

Tri-MIPathlon-3 AGENDA

Day 1 Wednesday, December 1, 2021

UTC: 12:45-13:00 - Test your Zoom connection

UTC: 13:00-15:30

05:00-07:30 Pacific | 06:00-08:30 Mountain | 08:00-10:30 Eastern US | 13:00-15:30 UTC/GMT | 14:00-16:30 Central Europe | 15:00-17:30 Eastern Europe | 21:00-23:30 China | 22:00-00:30 Japan

		Atmospheric Composition	
UTC		Session Chairs: Fiona O'Connor & Bill Collins https://etherpad.wikimedia.org/p/trimip-dec1	Presenter
1	13:00 - 13:05	Introduction	Chris Smith
2	13:05 - 13:17	Dust aerosols in the CMIP6 models	Alcide Zhao
3	13:17 - 13:29	Deriving global/regional averages from sparse observations	Nick Schutgens
4	13:29 - 13:41	Aerosol models underestimate emitted particle sizes and misrepresent wet deposition for biomass burning	Qirui Zhong
5	13:41 - 13:53	The local and remote climate and human health impacts of Africa's 21 st century aerosol emission trajectory	Chris Wells
6	13:53 - 14:05	Climate change penalty and benefit on surface ozone: A global perspective based on CMIP6 Earth System Models	Prodromos Zanis
7	14:05 - 14:17	Climate feedback from vegetation emissions is strongly dependent on modelling of atmospheric chemistry.	James Weber
	14:17 - 14:30	Break	
		Posters	
8	14:30 - 14:32	Biases in historical and near term future trends of aerosol forcing and loads, can we constrain them by observable parameters?	Michael Schulz
9	14:32 - 14:34	Sensitivity of total column ozone projections to future emissions scenario	James Keeble
10	14:34 - 14:36	What has CMIP6 added to our understanding of tropospheric ozone?	Paul Griffiths
11	14:36 - 14:38	Methane: At the interface between hydrology, air quality, aerosols, clouds, and climate	Fiona O'Connor
12	14:38 - 14:40	The combined climate and air quality response from near term climate forcers under different future sensitivity scenarios in UKESM1	Steven Turnock
13	14:40 - 15:00	Discussion	
13	15:00 - 15:30	Discussion Topics in 4 parallel break-out groups	Discussion Leads
		Atmospheric Composition and model biases: Biases in historical and near term future trends of aerosol forcing and loads / Dust emissions in climate models	Alcide Zhao & Michael Schulz
		Radiative Forcing: Regression-based forcing estimate	Hege-Beate Fredriksen
		SLCFs and Climate response: Impact of wildfires on atmospheric composition and climate	Apostolos Voulgarakis
		SLCFs and Climate response: Further Exploration of the Impact from Near Term Climate Forcers on Air Quality and Climate	Steven Turnock & Robert Allen

Tri-MIPathlon-3 AGENDA

Day 2 Thursday, December 2, 2021

UTC: 12:45-13:00 - Test your Zoom connection

UTC: 13:00-15:30

05:00-07:30 Pacific | 06:00-08:30 Mountain | 08:00-10:30 Eastern US | 13:00-15:30 UTC/GMT | 14:00-16:30 Central Europe | 15:00-17:30 Eastern Europe | 21:00-23:30 China | 22:00-00:30 Japan

		Radiative Forcing	
UTC		Session Chairs: Chris Smith & Stephanie Fiedler https://etherpad.wikimedia.org/p/trimip-dec2	
1	13:00 - 13:12	Unraveling the cause of intermodel spread in CO ₂ forcing	Haozhe He
2	13:12 - 13:24	Intermodel spread in instantaneous radiative forcing across multiple climate drivers	Ryan Kramer
3	13:24 - 13:36	Efficacy of climate forcings in transient CMIP6 simulations	Gunnar Myhre
4	13:36 - 13:48	The role of anthropogenic aerosols in the anomalous cooling from 1960 to 1990 in the CMIP6 Earth System Models	Jie Zhang
5	13:48 - 14:00	Improving the simulation of historical surface temperature in UKESM1	Jane Mulcahy
6	14:00 - 14:12	The timescales of climate responses to carbon dioxide and aerosols	Camilla W. Stjern
		Posters	
	14:12 - 14:14	How does the treatment of precipitation in a climate model improve the representation of aerosol-cloud interactions?	Takuro Michibata
7	14:14 - 14:16	Global and Arctic effective radiative forcing of anthropogenic gases and aerosols in MRI-ESM2.0	Naga Oshima
8	14:16 - 14:18	Improving regression-based forcing estimates by accounting for the non-constancy of the feedback parameter	Hege-Beate Fredriksen
9	14:18 - 14:20	Effective radiative forcing in a GCM with fixed surface temperatures	Tim Andrews
10	14:20 - 14:22	Future aerosol radiative forcing over the arctic as simulated by GISS-E2.1	Ulas Im
11	14:22 - 14:24	Decomposing the effect of different anthropogenic aerosol types on ERF and fast climate responses based on five Earth System Models	Alkiviadis Kalisoras
12	14:24 - 14:26	Future tropospheric and stratospheric ozone radiative forcing using the CMIP6 database	Ramiro Checa-Garcia
13	14:26 - 14:28	Similar patterns of tropical precipitation and circulation changes under solar and greenhouse gas forcing	Stergios Misios
	14:28 - 14:40	Break	
14	14:40 - 15:00	Discussion	
15	15:00 - 15:30	Discussion Topics in 4 parallel break-out groups	Discussion Leads
		Atmospheric Composition and model biases: Tropospheric Ozone	Paul Griffiths, Lee Murray & Guang Zeng
		Radiative Forcing: The contribution of RFMIP: Successes and next steps	Chris Smith
		Radiative Forcing: The implications of a non-constant CO₂ forcing	Ryan Kramer
		SLCFs and Climate response: Regional climate response to different forcing agents	Angshuman Modak

Tri-MIPathlon-3 AGENDA

Day 3 Friday, December 3, 2021

UTC: 12:45-13:00 - Test your Zoom connection

UTC: 13:00-15:45

05:00-07:45 Pacific | 06:00-08:45 Mountain | 08:00-10:45 Eastern US | 13:00-15:45 UTC/GMT | 14:00-16:45 Central Europe | 15:00-17:45 Eastern Europe | 21:00-23:45 China | 22:00-00:45 Japan

		Climate Response and Feedbacks	
UTC		Session Chairs: Gunnar Myhre & Toshi Takemura https://etherpad.wikimedia.org/p/trimip-dec3	
1	13:00 - 13:12	Diverse responses of global-mean surface temperature to external forcings and internal climate variability in observations and CMIP6 models	Harun Rashid
2	13:12 - 13:24	Simulation of aerosol-induced climate change due to emission change by region and composition using a coupled atmosphere-ocean model	Toshihiko Takemura
3	13:24 - 13:36	Developing emulators of regional climate responses to regional aerosol perturbations using three coupled chemistry-climate models	Daniel M. Westervelt
4	13:36 - 13:48	Regional Aerosol MIP	Laura Wilcox
5	13:48 - 14:00	Emulating the spatially resolved climate response to both GHGs and SLCFs	D. Watson-Parris
6	14:00 - 14:12	Significant climate benefits from near-term climate forcer mitigation in spite of aerosol reductions	Robert J Allen
7	14:12 - 14:24	Correlation between cloud adjustments and cloud feedbacks responsible for the high climate sensitivities of CMIP6 models	Nicholas Lutsko
	14:24 - 14:40	Break	
8	14:40 - 14:52	How well can we constrain cloud feedbacks from the past twenty years of CERES measurements?	Shiv Priyam Raghuraman
9	14:52 - 15:04	Equilibrium Climate Sensitivity of GFDL CM4 in response to RFMIP ERF time slice experiments.	David Paynter
10	15:04 - 15:20	Discussion	
11	15:20 - 15:40	Summary of Outcomes and Action Items from Topic Discussions	Rapporteur
		Atmospheric Composition and model biases: Biases in historical and near term future trends of aerosol forcing and loads / Dust emissions in climate models	Alcide Zhao
		Atmospheric Composition and model biases: Tropospheric Ozone	
		Radiative Forcing: Regression-based forcing estimate	Ryan Kramer
		Radiative Forcing: The implications of a non-constant CO ₂ forcing	
		Radiative Forcing: The contribution of RFMIP: Successes and next steps	
		SLCFs and Climate response: Further exploration of the impact from near term climate forcers on air quality and climate	Bob Allen
		SLCFs and Climate response: Impact of wildfires on atmospheric composition and climate	Matt Kasoar
		SLCFs and Climate response: Regional climate response to different forcing agents	
15:40 - 15:45		Wrap-up	Stephanie Fiedler

Tri-MIPathlon-3 LOGISTICAL INFORMATION

December 1 – 3, 2021

Meeting begins every day at

05:00 Pacific | 06:00 Mountain | 08:00 Eastern US | 13:00 UTC/GMT | 14:00 Central Europe |
15:00 Eastern Europe | 21:00 China | 22:00 Japan

Zoom link for the meeting (same for the three days)

Zoom link was sent out by email upon registration and is not shared publicly.

For any difficulties connecting, please email c.j.smith1@leeds.ac.uk

Link for uploading your posters in pdf format (a day before your presentation) and talks

https://drive.google.com/drive/folders/1_SViRTd-7YjTOTfKxsewX1MpCRnHixt5

Discussion Etherpad links for each day

(please add your name before your comment)

Dec 1 – <https://etherpad.wikimedia.org/p/trimip-dec1>

Dec 2 – <https://etherpad.wikimedia.org/p/trimip-dec2>

Dec 3 – <https://etherpad.wikimedia.org/p/trimip-dec3>