## The Global Response of the Terrestrial Magnetosphere during Storms and Substorms: Specialist Discussion Meeting Programme

10:00		Coffee
	Session 1	Chaired by Clare Watt
10:30	Elena Kronberg (invited)	Circulation of Heavy lons and Their Impact on Magnetic Storms and Substorms
11:00	Sandra Chapman	Solar Cycle Dependence of Extreme Space Weather
11:15	Andrei Samsonov	Variations of Solar Wind Parameters, Earth's Magnetospheric Size and Geomagnetic Activity over the Last Five Solar Cycles
11:30	Joseph Eggington	Time-Varying Magnetopause Reconnection During Sudden Storm Commencement: Global MHD Simulations
11:45	Robert Shore	Comparing the Geomagnetic Precursors of Sawtooths and Substorms
12:00	Steve Milan	Substorm Onset Latitude and the Steadiness of Magnetospheric Convection
12:15	Lauren Orr	Directed Network of Substorms from SuperMAG Ground-based Magnetometer Data
12:30		Lunch
12:30	Session 2	Lunch Chaired by Maria-Theresia Walach
12:30 13:15	Session 2 John Coxon	
		Chaired by Maria-Theresia Walach Tailward Propagation of Magnetic Energy Density Variations With
13:15	John Coxon	<ul> <li>Chaired by Maria-Theresia Walach</li> <li>Tailward Propagation of Magnetic Energy Density Variations With Respect to Substorm Onset Times</li> <li>Effects of Multiple Substorms on the Radiation Belts During a Fast</li> </ul>
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## Poster Presentations

Hayley Allison	Rebuilding the Earth's Electron Radiation Belts Following the 17 March 2013 Flux Drop-out Event
Sarah Bentley	Upper Bounds on the Wave Power Driving Radial Transport of Electrons in Earth's Radiation Belts
Aisling Bergin	Observational Constraints on the Distribution Long-tail for F10.7 and Geomagnetic Indices over the Last 5 Solar Maxima
Téo Bloch	Towards the Objective Classification of Coronal Hole and Streamer Belt Solar Wind
Yulia Bogdanova	Comparison of the Most Intense Storms and Substorm Periods Since Year 2000
Ravindra Tobias Desai	The role of Global MHD and Integrated Radiation Belt Models in Simulating Extreme Space Weather Events
Colin Forsyth	The Global Response of the Radiation Belts to Substorms
Heather McCreadie	Autonomous Curve Fitting of the Dst index during Geomagnetic Storms
Lars Mejnertsen	Determining the Effect of Carrington-level Events at the Earth's Magnetosphere using Global MHD Simulations
Michaela Mooney	Evaluating Auroral Forecasts Against Satellite Observations
Michaela Mooney	Examining Local Time Variations in the Gains and Losses of Open Magnetic Flux During Substorms
Jonathan Rae	Why are Storm-time ULF Waves Special?
Neil Rogers	Ionospheric and Magnetospheric Drivers of Extreme Geomagnetic Field Fluctuations
John Ross	On Electron Flux Decay in the Slot Region after Geomagnetic Storms
Jasmine Kaur Sandhu	The Variability in Substorm – Ring Current Coupling
Andy Smith	In situ Observations of Magnetotail Plasma Waves at Substorm Onset
Frances Staples	Estimating the Global Scale Response of the Magnetopause During Storm-times
Rhys Thompson	Characterising the Distribution of Uncertainty in Deterministic Radial Diffusion Coefficient Models During Geomagnetic Storms and Substorms
Maria-Theresia Walach	SuperDARN Observations During Geomagnetic Storms and Enhanced Solar Wind Driving