

Tri-MIP-athlon-2 AGENDA

Tuesday June 11, 2019		
Time	Title	Presenter
	Welcome and MIP Overview	
9:00	Welcome	V. Ramaswamy
9:10	Summary of Tri-MIP-1	Bill Collins (UK)
9:20	PDRMIP: Overview of available data	Gunnar Myhre
9:40	PDRMIP: Examples of analysis	Piers Forster
10:00	AerChemMIP: Status and available data	Bill Collins (UK)
10:20	RFMIP: Status and available data	Robert Pincus
10:40	BREAK - snacks and drinks will be provided	
	CMIP6 Model Evaluation – Jordan Schnell and J.-F. Lamarque	
11:10	First results of CMIP6 model evaluation with the Earth System Model Evaluation Tool (ESMValTool)	Birgit Hassler
11:30	Aircraft measurements as constraints for GCMs	Duncan Watson-Parris
11:50	Air pollutants in CMIP6: Model evaluation and future trends with UKESM1	Steven Turnock
12:10	Emissions-MIP: A Multi-Model Emissions Sensitivity Evaluation	Steven J Smith
12:30	LUNCH - will be provided	
	Ozone and Hydroxyl Radicals – Pu Lin and Lee Murray	
13:50	Exploring stratospheric ozone changes and their drivers from pre-industrial to present day in the UKESM1 model.	James Keeble
14:10	Ozone budget and trends in AerChemMIP integrations using UKESM-1	Paul Griffiths
14:30	Twenty years of observed tropospheric ozone increases across the Northern Hemisphere	Audrey Gaudel
14:50	A Machine Learning Examination of Hydroxyl Radical Differences Between Chemistry-Climate Model and Chemical Transport Model Simulations for CCMI-1	Julie Nicely
15:10	BREAK – snacks and drinks will be provided	
15:40	Overview of IPCC AR6 chapter 6 (Short-lived Climate Forcers)	Bill Collins (US), Vaishali Naik
16:00	Discussion of analysis needs for Chapter 6	MIP leads plus chapter authors
17:00	END	
18:00	GROUP DINNER	Brick House Tavern+Tap at Marketfair

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Wednesday June 12, 2019		
Time	Title	Presenter
CMIP6 Radiative Forcing – Susanne Bauer and Robert Pincus		
9:00	Historical aerosol forcing diagnosis in CMIP6, AerChemMIP and AeroCom models	Michael Schulz
9:20	Early results and future plans for RFMIP-ERF	Chris Smith
9:40	UKESM1: A first assessment of the pre-industrial to present-day anthropogenic forcing, including attribution of the methane forcing	Fiona O'Connor
10:00	RFMIP ERF forcing in GFDL CM4	David Paynter
10:20	BREAK - snacks and drinks will be provided	
CMIP6 Radiative Forcing - contd. – Zhaoyi Shen and J.-L. Dufresne		
10:50	Using RFMIP experiments with prescribed anthropogenic aerosol for understanding model diversity in forcing	Stephanie Fiedler
11:10	Examine the radiative effect of nitrate aerosols using the MOSAIC aerosol module coupled in CESM2 model	Zheng Lu
11:30	Anthropogenic Suppression of Dust Aerosols By Irrigation	Ron Miller
11:50	Are changes in atmospheric circulation important for BC impacts on radiation, cloud and precipitation?	Ben Johnson
12:10	LUNCH - will be provided	
13:30	Overview of IPCC AR6 chapter 7 (Energy budget, climate feedback and sensitivity)	Piers Forster, Bill Collins (UK), Jean-Louis Dufresne, Chris Smith
13:50	Discussion of analysis needs for chapter 7	MIP leads plus chapter authors
14:50	BREAK - snacks and drinks will be provided	
Feedbacks – Robert Allen and Drew Shindell		
15:20	Quantifying Biogeochemical Feedbacks in CMIP6 Earth System Models	Gillian Thornhill
15:40	Impact of sea salt representation on the GFDL CM4 climate sensitivity	Fabien Paulot
16:00	Evaluation of natural marine aerosol in Earth System Models and its impact on anthropogenic forcing and natural feedback strength estimates	Dirk Olivie
16:20-17:30	Poster Session	See next page

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Wednesday June 12, 2019 continued

16:20 Poster introduction ~ 1 minute each

16:30 **Poster session**

- 1** Value and interpretation of different radiative forcing estimates using the IPSL-CM6 model **Jean-Louis Dufresne**
 - 2** An investigation into sources of solar radiative parameterization biases in the determination of model aerosol instantaneous radiative effect **Stuart Freidenreich**
 - 3** Sensitivity of effective radiative forcing to direct and indirect effects of individual aerosol species **Gaurav Govardhan**
 - 4** Evolution of the global methane budget over the 1980-2017 period using the GFDL-AM4 **Jian He**
 - 5** Cloud radiative responses to different radiative forcing agents **Haozhe He**
 - 6** Seasonal contrast of the long-term trend of surface solar radiation over eastern United States and western Europe **Yawen Liu**
 - 7** Intercomparison of RFMIP-IRF Offline Radiation Forcing Scenarios Between GFDL-GRTC CODE, GFDL-AM4, and RFM-DISORT **Raymond Menzel**
 - 8** Results from the Météo-France AerChemMIP and RFMIP simulations, with a focus on aerosols and ozone **Martine Michou**
 - 9** Pre-industrial to present-day trends in OH simulated by CMIP6/AerChemMIP models **Fiona O'Connor**
 - 10** Cloud impacts on photochemistry: a new climatology of photolysis rates from the Atmospheric Tomography mission **Michael Prather**
 - 11** Climate responses of East Asian Summer Monsoon to Near-Term Climate Forcers using UKESM **Jeongbyn Seo**
 - 12** How accurate are radiative kernels for rapid adjustment analysis? **Chris Smith**
 - 13** CESM Responses to Aerosol Perturbations **Steven J Smith**
 - 14** Effective Radiative Forcing and Climate Response to Short-Lived Climate Pollutants Under Different Scenarios **Hua Zhang, Bing Xie**
 - 15** Changes and Attribution of Atmospheric Precipitable Water Changes since the 1970s over China based on CMIP5 models **Tianbao Zhao**
 - 16** Possible warming effect of anthropogenic aerosols on cirrus clouds **Jialei Zhu**
- 17:30** **END**

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Thursday June 13, 2019		
Time	Title	Presenter
	Instantaneous Radiative Forcing – David Paynter and Stephanie Fiedler	
9:00	Inter-model spread in instantaneous radiative forcing across multiple climate drivers	Ryan Kramer
9:20	Benchmark calculations of radiative forcing by greenhouse gases	Robert Pincus
9:40	Global Line-by-Line Calculations of Aerosol Radiative Forcing: Understanding Sources of Error in GCM Radiation Codes	David Paynter
10:00	An Analytical Model for Spatially Varying Clear-Sky CO2 Forcing	Nadir Jeevanjee
10:20	BREAK - snacks and drinks will be provided	
	Response to Forcings – Gunnar Myhre and Fiona O'Connor	
10:50	Observationally-Constrained Aerosol-Cloud Rapid Adjustments	Robert J. Allen
11:10	Cloud water adjustment to aerosol perturbation in climate models	Minghui Wang
11:30	Multimodel extreme temperature and precipitation response to regional aerosol emissions reductions	Daniel Westervelt
11:50	Significance of precipitation process in aerosol effect on global energy budget	Kentaroh Suzuki
12:10	LUNCH - will be provided	
	Radiative impacts of natural and anthropogenic constituents – Michael Schulz and Vaishali Naik	
13:30	Atmospheric Forcing of Decadal Climate Variability	William Dow
13:50	Greenhouse effect: contribution of the emission height and total absorption	Jean-Louis Dufresne
14:10	Investigating Recent Changes in the Global Clear Sky Greenhouse Effect and Cloud Radiative Effect	Shiv Priyam Raghuraman
14:50	BREAK - snacks and drinks will be provided	
15:20	Discussion of non-IPCC related work and future plans for the MIPs Atmospheric Composition and Asian Monsoon: A proposed new CCMI-AeroCom modeling and analysis in coordination with ACAM community PDRMIP: Ongoing activities and plans	Michael Schulz on behalf of Mian Chin Gunnar Myhre
17:00	END	

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Friday June 14, 2019		
Time	Title	Presenter
9:00	Topic-focused breakout group discussions centered on meeting IPCC and MIP goals	
10:40	BREAK - snacks and drinks will be provided	
11:00	Summary from breakout groups	Group Leads
11:45	Workshop wrap-up	David and Vaishali
12:00	END (no Lunch provided)	