



**Agenda
Rad-Sat Meeting
30 April - 2 May 2019
Rutland Hotel
452 Glossop Road, Sheffield, S10 2PY**

Tuesday 30th April

Arrive 13:00 for lunch at Rutland Hotel

Progress Reports

14:00	Introductions	Richard Horne
14.10	WP1 - Modelling and forecasting the radiation belts	Sarah Glauert
14.20	WP2 - Acceleration and loss due to wave-particle interactions	Nigel Meredith
14.30	WP3 - Non-linear wave-particle-interactions	Clare Watt
14.40	WP5 - Solar wind driving of the waves	Misha Balikhin
14.50	WP4 - Electron transport by magnetosonic waves	Jonny Rae
15.00	WP6 - Severe space weather events	Ravi Desai
15.20	Tea break	

Template for the Progress reports

- Progress against work plan
- Science highlight
- Collaboration with other WPs
- Dissemination & Outreach
- Next Steps

All graduate students and Post-Docs are welcome to attend and contribute to the discussions.

Science topics and discussion

15.45	Rad-Sat project focus	Richard Horne
16.00	Introduction to diffusion	Richard Horne/Clare Watt/Jay Albert
16.30	Variability of diffusion in Radiation Belt	Clare Watt/Reading
16.50	Numerical experiments on diffusion	Oliver Allanson/Reading
17:15	End of Day	
18:30	Dinner – The Botanist Unit 5a & 5b Leopold Square, Sheffield, S1 2JG	



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Wednesday 1st May

Science topics and discussion

09.00	Electron losses - observations	Mark Clilverd/BAS
09.20	Calculating electron losses to the atmosphere	Jade Reidy/BAS
09.40	Observations of Transmitters	Nigel Meredith/BAS
10.00	Loss timescales due to Transmitters	Johnathan Ross/BAS
10:20	Coffee break	
10.50	Last closed drift shell – Stakeholder talk	Jay Albert/USAF
11.20	Calculating radial diffusion coefficients	Jonny Rae/Jasmin Sandhu/MSSL
11.40	The role of ULF waves in radial diffusion	Alex Degeling/Shandong University
12.00	Lunch at Rutland Hotel	
13.00	ESA's Radiation Belt Activities: data, modelling and needs	Hugh Evans/ESA
13.30	NARMAX based wave models	Richard Boynton/Sheffield
13.50	Application of wave models in radiation belt forecasting	Homayon Aryan/Sheffield
14.10	Building an Integrated Van Allen Radiation belt model for Global-MHD simulation	Ravi Desai/Imperial
14.30	Tea break	
15.00	General discussion on diffusion	All
16.30	End of Day	



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Thursday 2nd May

Science topics and discussion

09.00	Sounds of Space	Nigel Meredith/BAS
09.20	Forecasting and Nowcasting the radiation belts	Colin Forsyth/MSSL
09.40	The ESA SaRIF forecasting system	Richard Horne/Sarah Glauert/BAS
10.00	Intercorrelation of L Shells	Sam Walton/MSSL
10:30	Coffee break	
11.00	How 'Big' is 'Small'? What is Fuzzy in a Fuzzy system?	Mahdi Mahfouf/Sheffield
11.20	Forecast of Geomagnetic indices	Misha Balikhin/Sheffield
11.40	Open discussion	
12.30	End of meeting	