UK Space Weather and Space Environment Meeting III Programme

Wednesday 10 September

	Plenary Session 5: Missions (Room: Main Hall)				
8:45 AM - 10:00 AM	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				
	Parallel Session 1A: Forecasting Tools and Techniques (Room: Main Hall)	Parallel Session 1B: lonosphere (Room: Old Banqueting Hall) 10:00 AM Susanna Bekker: Assessment			
10:00 AM - 11:00 AM	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	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 Ben Boyde (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)				

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

Parallel Session 3A: Solar & Parallel Session 3B: Remote Sensing and Sun-Earth Heliospheric Forecasting I (Room: Main Hall) (Room: Old Banqueting Hall) 2:00 PM Steph Yardley (Invited 2:00 PM Luke Nugent: Low-latitude Speaker): Solar Orbiter & Parker Solar scintillation forecasting using a proxy for Probe: Multi-viewpoint messengers of vertical plasma drift at the magnetic the inner heliosphere equator: a comparison of forecasting skill for different physics-based ionospheric 2:15 PM Matthew Billcliff (Invited Speaker): Extended Lead-Time models 2:15 PM Alan Wood: Dynamic Geomagnetic Storm Forecasting with 2:00 PM -Solar wind Ensembles and Machine Ionospheric Notifications for Operations 3:00 PM Learning and Scheduling (DINOS): Using 2:30 PM Daria Shukhobodskaia: lonospheric Observations to Support Enhancing Space Weather Forecasting LOFAR2.0 Operations with Solar Orbiter Observations 2:30 PM Aisling O'Hare: Quasi-Periodic 2:45 PM Rami Qahwaji: Cross-Dataset | Pulsations in TEC Measurements Synchronised with Solar Flare EUV Solar Flare Forecasting: Combining GOES X-ray and SHARP Magnetic Emission Parameters for Improved LSTM 2:45 PM Bernard Jackson: World-Wide **Predictions** Interplanetary Scintillation Stations (WIPSS) Analysis used with Thomson Scattering Brightness Lightning Talks 2 (Room: Main Hall) Each talk lasts 2 minutes 1 Lucie Green: Bayesian Inference for Automated 3D CME Characterization and Uncertainty Quantification 2 Jithu Jose Athalathil: Investigating Nonlinear Quenching Effects on Polar Field Buildup Using Physics-Informed Neural Networks 3 Delores Knipp: Mid-latitude Geomagnetically Induced Currents as a Manifestation of Penetrating Electric Fields 4 Timo Laitinen: Multi-point Solar Energetic Particle observations and space weather forecasting 5 Emily Mottram: Probing the characteristics of a pre-eruptive flux rope using 3:00 PM novel techniques 3:30 PM 6 Sirsha Nandy: Solar Wind Density Pulse Effects on the Ionospheric Electrodynamics Under Variable IMF Orientations 7 Yiwei Ni: Unravelling Filament Barb Dynamics through Pseudo-3D Hydrodynamic Simulations 8 Louisa Prattley: Number Eight Wire: Building New Zealand's Approach to Managing Space Weather Risk 9 Ian Richardson: Coronal Mass Ejections Associated with Solar Energetic Particle Events Observed in the Low Corona by the Mauna Loa Solar Observatory 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 -	Poster Presentations and Afternoon Break (Room: Hadfield Hall)
5:30 PM	
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6:00 PM -	Drinks Reception (Room: Hadfield Hall)
10:00 PM	Conference Dinner (Rooms: Drawing and Reception)
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