



# Community Climate Intervention Strategies

## Webinar 6: Observations to inform climate intervention strategies

### David Schimel: *"The global carbon observing (non) system: insights from the COVID experience"*

David Schimel is a Senior Research Scientist and Technical Group Supervisor for Carbon and Ecosystems at the Jet Propulsion Lab, California Institute of Technology, in Pasadena California. Prior to that he served as founding Principal Investigator and Chief Scientist for the National Ecological Observatory, Senior Scientist at the National Center for Atmospheric Research and Founding Director of the Max-Planck-Institute for Biogeochemistry in Jena, Germany. Schimel is the author of several books and over 200 research papers in ecosystem and climate science, with a focus on the global carbon cycle. Schimel is the Science and Applications co-lead for the NASA Surface Biology and Geology Designated Observable, to be launched no sooner than 2006. He is a Fellow of the American Geophysical Union, the Ecological Society of America and the Ecology Institute of Germany. Schimel has served on numerous boards and committees, and currently sits on the advisory committee of the Integrative Biodiversity Research in Leipzig Germany and the University Priority Programme in Biodiversity of the University of Zurich.



### Robert Wood: *"Using observations to better understand aerosol-cloud-climate interactions"*



Robert Wood is Professor of Atmospheric Sciences at the University of Washington. Rob's research aims to understand processes controlling atmospheric clouds and aerosol-cloud-climate interactions and uses a combination of observational data collected with aircraft, satellites and from ground-based remote sensing, together with numerical and theoretical models. Rob serves as principal investigator for the Marine Cloud Brightening (MCB) Project, a consortium consisting of the University of Washington, XEROX's Palo Alto Research Center (PARC), the DOE Pacific Northwest National Lab (PNNL) and the NGO SilverLining. In this presentation, Rob will discuss a pathway for how observations can be used to reduce uncertainty in our understanding of aerosol-cloud-climate interactions and provide critical tests to establish the potential for intentionally brightening marine low clouds by augmenting the natural marine aerosol particle population.

### Jean-Paul Vernier: *"Climate intervention with stratospheric aerosols: status of our current understanding of the real world"*

Jean-Paul Vernier is a senior scientist at the National Institute of Aerospace based at NASA Langley Research Center in Hampton, Virginia. He is an expert on satellite and *in situ* measurements of atmospheric composition. He studies the impact on stratospheric composition from volcanic eruptions and pollutant transport in the Summer Asian Monsoon using satellite observations and airborne field campaign data. In this presentation, he will discuss how observations can contribute to understanding potential impacts of stratospheric aerosol climate intervention.



**Join us online 08 July 2020 at 9–11 AM MDT (GMT-6)**

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