

**UK Space Weather and Space Environment Meeting III**  
**Poster Presentations**  
**Monday 8 September 2025**

Poster No.	First Name	Last Name	Organisation	Paper Title
1	Martin	Archer	Imperial College London	Characterising magnetopause surface waves within magnetosphere-ionosphere-ground coupling
3	Fraser	Baird	University of Surrey	Lerwick Compact Neutron Monitor: Instrumentation and First Results
5	Stephen	Bannister	Northumbria University	Quantitative Characterisation of Magnetic Topology in Solar Active Regions for Operational Space Weather Forecasting
7	Susanna	Bekker	Queen's University Belfast	Response of the total electron content in the ionosphere to the impulsive and late phases of X-class solar flares
9	Cory	Binnarsley	Mirion Technologies	Technical Development of the NM-2023 Ground Level Monitor
11	Mario	Bisi	UKRI STFC RAL Space	RASOR: Radio Astronomy and Space Observation Research Facility – A Future Prospect for UK Sovereign Capabilities Across Space Weather, Space Situational Awareness, and Radio Astronomy
13	Mario	Bisi	UKRI STFC RAL Space	The COSPAR PSW-ISWAT 2025+ Space Weather Roadmap
15	Francois-Xavier	Bocquet	Met office	Met Office post-SWIMMR Research to Operations Activities
17	Ben	Boyde	University of Bath	Observing Travelling Ionospheric Disturbances with the LOFAR Radio Telescope
19	Christopher	Chen	Queen Mary University of London	Scale-by-scale accuracy of solar wind analogue ensemble forecasts
21	Christopher	Chen	Queen Mary University of London	Examining time-dependent heliospheric solar wind properties driven by evolving WSA boundaries
23	Jackie	Davies	STFC	UK-ODESSI: A Low-Cost, Low-Earth Orbit, In-Orbit Pathfinder for UK Space Weather
25	Ravindra	Desai	University of Warwick	ROARS: Revealing Orbital & Atmospheric Responses to Solar activity
27	Clive	Dyer	Csdradconsultancy and University of Surrey Space Centre	The Importance of Single Event Effects For Atmospheric Radiation Scales, Alerts and Actions
29	Siegfried	Gonzi	Met office, Uk	MOSWOC's (Met Office Space Weather Operations Centre) Coronal Mass Ensemble (CME) Prediction System
31	Fan	Lei	Surrey Space Centre, University of Surrey	Updates to MAIRE+ for Region Dependent Nowcasting
33	Fan	Lei	Surrey Space Centre, University of Surrey	Updates on Development of the High Energy Proton Instrument - HEPI
35	Ian	Mann	University of Alberta	Understanding, Modelling, and Quantifying the Space Weather Effects of Geomagnetically Induced Currents (GICs) on the Electric Power Grid
37	Mike	Marsh	Met office	Atmospheric Radiation: the Met Office Pathway to Operations
39	Daniel	Marsh	University Of Leeds	Pathways to Predicting D and E Region Ionospheric Variability
41	Juliana	Rinaldi-Semione	SDGs in Space/Calymru Research	Conceptualising 'environment' and 'sustainability' for an off-Earth future: leveraging existing expertise and frameworks to make a start

43	Dylan	Weston	Northumbria University	A threshold-based Random Forest forecasting model for the Outer Radiation Belt
45	Alan	Wood	University of Birmingham	Swarm-VIP-Dynamic: Models for Ionospheric Variability, Irregularities Based on the Swarm Satellite Data
47	Alan	Wood	University of Birmingham	Driving The Mid-Latitude Ionosphere from Below: Observations Made Using the International LOFAR Telescope
49	Qian	Wu	Ncar	Thermospheric wind observations from different platforms

Wednesday 10 September 2025

Poster No.	First Name	Last Name	Organisation	Paper Title
2	Oliver	Allanson	University of Birmingham, University of Exeter	Radiation belt wave-particle interaction theory and modelling: What do we know and what are we yet to understand?
4	Oliver	Allanson	University of Birmingham, University of Exeter	Diffusion coefficients for resonant relativistic wave-particle interactions using the PIRAN code
6	Ciaran	Beggan	British Geological Survey	A field-deployable absolute vector quantum magnetometer for geomagnetic research
8	Damini	Bhagwath	University of Central Lancashire	Model Validation using Historical SEP Event Analysis of the 3D Physics-Based Forecasting Tool SPARX
10	Suzy	Bingham	Met office	Advancing Forecasting Capabilities through Operations-to-Research at the Met Office Space Weather Operations Centre
12	Ben	Clewer	University of Surrey	Showcasing the Surrey Space Centre's new cubesat space weather payload on the UK Jovian-1 mission
14	Ingrid	Cnossen	British Antarctic Survey	Projected long-term decline in upper atmosphere density and its impacts on the space debris environment
16	Ravindra	Desai	University of Warwick	Progress towards coupling a global MHD model to an inner magnetospheric model
18	Lucie	Green	UCL/Mullard Space Science Laboratory	Bayesian Inference for Automated 3D CME Characterization and Uncertainty Quantification
20	Jithu	Jose Athalathil	Indian Institute of Technology Indore	Investigating Nonlinear Quenching Effects on Polar Field Buildup Using Physics-Informed Neural Networks
22	Delores	Knipp	University of Colorado Boulder	Mid-latitude Geomagnetically Induced Currents as a Manifestation of Penetrating Electric Fields
24	Timo	Laitinen	University of Lancashire	Multi-point Solar Energetic Particle observations and space weather forecasting
26	Chiara	Lazzeri	Mullard Space Science Laboratory, UCL	Analysis of Magnetospheric ULF Waves Observed Near the Arrival of an IMF Southward Turning at the Magnetosphere
28	Emily	Mottram	University College London	Probing the characteristics of a pre-eruptive flux rope using novel techniques
30	Sirsha	Nandy	Indian Institute of Technology Indore	Solar Wind Density Pulse Effects on the Ionospheric Electrodynamics Under Variable IMF Orientations
32	Sirsha	Nandy	Indian Institute of Technology Indore	Probing the solar wind using Akatsuki radio signals
34	Yiwei	Ni	University of St Andrews	Unraveling Filament Barb Dynamics through Pseudo-3D Hydrodynamic Simulations
36	Mathew	Owens	University of Reading	Implications of Using Spheroidal "Cone Model" CMEs in Solar-wind Models

38	Louisa	Prattley	National Emergency Management Agency New Zealand	Number Eight Wire: Building New Zealand's Approach to Managing Space Weather Risk
40	Ian	Richardson	University of Maryland/Goddard Space Flight Centre	Coronal Mass Ejections Associated with Solar Energetic Particle Events Observed in the Low Corona by the Mauna Loa Solar Observatory
42	David R.	Themens	University of Birmingham	Statistical modeling of high latitude Sporadic-E climatology: A Sporadic-E module for E- CHAIM
44	Yihui	Tong	University of Warwick	Global MHD and Test-Particle simulations of outer radiation belt flux drop-out events
46	Bhagyashree	Waghule	University of Colorado Boulder	Very Near-Earth Reconnection (VNERX) and its connection to the 30A GIC spike in the Eastern US
48	Samuel	Wharton	University of Leicester	Measuring the Magnetopause Position with SMILE-SXI
50	Thomas	Williams	Durham University	Investigating the Efficacy of Topologically Derived Time Series for Flare Forecasting