Space Weather Energy Pathways and Implications for Impacts

Friday 08 January 2021

10:30	Welcome
10:35	**Emilia Kilpua (Invited)**, University of Helsinki Large-scale solar wind structures as drivers of space weather storms
11:05	**John Coxon**, University of Southampton The heavy-tailed distributions of Birkeland currents observed by AMPERE
11:20	Break
11:35	**Juliane Huebert**, British Geological Survey Investigating the Space Weather impacts on ground-based technologies in the UK - Measuring and modelling geomagnetically induced currents in power networks and pipelines
11:50	**Sarah Bentley**, Northumbria University Magnetospheric moderation of solar wind drivers in a statistical model of ULF waves
12:05	Lunch
12:50	**Andrew Dimmock (Invited)**, Swedish Institute of Space Physics Uppsala The geomagnetic response in Fennoscandia to the September 2017 storm: observations and modelling
13:20	**Frances Staples**, MSSL, UCL Key Signatures of Magnetopause Shadowing during the September 2017 Geomagnetic Storm.
13:35	**Allison Jaynes**, University of Iowa High-energy electron dynamics of the September 2017 geomagnetic storm
13:50	Open Discussion & Lightning Talks on the September 2017 Storm
14:35	Break
14:50	Poster Session on GatherTown
15:25	Closing Remarks

GatherTown Links

GatherTown Guide	https://drive.google.com/file/d/1FGDyjc1Z7zYctYNwzkUeZ5YZ9qap0iN8/view Once in a room, you can move using the arrow keys on your keyboard and view a poster by pressing the “x” key.
Poster Room 1	https://gather.town/app/k13iq5D5GxiQTCPm/1_SpaceWeather
Poster Room 2	https://gather.town/app/nXQcgUISMwKAgl48/2_SpaceWeather
Poster Room 3	https://gather.town/app/Kcl88jyZZHK6FgGF/3_SpaceWeather
Social Room / Overflow	https://gather.town/app/0Up1xseKaIXH3rtT/4_SpaceWeather

Please note that each GatherTown Room holds a **maximum of 25 attendees**. If a room is full, please try a different one.

Please note that the platform does not work with Safari (Chrome or Firefox are recommended).

Google Drive Repository

PDF versions of posters can be accessed here:
https://drive.google.com/drive/folders/19sKe-jZF841xeGGzsgeWn1FIXLoMg34-?usp=sharing

Poster Presentations

Poster Room 1: https://gather.town/app/k13iq5D5GxiQTCPm/1_SpaceWeather
Mayur R. Bakrania, Mullard Space Science Laboratory, UCL Applying unsupervised learning and outlier detection methods to characterise magnetotail plasma sheet electrons
Xiangcheng Dong, RAL Space Field-aligned current ordering and intense ground dB/dt variations
Poster Room 2: https://gather.town/app/nXQcgUISMwKAgl48/2_SpaceWeather
Tom Elsden, University of Leicester Modelling the Varying Location of Field Line Resonances During Geomagnetic Storms
Colin Forsyth, UCL Quantitatively comparing the temporal and spatial variations of the aurora, waves and magnetic deflections associated with substorms
Poster Room 3: https://gather.town/app/Kcl88jyZZHK6FgGF/3_SpaceWeather
James Waters, University of Southampton Multipoint Remote Observations of Auroral Kilometric Radiation
Clare Watt, Northumbria University A comparison of magnetospheric ULF wave activity during storm and non-storm times

Lightning Talks

Joseph Eggington, Imperial College London Highlights from a Global MHD Simulation of the September 2017 Geomagnetic Storm
Ciaran Beggan, British Geological Survey Ground magnetic variation data for the North Sea region during the September 2017 storm
Lauren Orr, Lancaster University Wavelet analysis of the European ground response to September 2017 storm
Maria-Theresia Walach, Lancaster University SuperDARN observations of the September 2017 storm
Beatriz Sanchez-Cano, University of Leicester Low ionospheric ionization at Mars and Earth due to the September 2017 Space Weather event
Frances Staples, MSSL, UCL Radiation belt phase space density observations (preliminary title)