

Energetic particle effects in the lower atmosphere

Fri 31 Mar 2017 at Met Office, FitzRoy Road, Exeter EX1 3PB

Organised by the Atmospheric Electricity Special Interest Group of the Royal Meteorological Society

A recent Focus Issue of Environmental Research Letters* highlighted the interest in energetic particle influences on the atmosphere. This meeting will build on the related interdisciplinary area, concentrating on the lower atmosphere. Topics will include the relationships of meteorological processes with atmospheric electricity, energetic particles, and space weather.

*tinyurl.com/ErlParticlesAtmosphere

Registration is required by 15 Feb 2017. Contact Marcia Spencer (Marcia.Spencer@rmets.org)

Programme

10:30 – 11:30 Arrive & posters

11:30 -12:00 Karen Aplin (University of Oxford) – Radiative effects of ionisation in the troposphere

12:00 - 12:30 Giles Harrison (University of Reading) – Charge effects in stratiform clouds

12:30 – 13:30 Lunch – (self-managed at pub/Met Office restaurant)

13:30 – 14:10 Mai Mai Lam (BAS) – Interplanetary magnetic field effects on surface temperature

14:10 – 14:40 Alec Bennett (Biral, Porthishead) – Lightning detection for space weather research

14:40 – 15:40 Tour of ATD observation, coffee in café for those who want

15:40 – 16:10 Matt Owens (University of Reading) – Space weather influences on lightning

16:10 – 16:50 Martin Fullekrug (University of Bath) – Electron acceleration above thunderclouds

16:50 – 17:00 Leave