An Open Letter to the Biden Administration and Congress from U.S. Scientists on the Need for Urgent Climate Action
August 6th, 2021

To: President Joe Biden
    National Climate Advisor Gina McCarthy
    National Economic Council Director Brian Deese
    Senate Majority Leader Chuck Schumer
    Senate Minority Leader Mitch McConnell
    Speaker of the House Nancy Pelosi
    House Minority Leader Kevin McCarthy

As our nation reels from extreme heat waves, drought, wildfires, and abnormally warm ocean waters fueled an early start to a projected more active than normal Atlantic hurricane season, we are reminded that climate change is here and already exerting a fearsome toll on people, critical ecosystems, and our economy. Your leadership is urgently needed to seize the small window of opportunity that remains to limit the most catastrophic impacts of climate change now and for future generations.

Science shows that we must take immediate action to sharply reduce heat-trapping emissions to limit the worst climate change impacts, protect public health and lives, and limit economic harms. We also have a tremendous opportunity to invest in a climate-resilient economy, powered by clean energy, which can bring benefits to all communities in a just and equitable way, as outlined in the original American Jobs Plan. To size the level of action to the scope of the problem requires a robust scale of investment in climate related priorities.

Now is the time for Congress and the Biden administration to act, working together to implement a range of robust and necessary climate solutions.

The climate crisis demands cleaning up the power sector by enacting and implementing robust power sector emissions reduction targets of 80 percent below 2005 levels by 2030 and 100 percent reductions soon thereafter, designed and funded in such a way as to drive renewables online, while minimizing ratepayer impacts. Ways to do so include:

- Implementing a program to achieve robust power sector emissions reductions
- Fully funding clean energy tax incentives
- Bolstering transmission development and grid modernization
- Facilitating the replacement of polluting resources with clean alternatives
- Supporting a fair transition for fossil fuel workers and communities
- Improving the efficiency of our energy use, for example through funding low-income home energy and weatherization assistance programs.

We also need the swift electrification of the transportation sector, through both standards that will both reduce pollution and drive electrification and Congressional investment in:

- Helping transit agencies and school districts buy electric buses
- Incentivizing electric vehicle (EV) purchases
- Electrifying medium- and heavy-duty vehicles
- Deploying EV charging infrastructure

As we make swift and deep emissions reductions, communities are already facing climate impacts and need federal policies and investments to help prepare and protect them. They need adaptation assistance now, including through:
● Funding to prepare for and recover from disasters
● Establishing a Civilian Climate Corps to promote community-level climate resilience
● Investing in public health protections for communities and outdoor workers coping with extreme heat, wildfires, flooding, intensifying storms and extreme events worsened by climate change

Despite a brief dip due to the COVID-19 pandemic, global heat-trapping emissions continue to rise leaving us far off track from the steep and swift reductions needed to stave off the worst impacts of climate change. We will not be able to change this trajectory without a robust global effort and full U.S. participation, consistent at minimum with the scale of federal ambition and investment proposed in the American Jobs Plan. Such investments are a significant down payment on the contribution of the United States towards meeting the Paris Agreement’s primary goal of limiting warming to well below 2 degrees Celsius above pre-industrial levels.

A majority of U.S. residents across the political spectrum have long supported bold action to ramp up clean energy and address the climate crisis. Making a sharp turn away from fossil fuels and toward clean energy; investing in climate resilient communities and infrastructure; and acting swiftly to protect our air, water, and land will improve public health and help limit climate damages, particularly for those in low-wealth communities and communities of color that face the most harmful impacts. Investing in a fair transition for coal-dependent workers and communities, as well as creating good quality jobs in manufacturing supply chains, especially in the rapidly growing clean energy and clean transportation sectors, will also advance a strong, resilient economy for all.

Meeting the challenge of this moment is a scientific, economic, and moral imperative. We urge you to go big on climate action and to do so now.

Sincerely,

Institutional affiliations are listed as provided by signers for identification purposes only, and do not imply endorsement of the letter by those institutions.

Max Boykoff
Director, Environmental Studies
Fellow, Cooperative Institute for Research in Environmental Sciences (CIRES)
Professor, University of Colorado Boulder

Kim Cobb, PhD
Hans Oeschger Medal, European Geosciences Union
Georgia Power Chair and ADVANCE Professor, Earth and Atmospheric Sciences, Georgia Tech University

Andrea Dutton, PhD
John D. and Catherine T. MacArthur Fellowship
Fellow, Geological Society of America
Professor, Geoscience, University of Wisconsin-Madison
Kristie L. Ebi, PhD, MPH
Lead Author, IPCC Sixth Assessment Report
Lead Author, IPCC Special Report on Global Warming of 1.5C
Lead Author, Fourth National Climate Assessment
National Associate to the National Academies of Sciences, Engineering, and Medicine
Professor, Center for Health and the Global Environment (CHanGE), University of Washington

Brenda Ekwurzel, PhD
Co-author, Fourth US National Climate Assessment, Volume II
Fellow, American Association for the Advancement of Science
Director of Climate Science, Union of Concerned Scientists

Peter Frumhoff, PhD
Lead Author, IPCC Fourth Assessment Report
Lead Author, IPCC Special Report on Land Use, Land Use Change, and Forestry
Director of Science and Policy and Chief Climate Scientist, Union of Concerned Scientists

Anne R. Kapuscinski, PhD
Chair, Board of Directors, Union of Concerned Scientists
Pew Fellow in Marine Conservation
Recipient of Secretary of USDA Honor Award
Winner of Ocean Awards 2019, Innovation
Professor of Environmental Studies & Director of Coastal Science and Policy Program, University of California, Santa Cruz

Paul Kirshen, PhD
Lead Author, Intergovernmental Panel on Climate Change (IPCC) Fifth Assessment Report
Lead Author, US National Climate Assessment 2013 Report
Director, Stone Living Lab for Coastal Resiliency
Professor of Climate Adaptation, School for the Environment, University of Massachusetts-Boston

Ben Kirtman, PhD
Coordinating Lead Author, IPCC Fourth Assessment Report
Co-chair, NOAA Climate Prediction Task Force
Chair, CLIVAR Working Group on Seasonal to Interannual Prediction
Fellow, American Meteorological Society
Department of Atmospheric Sciences
University of Miami - Rosenstiel School for Marine and Atmospheric Science

Robert E. Kopp, PhD
Lead Author, IPCC Sixth Assessment Report
Lead Author, Fourth National Climate Assessment
Fellow, American Geophysical Union
James B. Macelwane Medal, American Geophysical Union
Director, Rutgers Institute of Earth, Ocean, and Atmospheric Sciences
Professor, Rutgers University
Tom Lubensky, PhD
Member, National Academy of Science
Member, American Academy of Arts and Sciences
Fellow of the American Association for the Advancement of Science
Fellow, American Physical Society (APS)
Recipient, Oliver E. Buckley Condensed Matter Physics Prize
Christopher H. Browne Distinguished Professor Emeritus, University of Pennsylvania

Michael Mann, PhD
Lead Author, IPCC Third Assessment Report
Fellow, American Association for the Advancement of Science
Member, US National Academy of Sciences
Recipient of the Tyler Prize
Distinguished Professor, Pennsylvania State University

David Michaels, PhD, MPH
Former Assistant Secretary of Labor for Occupational Safety and Health (2009-2017)
Former Assistant Secretary of Energy for Environment, Safety and Health (1998-2001)
Professor, Department of Environmental and Occupational Health
Milken Institute School of Public Health, The George Washington University

Susanne C. Moser, Ph.D.
Member, Scientific Steering Committee (Scoping Meeting), IPCC Special Report on the Impacts of Global Warming of 1.5 °C
Contributing Author, Coastal Systems of WG2, IPCC Fifth Assessment and Fourth Assessment
Review Editor, IPCC Special Report on Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation
Convening Lead Author, Coastal chapter, Third US National Climate Assessment
Senior Research Fellow, Aspen Global Change Institute
Affiliated Faculty, Department of Landscape Architecture and Regional Planning, University of Massachusetts-Amherst

Naomi Oreskes, PhD
Fellow, American Geophysical Union
Fellow, Geological Society of America
Fellow, American Association for the Advancement of Science
Fellow, American Academy of Arts and Sciences
Fellow, American Philosophical Society
Henry Charles Lea Professor of the History of Science and Affiliated Professor of Earth and Planetary Sciences, Harvard University

Jonathan Patz, MD, MPH
Co-chair, Health Report of the First US National Assessment on Climate Change
Lead Author, Second through Fourth IPCC Assessment Reports
Member, National Academy of Medicine
Tony J McMichael Professor and John P Holton Chair of Health and the Environment
Director, Global Health Institute, University of Wisconsin-Madison
Alan Robock, PhD  
Lead Author, Fifth IPCC Assessment Report  
Fellow, American Association for the Advancement of Science  
Fellow, American Geophysical Union  
Fellow, American Meteorological Society  
Recipient, American Meteorological Society Jule G. Charney Medal  
Distinguished Professor, Rutgers University  

Benjamin D. Santer, PhD  
Climatologist and Atmospheric Scientist  
Convening Lead Author, Chapter 8, IPCC Second Assessment Report  
John D. and Catherine T. MacArthur Fellowship  
Member, US National Academy of Sciences  
Recipient of the Procter Prize  

Geoffrey Supran, PhD  
Director of Climate Accountability Communications, Climate Social Science Network  
Research Fellow, Department of the History of Science, Harvard University  

Gernot Wagner, PhD  
Member, New York City Panel on Climate Change  
Clinical Associate Professor, Environmental Studies, New York University  
Associated Clinical Professor, NYU Wagner  

Donald J. Wuebbles, PhD  
Coordinating Lead Author, Fourth National Climate Assessment  
Fellow, American Association for the Advancement of Science  
Fellow, American Geophysical Union  
Fellow, American Meteorological Society  
Cleveland Abbe Award, American Meteorological Society  
Bert Bolin Global Environmental Change Award, American Geophysical Union  
The Harry E. Preble Professor of Atmospheric Sciences  
University of Illinois Presidential Fellow, University of Illinois