

AGENDA

Strategic Workshop on Geoengineering Research

25 and 26 November 2009

Max Planck Institute for Meteorology, Hamburg, Germany

Venue: KlimaCampus, Grindelberg 5

D-20144 Hamburg

Room 008, ground floor

Day 1 - Wednesday, 25 Nov. 2009

10:00	Bjorn Stevens	Welcome
10:15	Hauke Schmidt	Welcome - purpose of the meeting
10:45-12:30	Chair: H. Schmidt	Introduction
10:45	David Keith	Geoengineering, an introduction (45 min)
11:30	Andrew Parker	The Royal Society's recommendations on geoengineering research
12:00	Jason J. Blackstock	Geoengineering Research and global climate politics
12:30	Asbjorn Aaheim	The economics of geoengineering: What do we know, and what do we need to know?
13:00 – 14:00		Lunch break
14:00 – 15:30	Chair: M. Schulz	Future numerical experiments
14:00	Alan Robock	A Proposal for standardized geoengineering experiments for CMIP5
14:30	Michael Schulz	Numerical Simulations planned within IMPLICC
15:00		Discussion
15:30 – 16:00		Coffee break
16:00 – 18:30	Chair: A. Baumgärtner	Sulfate aerosol engineering
16:00	Claudia Timmreck	<i>Volcanic aerosols as an analog for sulfate geoengineering</i>
16:30	Eugene Rozanov	Impact of geoengineering aerosols on stratospheric temperature and ozone
17:00	Georgiy Stenchikov	Impact of solar radiation management on oceans
17:30	Victor Brovkin, Thomas Raddatz	An impact of sulfate aerosol engineering on the carbon cycle
18:00	Yuri Antonievich Izrael	Approaches to geoengineering climate stabilization including field experiments

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Day 2 - Thursday, 26 Nov. 2009

09:00 – 10:30		Sulfate aerosol engineering, continued
09:00	Kate Ricke	Regional climate sensitivities to stratospheric albedo modification: some results from a climateprediction.net geoengineering experiment
09:30	Olivier Boucher	Testing the cloud brightening and stratospheric aerosol schemes in the Hadley Centre climate model
10:00		Discussion
10:30 – 11:00		Coffee break
11:00 - 14:30	Chair: J. E. Kristjansson	Marine cloud engineering
11:00	John Latham	Global temperature stabilisation via the geo-engineering of marine clouds
11:30	Alan Gadian	Cloud Whitening: some climate simulations, observations and proposed cloud modelling studies
12:00	Hannele Korhonen	Effects of aerosol processes and wind speed on the feasibility of sea spray geoengineering
12:30 – 13:30		Lunch break
13:30	Stephen Salter	The design of a spray vessel to implement Latham's cloud albedo method of reversing global warming
14:00		Discussion
14:30 – 15:15	Chair: A. Aaheim	Experience with ocean fertilization and public interaction
14:30	Victor Smetacek/Ulrich Bathmann	Lessons from LOHAFEX: Dealing with scientific issues of ocean iron fertilisation and public opinion about them
15:00	Laurent Bopp/Michael Schulz	Stimulating the Biological Pump to Mitigate Climate Change: Modelling Iron Fertilization & Ocean Pipes
15:15 – 15:45		Coffee break
15:45 – 16:45	Chair: A. Aaheim	Comparison of geoengineering methods
15:45	Naomi Vaughan	The radiative forcing potential of different climate geoengineering options
16:15	Alexey Ryaboshapko	Comparative analyses of climate geoengineering approaches
16:45 - 18:00	chair: H. Schmidt	Final discussion - future research needs