



Tuesday, November 15, 2011, Keith Spalding, Third Floor, Seminar Room 376

Monitoring volcanic eruptions (as geoengineering analogues)

Time	Event	Speaker
8:00 - 8:30	Coffee and refreshments	
8:30 - 8:45	KISS Logistics and Overview	Michele Judd/Tom Prince
8:45 - 9:15	Introductions and Goals of Workshop	Riley Duren
9:15 - 10:15	Stratospheric geoengineering and the volcano analog Volcano analog, GeoMIP Aerosol evolution WACCM and ozone WACCM and ozone	Alan Robock Jason English Simone Tilmes [via Webex] Mike Mills
10:15 - 10:30	Break	
10:30 - 11:30	Stratospheric geoengineering and the volcano analog (continued) Regional geoengineering Chinese research, ice cores Volcanic eruptions and cirrus clouds Agricultural responses	Mike MacCracken John Moore Ken Sassen Lili Xia
11:30 - 12:00	Discussion	
12:00 - 1:30	Lunch at the Athenaeum	
1:30 - 3:30	Existing monitoring capability for volcanic eruptions Balloons LIDAR Limb-scanning satellites Constellation of small satellites proposal	Terry Deshler Jean-Paul Vernier Adam Bourassa Brian Toon [via Webex]
3:30 - 4:00	Break	
4:00 - 5:00	Discussion	
5:00 - 7:00	KISS Dinner at the Athenaeum	

Wednesday, November 16, 2011, Hameetman Auditorium, Cahill Building

Ship Track/Cloud Studies (as geoengineering analogues)

Time	Event	Speaker
8:00 - 8:30	Coffee and refreshments	
8:30 - 8:50	Welcome	Joyce Penner
8:50 - 10:10	Expectations for response of clouds to aerosols	Robert Wood
	How good are satellite data (or issues with satellite data) for determining response of clouds to aerosols?	Jay Mace
	The potential use of CALIPSO to study the possible impact of volcanic plumes on cirrus clouds microphysics	Jean-Paul Vernier
	Global modeling of Cirrus clouds	Xiaohong Liu
10:10-10:30	Break	
10:30 - 12:00	Recent studies off the coast of Monterey	Armin Sorooshian John Seinfeld
	Ship Effects	Veronika Eyring [Webex]
	Process-modeling study of ship tracks and marine cloud brightening	Hailong Wang
	Can ship track data be used to evaluate geo-engineering schemes?	Phil Durkee
12:00 - 1:30	Lunch on your own	

Wednesday, November 16, 2011, Keith Spalding, Third Floor

Ship Track/Cloud Studies (as geoengineering analogues) in KS 367		Targeted Arctic Interventions in KS 300
1:30 - 2:30	High resolution global modeling of cloud response to aerosol perturbations	Minghuai Wang
	Use of Satellite data to determine indirect effects	Kari Alterskjær
	Modeling data: Is it possible to use satellite data in combination with models to determine response?	Joyce Penner
2:30 - 3:00	Discussion	Splinter Discussions
3:00 - 3:30	Break	
3:30 - 5:00	Discussion	Splinter Discussions
5:30 - 7:00	Dinner Buffet at the Athenaeum	

Thursday, November 17, 2011, Keith Spalding, Third Floor, Seminar Room 376

KISS Geoengineering Project (core team meeting)

Time	Event	Speaker
8:00 - 8:30	Coffee and refreshments	
8:45 - 9:00	Objectives: planning for Development Phase of project (and other opportunities)	Riley Duren
9:00 - 9:45	Summary/Discussion of Task 1 (Volcano monitoring) findings and recommendations	Alan Robock
9:45 - 10:15	Break	
10:30 - 11:15	Summary/Discussion of Task 2 (Ship track studies) findings & recommendations	Joyce Penner
11:15 - 12:30	Summary/Discussion of Task 3 (Reflected solar energy monitoring) findings & recommendations	Graeme Stephens
12:30 - 2:00	Lunch on your own	
2:00 - 3:30	Summary/Discussion of Task 4 (Targeted Interventions) findings & recommendations	Jane Long
3:30 - 4:00	Discussion of relative priority of tasks	All
5:00 - 7:00	Offsite no-host dinner in Pasadena (but KISS will pay for grad students and postdocs who attend)	

Friday, November 18, 2011, Keith Spalding, Third Floor, Seminar Room 376

KISS Geoengineering Project (core team meeting)

Time	Event	Speaker
8:00 - 8:30	Coffee and refreshments	
8:30 - 10:00	Continued discussion: priorities and ranking of tasks for development phase	All
10:00 - 10:30	Break	
10:30 - 11:00	Outline for development phase proposal	Riley Duren
11:00 - 12:00	Breakout writing: summarize key points for proposal	
12:00 - 1:30	Lunch	
1:30 - 2:00	Review proposal outline with key points	
2:00 - 3:00	Timeline and next steps	
3:00	End of Workshop	

