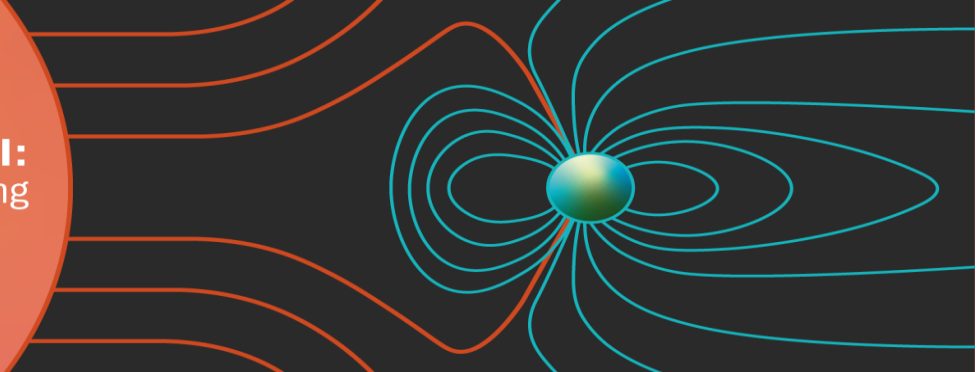


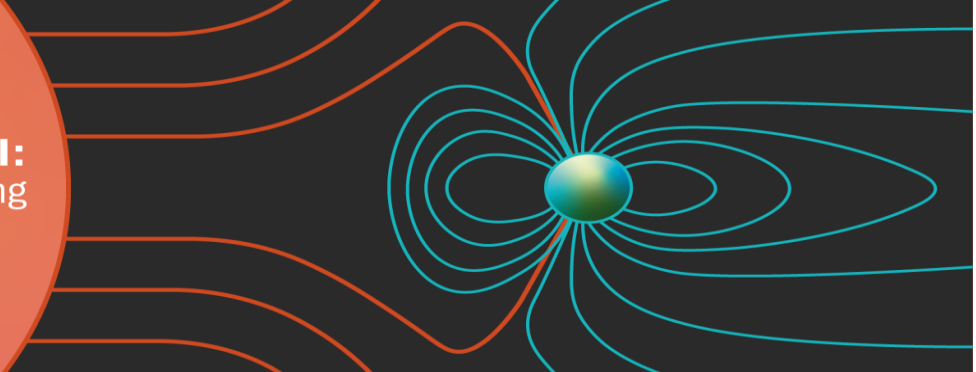
UK Space Weather and Space Environment Meeting III: Global Challenges in Understanding the Space Environment & Space Weather at Solar Maximum



Programme Wednesday 10 September

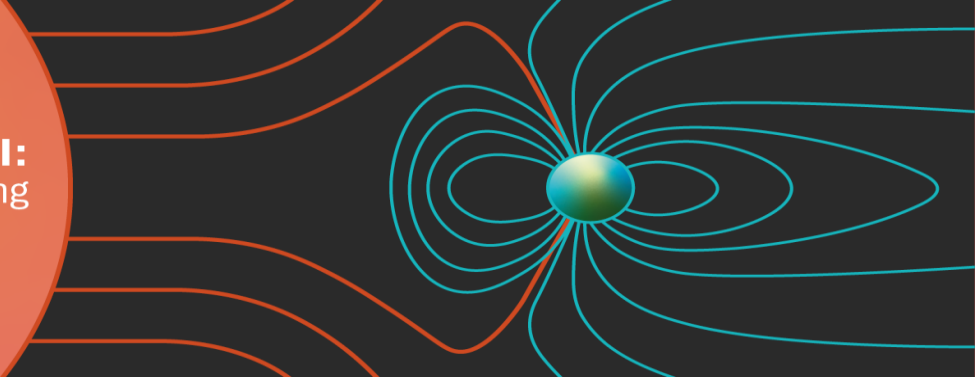
8:45 AM - 10:00 AM	Plenary Session 5: Missions (Room: Main Hall) 8:45 AM Craig DeForest (Invited Speaker): Tracking Space Weather with NASA's Polarimeter to UNify the Corona and Heliosphere (PUNCH) 9:00 AM Jorge Amaya: A new mission to the far side of the Sun to improve space weather science and operations 9:15 AM Jonathan Eastwood (Invited Speaker): HENON: The heliospheric pioneer for solar and interplanetary threats defence 9:30 AM Maria Federica Marcucci (Invited Speaker): The ESA M7 Plasma Observatory mission and its impact for the space weather science 9:45 AM Ian Mann (Invited Speaker): Investigating Space Radiation and Atmospheric Climate Impacts with the Canadian RADICALS Mission	
10:00 AM - 11:00 AM	Parallel Session 1A: Forecasting Tools and Techniques (Room: Main Hall) 10:00 AM Martin Archer: First detection of field-aligned currents using engineering magnetometers from the OneWeb mega-constellation 10:15 AM Richard Boynton (Invited Speaker): Assessing the performance of the NARMAX models developed for the SWIMMR SatRisk project 10:30 AM Paloma Jol: Flare forecasting using Fully Convolutional Networks to gain insight into sunspot evolution 10:45 AM Peter Gallagher (Invited Speaker): Solar Activity and Space Weather Monitoring at Radio Frequencies	Parallel Session 1B: Ionosphere (Room: Old Banqueting Hall) 10:00 AM Susanna Bekker: Assessment of Vertical Redistribution of Electron Density in the Ionosphere During an X-Class Solar Flare Using GNSS Data 10:15 AM Emma-Claire Gurney: Evaluating Ionospheric Model Performance at Mid- and High-Latitudes Using Long-Term Ionosonde Observations from 1950 – 2022 10:30 AM Sam Lo (Invited Speaker): Ionospheric effects on GNSS Investigated Using the EISCAT/ESR Radars 10:45 AM Gareth Chisham (Invited Speaker): Can we use measurements of ionospheric vorticity to improve the representation of meso-scale ionospheric plasma flows in space weather models?
11:00 AM - 11:30 AM	Morning Break (Room: Hadfield Hall)	

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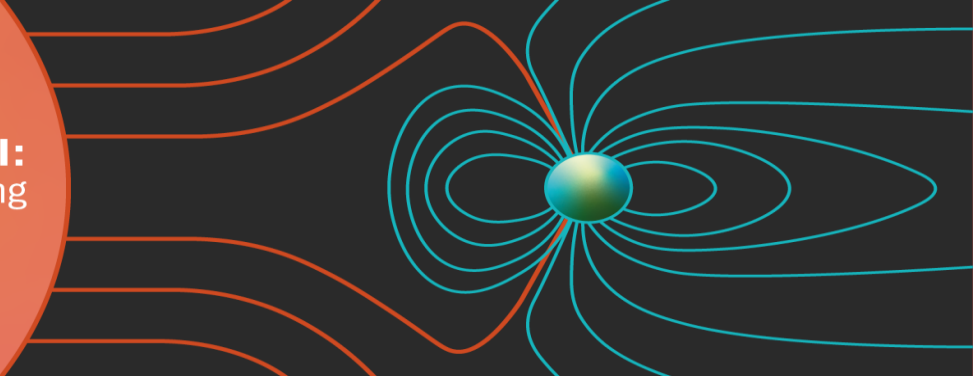
11:30 AM - 1:00 PM	<p>Parallel Session 2A: Space Weather Modelling and Computational Techniques (Room: Main Hall)</p> <p>11:30 AM Ping Li: Modelling and Prediction of Electron Fluxes with NARMAX Approach Using Data Set with Missing Data Points</p> <p>11:40 AM Prateek Mayank: Next-Generation MHD Modeling of Solar Wind Using Neural Operators</p> <p>11:50 AM Helen Norman: Investigating the Structure of Magnetised Coronal Mass Ejection models</p> <p>12:00 PM Benjamin Reid: A Simple Method To Forecast The Ionosphere Using Effective Geophysical Indices</p> <p>12:10 PM Tom Daggitt (Invited Speaker): Reproducing ultra-relativistic electron acceleration using a coupled density and radiation belt model</p> <p>12:20 PM Panel Session</p>	<p>Parallel Session 2B: GICs (Room: Old Banqueting Hall)</p> <p>11:30 AM Daniel Mac Manus (Invited Speaker): Space Weather risk to New Zealand: the Solar Tsunami research programme</p> <p>11:40 AM Andrew Smith: Understanding and Modelling the Geomagnetically Induced Currents caused by Sudden Commencements</p> <p>11:50 AM Gemma Bower: Interhemispheric observations of geomagnetic disturbances</p> <p>12:00 PM Rosie Hodnett (Invited Speaker): Omega bands as a source of large dB/dt in the dawn sector</p> <p>12:10 PM Samuel Fielding (Invited Speaker): Improving nowcasts and forecasts of geomagnetically induced currents through analysis of ground-level magnetic field perturbations</p> <p>12:20 PM Panel Session</p>
1:00 PM - 2:00 PM	Lunch (Room: Hadfield Hall)	
1:30 PM - 1:50 PM	MIST/UKSP Lunch Session (Room: Main Hall)	

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2:00 PM - 3:00 PM	<p>Parallel Session 3A: Solar & Heliospheric Forecasting I (Room: Main Hall)</p> <p>2:00 PM Steph Yardley (Invited Speaker): Solar Orbiter & Parker Solar Probe: Multi-viewpoint messengers of the inner heliosphere</p> <p>2:15 PM Matthew Billcliff (Invited Speaker): Extended Lead-Time Geomagnetic Storm Forecasting with Solar wind Ensembles and Machine Learning</p> <p>2:30 PM Daria Shukhobodskaya: Enhancing Space Weather Forecasting with Solar Orbiter Observations</p> <p>2:45 PM Rami Qahwaji: Cross-Dataset Solar Flare Forecasting: Combining GOES X-ray and SHARP Magnetic Parameters for Improved LSTM Predictions</p>	<p>Parallel Session 3B: Remote Sensing and Sun-Earth (Room: Old Banqueting Hall)</p> <p>2:00 PM Luke Nugent: Low-latitude scintillation forecasting using a proxy for vertical plasma drift at the magnetic equator: a comparison of forecasting skill for different physics-based ionospheric models</p> <p>2:15 PM Alan Wood: Dynamic Ionospheric Notifications for Operations and Scheduling (DINOS): Using Ionospheric Observations to Support LOFAR2.0 Operations</p> <p>2:30 PM Aisling O'Hare: Quasi-Periodic Pulsations in TEC Measurements Synchronised with Solar Flare EUV Emission</p> <p>2:45 PM Bernard Jackson: World-Wide Interplanetary Scintillation Stations (WIPSS) Analysis used with Thomson Scattering Brightness</p>
3:00 PM - 3:30 PM	<p>Lightning Talks 2 (Room: Main Hall) Each talk lasts 2 minutes</p> <p>1 Lucie Green: Bayesian Inference for Automated 3D CME Characterization and Uncertainty Quantification</p> <p>2 Jithu Jose Athalathil: Investigating Nonlinear Quenching Effects on Polar Field Buildup Using Physics-Informed Neural Networks</p> <p>3 Delores Knipp: Mid-latitude Geomagnetically Induced Currents as a Manifestation of Penetrating Electric Fields</p> <p>4 Timo Laitinen: Multi-point Solar Energetic Particle observations and space weather forecasting</p> <p>5 Emily Mottram: Probing the characteristics of a pre-eruptive flux rope using novel techniques</p> <p>6 Sirsha Nandy: Solar Wind Density Pulse Effects on the Ionospheric Electrodynamics Under Variable IMF Orientations</p> <p>7 Yiwei Ni: Unravelling Filament Barb Dynamics through Pseudo-3D Hydrodynamic Simulations</p> <p>8 Louisa Prattley: Number Eight Wire: Building New Zealand's Approach to Managing Space Weather Risk</p> <p>9 Ian Richardson: Coronal Mass Ejections Associated with Solar Energetic Particle Events Observed in the Low Corona by the Mauna Loa Solar Observatory</p>	

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	10 David R. Themens: Statistical modelling of high latitude Sporadic-E climatology: A Sporadic-E module for E-CHAIM 11 Bhagyashree Waghule: Very Near-Earth Reconnection (VNERX) and its connection to the 30A GIC spike in the Eastern US 12 Samuel Wharton: Measuring the Magnetopause Position with SMILE-SXI
3:30 PM - 5:30 PM	Poster Presentations and Afternoon Break (Room: Hadfield Hall)
6:00 PM - 10:00 PM	Drinks Reception (Room: Hadfield Hall) Conference Dinner (Rooms: Drawing and Reception)