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 Resuts |
| 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 | Binnersley | 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 |

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| 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 |

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| 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 |
| 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 |