

JULES Annual Science Meeting 2022
Oxford University Centre for the Environment, University of Oxford,
South Parks Road, Oxford, OX1 3QY

Website: <https://hydro-jules.org/jules-annual-science-meeting-2022>
 Location and directions: <https://www.geog.ox.ac.uk/contact.html>
 Travel information: https://hydro-jules.org/sites/default/files/files/LSMS_Travelling_to_Oxford_0.pdf

JULES short course - Wednesday 14th September

Start	End	Activity	Meeting Room: GCR Coffee: The Atmosphere Rom
14:00	15:30	Land Surface Modelling / What is JULES? Resources available from UKCEH / UK Met Office. JULES from scratch: Worked example of a point run. File types used in JULES modelling.	
15:30	16:00	BREAK	
16:00	17:30	JULES from scratch: Worked example of a gridded run workshop	

JULES meeting day 1 - Thursday 15th September

Start	End	Activity	Meeting: The Atmosphere room Coffee/Lunch: The East lab Chair: Rich Ellis and Co-Chair: Emma Robinson
09:30	10:00	Arrival and registration	
10:00	10:15	Rachael Turton	Welcome & Introduction
10:15	10:30	Patrick C. McGuire	AMIP-style global soil simulations with JULES and the Unified Model: The role of soil hydraulics model, pedotransfer function, and basic soil property map
10:30	10:45	Noah Smith	A (sub-grid) song of ice and thaw
10:45	11:00	Tristan Quaife	The role of JULES in the NCEO International Programme
11:00	11:30	BREAK	The East Lab
11:30	11:45	James Weber	Updated Isoprene and Terpene Emission Factors for the Interactive BVOC Emission Scheme (iBVOC) in the Joint UK Land Environment Simulator (JULES)
11:45	12:00	Elise Dehaen	Modelling the carbon sink in tropical peatlands
12:00	12:15	Richard Betts / Peter Cook	Using JULES to model the Congo Peatlands
12:15	12:30	Andre Nakhavali	Representation of the phosphorus cycle in the Joint UK Land Environment Simulator
12:30	13:30	LUNCH	The East Lab
			Chair: Tristan Quaife and Co-Chair: Noah Smith
13:30	14:00	Module updates 1	Surface Hydrology Evaluation
14:00	14:15	Emma Littleton	JULES-BE: new options for crop and wood plantations and harvesting in JULES vn7.0
14:15	14:30	Arthur Argles	Vegetation Demography and Dynamics in a Next-Generation Biogeochemical Scheme

14:30	14:45	Katie Blackford	Representing northern high latitude peat fires in JULES-INFERNO
14:45	15:00	Lina Mercado	Nocturnal plant respiration is under strong non-temperature control
15:00	15:30	BREAK	The East Lab
15:30	15:45	Robert Parker	Developing Machine-Learning Based Emulators for the JULES Land Surface Model
15:45	16:00	Elizabeth Cooper	Grid cell clustering approaches for JULES
16:00	16:15	Helen Baron	Water Resource Management in JULES
16:15	16:30	Emma Robinson	Geological controls of discharge variability in the Thames Basin, UK from cross-spectral analyses: observations versus modelling
16:30	16:45	Toby Marthews	Rivers, inundation and validation against observations
17:00	19:30	<i>Hydro-JULES showcase</i>	<i>Natural History Museum (if registered)</i>
19:30		DINNER	George Street Social (if booked)

JULES meeting day 2 - Friday 16th September

Start	End	Activity	Meeting Room: The Place suite (City and Village Rooms) Coffee/Lunch: The Atmosphere room Chair: Anna Harper and Co-Chair: Elizabeth Cooper
09:00	10:15	Module updates 2	Fire CABLE Science Biogenic fluxes Biogeochemistry Vegetation Veg3 RED Demography Lakes IMOGEN
10:15	10:30	Emma Robinson	Science and applications committee update
10:30	10:45	Garry Hayman	Modelling winter wheat in the UK using JULES Crop
10:45	11:00	Doug Kelley	Steps towards attributing tropical forest carbon loss to fire for informing emission reduction financing buffers.
11:00	11:30	BREAK	The Atmosphere room
11:30	11:45	Ian Harman	Australia's terrestrial carbon balance: Perspectives from multiple configurations of the CABLE-CASA-CNP land model
11:45	12:00	Sandy P. Harrison	Empirical modelling of fire regimes and vegetation responses to fire
12:00	12:15	Iain Colin Prentice	Optimality-based predictions of global patterns and trends in vegetation cover
12:15	12:30	Anna Harper / Karina Williams	Soil moisture stress JPEG report
12:30	12:45	Doug Kelley	Release of the first standard configurations for standalone JULES
12:45	13:00	Eleanor Blyth	Report from Land Surface Modelling Summit
13:00	13:10	Rachael Turton	Wrap up/discussion
13:10	14:10	LUNCH	The Atmosphere room
15:00		END	