



Royal
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Dr John Coxon – Fowler Award (G)

Dr John Coxon receives the Fowler Award for world-leading and novel research on the distribution and dynamics of field-aligned currents in near-Earth space. Dr Coxon has pioneered the exploitation of the AMPERE dataset to generate new and fundamental discoveries, including the result that there is a systemic hemispherical asymmetry in the strength of the currents flowing in near-Earth space. Dr Coxon's work has important implications for space weather impacts, and more recently he has demonstrated when and where these field-aligned currents can reach extreme levels and present significant space weather hazards at the ground. His determined efforts to unveil a wealth of knowledge from the AMPERE dataset has placed him as a scientific leader within the community. This includes leading the authoritative review paper on field-aligned current research using AMPERE, as well as being awarded a highly prestigious STFC Ernest Rutherford Fellowship for research on magnetospheric currents.

More widely, Dr Coxon is prominent for their high-impact work on public outreach and his significant service to the scientific community. He led the extremely successful Planeteralla programme that engaged a wide array of audiences with a physical demonstration of the aurora.