (Retired)
- Robert M. Schneider MSCE, retired Civil Engineer
- Michael Seymour Geologist, Fellow of the Geological Society of London
- Stephen Silverstein BSc Graduate of Queen Mary University, London, in chemistry with geology
- Mike Sluman Retired teacher with an honours Degree in Environmental Biology
- Dr. Ian Smith MSc Maritime Archaeology, PhD Chemistry
- Mike Stigwood Environmental Researcher
- Leslie Thomson Retired Vice President Operations, BP Exploration, Aberdeen
- Edwin Thwaites Retired Principal Lecturer in Organisational Analysis and Crisis Management, University of Central Lancashire, Predton
- Derek Tipp BSc honours degree in chemistry, former research chemist and retired science teacher, currently councillor on New Forest District Council
- David Todd retired Associate Member of the Institute of Bankers, Post Graduate Certificate in Business and Management
- Paolo Emilio Trevisanutto PhD in Physics, Senior Computational Scientist

- Mark Tucker
BSc of Science Geophysics, Serial Entrepreneur and Scientific Advisor to APPG for Industrial Hemp
- Neil Upton
Retired GP UK
- prof. Anton van der Merwe
MD, PhD, Professor in Molecular Immunology
- Matthew David Waggener
Financial professional, strategic consultant on business investments
- Dr. Glenn K. Wakley
Emeritus Associate Professor Biological Science, Fellow of the Royal Society of Biology and member of The Anatomical Society
- Professor David Wastell
Emeritus Professor of Information Systems at the University of Nottingham
- Paul White
B.Sc. Physics, Durham University, Retired, Former Higher Scientific Officer Marine Climatology
- Philip Linden Wilkes
Life time Experience in Marine Biology
- Jay Willis
Marine Scientist, Associate of the OxNav Group of Oxford University.
- Matt Wood
BSc in Metallurgy & Materials Science, Retired Airline Pilot, Patent holder
- Alison Wright
BSc MSc. Systems Engineer, Energy Policy, Sustainable Development policy.
- Valentina Zharkova
Professor of Mathematics and Astrophysics, Northumbria University, Newcastle upon Tyne
- Ivor Zoefitg
International communications coach specialised in chaodynamics and NLP LP



451 SIGNATORIES FROM UNITED STATES OF AMERICA

2 WCD Ambassadors

- Dr. John F. Clauser
Nobel Laureate Physicist
- Richard Lindzen
Emeritus Professor Atmospheres, Oceans and Climate, MIT, USA

449 Signatories

- Edward Abbott
MD, Retired obstetrician, BSc in math and chemistry
- Paul Berrick Abramson
PhD. in Theoretical (Solid State) Physics, Juris Doctor, Registered Professional Nuclear Engineer
- Dr. Syun-Ichi Akasofu
Professor of Geophysics, Founding Director of the International Arctic Research Center of the University of Alaska Fairbanks from 1998 until 2007
- Ralph B. Alexander
Emeritus Professor of Physics, Science Writer
- Chapel Allen
Geophysical Engineer with 49 years experience in earth science
- Lincoln Anderson
Macroeconomist and Econometric Model Development
- Michael Anderson
BS Chemical Engineering, PhD Information Science, writes about contemporary American politics, including global warming
- Michael Antonetti
P.G., Professional geologist for 35+ years in Pennsylvania with Ms in glacial geomorphology
- Anthony J. Armini
Retired Founder and CEO Implant Sciences Corp.
- Bob Armstrong
MS, mathematical psychophysics
- Nicholas Ashcraft
Materials Science and Engineering, Wright State University. Lifetime career in the oil and gas industry
- Dr. Malgorzata Askanas
Senior R&D Associate at the Aurora Biophysics Research Institute
- Hans-Peter Bähr
Emeritus Professor of Pharmacology, Canada and Former Dean of Basic Medical Sciences, American University of Barbados, Barbados
- George Baker
Emeritus Professor, Applied Science, James Madison University
- Jeffrey Baldwin
petrophysicist and rock physicist specialist
- Lynne Balzer
certification in Biology, Chemistry and Physics, founder of Faraday Science Institute, retired high school teacher (chemistry, physics, biology), adjunct college science professor
- Donna Barr
lifetime career as investigative journalist worldwide
- Dr. Bryan Barrilleaux
MD, Physician of Internal Medicine
- Joe Bastardi
Chief Meteorologist Weatherbell.com, Author: The Climate Chronicles: Inconvenient Revelations you won't hear from Al Gore and others; The Weaponization of Weather in the Phony Climate War
- Captain Walter Bates
Former pilot at United Airline
- Charles G. Battig
Climate Adviser, Heartland Institute

United States of America continued

- Eric Baum
PhD in Theoretical Physics, Princeton University
- Trenin Bayless
PhD in Materials Science, Post-doctoral research in metallurgy, Masters degree in Biomedical Engineering
- Scott Beattie
Juris Doctor Degree (Law), studied history of science for 25 years and climate science for ten years
- James Beilman
ASBOG Licensed Environmental Geologist
- Dr. Ernest Calvin Beisner
Expert on the Ethics and Economics of Climate and Energy Policy, Founder and Spokesman of The Cornwall Alliance for the Stewardship of Creation
- Larry Bell
Endowed Professor of Space Architecture, University of Houston
- Frank X. Bellini
Retired Geologist and Environmental Scientist, 45 years experience in earth science research including flooding studies
- David J. Benard
Chemical Physicist & Co-inventor of the Oxygen-iodine Chemical Laser
- Haym Benaroya
Distinguished Professor of Mechanical and Aerospace Engineering, Rutgers University
- Dr. Shmuel Ben-Shmuel
PhD in Aerospace & Mechanical Engineering, retired aerospace engineer, worked on the Space Shuttle, doing Computational Fluid Dynamics simulations
- Dr. Peter R. Bergethon
retired Professor of Biochemistry, Anatomy & Neurobiology, Biomedical Engineering and Neurology, Boston and Tufts Universities. Inventor of bioelectrochemical energy systems.
- Robin Bernhoft
MD, FACS, FAAEM, retired liver and pancreatic surgeon, retired clinical toxicologist, author of 3 books, 28 peer-reviewed papers
- Edward X. Berry
PhD, Atmospheric Physicist, American Meteorological Society, Author, Climate Physics LLC
- Ronald Berti
lifetime career in the semiconductor industry
- Brent J. Bielema
studied Economics at Northern Illinois University, professional nutritional counselor
- Dr. David L. Black
Clinical and Forensic Toxicologist (Microbiology, Immunology, Pathology, Pharmacology), Vanderbilt University Nashville, adjunct of Department of Medicine Board of Visitors
- Jared L. Black
Numerical Analysis Consultant, ScD
- Thomas Lindsay Blanton
PhD in Tectonophysics, Texas A&M University, Consultant in geomechanics specializing in compaction, subsidence, and lithospheric stress determination
- Elliott D. Bloom
Emeritus Professor of Particle Physics and Astrophysics, KIPAC-SLAG, Stanford University
- David Boleneus
Professional Geologist
- Daniel Botkin
Emeritus Professor of Biology, Climate Researcher, Author of the Book: Twenty-five Myths That Are Destroying the Environment
- Cameron Boyce
Ecologist, 20+ years of experience in ecological restoration, wildland fire, paleo-endemic plant management, wildlife habitat management.
- Dr. Walter Bradley
PhD, Emeritus Professor Mechanical Engineering, Texas A&M University, Baylor University
- Robert L. Bradley jr.
CEO and Founder of the Institute for Energy Research
- David Brand
PhD Biology, Immunology and Biochemistry Scientist since the early 1990's
- Donald Bretches
PhD Physical Organic Chemistry
- Dr. William Briggs
Alumnus Cornell University, Writer and Philosopher
- Daniel Brimhall
MS Extractive Metallurgy, University of Utah, retired Vice President Operations, American Chemet, East Helena, MT, now active as consultant
- Clare Livingston (Bud) Bromley III
BS Natural Sciences, scientific instruments
- Dr. Larry Frank Brown
PhD in Range Plant Ecology (Ecophysiology) from Colorado State University (1974), President of L.F. Brown & Assoc. Inc.
- Joel M.G. Brown
retired petroleum engineer
- James Brucher
technology and business consultant for over 30-years in the telecommunications, transportation, aerospace, software, defense, manufacturing, and biotechnology industries.
- Gerald Brunetto
Retired after lifetime career in engineering & building nuclear & fossil fuel fired steam power plants

United States of America continued

- Clifford Brust
Director of Engineering at Defense Engineering Corporation
- James W. Buell
PhD, Aquatic Biologist, Consultant
- Robert Bugiada
Senior Process Engineer at R.C. Costello & Assoc. Inc
- Frits Buningh
Data Research Specialist
- Bohdan Burban
retired geologist. Field geologist/manager with decades of experience in exploration (minerals & coal), mine development (gold, copper, coal & magnesite) and environmental monitoring .
- Lior Burko
PhD, Theoretical Physicist
- Dr. H. Sterling Burnett
PhD, Applied Philosophy with a specialization in Environmental Ethics, past Senior Fellow of the National Center for Policy Analysis, now Senior Fellow Heartland Institute
- David Burton
System and Computer Scientist, Expert Reviewer of AR5 and AR6, Member of the CO2 Coalition and Creator of the SeaLevel.info website
- Mark Shane Butler
MA in mathematics, lifetime career in data science
- Barry Butterfield
Civil Engineer Retired
- George Buzel
BS and MS Engineering, Physics and Optics
- Roger Caiazza
Pollution Meteorologist, life time experience in the electric generating business, retired Director of the Environmental Energy Alliance of New York
- Ron Cakebread
mechanical engineer with 35 years in the industrial automation business; experience in modeling, simulation, and analysis of very complex systems
- Sharon R. Camp
PhD, Retired Analytical Chemist and Environmental Scientist
- Nick Capaldi
PhD, Author Books on Logic, the Scientific Method and the Philosophy of Science
- John M. Cape
P.E. former military officer and economics instructor at West Point, Licensed Professional Engineer, Energy Consultant - Upstream Oil and Gas, now writing Net Zero themed novels
- John Carr
Electronic Engineer, specialised in antenna and satellite installations
- Marion G. Ceruti
PhD Chemistry, Retired Research Scientist, Space and Naval Warfare Systems Center Pacific
- Dr. Francis Cheng
Professor of Chemistry with specialties in carbon materials, batteries and energy conversion, University of Idaho
- Mitchell R. Childress
Archaeologist and Cultural Resource Environmental Compliance Specialist, Commonwealth Heritage Group
- Prof. Krishnan Chittur
emeritus-professor in chemical engineering and biotech, Univ of ALabama Huntsville, cofounder of medical diagnostics startup (genecapture)
- Terigi Ciccone
Engineer, author of "A Hitchhiker's Journey Through Climate Change," and a proud former Sierra Club member
- Prof. Claudio Cioffi-Revilla
PhD, DSc Pol, Distinguished University Professor Emeritus at George Mason University
- Roy Clark
Climate Researcher, Retired Engineer, California
- Bob Cohen
Certified Consulting Meteorologist (CCM), MS in physical oceanography from Texas A&M University and a BS in meteorology from Penn State University
- Dr. Richard Collingham
PhD in Engineering, Professor for 16 years teaching Graduate Level Heat Transfer and Fluid flow courses
- David Collum
PhD in Chemistry, Professor of Chemistry (organic/organometallic chemistry)
- Sabin W. Colton
PhD, Biochemist and Marine Biologist
- Michael Combs
Major, US Air Force, Retired; Retired Lockheed Missiles and Space Company Environmental Protection Auditor
- Gary Cooke
MSc. Geophysical Sciences, Laboratory analyst and manager, studied sea level curves since the 1980s
- George Copeland
PhD, Electrical Engineering, Computer Architect, Software Architect, Physicist, retired
- Martin Cornell
Retired Senior Scientist, Dow Chemical Company
- David T. Cramer
MS, Instructor of Sociology and Psychology, Pratt Community College

United States of America continued

- Daniel Clyde Cummings M.D. University of Utah School of Medicine, B.A. mathematics, political advocate against all treaties and most legislative proposals to limit use of fossil fuels
- John Curtin Msc in Economics, lifetime experience in strategic planning and forecasting
- Joseph S. D'aleo Professor of Meteorology and Climatology at Lyndon Stage College, Founder of Icecap.us, First Director of meteorology of the Weather Channel
- Raphael D'Alonzo Analytical Chemist, Retired Associate Director, the Proctor & Gamble Company
- Stephen Dartt Retired from 19 years of Chemical Engineering and from 24 years of Teaching Mathematics, Physics, Chemistry & Applied Statistics.
- George Davey Physicist, University of Iowa
- Donn Dears† GE Company Engineer, and Senior Executive, Retired, Author of 'Net-zero Carbon, The Climate Policy Destroying America'
- Ken DeGraaf MSc Engineering Mechanics, Structural Dynamics, Colorado House of Representatives, USAF pilot, Instructor: USAFA AP Calc; weather for pilots, Environmental Manager, Michigan ANG
- James DeMeo PhD, Retired Expert in Earth and Atmospheric Science, Oregon
- David Deming Professor of Arts & Sciences, University of Oklahoma
- Maaneli Derakhshani Ph.D in theoretical physics and philosophy of physics, Postdoctoral researcher in theoretical physics and philosophy of physics at Rutgers University--New Brunswick
- William Robert Detzner retired special education teacher, fighter against the continuing reduction of personal freedom
- David Dilley MSc, Meteorologist-Climatologist-Paleoclimatologist, CEO Global Weather Oscillations Inc.
- M.D. Robert G. Dillon retired physician and astronomist
- Robert G. Dodge Attorney
- Pedro Domingos Emeritus Professor of Computer Science and Engineering, leading AI researcher
- Terry Donze BS-Geological Engineering, Lifetime Career in Geophysical Consulting
- Michael Down Petroleum Engineer, lifetime experience in the geo-energy industry
- Jack D. Downing Geologist and Geophysicist
- Gordon A. Dressler MSc, 36-year professional career as a rocket and spacecraft propulsion engineer, awarded six patents in the field of rocket propulsion
- Paul Driessen Senior Policy Advisor, Committee for a Constructive Tomorrow (CFACT) and Congress of Racial Equality (CORE)
- John Droz jr. Physicist, Founder of AWED Alliance
- Dr. William DuBroff PhD Metallurgy, Former Director of Research Inland Steel, Former Asst. Professor Clemson University
- John Dueker MBA University of Houston, BSEE University of Notre Dame, 45 years of experience in environmental permit compliance
- Murray Duffin BScEE, MBA, former Corporate Vice President for Total Quality and Environmental Management, Retired
- John Dale Dunn MD, JD, Lecturer Carl R. Darnall Army Medical Center, Fort Hood, Texas
- Jack Edwards AI research and development (Retired)
- Stephen Einhorn Autor of Climate Change: What they Rarely Teach in College, 50 years experience in the Chemical Industry including Mergers and Acquisiti, Venture Capital and a Paint Compa
- Guy Ellison Second generation oil and gas explorationist
- Prof. James E. Enstrom PhD, MPH, FFACE, Retired UCLA Research Professor in Epidemiology, President of the Scientific Integrity Institute, Los Angeles
- Kenneth Epperson Nuclear Engineer
- Richard G. Eramian BA in mathematics and physics
- Willis Eschenbach Generalist and Author of many (peer-reviewed) critical Climate Articles with numerous Citations
- Vincent Esposito Adjunct Professor University of Pittsburg, PA, Doctor of Science in Nuclear Engineering (Un. Fo Virginia), Retired Manager from Westinghouse Electric Company

United States of America continued

- Douglas Fairbent Retired Physicist trained in Condensed Matter Theory, PhD (Physics), University of Michigan, 1978
- Dennis Falgout BS chemistry, MSE air pollution measurement, PhD Photochemistry, Consulting environmental engineer
- Peter Farrell Fellow of the US National Academy of Engineering
- Ralph English Fisler professional aerospace engineer
- Edward Patrick Flaherty American lawyer based in Geneva, litigating against the UN, WMO, WIPO and other IOs on behalf of staff members, whistleblowers and injured third parties
- Rex Fleming Research Scientist, Author of Book on Carbon Dioxide Fallacy, Retired President Global Aerospace
- Jim Folcik Geosciences Manager Extraction Oil & Gas
- William Foley BS and MS in Geology, University of Kentucky, 30 plus years in the energy industry, including experience in uncertainty and probability analysis.
- James Forensky B.S.E.E. , M.D. Retired Engineer and Physician
- John Fortier Vice President of Geology/Geophysics
- Dr. Geoffrey Q. Fox Geoffrey Q. Fox, Retired Neuroscientist, PhD in Anatomy and Physiology from the University of California, Berkeley
- Patrick Frank PhD, SLAC National Accelerator Laboratory, Stanford University
- Dr. Neil Frank Lifetime of Experience in Research and Forecasting in Tropical Meteorology, Former Director National Hurricane Center
- Gary Freeman PhD, Water Resources, President, River Research & Design, Inc
- Robert S. (Steve) Friberg Trend Resources LLC, Resources Exploration Geologist with +55 years of experience in the geological sciences field
- Gordon J. Fulks Astrophysicist, Board of Directors CO2 Coalition, Co-founder Global Warming Realists
- S. Fuller Hunt Biology Teacher at Preparatory High School of Mathematics, Science, Technology and Careers, Calabash, North Carolina
- Lynn Warren Funk accelerator physicist, climate realist
- Terry Gannon Physicist, Retired Semiconductor Executive
- Dr. Philip Garrou PhD Chemistry 1974 Indiana Univ. Retired Director of Technology at Dow Chemical's electronics division. Serves DARPA and the DoD as a microelectronics subject matter expert (SME)
- Louis Genevie PhD, Epidemiologist, www.LitStrat.com
- Nicholas de Gennaro PhD, PE, Coastal Engineer, Southport North Carolina
- Prof. Lee C. Gerhard PhD. in Geology, Retired Getty Professor of Geological Engineering from the Colorado School of Mines and Retired Director and State Geologist of the Kansas Geological Survey
- Ulrich H. Gerlach Professor of Mathematics, Ohio State University
- Thomas A. Gilliam PhD, Professor of Accounting, Retired
- Alan Glabe PhD Organic Chemistry, University of California, Retired
- Dr. William Glassco PhD in Medicinal Chemistry, former researcher, currently Instructor
- Curtis Fred Goddard Retired Geologist
- Dr. Indur M. Goklany Science policy advisor in the US Dept of Interior, Co-developed the work plan for the IPCC's 1st, 2nd, 4th Assm. Reports, Expert Reviewer for several IPCC reports
- Dr. J.D. Gold lifetime experience in Clinical Psychology; worked in the frontlines of the war against the madness of terrifying people
- Leo Goldstein MSc in Mathematics, lifetime experience in computer software, computer networks and cyber security. He is also a successful author and start-up founder
- Derek Gordon CEO HTS Engineering
- Timothy W. Gordon Retired USAF/USN Veteran, Independent Researcher
- Steve Goreham Executive Director, Climate Science Coalition of America
- Laurence I. Gould Professor of Physics, University of Hartford, Past Chair, New England Section of the American Physical Society
- Ronald Graham Retired Scientist in Physics, Chemistry and Complex Modeling
- Jim Granato Dean of the Hobby School of Public Affairs, University of Houston, lifetime career in research methodology
- William Griffin Staff Oceanographer US Naval Forces Korea

United States of America continued

- Charles F. Gritzner PhD, Professor Emeritus of Geography, author of the book “Changing Climates” (2010)
- Mike Gruntman Professor of Astronautics and author, Space Physics and Space Technology, University of Southern California
- Thomas Gyrog P.E., Project Manager and Designer of transportation infrastructure projects
- Kenneth Haapala President of the Science and Environmental Policy Project (SEPP), Contributor to the NPCC reports. Energy and Economics Modeler
- Kent Halac BS Mechanical Engineering, Masters Nuclear Engineering, Executive Masters of Technology Management, Commercial Nuclear Power (Carbon Free Energy)
- Stephen Hallin Retired from Atmospheric Science (BA 81 MS 91)
- Dale B. Halling BSEE, MS Physics, JD, Retire Patent Attorney
- Lyle W. Hancock Professional Mathematician
- Kip Hansen Independent Science Research Journalist
- Dr. William Happer Professor Emeritus in the Department of Physics at Princeton University
- Brett T. Harding Materials Scientist in Sustainable Technology, over 20 granted patents in nanoceramics, OLED, photocatalyst, optical devices, and related materials
- Steven Harford PhD chemistry and lifetime career in renewable energy and aerospace research
- Richard Harris PhD, atmospheric physics and chemistry as applied to radiation transport modeling, laser propagation, high power microwave propagation
- Ilana Harrus PhD Physics, MS In Information Systems, Former Senior Research Scientist Senior Research Scientist NASA Goddard Space Flight Center
- Korbi Hart Marketing Director Inland Crude Purchasing
- Peter J. Hatgelakas Masters in Petroleum Engineering, petroleum geologist, geophysicist, and petroleum engineer at Hatgelakas Consulting
- Bryan Haycock PhD, Adjunct Faculty at a University in the state of Utah
- Howard C. Hayden Emeritus Professor of Physics, University of Connecticut
- David Heald Retired Electrical Engineer
- Donald R. Healy BS, Degree in Forest Management from Oregon State University, Participated in Anthony Watts’ first Surface Station Project
- Dennis E. Hedke CEO-Hedke Geoscience Consulting, LLC, presented the 2018 testimony on Seal Level Rise before the Committee on Environmental Protection of the New York City Council
- Tony Heller Geologist, electrical engineer, climate communicator at realclimatescience.com
- Edward G. Helmig Environmental Engineering Professional in the field of Industrial Water Treatment and Environmental Protection
- Oliver Hemmers Retired Executive Director of the Harry Reid Center at the University of Nevada, Las Vegas
- James D. Henry Consulting Geologist, BS Geology, U Texas Austin, 1970, founder of Old Aulacogen, L.P. in 1991
- Glenn C. Hillam Big Data Architect/Scientist
- Gary L. Hoe PE, Retired Colonel USAF, Technical Director of several Nuclear Weapon Effects Tests at the Nevada Test Site, Member Scientists for Accurate Radiation Information (SARI)
- Harald Hoegberg Independent Geologist
- Aaron Hogue PhD, Associate Professor, Department of Biological Sciences, Salisbury University
- Jim Hollingworth Social Scientist, Book: ‘Climate Change: A Convenient Truth’
- Dr. Gary M. Hoover Geophysicist, Lifetime Experience in the Geo-Energy Industry, Retired Member Board of Directors Geo-Service Company
- Christopher Paul Horger lifetime experience in optical network design
- Jerry C Hornbuckle Retired Rocket Scientist
- Walter Horsting Energy Expert, CEO of Global Village Utilities, Large Technology Projects Developer for 4th generation Thorium applications.

United States of America continued

- Captain Thomas C. Houghton USNR (Rtd), Qualified Nuclear Engineering Officer; Sr. Director, Reactor Programs, Nuclear Energy Institute
- J. Stephen Huebner PhD, Retired Research Geologist, U.S. Geological Survey
- Edward Huff PhD, Retired NASA Senior Scientist
- John Hunt MD, pediatrician, former tenured Associate Professor of Pediatrics, medical missionary, patent holder, and writer about contamination of science by politics
- Richard W Hurst PhD, Emeritus Professor of Forensic Environmental Geochemistry and Planetary Sciences, California State University, Los Angeles
- Gamaliel Isaac PhD, Retired senior software engineer of the Department of Radiology of the Hospital of the University of Pennsylvania
- William Ivers PhD Scripps Oceanography, ocean current computer modeler, software designer, entrepreneur, economist, artificial intelligence innovator
- Jim Janota Developing and improving petroleum based Chemicals, Plastics and applications
- James Jaskie Career in renewable energy, over 50 patents in solar cells and other solid-state devices.
- Laurence N. Johnson Lt Col, USAF (Ret), MS in meteorology, MSE in aerospace engineering
- Randy Johnson Retired VP of Engineering and Geoscience Technology at two Fortune 500 independent oil companies
- Stephen Albert Johnston BS Molecular Biology, Phd Genetics, Phd Plant Breeding/Genetics, Postdoc Biochemistry, CEO, CSO Inventor
- John Joyce Climate Narrative Challenger
- Walter Kailey BA Physics with Honors, PhD Astronomy, Physicist, Inventor and high performance Computing Specialist
- Thomas Karr Principal Director of Critical Technology for the Undersecretary of Defense for Research and Engineering(ret.), and MITRE Chief Scientist for Sensing and Directed Energy.
- Kerry Kelly Geology degree, Energy and Environment Professional
- James Kelly PhD Physics, data science executive
- Michael L. Kelly US Navy, BS, Tool Design Engineer (retired)
- Kathryn E. Kelly President Delta Toxicology
- Hugh Kendrick PhD, Retired Director Plans and Analysis, Office of Nuclear Reactor Research, US Dept. of Energy, Fellow American Physical Society
- Robert Kernodle independent researcher in public health issues.
- Kevin T. Kilty Adjunct Prof. Mechanical Engineering at University of Wyoming
- Fred Kinsley Retired Geologist (MSc)
- Kevin Kirchman Editor of the Climate Science Journal, more than a decade in renewable energy engineering
- Floyd Lee Knapp BSc Portland State University, 300 level Geography and Climatology
- Stephen C. Knowles Marine Scientist and Geologist, Beacon, New York
- Kenneth D. Kok retired Nuclear Engineer, ASME Fellow, Past Chair of the ASME Nuclear Engineering Division and the ASME Energy Committee
- Mark Konya P.E., B.S. Ed. Mathematics, B.S. Physics, M.S. Nuclear Engineering, M.A. Physics
- Alex Kozinski Retired Judge on the US Court of Appeals
- Wayne P. Kraus Member American Institute of Chemical Engineers (AIChE)
- Ernest LaFlure Geoscientist and Energy executive for 45 years. Key interests in paleoclimate, climate change and energy policy. Currently a member scientist in the CO2 Coalition.
- Kirk Laird retired Oceanographer and Meteorologist (US Navy), Geologist with US Bureau of Land Management
- Richard Lambert Retired Program Director for the Physical Oceanography Program at NSF: Tropical Ocean/Global Atmosphere (TOGA), and World Ocean Circulation Experiment (WOCE).
- Richard Lang MSc Geophysics
- Prof. Donald Langmuir PhD, Emeritus Professor of Geochemistry, Depts. of Chemistry, Geochemistry, and Environmental Sciences, Colorado School of Mines. Consultant and President of Hydrochem Systems Corp
- Dirk van Leenen Doctorate in Horticulture, Author of 5 books latest title: The Nonsense of Global Warming and Climate Change

United States of America continued

- David R. Legates PhD, Retired Professor of Climatology in the Department of Geography and Spatial Sciences at the University of Delaware, Cornwall Alliance for the Stewardship of Creation
- Jay Lehr† PhD, Senior Policy Analyst for the International Climate Science Coalition, Former Science Director of the Heartland Institute
- David P. Lentini Chemist and Patent Attorney, New Hampshire
- Dr. David H. Lester PhD in Chemical Engineering, Advisor to allaboutenergy.net
- James M. Leverentz Instructor UCI, Manager, California
- Ulf Lindqwister PhD theoretical particle physics, Princeton University, Business executive with 30+ years of industry experience
- Harry Lins PhD, U.S. Geological Survey (Retired), Past-President, Commission for Hydrology, World Meteorological Organization
- Ramon Lopez PhD, Distinguished Professor of Physics, expert in space physics and space weather modeling,
- Howard R. Lowe Prof. Eng., Geologist
- Ronald J. Lukas BS-Physics, PhD-Biophysics; Founder and CEO, Molecular Matters AZ
- Anthony Lupo PhD Atmospheric Science, Professor of Atmospheric Science, University of Missouri
- Dean Lusby IT professional, business owner, Pennsylvania
- James MacNeal 15 United States patents, founding and Managing Partner at Pangaea Gases, LLC
- Frank Madarasz Ph.D. (Ret) Condensed Matter Theoretical Physics
- Michael Maguire Meteorologist/Scientist/Trader at MarketForum
- Jeffrey Mahn Retired Nuclear Engineer Sandia National Laboratories (New Mexico), Member Scientists for Accurate Radiation Information (SARI), Member Nuclear Society (ANS)
- Matt Malkan PhD, Distinguished Professor of Physics and Astronomy, UCLA
- Michael Maller Professor Emeritus of Mathematics, Queens College, CUNY
- John Maney Doctorate in Analytical Chemistry, career in environmental sampling, analysis and data quality
- Wally Manheimer Retired from the US Naval Research Lab and life fellow of APS and IEEE, Author of “Mass Delusions, how they harm sustainable energy, climate policy, fusion and fusion breeding”
- Prof. Paul Manner MD FRCS, Joint Replacement/Hip and Knee Arthritis, Department of Orthopaedics and Sports Medicine, University of Washington
- James A. Marsh Emeritus Professor of Immunology, Cornell University, Dept. of Microbiology and Immunology
- David Martinovich General Science Teacher, grades K-12, United States, China, and Belize
- David Matthews BS Meteorology and Oceanography, MS PhD Atmospheric Sciences, Manager, River Systems and Meteorology Group, Bureau of Reclamation, US Department of the Interior (Retired)
- John Mauer† PhD in Atomic and Molecular Physics, 20 years experience as a physicist, currently business owner in statistical analysis and software
- David Mauriello Geologist, researcher and public speaker against the corruption in science, government and the media
- Kirk Maxey BS Organic Chemistry, MD, President and Founder of Cayman Chemical Inc
- Andy May Writer and Retired Petrophysicist
- Donald May BS, PhD Chemistry, Research Fellow. (Retired)
- Gene McCall Consultant to the Defense Science Board, Former consultant to the Department of Energy on Issues related to Inertial Fusion
- William McCann PhD Seismology, lifetime career in Earthquake Hazard modeling and analysis
- Dr. Neil J. McCarthy Jr. Financial Consultant at N J Mc Carthy & Assoc, PhD in Organic Chemistry Cornell University
- Craig McCluskey PhD, Physics
- Richard McFarland Retired NASA Physicist
- Sean McGrew Analytical Chemist, lifetime career in Chromatography/Mass Spectrometry, applications to semi-volatile organic compounds in the environment

United States of America continued

- Edward P. McMahon PhD, career in remote sensing from spacecraft, and super computing analyses of physical phenomena
- Dr. Michael Meichle PhD in Physics, Research Imaging Scientist
- Mark Meier PhD, Professor of Physics, University of Houston
- Samuel H. Melfi Emeritus Professor of Physics, UMBC, Retired NASA Scientist
- Kenneth Melvin MD, Retired Professor of Medicine, Portland, Oregon
- Dr. Daniel M. Merfeld BSME U Wisconsin-Madison, MSE Princeton, PhD MIT, neuroscientist/ neuroengineer, former Professor at the Harvard Medical School, Professor at the Ohio State University
- Dr. Peter B. Merkle Associate Professor in environmental science and engineering at the School of Engineering at Benedictine College
- Rodney Michael COL, US Army Medical Corps, Retired
- Patrick J. Michaels† Competitive Enterprise Institute, Washington DC
- Michelle Michot Foss PhD, fellow in energy, minerals and materials at Rice University's Baker Institute
- Miodrag Micic PhD Chemistry, Professor of Engineering Design Technology at Cerritos College in Norwalk, California and Life Sciences Marketing Executive
- Edward Mickelson Ph.D., Technology Transfer Professional, Oil & Gas Industry
- Christopher Miller PE, CEM, CBCP, Registered Professional Engineer for the Power and Energy Industry
- Steven Milloy MHS, JD, LLM, Publisher
- Ference M. Miskolczi Retired NASA/AS&M Senior Scientist, Foreign Associate Member of the Hungarian Academy of Sciences
- Michael J Mitchell Mechanical Engineer
- Guy K. Mitchell Jr. graduate mechanical engineer and physicist with extensive research in the field of anthropogenic global warming
- Josh Mitteldorf PhD, theoretical astrophysics, Independent scientist in computer modeling, Visiting scholar at MIT's Department of Earth, Atmospheric, and Planetary Sciences
- Matthias Mixon BBA Degree, University of Mississippi
- Michael Monce PhD in Physics, Emeritus Professor of Physics, Astronomy, and Geophysics, Connecticut College
- Brian Moody Former GET Specialist for SMS Equipment in Ft McMurray
- James Moore Commercial Fisherman, President Alaska Trawlers Association, Executive Committee Northern Southeast Regional Aquaculture Association, Board member Armstrong Keta Inc.
- David Moore PhD Physical Chemistry, Los Alamos Laboratory Fellow, lifetime career in molecular spectroscopy of materials at extreme conditions as well as trace detection of illicit materials
- James R. Morris Geophysical Exploration Oil & Natural Gas
- Thomas L. Moser Retired NASA Senior Executive, Program Manager of the Space Station and Space Shuttle, Founder of the "Right Climate Stuff", a group of former NASA Engineers & Scientists
- Steven Mosher first American social scientist to conduct field research in China, exposed human rights abuses in China's one-child policy.
- David R. Motes Chemical Engineer, lifelong experience in the geo-energy industry
- Steve Mroczkiewicz PhD in entomology, Crop Protection Field Research Scientist, student of climate change and climate policy
- James F. Mundy Retired Meteorologist
- Daniel W Nebert Emeritus Professor of Gene-Environment Science, University of Cincinnati College of Medicine and Cincinnati Children's Hospital, Ohio
- Prof. Eric L. Nelson PhD, Assistant Clinical Professor, Department of Public Health Sciences, University of California
- Gregg Neuendorf Retired Chemical Engineer, Cleveland
- Danny L. Newton Retired from Federal Aviation Administration (FAA), Experience in Working with NOAA with respect to Experimental Weather Data Collection
- Richard Nicholson MD University Of South Alabama 1988, Family Medicine
- Ned Nikolov PhD, Physical Scientist at the USFS Rocky Mountain Research Station in Fort Collins, CO, Managing a Fire-Weather Intelligence Project

United States of America continued

- Paul Noel
Research Scientist (retired)
MSc Earth Sciences
Member American Association of Petroleum Geologists, Washington
- Jesús Ochoa
BME, MSE, MSEE
Retired PE Chemical Engineer, Environmental Engineering,
Environmental Consultant, R&D at DOE Nuclear Facility
- Thomas O'Connor
President of Doctors for Disaster Preparedness
- Sidney Oldberg
MSc & BSc in Geology including study of causes and effects of earth's
climatic history
- Kenton Oma
MSc & PhD in Chemistry, Doctor of Osteopathic Medicine, Former
Chemist & Virologist, Medical Doctor - Retired
- Jane M. Orient
retired Semiconductor Industry Executive
- Tench C. Page
Retired Director of Engineering Research Eastman Chemical Company
PhD in Ceramics, Retired from the Oak Ridge National Laboratory, TN
PhD, Associate Professor at University of Georgia
- Steven Palmieri, Ph.D., D.O.
MSc Physics, Retired Atmospheric Physicist, former U.S. Navy
Meteorologist and Hurricane Hunter, Author of the book: A Tale of
Two Climates—One Real, One Imaginary
- Charlie Pappis
PhD in Physics, Retired Profesor of Biochemistry and Molecular
Biology
- Trueman D. Parish
Senior Vice President of Engineering NAC International (Retired),
Secretary, XLNT Foundation, Board of Directors
- Arvid Pasto
MS, MBA, Founder and CEO of Stratus Aero, LLC an aviation
technology company focusing on aerial directed energy for human
betterment, patents in aerial directed energy.
- Chad M. Paton
Retired Nuclear Engineer Sandia National Laboratories, Independent
Consultant in Nuclear Facility Design and Safety Analysis, Nuclear
Criticality Safety and Weapon Response
- Bill Pekny
retired from radio astrophysics, specialised in calibration and
validation of orbital IR and visible sensors (GOESS, STSS-1 and -2)
- Pawel Penczek
Retired Thoracic Surgeon, Active Public Health Advocate
- Charles W. Pennington
MD, PhD. Ecology and medicine. Author, Wind Turbine Syndrome: A
Report on a Natural Experiment.
- Morgan Perry
BS degree in Meteorology, Lifetime Career in Atmospheric Science
Registered Professional Engineer
- Jeffrey S. Philbin
Retired Aerospace Engineer NASA-JSC
Independent Researcher regarding Energy and Environment
- Dr. Robert B. Phillips
Retired Geologist/Environmental Hydrogeologist
- Richard Phillips
PhD Major in Industrial Engineering with Minor in Materials Science
- Nina Pierpont
PhD in math, PhD in physics, lifetime career in applications of theory
of random processes for analysis and extrapolation of scalar and
multivariate time series
- James Richard Poirier
Management Consultant, Retired Naval Officer in Operational
Intelligence
- James M. Policelli
PhD, Assistant Professor of Nematology, Michigan State University
- Herman A. Pope
PhD in Geochemistry from Yale University... A retiree in Virginia.
- Willem Post
BS in Forest Management, Michael Rath, 55 years in Forest
Management
- Darrell Potter
PhD in science education from Oregon State University, Salem
- Dr. William H. Pound
teacher of physical science at high schools in Malaysia, Liberia, and
various high schools in California, most prominently at Davis Senior
High School.
- Dr. Victor Privalsky
Scientist with degrees from UCLA in Physics (BS) and Engineering
(MSE and PhD), lectured at UCLA and California State University as an
Adjunct Professor
- Kenneth L. Purdy
lifetime experience in the US energy industry in technical research and
development, market development, marketing and consulting
- Dr. Marisol Quintanilla
professional career as a petroleum and petrochemical toxicologist.
- Jilong Rao
Commissioner (Retired), US Nuclear Regulatory Commission
- Michael Rath
Ph.D. in Geomechanics, B.S. in Hydrology, expertise in modeling
complex phenomena under uncertainty
- Brian D. Ray
- Wayne Raymond
- Dr. George Rebane
- Edward A. Reid
- Fred A. Reitman
- Forrest J. Remick
- Dr. Douglas Rigby

United States of America continued

- Anthony Robledo IV MSc, Environmental Scientist, United States Environmental Protection Agency
- David K. Rogers PE, CEG MS, Geological Engineering, Member of the Boards of Consultants for the Federal Energy Regulatory Commission
- Dr. Jennifer Runquist PhD from Northwestern Univ, Evanston IL related to photosynthesis
- Marius Russo IT expert
- James H. Rust Emeritus Professor of Nuclear Engineering, Georgia Institute of Technology
- Ralph Sacrison MSc, lifetime career in earth sciences and engineering
- Rick Sanders MA, Scientists for Accuracy in Radiation Information (SARI), Associate Editor, 21st Century Science and Technology Magazine
- Charles L. Sanders Retired Radiobiologist, Author of Radiobiology and Radiation Hormesis: New Evidence and Its Implications for Medicine and Society (Springer)
- Dr. Steven Saterlie PhD in Physics, Chief Engineer with major corporation and author of numerous technical papers.
- Jeffrey Satinover MD, PhD, research theoretical physicist in unpredictability of complex systems; director of a Sterling Institute neuropsychiatric facility.
- Kent Satterlee Executive Director at Gulf Offshore Research Institute (GORI)
- Dana H. Saylor Sr. a lifelong agriculturalist, retired, article "Living a lifetime of climate change"
- Hans Schantz PhD Physics, Principal Scientist, Geeks and Nerds Corporation, physicist, author, and inventor on over forty patents
- John Schell BS Marine Biology, PhD Toxicology, Toxicologist who has participated in the assessment of environmental impacts of chemical releases
- Jesse Schilling Certified Management Accountant
- Mike Schimmelpfennig Degreed Mining Engineer with more than 40 years of experience
- Brian Schmidt Co-Founder and Chief Visionary Officer of Primary Ocean Aquaculture division and Primary Bio Agriculture - Agriculture division
- Harold Grant Scoggins retired IT professional
- John Seater PhD, Emeritus Professor of Economics, North Carolina State University
- Mark W. Sellers PhD Systems Science, Modeling and Analysis of Complex Systems
- Edwin T. Sewall Retired BS Electrical Engineering, Southern Methodist University 1960 Dallas Texas
- John A. Shanahan Civil Engineer with Career in Nuclear Power, Public Education about Fossil Fuels including question of man-made Global Warming and Nuclear Power through Website: allaboutenergy.net
- William Sharp PhD Applied Science, Retired.
- Roscoe M. Shaw meteorologist and portfolio manager
- Dr. Thomas P. Sheahen PhD in Physics at MIT, Chairman, Science & Environmental Policy Project, involved in energy-related research for 45 years
- Dr. Roger Sheley Ecologist, USDA-Agricultural Research Service; Editor-in-Chief of the international journal-Rangeland Ecology and Management
- John D. Sheppard MD, MMSc, FACS, Professor of Ophthalmology, Microbiology & Immunology, Eastern Virginia Medical School
- John Shewchuk Meteorologist (CCM) and Atmospheric Researcher
- Stephen W. Shipman Institutional Investor
- Ryan Shrout Environmental Attorney with a Masters of Law in Environmental Law practicing in the air emissions field
- Dr. Matthew Eric Shultz University of Delaware, Dept. of Physics & Astronomy, specialised in Stellar Astrophysics, Annie Jump Cannon Fellow
- David Siegel author, entrepreneur, critical thinker, communicator
- Hal Simeroth PhD in Ethics, Graduate Engineer, 45 years of research science and engineering with patents in geological logging instrumentation and geophysical exploration methodologies
- Benjamin Slivka Retired, MSc Computer Science, "Angel" Investor with 20 start-ups in 56 countries
- Elliot Smith airline pilot, climate realist, 30+ years of studying AGW data
- Robert J. Smith Bachelor of Physics, Aircraft test and evaluation engineer

United States of America continued

- Professor William H. Smith
Professor of Earth & Planetary Sciences, Astronomer and Planetary & Atmospheric Scientist, involved in the Analysis of the Earth's Climate and Renewable Energy Systems
- Robert P. Smith
PhD, PE, Environmental Scientist and Professional Engineer
- Nicholas Smith-Sebasto
PhD, Retired Professor of Environmental and Sustainability Studies
- Willie Soon
Independent Scientist
- Prof. George Sowers
PhD, Space Resources, Colorado School of Mines
- Prof. Rick Bernard Spielman
Senior Scientist & Professor of Physics, University of Rochester, Laboratory for Laser Energetics
- Robert M. St. Louis
MSc in geology, owner of Mine Water Consulting LLC
- Kirk Douglas Stahnke
MS Educ. Prof of Design Tech (Retired), Independent Climate Researcher
- Walter Starck
PhD, Marine Science, Pioneer in Coral Reef Studies, Policy Advisor to The Heartland Institute
- Jess L. Stark
Founder and CEO of Stark Industries, Houston, Texas
- Doug Stearns
PE, Natural Gas Consultant
- Jim Steele
Emeritus Director Sierra Nevada Field Campus, San Francisco State University
- Phil Stegemoeller
Professional Forester, Partnership with the Quinault Indian Nation, a BS in forest management at the University of Minnesota, 1979
- Ronald Stein
Professional Engineer, Policy Adviser to Heartland Institute on Energy, and Co-Author of the Amazon 5-Star rated books "Energy Made Easy" and "Just GREEN Electricity"
- Kenneth S. Stevens
PhD, Professor, University of Utah, Electrical and Computer Engineering Dept
- Brent K. Stewart
PhD, Professor Emeritus, Radiology, University of Washington School of Medicine
- Jonathan Stigant
BSc Engineering Science
- Kenneth Stoller
MD - Lifetime Fellow, American College of Hyperbaric Medicine, author of Incurable Me (Skyhorse 2016)
- David Stubbs
MSc Physics, Sr. Research Scientist, Aerospace Materials and Nondestructive Testing, Retired
- Gerald M. Sulzer
MS Chemical Engineer, Retired Director of Technology, Albemarle Corporation
- Soames Summerhays
Marine Biologist, Film Maker
- Stephen Sutton
a participant in competitive energy markets, patent holder of a rotational movement multiplier device.
- Dr. Daniel P. Taggart
PhD in Experimental Plasma Physics, life time career in Controlled Thermonuclear Research and Radiation Protection at Los Alamos National Laboratory
- Tomer D. Tamarkin
Physicist, Founder and President/CEO of Energycite Inc., President and Chairman of ClimateCite Inc.
- Paul Taylor
Energy Economist, Recipient Rossitor Raymond Award, San Clemente, CA
- Bradley Thomas
M.A. Air Pollution Meteorology
- M. Ray Thomasson
Certified Petroleum Geologist; Certified Petroleum Geophysicist. Recipient of Michael T. Halbouty Award from AAPG and Heroy Award from AGI. Distinguished Alumni from MU/UW.
- Francis Thompson
Space Vehicle Engineer, Masters in General Relativity
- Edward Thompson
PhD, DIC, Mechanical Engineering, retired
- David E. Thompson
Professor Emeritus Mechanical Engineering and Computer Science, Dean Emeritus College of Engineering, University of Idaho
- Roane Thorpe
BSME California Polytechnic, MBA University of California, lifetime career in global energy projects
- Gordon Tomb
Energy and climate writer, communications consultant, primary editor of Inconvenient Facts and Senior Advisor for the CO2 Coalition
- Cecil Joe Tomlinson
Retired Boeing Senior Principle Engineer
- Frank Trask
BS Degree in Mechanical Engineering, University of Maine
- Kip Trout
Lecturer in Physics, The Pennsylvania State University – York Campus
- Karl Michael Frederick Truitt
BSEE, IEEE, US Veteran, 6 US Patents, Climate Data Researcher, Host of the The Climate Change Hoax Podcast

United States of America continued

- Richard Trzupek
Chemist and Air Quality Expert
- Mark Twaalfhoven
Executive CEO Technology Companies
- Mark Ulmer
Esq., Mayor of Miami Shores, Florida, 1999-2001
- Jeffrey Vaughan
Petroleum Geologist California
- Peter Villucci
MSc. Organic Chemistry, Lifetime science and communications professional
- Arthur Viterito
PhD, Physical Geography, Policy Adviser to the Heartland Institute
- Dariusz Vogelsinger
Psychologist
- Brian Volkman
PhD, Professor of Biochemistry, Medical College of Wisconsin
- Whitson G. Waldo
Scientist and Engineer with MS Chemical Engineering from Clemson Univ, lifetime career in the semiconductor industry, owner of 13 awarded patents
- William B. Walters
Guggenheim Fellow, Professor of Atmospheric, Nuclear and Environmental Chemistry, University of Maryland
- James Wanliss
Professor of Physics, Presbyterian College
- R. Peter Weaver
lifetime career in energy, energy policy and sustainable operations
- Robert Webster
More than 65 years of interest in Meteorology and Climatology, Author of "Looking Out the Window", an evidence based defense of CO2 charged with being a climate change force
- Steven E. Weismantel
Retired Engineer and Climate Researcher
- Isaac William Wells
Lawyer in International Law and Foreign Affairs
- Dr. Steven C. Wendelken
EPA, OGWDW/TSC, climate realist
- Gary S. Westerman
PhD, physical geography with specializations in climate science and remote sensing
- Stephen H. Westing
PhD, Director Medical Affairs, Regeneron Pharmaceuticals, Inc.
- Jim Whiting
MD from McGill U, Montreal, Fellow of the American College of Radiology
- Dr. Matthew Wielicki
PhD in Geochemistry from UCLA, Assistant Professor of Geological Sciences at the University of Alabama
- Chuck F. Wiese
Professional Meteorologist
- Brock Williams
PhD, Lifetime research scientist with subjects from molecular to population pathology with a special interest in immunopathology and atopic disease
- David Williams
PhD, University Distinguished Professor Emeritus, Oregon State University
- Jeff Wilmer
B.Sc. Physics, Post Undergrad Studies: Atmospheric Physics & Chemistry, Industrial Capitalist and Innovator
- Steven Wilmoth
Certified Petroleum Geologist
- Kevin Wilson
PhD in Geological Sciences, Retired, former Professor and Researcher on Plate Tectonics, Paleoclimate and Paleoceanography
- Terry Winters
PhD in Chemistry, Writer, Member of CO2Coalition
- David Wojick
Cognitive Scientist
- Dr. Calvin M. Wolff
Adjunct Professor University of Houston at Clear Lake, Expertise in Energy Management
- Michael Wood
BScHE, MBA; former lead technical engineer in development of space station and space launch vehicles
- Peter Wood
PhD, President, National Association of Scholars
- Gregory R. Wrightstone
Expert Reviewer IPCC, Geologist, Author, Executive Director CO2 Coalition
- Walter Yarbrough
PhD, retired from Penn State
- Frank Yates Jr
Past President of Yates Petroleum Corporation
- Dan Youra
publisher Youra media, creator and editor of Carbon Tax News
- Karl Zeller
PhD Research Scientist
- Ronald B. Zelt
Hydrologist, retired PH-WQ, U.S. Geological Survey (retired).
- Matthew Ziska
PhD, Director of Environmental Health and Safety at Elevation Labs
- Hannes Zuercher
PhD Geophysics, Independent Geophysicist
- Bob Zybach
Program Manager, Oregon Websites and Watersheds Project Inc.



1 SIGNATORY FROM VIETNAM

1 Signatory

- Dr. Thi Thuy Van Dinh

PhD in Law, Master in environmental law, University of Limoges,
former official of the UN Secretariat



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