



Science meeting 2026

Schedule

Wednesday 15th July: Day 1 of UKCA science meeting	
Location: School of Earth, Environment and Sustainability seminar rooms	
TEAMS link for remote attendees	
1200 – 1300 (BST)	Lunch in foyer
1300 – 1345	Session 1: Invited presentations (Ross chairing)
1300 – 1305	Welcome
1305 – 1325	Paul Griffiths & Fiona O'Connor - Lessons learned from AerChemMIP and future directions
1325 – 1345	Jane Mulcahy (virtual) - Introduction to UKESM2
1345 – 1430	Session 2: New Science with UKCA part 1 (Leighton chairing)
1345 – 1400	David Stevenson - The UKCA global carbon monoxide budget (part of a GCP-IGAC activity)
1400 – 1415	Yao Ge - Revised marine sulfur chemistry and methanethiol emissions strengthen aerosol-cloud cooling over the Southern Ocean in UKESM
1415 – 1430	James Keeble - Constraining Ozone Return Dates in CCMI-2022 Projections
1430 – 1500	Coffee break
1500 – 1615	Session 3: UKCA model development (Dan chairing)
1500 – 1515	Invited speaker: Mohit Dalvi (virtual) - GitHub migration
1515 – 1530	Hannah Bryant - Influence of pulse emissions of anthropogenic hydrogen in the atmosphere in UKESM
1530 – 1545	Print Sakulsupich - Halocarbon chemistry in UKCA and heterogeneous reaction in the stratosphere
1545 – 1600	Léa Prévost - Targeted model developments to reduce aerosol forcing uncertainties
1600 – 1615	Charlie Wartnaby - The impact of aviation NO _x emissions during COVID-19: modelling with UKCA StratTrop and CRI-Strat2 schemes using CMIP7 historical emissions
1615 – 1800	Session 4: Poster session (Cat chairing)
1615 – 1630	Lightning talks for posters (1 slide + 1min each)
1630 – 1800	Posters and nibbles
1800 onwards	Evening meal/social - We do not have official plans for the evening, but we will provide a list suggesting some bars, food options, and places to watch the football around the city. We'll update you on the day, and feel free to join us wherever we end up deciding to go!

Thursday 16th July: Day 2 of UKCA science meeting

Location: School of Earth, Environment and Sustainability seminar rooms

[TEAMS link for remote attendees](#)

0900 – 1000 (BST)	Session 5: New science with UKCA part 2 (Cat chairing)
0900 – 0915	Catherine Hardacre (virtual; GMT+12 = 2000 local) - Regional scale evaluation of aerosol, clouds and radiation in the Southern Ocean with new observations
0915 – 0930	Sonya Fiddes (virtual; GMT+10 = 1815 local) - Coupling UKCA aerosols to INP parameterisations in the UM RNS with CASIM for a test case over the Southern Ocean
0930 – 0945	Ross Herbert - Ice-Nucleating Particles (INPs) in the future
0945 – 1000	Steven Turnock - Untangling the web of Fire-Climate interactions on Atmospheric Composition in an Earth System Model
1000 – 1030	Coffee break with posters
1030 – 1100	Session 6: Novel approaches to model evaluation and Machine learning (Steve chairing)
1030 – 1045	Invited speaker: Dan Partridge - Towards constraining aerosol lifecycle and aerosol–cloud interactions in UKESM1 through model development and process-orientated evaluation
1045 – 1100	Leighton Regayre - UK Met Office aerosol evaluation toolkit and model development under uncertainty
1100 – 1115	Dan Grosvenor - Improving boundary layer nucleation of aerosol in UKESM
1115 – 1130	James Weber - Towards a fine-tuned foundation model for UKCA
1130 – 1200	Session 7: What are the key things we want to evaluate / make sure we're getting right in the new UKESM2 model? This isn't limited to the hackathon. - Announce next year's venue
1200 – 1300	Lunch (+ posters?)
	End of UKCA science meeting (start of UKCA hackathon)
Thursday 1300 – 1700	Hackathon part 1 Location: Upper Chapel, Fairbairn House (NCAS building) TEAMS link for remote attendees
Friday 0830 – 1200	Hackathon part 2 Location: Upper Chapel, Fairbairn House (NCAS building) TEAMS link for remote attendees

Poster presentations

Presenter	Title
Alex Mason	Assessing combinations of regional MCB designed to target multiple climate response objectives
Amy Peace	Towards UKESM2: Interactive Fire Impact on Aerosol ERF
Anthony Jones	SOL/INSOL: Evaluation of a simple modal aerosol scheme for weather prediction
Charlotte Alexander	Multiple Mitigation Methods to Maintain 1.5°C - CO ₂ , CH ₄ and SAI
Erin Raif	Evolution of ice-nucleating particle concentration in an Arctic Cold Air Outbreak
Garry Hayman	JULES with Atmospheric Dry Deposition
Gerd Folberth	Is the Methane Cycle Reversible? Asymmetric Responses and Biogeochemical Feedbacks under Idealised $\pm 1\%$ CO ₂ Forcing
Graham Mann	Volcanic forcings from high-sulfur water-rich explosive eruptions: Interactive model experiments from 2022 Hunga
Hannah Bryant	The atmospheric formaldehyde budget and its modulation by methane and hydrogen
Jamie Knight	An evaluation of aerosol activation in the Met Office Unified Model using an embedded cloud parcel model
Joseph Carton-Kelly	Evaluating a double-moment cloud model coupled to UKCA over the Amazon
Laura Stecher	Improving tropospheric chlorine for methane isotopologues in UKESM
Saffron Heddell	Modelling the Impact of the 2022 Hunga Eruption on Polar Stratospheric Ozone Depletion

List of attendees

		Affiliation	Virtual	Hackathon	Poster?
Alan	Hewitt	Met Office		maybe	
Alanah	Chapman	University of Melbourne	yes		
Alex	Tardito Chaudhri	University of Edinburgh	yes		
Alex	Mason	University of Exeter		yes	yes
Amy	Peace	Met Office		yes	yes
Angela	Mynard	Met Office			
Anthony	Jones	Met Office		maybe	yes
Ben	Johnson	Met Office		maybe	
Carly	Reddington	University of Leeds			
Cat	Scott	University of Leeds		yes	
Catherine	Hardacre	University of Canterbury	yes	maybe	
Charlie	Wartnaby	University of Cambridge		yes	
Charlotte	Alexander	University of Exeter		yes	yes
Daniel	Grosvenor	Met Office and University of Leeds		yes	
Daniel	Partridge	University of Exeter			
Danny	McCulloch	University of Exeter		yes	
David	Stevenson	The University of Edinburgh			
Dian-Yi	Li	University of Exeter		maybe	
Erin	Raif	University of Leeds		maybe	yes
Fiona	O'Connor	UK Met Office & University of Exeter			
Garry	Hayman	UK Centre for Ecology & Hydrology			Yes
George	Manville	University of Exeter		yes	
Gerd	Folberth	UK Met Office			yes
Graham	Mann	University of Leeds			yes
Hamish	Gordon	Carnegie Mellon	yes		
Hannah	Bryant	University of Edinburgh		yes	yes
Jacob	Clements	Met Office			
James	Weber	University of Reading		maybe	
James	Keeble	Lancaster University			
Jamie	Knight	University of Exeter			yes
Jane	Mulcahy	Met Office	yes		
Joseph	Carton-Kelly	Met Office			yes
Junri	Zhao	Exeter University			
Kathryn	Vest	Lancaster University			
Keith	Shine	University of Reading	yes		
Kelly	Palmer-Cheung	University of Leeds (UNRISK intern)		maybe	
Laura	Stecher	University of Cambridge		yes	yes
Léa	Prévost	University of Leeds		yes	
Leighton	Regayre	UK Met Office		yes	
Luke	Abraham	NCAS, University of Cambridge	yes		
Maria	Russo	NCAS, University of Cambridge	yes	maybe	
Mark	Richardson	University of Leeds		yes	

		Affiliation	Virtual	Hackathon	Poster?
Martyn	Chipperfield	University of Leeds		maybe	
Matt	Woodhouse	CSIRO	yes		
Matt	Kasoar	Imperial College London			
Matthew	Henry	University of Exeter			
Meghna	Soni	University of Exeter	yes	yes (online?)	
Mohit	Dalvi	Met Office Hadley Centre	yes		
Molly	MacRae	University of Reading		yes	
Nicola	Warwick	University of Cambridge	yes		
Paul	Griffiths	University of Bristol		yes	
Penelope	Maher	University of Exeter		maybe	
Print	Sakulsupich	University of Cambridge		yes (online)	
Rebecca	Jackson	CSIRO	yes	maybe	
Richard	Pope	University of Leeds		yes	
Robert	Waters	University of Cambridge			
Ross	Herbert	ICAS, University of Leeds		yes	
Ruth	Doherty	University of Edinburgh	yes		
Ryan	Pound	University of Reading			
Saffron	Heddell	University of Leeds		maybe	yes
Sandip	Dhomse	University of Leeds		yes	yes
Soffie	Wisniewska	University of Leeds		yes	
Sonya	Fiddes	University of Tasmania	yes		
Steve	Rumbold	NCAS Reading; Met Office Hadley Centre	yes		
Steven	Turnock	Met Office		yes	
Tanusri	Chakraborty	University of Reading	yes	maybe	
Thomas	Morgan	University of Birmingham (UNRISK internship)		maybe	
Wenjun	Liang	University of Exeter		yes	
William	Collins	University of Reading			
Wuhu	Feng	NCAS, University of Leeds		yes	
Xin	Zhou	University of Leeds		maybe	
Xu-Cheng	He	University of Helsinki		yes	
Yajuan	Li	University of Leeds			
Yao	Ge	University of Cambridge		yes	
Yue	Chen	University of Leeds			
Zainab	Hakim	Yusuf Hamied Department of Chemistry, University of Cambridge		yes	
Zhiqiang	Cui	University of Leeds			
Zihao	Wang	ICAS			