



# JULES Annual Science Meeting 2023

## 15<sup>th</sup> of September



		<b>JULES Disturbances</b>	Newman Purple - Peter Chalk	Camilla Mathison
11:00	11:15	Predictions of future water scarcity: How important is the plant physiological response to rising CO2?		Jess Stacey
11:15	11:30	Fire weakens land carbon sinks before 1.5°C in JULES		Chantelle Burton
11:30	11:45	The burning question: Are fire models suitable for climate attribution studies & projections?		Douglas Kelley
11:45	12:00	Capturing human-Earth system feedbacks in JULES: the case of fire		Oliver Perkins
12:00	12:15	Critical drivers of fire in Brazilian biomes: a novel approach using the Concept of Maximum Entropy		Maria Lucia Ferreira Barbosa
12:15	12:30	Simulating prescribed burning to investigate its effect on fire emissions in Cerrado using JULES-INFERNO		Renata Moura da Veiga
12:30	12:40	<b>JULES Annual Science Meeting Wrap Up</b>		Arthur Argles, Nina Raoult
12:40	12:50	<b>JULES Group Photo</b>	Outside the Peter Chalk Building (by fountain)	Arthur Argles
12:50	14:00	<b>Lunch (followed by departure)</b>	Peter Chalk foyer	

**Friday, 15<sup>th</sup> September**

**JULES Annual Science Meeting - Day 2**

Start	End	Activity	Venue	Organisers
8:30	9:00	<b>Pastries, Tea and Coffee</b>	Peter Chalk foyer, University of Exeter, Stocker Road, Exeter EX4 4QD	Arthur Argles, Nina Raoult
9:00	9:05	<b>Second Day Introduction</b>	Newman Purple - Peter Chalk	Arthur Argles, Nina Raoult
9:05	9:20	<b>JULES Predictions</b> Showcasing PRIME: Probabilistic Regional Impacts from Model patterns and Emissions		Simon Jones Camilla Mathison
9:20	9:35	Atmospheric Dry Deposition in JULES		Garry Hayman
9:35	9:50	JULES as an impacts model		Andrew Hartley
9:50	10:05	JULES-Based Runoff Simulation and Runoff Responses to Climate Change in China		Danyang Gao
10:05	10:20	Using JULES to Model the Congo Peatlands		Peter Cook
<del>10:20</del>	<del>10:35</del>	<del>The global land carbon sink response to the thermal acclimation of photosynthesis in JULES</del>		<del>Phil Harris</del>
10:35	11:00	<b>Coffee / Tea Break</b>	Peter Chalk foyer	

**Following itinerary for JULES SciApps and/or JLMP committee members**

**Committee Meetings – Part 1**

JULES Science Application (SciApps) Committee

Newman Purple -  
Peter Chalk

Arthur Argles

Joint Land Modelling Programme (JLMP) Committee

Newman  
Collaborative

**Coffee / Tea Break**

Peter Chalk foyer

**Committee Meetings – Part 2**

JULES Science Application (SciApps) Committee

Newman Purple -  
Peter Chalk

Arthur Argles

Joint Land Modelling Programme (JLMP) Committee

Newman  
Collaborative