

JULES Annual Science Meeting 2026

Location: Sutcliffe Lecture Hall (GU01) Brian Hoskins Building,
Department of Meteorology, University of Reading

Agenda

Time	Speaker	Topic
Tuesday 8 September		
13:00	—	Arrival
13:15	—	Welcome & housekeeping
13:30–13:45	Boya Zhou	An eco-evolutionary optimality-based prognostic leaf area index model in the Joint UK Land Environment Simulator (JULES)
13:45–14:00	Wenyao Gan	Implementation of the sub-daily P model for C3 and C4 photosynthesis in JULES
14:00–14:15	Rémi Gaillard	From static to dynamic soil properties in JULES: implications for high-latitude simulations
14:15–14:30	Toby Marthews	The JULES Academy: a new approach to international JULES training
14:30–15:00	—	☕ Coffee break
15:00–15:15	John Edwards	Deriving soil properties for JULES from SoilGrids2.0 in Met Office models
15:15–15:30	Gabriel Rooney	Update from Hydrology and Surface Processes Group
15:30–15:45	Toby Marthews	Discussion on JULES Training
15:45–16:00	Douglas Kelley	JLMP announcement
16:00–17:00	—	Module updates
19:00 onwards	—	🍷 Conference dinner @ Cote Reading
Wednesday 9 September		
08:30–09:00	—	Arrival and poster set-up
09:00–09:15	Hashmi Fatima	Improvement of Soil Moisture Forecasts using Indian Soil Moisture Network Observations
09:15–09:30	Ross Maidment	A new, long-term root zone soil moisture dataset for operational agricultural drought monitoring over Africa
09:30–09:45	David Livings	JULES in UniFHy
09:45–10:00	Jenna Thornton	Quality of regional coupled system against Cardington long-term observational dataset
10:00–10:15	Nic Gedney	Using 4D variational analysis to reduce uncertainty in simulating the Amazon Basin contemporary and future projected water budget
10:15–10:30	Rob Parker	Emulating JULES and Attributing the Drivers of Tropical Wetland Methane Emissions
10:30–10:45	Emma Littleton	JULES-PEAT: adapting a land surface model for temperate peatland representation
10:45–11:15	—	☕ Coffee break & posters
11:15–11:30	Peter Cook	Modelling tropical forest responses to elevated CO2 in a nutrient-limited environment: JULES simulations at the Amazon FACE site
11:30–11:45	Oscar Kennedy-Blundell	RothC modelling of pyrogenic carbon in old growth Amazon forests
11:45–12:00	Toby Marthews	Standalone JULES simulation of rivers and inundation
12:00–12:15	Katie Blackford	Water Resource Management in JULES

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12:15–12:30	Juliette Bernard	The Warming-Induced Emissions Model Intercomparison Project (WIEMIP): JULES-bgc configuration, planned outputs and preliminary results
12:30–12:45	Douglas Kelley	Wildfire Attribution and Projections in the State of Wildfires Reports
12:45–14:00	—	 Lunch & posters
14:00–14:15	Arthur Argles	TRENDY like historical simulations of JULES-RED with Land Use Change
14:15–14:30	Lirong You	Improving JULES drought performance through sequential calibration: testing plant hydraulics and transferability under intensified drought
14:30–14:45	Joseph Ovwemuvwose	Uncertainty in Land Carbon Fluxes Simulated by CMIP6 Models from Treatments of Crop Distributions and Photosynthetic Pathways
14:45–15:00	Yue Li	A Web-based Framework for Accessible Urban Land Surface Model Simulations
15:00–15:15	Sarah Shannon	A melt lake model for ice shelves
15:15–15:45	—	 Coffee break & posters
15:45–17:00	—	Posters continue; JLMP and SciApps meetings for those involved; Meeting ends