# THERE IS NO CLIMATE EMERGENCY

# There is no climate emergency

A global network of 500 scientists and professionals has prepared this urgent message. Climate science should be less political, while climate policies should be more scientific. Scientists should openly address the uncertainties and exaggerations in their predictions of global warming, while politicians should dispassionately count the real benefits as well as the imagined costs of adaptation to global warming, and the real costs as well as the imagined benefits of mitigation.

# 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. Only very few peer-reviewed papers even go so far as to say that recent warming is chiefly anthropogenic..

# Warming is far slower than predicted

The world has warmed at less than half the originally-predicted rate, and at less than half the rate to be expected on the basis of net anthropogenic forcing and radiative imbalance. It 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. Moreover, they most likely exaggerate the effect of greenhouse gases such as  $\mathrm{CO}_2$ . In addition, they ignore the fact that enriching the atmosphere with  $\mathrm{CO}_2$  is beneficial.

# CO<sub>2</sub> is plant food, the basis of all life on Earth

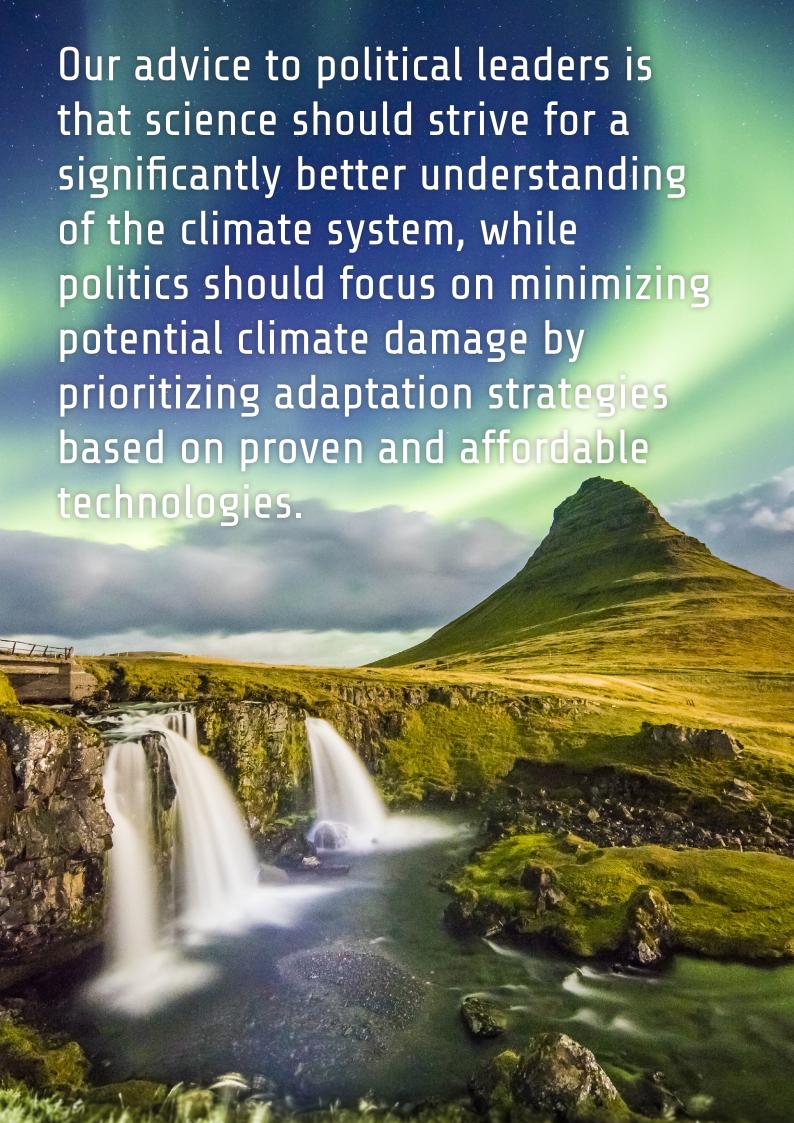
 $\mathrm{CO}_2$  is not a pollutant. It is essential to all life on Earth. Photosynthesis is a blessing. More  $\mathrm{CO}_2$  is beneficial for nature, greening the Earth: additional  $\mathrm{CO}_2$  in the air has promoted growth in global plant biomass. It is also good for agriculture, increasing 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,  ${\rm CO_2}$ -mitigation measures are as damaging as they are costly. For instance, wind turbines kill birds and insects, and palm-oil plantations destroy the biodiversity of the rainforests.

# 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  $\mathrm{CO}_2$  policy proposed for 2050. If better approaches emerge, we will have ample time to reflect and adapt. The aim of international policy should be to provide reliable and affordable energy at all times, and throughout the world.



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- 8. Georges Geuskens, Emertitus Professor of Chemistry, Free University of Brussels and Expert Publicist on Climate Science
- 9. Drieu Godefridi, PhD in Law, author of several books
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- 3. Bertrand Aliot, Environmentalist
- 4. Charles Aubourg, full professor at the University of Pau, geophysicist.
- Hervé Azoulay, Engineer (CNAM), Specialist of Networks and Systemics, External Speaker at Universities (France, Switzerland, China), CEO and President of several Associations
- 6. Jean-Pierre Bardinet, Ingénieur ENSEM, publicist on climate issues
- 7. Bernard Beauzamy, university professor (ret.), chairman and CEO, Société de Calcul Mathématique SA (Paris).
- 8. Jean-Claude Bernier, emeritus professor (university of Strasbourg), former director of the Institute of Chemistry of the CNRS.

- 9. Pierre Beslu, former searcher and head of department in the french Nuclear Energy Commission (CEA).
- 10. Michel Bouillet, PhD Human Geography, Emeritus Professor, Former Associate Researcher at the MMSH (Aix-en-Provence)
- 11. Christian Buson, PhD in agronomy, director of research in a company (impact studies in environmental issues, sewage treatment).
- 12. Sylvie Brunel, full professor at Sorbonne University, geographer and economist, former president of the humanitarian organization Action against Hunger (Action contre la faim).
- 13. Jean-Louis Butré, professional engineer, head of laboratory at Grenoble Nuclear Research Center, Chief executive officer or the Pharmacie Centrale de France, President of Axens, President of the Fédération Environnement Durable and the European Platform Against Windfarms, Knight of the National Order of Merit.
- 14. Bernard Capai, Retired Chemistry Engineer, Specialist of Industrial Processes avoiding the use of carcinogenic solvents
- 15. Patrick de Casanove, Doctor of Medicine, Chairman of the Cercle Frédéric Bastiat
- 16. Philippe Catier, Medical Doctor
- 17. Pascal Chondroyannis, Forest Engineer, Retired Director of the National Alpine Botanical Conservatory (2008-2013)
- 18. Philippe Colomban, CNRS Research Professor, Former Head of Laboratory at Université Piere-et-Marie Curie, Expert in Hydrogen-based Energy Storage
- Jacques Colombani, Former Research Director retired from ORSTOM-IRD, numerous Studies in Hydrology and Climatology and Specialist in Fluid Mechanics. Member of the Board of ORSTOM for twenty years.
- Vincent Courtillot, geophysicist, member of the French Academy of Sciences, former director of the Institute de Physique du Globe de Paris
- 21. Pierre Darriulat, Professor of Physics, Member of the French Academy of Sciences
- 22. Gérard Douet, PhD in Nuclear Physics, Retired Engineer at CERN, Technical Manager on Digital Transmission and Video Encoding
- 23. Hubert Dulieu, Emeritus Professor Applied Ecology, Formerly Senior Researcher in the CNRS, President of the National Scientific Research Committee, Vegetal Biology Section (XXVII)
- Bruno Durieux, economist, former Minister of Health and of Foreign Trade, ancient administrator of the French National Institute of Statistics and Economic Studies (INSEE).
- 25. Max Falque, International Consultant in Environmental Policy
- 26. Patrick Fischer, Associate Professor in Applied Mathematics, University of Bordeaux
- 27. François Gauchenot, governance specialist, founder of Saint George Institute.
- 28. Christian Gérondeau, former advisor of several French Prime Ministers. Former responsible for the road traffic safety policy for France and the European Union.
- 29. Francois Gervais, Emeritus Professor of Physics and Material Sciences, University of Tours.
- 30. Philippe Giraudin, Ecole Polytechnique Paris, Geographic Sciences
- 31. Bernard Grandchamp, Agronomic Engineer and Environment & Plant Defense Expert, Managing Director of Famoux Chateaux Viticoles in Bordeaux
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- 34. Claude Jobin, Retired A&M Engineer Specialized in Microwave Communication
- 35. Alexandre Krivitzki, Psychoanalyst, Member of the International Psychoanalytical Association
- 36. Roger Lainé, Retired Geological Engineer
- 37. Philippe de Larminat, Professor at École Centrale de Nantes, specialist of business process modeling.
- 38. René Laversanne, Former researcher at the CNRS, 16 patents.

- Christian Marchal, astronomer and mathematician, former research director at the French National Office for Aerospace Studies and Research, former professor at the Observatory of Paris (1980-93), former assistant professor at Polytechnic School (1981-92).
- 40. Patrick Mellett, architect and CEO.
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- 43. Cédric Moro, geographer on natural hazards management, co-founder of Visov, an NGO in Civil defense
- 44. Philippe Morvan, Engineer ENSTA and Génie Maritime, specialist in software development
- 45. Charles Naville, R&D Exploration Geophysicist, IFP Energies Nouvelles
- 46. Rémy Prud'homme, Emeritus Professor in Economics at University of Paris-Est, Former Deputy Director Environment, Directorate of OECD
- 47. Isabelle Rivals, Associate professor in Statistics at ESPCI Paris
- 48. Betrand Rouffiange, Doctor of Medicine, Specialized in Radiology 48.
- 49. Jean Rouquerol, Emeritus Research Director at CNRS Marseille, Expert in Gas Adsorption and Calorimetry
- 50. François Simonet, Former Director for planning and foresight in a State Agency for water and aquatic ecosystems management.
- 51. Marcel Terrier, Engineer ENSAEM in risk management, teacher at École des Mines.
- 52. Étienne Vernaz, former Director of Research of CEA (Commissariat à l'Énergie Atomique) in France, Professor at INSTN (Institut National des Sciences et Techniques Nucléaires).
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- 55. Théa Vogt, retired CNRS searcher, géomorphology, Quaternary palaeoenvironments, soil and desertification remote sensing
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- 74. Sabino Gallo, Ingegnere nucleare e scrittore scientifico.
- 75. Daniela Giannessi, Primo Ricercatore, IPCF-CNR, Pisa.
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- 81. Maria Massullo, Tecnologa, ENEA-Casaccia, Roma.
- 82. Enrico Matteoli, Primo Ricercatore, IPCF-CNR, Pisa.
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- 90. Massimo Sepielli, Direttore di Ricerca, ENEA, Roma.
- 91. Ugo Spezia, Ingegnere, Responsabile Sicurezza Industriale, SoGIN; Movimento Galileo 2001.
- 92. Emilio Stefani, Professore di Patologia vegetale, Università di Modena.
- 93. Umberto Tirelli, Visiting Senior Scientist, Istituto Tumori d'Aviano; Movimento Galileo 2001.
- 94. Roberto Vacca, Ingegnere e scrittore scientifico.
- 95. Giorgio Bertucelli, Ingegnere, già Dirigente Industriale, Associazione Lombarda Dirigenti Aziende Industriali.
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- 98. Antonio Maria Calabrò, Ingegnere, Ricercatore, Consulente.

- 99. Enrico Colombo, Chimico, Dirigente Industriale.
- 100. Stefano De Pieri, Ingegnere energetico e nucleare.
- 101. Benedetto De Vivo, Professore di Geochimica in pensione dall'Università di Napoli; ora Professore Straordinario presso Università Telematica Pegaso, Napoli.
- 102. Carlo Del Corso, Ingegnere Chimico.
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- 106. Ettore Malpezzi, Ingegnere.
- 107. Alessandro Martelli, Ingegnere, già dirigente ENEA.
- 108. Umberto Minopoli, Presidente dell'Associazione Italiana Nucleare.
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- 7. Paul Cliteur, Professor of Legal Sciences, Member of the Senate of The Netherlands
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- 10. David E. Dirkse, Former Computer Engineer and Teacher Mathematics
- 11. Kees de Groot, Former Director Upstream Research Lab. Shell
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- 13. Louw Feenstra, Emeritus Professor Erasmus University and philosopher, Rotterdam
- 14. Frans H. Gortemaker, Former Vice president Unilever Global R&D
- 15. Leo Halvers, Former Director Biliton Research Arnhem and former Director technology Foundation STW
- 16. Eduard Harinck, Former Logistics Expert, Nedlloyd Group/KPMG consulting; member of the ED support team
- 17. J.R. Hetzler, Forestry Economics and Time Series Modeling
- 18. Jan F. Holtrop, Emeritus Professor of Petroleum Engineering, Delft University of Technology
- 19. A. Huijser, Physicist and Former CTO Royal Philips Electronics
- 20. W. J. (Wouter) Keller, Emeritus Professor of Statistical Methods, Former Member Board of Directors, Central Bureau of Statistics (CBS)
- 21. Jacques van Kerchove, Economist and Marketeer, Former CFO Rabobank, now Climate and Environment researcher
- 22. R.W.J. Kouffeld, Emeritus Professor of Energy Conversion, Delft University of Technology
- 23. Hans H.J. Labohm, Former Expert Reviewer IPCC
- 24. Kees le Pair, Physicist, Former Director of Research organisations FOM and Technology & former member of the General Energy Council, The Netherlands
- 25. B.G. Linsen, Former Director Unilever Research Vlaardingen, The Netherlands
- Pieter Lukkes, Emeritus Professor of Economic and Human Geography, University of Groningen

- 27. Hugo Matthijssen, Former Teacher Meteorology, now Publicist on Climate Matters
- 28. Simon Middelhoek, Emeritus Professor of Electronic Instrumentation and Sensors,
  Delft University of Technology, Member of the Royal Netherlands Academy of Arts and
  Sciences and Member of the National Academy of Engineering, USA
- 29. J.M. Mulderink, Former General Director Akzo-Nobel
- 30. Rob Nijssen, Radar Engineer and Publicist on Climate Matters
- 31. Leffert Oldenkamp, Expert Forest Management
- 32. Peter Oosterling, Former Scientist E & P Shell, now active as Climate Researcher; member of the ED support team
- 33. Kees Pieters, Mathematician; Former Operational Research and ICT manager at Shell
- Reynier Pronk, Former IT Manager, Accredited Project Management Consultant and Trainer
- 35. G.T. Robillard, Emeritus Professor of Biochemistry and Biophysics
- 36. Arthur Rörsch, Former Member Board of Directors, TNO, The Netherlands
- 37. Don Schäfer, Former Director Shell Exploration & Production and New Business, Shell
- 38. Frans Schrijver, Strategy Consultant and Climate Publicist
- Jos de Smit. Emeritus Professor of Stochastic Operations Research and Former Rector Magnificus of the University of Twente
- 40. Albert Stienstra, Emeritus Professor of Computer Simulation and Micro-Electronics, Delft University of Technology
- 41. P.J. Strijkert, Former Member Board of Directors of DSM, Delft, The Netherlands
- 42. Dick Thoenes, Emeritus Professor of Chemical Technology, Technical University of Eindhoven
- 43. Fred Udo, Emeritus Professor of Nuclear Physics, Vrije Universiteit Brussels, Belgium
- 44. J.F. van de Vate, Former Director ECN, Petten, The Netherlands. Former UN Delegate
- 45. Frans van den Beemt, Nuclear Physicist, Former Program Director Technology Foundation STW
- 46. Rutger van Santen, Emeritus Professor of Anorganic Chemistry and Catalysis, Former Rector Magnificus, Eindhoven University
- 47. Barend-Jan Smits, Geologist, Former Director of Wintershall Nederland, BASF Group
- 48. Hans van Suijdam, Former Executive Vice President Research and Development DSM, The Netherlands
- 49. Peter van Toorn, Former Research Geophysicist Shell
- 50. Jannes J. Verwer, Former CEO Large Electricity Generation Group and Former Chairman Supervisory Board State Owned Radio Active Waste Storage Facilities, The Netherlands
- Henk van der Vorst, Emeritus Professor of Numerical Mathematics, University of Utrecht
- 52. Jaap van der Vuurst de Vries, Emeritus Professor of Petroleum Engineering, Former Dean Faculty of Applied Earth Sciences, Delft University of Technology
- 53. Karel Wakker, Emeritus Professor of Astrodynamics & Geodynamics, Delft University of Technology
- 54. Cyril Wentzel, Multi-Physics Engineer and Chairman of Environmental Think Tank 'Groene Rekenkamer'
- 55. Dolf van Wijk, Formerly AkzoNobel Environmental Research Laboratory and Former Executive Director Cefic-Euro Chlor, Brussels
- 56. W.J. Witteman, Professor of Applied Physics and CO2 lasers, University of Twente
- 57. Theo Wolters, Co-founder 'Groene Rekenkamer' and 'Climategate.nl'



### SCIENTISTS AND PROFESSIONALS FROM NORWAY

- Morten Jødal, Biologist, Former Employee of the Norwegian Research Council and the Centre for the Development and Environment at the University of Oslo; ECD Ambassador
- 2. Gunnar Abrahamsen, Professor Em. Soil Science, University of Life Sciences, Norway
- 3. Stein Storlie Bergsmark, Phycisist, Former head of renewable Energy Studies Programmes, University of Agder, Norway
- 4. Reidar Borgstrøm, Professor Emeritus in fishbiology and Nature Conservation, University of Life Sciences Norway

- Jon Gulbrandsen, PhD, biologist, Associate Professor NOFIMA and NOAA (USA), Norway
- 6. Rögnvaldur Hannesson, Professor Emeritus, Norwegian School of Economics, Norway
- 7. Geir Hasnes, Adjunct Associate Professor, Institute of applied Cybernetics, Norwegian University of Science and Technology, Norway
- 8. Hans Konrad Johnsen, Dr. Ing., Norway
- Arnfinn Langeland, Professor Emeritus Biology, Norwegian University of Science and Technology
- 10. Willy Nerdal, professor of Chemistry, University of Bergen
- 11. Ulf Torgny Rock, Master of Chemical Engineering, Norsk Hydro, Norway
- 12. Martin Torvald Hovland, Geophysical and Geological Advisor, Former Lecturer at University of Tromsø
- Elen Roaldset, Emertitus Professor in Geology, University of Oslo, Former Director of Natural History Museum Oslo, Professor at Norwegian University of Science and Technology
- 14. Hakon Gunnar Rueslatten, Geological Researcher, Trondhheim
- 15. Tom V Segalstad, Associate Professor Emeritus of Geochemistry, University of Oslo, Norway
- 16. Jan-Erik Solheim, Professor Emeritus Astrophysics, University of Oslo
- 17. Jørgen Stenersen, Professor Emeritus Eco-Toxicology, University of Oslo



### SCIENTISTS AND PROFESSIONALS FROM POLAND

- 1. Marek Boinski, Chairman of the National Section of Energy Workers' Union NSZZ
- Jaroslaw Grzesik, Chairman of the National Secretariat of Mine and Energy Workers' Union NSZZ.
- 3. Dominik Kolorz, Chairman of the Slasko-Dabrowski Region of NSZZ



### SCIENTISTS AND PROFESSIONALS FROM SWEDEN

- Ingemar Nordin, Emeritus Professor Philosophy of Science, Linköping University; ECD Ambassador
- Sture Åström, Professional in cCimate Issues, Secretary of the Swedish Network Klimatsans
- 3. Rolf Bergman, Emeritus Professor of Physical Chemistry, Uppsala University
- 4. Dr. Lars Bern, Member of The Royal Swedish Academy of Sciences, Retired CEO in Incentive AB
- 5. Magnus Cederlöf, Software Specialist, Stockholm
- 6. Per-Olof Eriksson, Physicist, Former CEO of Sandvik Group
- 7. Dr. Anders Flodin, Business Development Manager, Höganäs AB in North Carolina
- 8. David D. Gee, Professor Em Orogen Dynamics, Uppsala University, Sweden
- 9. Hans Jelbring, Climate researcher
- 10. 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
- 12. Sten Kaijser, Emeritus Professor of Mathematics, Uppsala University
- 13. Johan Montelius, Associate Professor of Computer Science at the Royal Institute of Technology, Stockholm
- 14. Nils-Axel Mörner, Emeritus Professor Geology, President of the Independent Committee on Geoethics. Former head of Paleogeophysics & Geodynamics at Stockholm University
- 15. Gösta Pettersson, Emeritus Professor in Biochemistry, University of Lund
- 16. Marian Radetzki, Emeritus Professor of Economics, Luleå University of Technology
- 17. Peter Stilbs, Emeritus Professor of Physical Chemistry, Royal Institute of Technology (KTH), Stockholm
- 18. Elsa Widding, Consultant, Author on Climate Change, Stockholm



### SCIENTISTS AND PROFESSIONALS FROM SWITZERLAND

- . Jean-Claude Pont, Dr. Math., Emeritus Professor of The History of Philosophy of Sciences, University of Genève
- 2 Jef Ongena, Member of the Permanent Monitoring Panel for World Energy, World Federation of Scientists, Geneva



### SCIENTISTS AND PROFESSIONALS FROM UNITED KINGDOM

- 1. Christopher Monckton of Brenchley, Peer of the Realm and author of several reviewed papers on climate; ECD Ambassador
- David Bodecott, Consultant Geophysics and Geology, Fellow of the Geological Society of London
- 3. D. Q. Bowen, Emeritus Professor of Earth and Ocean Sciences, Fellow International Union for Quaternary Research, Cardiff University
- 4. Michael Brown, Expert in large scale thermal fluid dynamic models.
- 5. John C. W. Cope, Professor of Natural Sciences, National Museum Wales, Cardiff
- 6. Richard Courtney, Retired Material Scientist, Expert Peer Reviewer of the IPCC
- 7. Isabel Davis, Geophysicist and Entrepreneur
- 8. Howard Dewhirst FGS, Geologist, Initiator Open Letter to the Geological Society of London
- 9. Gregor Dixon FGS, Geologist, former member Geological Society of London
- Roderick Paul Eaton, Retired Energy Systems Analyst from the UK Electricity Supply Industry
- 11. Peter Gill, Physicist, Former Chair of the Institute of Physics Energy Group, UK
- 12. Gil Gilchrist, Geophysicist, UK
- 13. Tim Harper FGS, Geologist, Entrepreneur, Devon
- 14. Bob Heath, retired Geophysicist, Honorary member of the Indian Society of Petroleum Geologists
- 15. David A. L. Jenkins, Geologist, Director Hurricane Energy plc
- 16. Chris Matchatte-Downes, Geologist, fellow of the geological Society of Gt Britain
- 17. Edward Nealon, Geologist Member of the Australian Institute of Mining & Metallurgy, IJK
- 18. Peter Owen FGS, Fellow of the Geological Society of London
- 19. Clive Randle, Geologist, Fellow of the Geological Society of London
- 20. Michael F. Ridd, Geologist, Fellow of the Geological Society of London
- 21. Michael Seymour, geologist, Former Managing Director Aurelian Oil & Gas and Trajan Oil limited
- 22. Valentina Zharkova, Professor of Mathematics and Astrophysics, Northumbria University, Newcastle upon Tyne

### SCIENTISTS FROM OUTSIDE THE EU



### SCIENTISTS AND PROFESSIONALS FROM AUSTRALIA

- Viv Forbes, Geologist with Special Interest in Climate, Founder of www. carbon-sense. com, Queensland, Australia; ECD Ambassador
- 2. Don Andersen,
- 3. David Archibald, Research Scientist, Australia
- 4. Michael Asten, Emeritus Professor in Geophysics and Continuing Senior Research Fellow at the Monash University, Melbourne
- 5. Jeremy Barlow, Energy and Mining professional, Director and CEO, Australia
- 6. Colin Barton, Geologist, Former Principal Research Scientist CSIRO, Australia
- 7. Gordon Batt, Director GCB Investments Pty Ltd
- 8. Robert M. Bell, Retired geologist, Victoria, Australia
- 9. Richard Blayden Professional Engineer
- 10. Howard Thomas Brady, Member Explorers Club of New York, Member of the Australian Academy of Forensic Sciences
- 11. Geoff Brown, Organizer of a Critical Climate Group, Australia
- 12. Douglas Buerger, Fellow Australasian Institute of Mining and Metallurgy, member of Australian Institute of Company Directors, Australia
- 13. Mike Bugler, Retired Environmental Consultant, Australia
- 14. Ray Carman, Organic chemist, Honorary Fellow University of Queensland, Australia
- 15. Peter Champness, Radiologist, Australia
- 16. Andrew E. Chapman, Expert on Rainfall and flood events, Australia
- 17. Richard Corbett, Member Royal Australian Chemical Institute, Member of The Clean Air Society of Australia and New Zealand
- Majorie Curtis, Retired Geologist, Stratigrapher and Palaeoclimatic Studies, Canberra, Australia
- 19. Geoff Derrick, Geologist
- 20. Aert Driessen, Geologist, Fellow Australian Institute of Geoscientists, Australia
- 21. John A. Earthrowl, retired Geologist, Brisbane Australia
- 22. Jeremy K. Ellis, Retired Chairman of BHP, now Chairman of the Saltbush Club, Australia
- 23. Matthew J. Fagan, Founder and President of FastCAM Inc.
- 24. Rodney Fripp, former lecturer in geology, geochemistry and geotechtonics
- 25. Christopher J.S. Game, Retired Neurophysiologist, Australia
- 26. Robin George, Geologist, Canterbury, Australia
- 27. David Gibson, Experimental Physicist, Australia
- 28. Gavin Gillman, Former Senior Principal Research Scientist with SCIRO Australia; Founding Director of the IITA Ecoregional Research Centre in Cameroon for the International Institute for Tropical Agriculture (IITA)
- 29. Hamish Grant, MR Spectroscopy & Imaging Consultant, Victoria, Australia
- 30. Lindsay Hackett, Founding member of the Saltbush Club in Australia
- 31. Erl Happ, Managing Director, Australia
- 32. John Happs, Geoscientist, Retired University Lecturer, Australia
- 33. John Harrison, Retired Marine Engineer, Australia
- 34. Jarvis Hayman, Visiting Fellow School of Archaeology & Anthropology, Australian National University
- 35. Mark Henschke, Retired geologist in mining, oil and gas, Australia
- 36. Gerhard Hofmann, Geologist and Palaeontologist, former Director of the Geological Survey of Queensland
- 37. Geraint Hughes, Mechanical Building Engineer, Climate Researcher, Australia
- 38. Kevin Kemmis, Expert in Information Technology, Climate Researcher
- 39. Hugh H. Laird, Retired Tropical Agriculture Executive
- 40. John Leisten OBE, expert in physical chemistry
- 41. Brian Levitan, worked for NASA, now Technology Consultant to multinationals
- 42. Matthew David Linn, Fellow of the Institution of Engineers of Australia
- 43. Gerard McGann, Technical Director Eon NRG
- 44. Rodney McKellar, Retired Geologist, Queensland, Australia

- 45. John McLean, Author of first major review of HadCRUT 4 climate temperature data, Member of New Zealand Climate Science Coalition
- 46. Ross McLeod, Retired Environmental Health Officer, Australia
- 47. Finlay MacRitchie, Professor Emeritus in the Department of Grain Science and Industry at Kansas State University, USA. Australia
- 48. John Michelmore, Retired Industrial Chemist, South Australia
- 49. Alan Moran, Contributor and Editor of the Mark Steyn Compilation: "Climate Change, the Facts", Author of Climate Change: "Treaties and Policies in the Trump Era"
- 50. Des Moore, Former Deputy Secretary of the Federal Treasury, founder and leader of the Institute for Private Enterprise
- 51. Hugh Morgan, prominent Australian mining executive, Fellow of the Australian Academy of Technology, Science and Engineering (FTSE).
- 52. C.D. Ollier, Emeritus Professor of Geology and Honorary Research Fellow at the School of Earth and Geographical Sciences, University of Western Australia
- 53. Ian Plimer, Emeritus Professor of Mining Geology at University of Adelaide and Author of 'Climate Delusion and the Great Electricity Rip-off'
- 54. Alistair Pope, psc, CM, Sceptical Scientific Contrarian in the Climate Debate
- 55. Tom Quirk, Nuclear Physicist, Australia
- 56. Campbell Rankine, Varrister and Solicitor, Australia
- 57. Peter Ridd, Oceanographer and Geophysicist, Former Head of Physics at the James Cook University, Queensland
- 58. Nigel Rowlands, retired from mining and exploration industry
- 59. Judy Ryan, Editor Principia Scientific Institution-Australia
- 60. Jim Simpson, Retired from Managing Positions in different International Telecommunications Firms, now active in the Australian Climate Community,
- 61. Case Smit, Physicist, Expert in Environmental Protection, Co-founder of the Galileo Movement, Australia
- 62. Lee Smith, University Lecturer in Spatial Technology, Responsible for State Government Precise Monitoring of Sea Level and International Sea Boundaries
- 63. Darren Speirs, Independent Business Owner, Rangeland NRM Consultants, Australia
- 64. Geoffrey Stocker, Professor and Head of Department of Forestry, PNG University of Technology Director of PNG Forest Research Institute
- 65. Rodney R. Stuart, Retired expert in energy industry, Tasmania, Australia
- 66. R. Symons, Professional Engineer, Expert in Temperature Control of Industrial Buildings
- 67. Rustyn Wesley Thomas, Retired aircraft engineer, Australia
- 68. John W. Turner, Science Educator, Noosa Heads, Australia
- 69. Peter Tyrer, Project Controls Engineer in mining industry, Australia
- 70. Terrence Vincent, Security Engineer, Small Business Adviser AIST, ASIAL, SMBE, Australia
- 71. James Walter, Medical doctor, Australia
- 72. John Warnock, Astro Economist, Australia
- 73. Christopher Kenneth Warren, Expert in hydroelectric dam design and construction, Australia
- 74. Neil Wilkins, Retired geologist, Australia
- 75. P.C. Wilson, Former journalist with the A.B.C. Queensland, Australia



### SCIENTISTS AND PROFESSIONALS FROM BRAZIL

- Luiz Carlos Baldicero Molion, Emeritus Professor of the Federal University of Alagoas (UFAL), Formerly of the National Institute of Space research (INPE)
- 2. Ricardo Augusto Felicio, Professor of the Department of Geography of the University of Sao Paulo (USP), Member of the Brazilian Society of Meteorology (SBMET)
- 3. Geraldo Luis Saraiva Lino, Geologist, Author of 'How a natural Phenomenon Was Converted into a False Global Emergency
- 4. Dr. Thiago Maia, Nuclear Physicist with PhD in Astrophysics, wrote critical climate letter to Brazilian Government
- 5. Igor Vaz maquieira, Biologist, Specialist in Environmental Management

- Mario de Carvalho Fontes Neto, Agronomist, Editor of 'The Great Global Warming Swindle'
- 7. Daniela de Souza Onca, Professor of the Geography Department of the State University of Santa Catarina (UDESC)



### SCIENTISTS AND PROFESSIONALS FROM CANADA

- Jeffrey Ernest Foss, Professor of Philosophy of Science, University of Victoria, English Canada; ECD Ambassador
- 2. Reynald Du Berger, Emeritus Professor of Geophysics at the L'Université du Québec a Chicoutimi, French Canada, ECD Ambassador
- 3. Alain Bonnier, Physicist, INRS-Centre de Recherche and Energy Montréal, Canada
- 4. Ian Clark, Professor of Earth and Environmental Sciences, University of Ottawa
- Susan Crockford, Zoologist and Polar Bear Expert, Former Adjunct Professor University of Victoria, Canada
- 6. Paul A. Johnston, Associate Professor, Department of Earth and Environmental Sciences, Mount Royal University, Calgary, Alberta
- 7. Klaus L.E. Kaiser, Retired Research Scientist, National Water Research Institute, Author of Numerous Press Articles, Canada
- 8. Madhav Khandekar, Expert Reviewer IPCC 2007 AR4 Cycle, Canada
- 9. Kees van Kooten, Professor of Economics and Canada Research Chair in Environmental Studies and Climate, University of Victoria, Canada
- 10. Allen MacRae, retired Engineer, Canada
- 11. Paul MacRae, Independent Climate Researcher, Canada
- 12. Patrick Moore, Ecologist, Chair CO2 Coalition, Co-Founder Green Peace, Canada
- 13. Brian R. Pratt, Professor of Geological Sciences, University of Saskatchewan
- 14. Peter Salonius, Retired Research Scientist, Natural Resources, Canada
- 15. Marcelo C. Santos, professor of Geodesy, University of New Brunswick, Canada
- 16. Ian Semple, Retired Geologist, of McGill University, Canada
- 17. William van Wijngaarden, Professor of Physics, York University, Canada



### SCIENTISTS AND PROFESSIONALS FROM CHINA AND HONG KONG

- 1. NG Young, Principal Geoscientist, Danxiashan Global Geopark of China
- Wyss Yim, Retired Professor, Department of Earth Sciences, The University of Hong Kong, Hong Kong SAR, China / Deputy Chairman, Climate Change Science Implementation Team, UNESCO International Year for Planet Earth 2007-2009 / Expert Reviewer IPCC AR2



### SCIENTISTS AND PROFESSIONALS FROM INDIA

1. Sanjeev Sabhlok, Economist with focus on climate and energy policy, India



### SCIENTISTS AND PROFESSIONALS FROM JAPAN

1. Masayuki Hyodo, Professor of Earth Science, Kobe University, Japan



### SCIENTISTS AND PROFESSIONALS FROM NEW ZEALAND

- . Terry Dunleavy MBE, co-founder (2006) and honorary secretary, New Zealand Climate Science Coalition; ECD Ambassador
- 2. Deborah Alexander, Agricultural Scientist, New Zealand
- 3. Jock Allison, retired Agricultural Scientist, Ministry of Agriculture, New-Zealand
- 4. Barry Brill, OBE, Previously Minister of Science and Techology, New Zealand
- 5. Doug Edmeades, Managing Director agKnowledge Ltd., New Zealand
- 6. Roger High Dewhurst, Retired, geologist/hydrogeologist, New Zealand
- 7. Geoffrey G. Duffy, Professor Emeritus, University of Auckland, New Zealand
- 8. Joe Fone, CAD Engineer, Enatel Ltd
- 9. Bryan Leyland, Power Systems Engineer and Experienced Renewable Energy Specialist
- Gerrit J. van der Lingen, Paleoclimatologist, New Zealand, Author of the Book The Fable of Stable Climate

- 11. John Scarry ME (Civil), structural engineer, member of the New Zealand Climate Science Coalition
- 12. John Sexton, Member of the New Zealand Climate Coalition
- 13. Philip Strong, Science Research Leader & Member of the New Zealand Climate Coalition
- 14. Richard Treadgold, Executive Member NZ Climate Scienc Coalition, Convenor Climate Conversation Group



### SCIENTISTS AND PROFESSIONALS FROM RUSSIAN FEDERATION

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



### SCIENTISTS AND PROFESSIONALS FROM SOUTH-AFRICA

- Rosemary Falcon, Emeritus Professor Clean Coal Technology Research Group at the University of Witwatersrand, Director Fossil Fuel Foundation
- 2. John Ledger, Visiting Professor at the University of the Witwatersrand, Energy and Environmental Consultant
- 3. Don Mingay, Retired Professor of Nuclear Physics, South Africa



### SCIENTISTS AND PROFESSIONALS FROM USA

- Richard Lindzen, Emeritus Professor Atmospheres, Oceans and Climate, MIT, USA; ECD Ambassador
- 2. Ralph B. Alexander, Emeritus Professor of Physics, Science Writer
- 3. Anthony J. Armini, Retired Founder and CEO Implant Sciences Corp.., USA
- 4. Tim Ball, Emeritus Professor Geography, University of Winnipeg, Canada and Advisor of the International Science Coalition
- Hans-Peter Bär, Emeritus Professor of Pharmacology, Canada and Former Dean of Basic Medical Sciences, American University of Barbados, Barbados
- 6. James R. Barrante, Emeritus Professor of Physical Chemistry, USA
- 7. Charles G. Battig, Climate Adviser, Heartland Institute, USA
- 8. Larry Bell, Endowed Professor of Space Architecture, University of Houston, USA
- Elliott D. Bloom, Emeritus Professor of Particle Physics and Astrophysics, KIPAC-SLAG, Stanford University
- Daniel Botkin, Emeritus Professor of Biology, Climate Researcher, Author of the Book: Twenty-five Myths That Are Destroying the Environment, USA
- 11. Martin Cornell, Retired Senior Scientist, Dow Chemical Company, USA
- 12. 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, USA
- 13. David Deming, Professor of Arts & Sciences, University of Oklahoma, USA
- 14. Harold H. Doiron, Retired NASA Engineer, USA
- 15. John Droz jr, Physicist, Founder of AWED Alliance, USA
- 16. Freeman Dyson, Emeritus Professor Natural Sciences, Institute of Advanced Study, Princeton University, USA
- 17. Peter Farrell, Fellow of the US National Academy of Engineering, USA
- 18. Rex Fleming, Research Scientist, Author of Book on Carbon Dioxide Fallacy, Retired President Global Aerospace, USA
- Gordon J. Fulks, Astrophysicist, Board of Directors CO2 Coalition, Co-founder Global Warming Realists
- 20. Terry Gannon, Physicist, Retired Semiconductor Executive, USA
- 21. Ulrich H. Gerlach, Professor of Mathematics, Ohio State University, USA
- Laurence I. Gould, Professor of Physics, University of Hartford, Past Chair, New England Section of the American Physical Society.
- 23. Steve Goreham, Executive Director, Climate Science Coalition of America, USA
- 24. David Heald, Retired Electrical Engineer, USA
- 25. Howard C. Hayden, Emeritus Professor of Physics, University of Connecticut, USA
- 26. Wayne P. Kraus, Member American Institute of Chemical Engineers (AIChE)
- 27. Patrick J. Michaels, Competitive Enterprise Institute, Washington DC, USA

- 28. Pamela Matlack-Klein, Member of Portuguese Sea Level Project, USA
- 29. Richard McFarland, Retired NASA Physicist, USA
- 30. Daniel W. Nebert, Professor Emeritus, Department of Environmental Medicine and Center for Environmental Genetics, University of Cincinnati
- 31. Thomas O'Connor, Member American Association of Petroleum Geologists, Washington, USA
- 32. Herman A. Pope, retired Aerospace Engineer NASA-JSC, USA
- 33. Willem Post, Independent Researcher regarding Energy and Environment
- 34. Phil Robinson, Retired Chemist in the Aluminium and Steel Industry
- 35. Willie Soon, Independent Scientist, USA
- 36. Ronald Stein, Professional Engineer, USA
- 37. Paul Taylor, Energy Economist, recipient Rossitor Raymond Award, Golden Colorado, USA
- 38. Richard Trzupek, Chemist and Air Quality Expert
- Waheed Uddin, Professor of Engineering Science, University of Mississippi, Expert in Climate Modeling, Former Advisor UN
- 40. William B. Walters, Guggenheim Fellow, Professor of Atmospheric, Nuclear and Environmental Chemistry, University of Maryland, USA
- 41. Steven E. Weismantel, Retired Engineer and Climate Researcher, USA
- 42. Gregory R. Wrightstone, Expert Reviewer IPCCC 6th Assessment Report (AR6), USA
- 43. David Wojick, Cognitive Scientist, USA
- 44. Thomas Wysmuller, Retired NASA Executive, USA
- 45. Bob Zybach, Program Manager, Oregon Websites and Watersheds Project INC., USA