

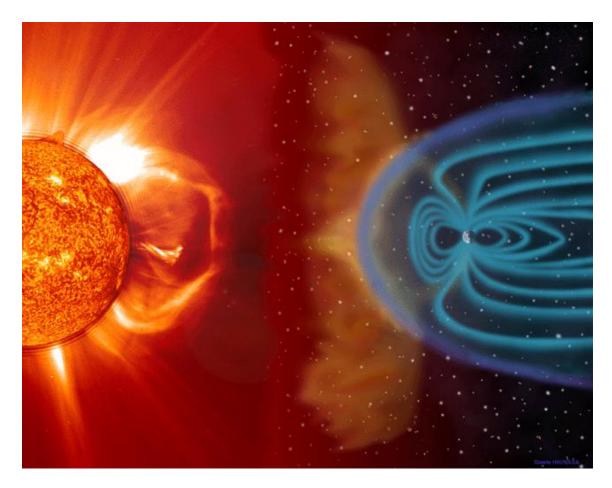


Solar Impacts on Earth: Revealed by NASA's Solar Dynamics Observatory & STEREO Missions

Prof Richard Harrison Head of Space Physics RAL Space Rutherford Appleton Laboratory

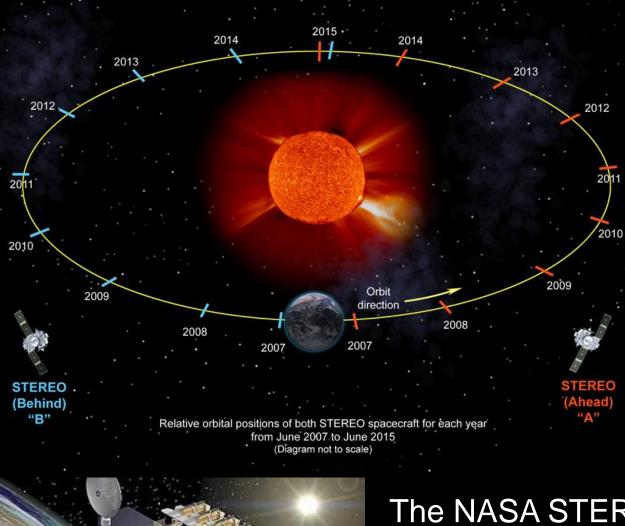


Deepest minimum for a century:



- Why? What happened?
- What does that mean for the Earth?
- Will the next build up of activity and maximum be extreme?







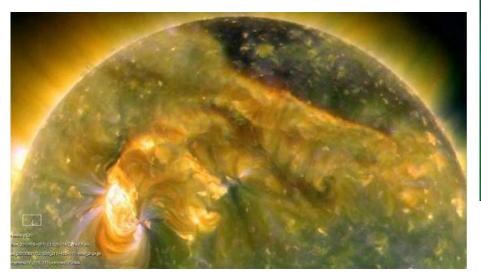
The NASA STEREO & SDO Missions: UK hardware & UK science

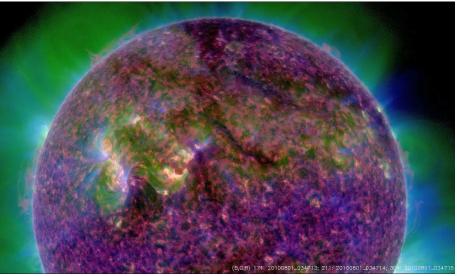


The new cycle begins...

The Events of 1–4 August 2010: A Close Shave for the Earth!

1 August 2010 – The day the solar northern hemisphere erupted





STEREO A/HI

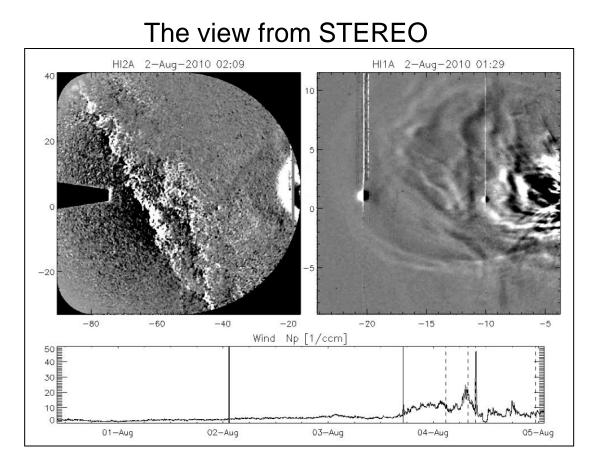
You are here!

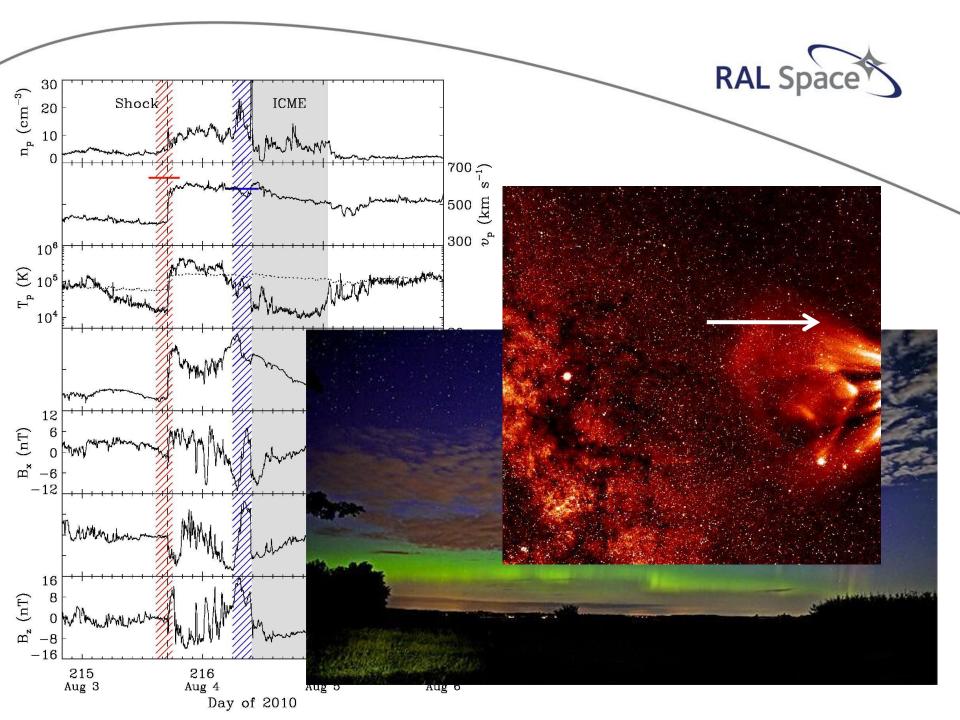
Smile – we are photographing you every 2 hours!

2007-01-23 00:01

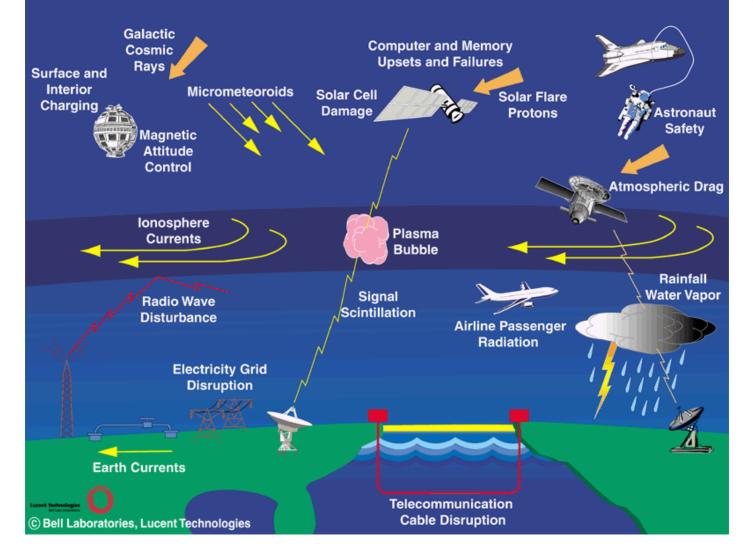


The Events of 1–4 August 2010: A Close Shave for the Earth!









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SPACE WEATHER Its impact on Earth and implications for business



Scientific aim:

• To understand and predict impacts on our environment and activities

Recent activities bringing this into the public/business domain:

- House of Commons Select C'tee evidence on Space Weather (10 Nov)
- Lloyds briefing on Space Weather impacts on business (8 Nov)
- National expert group in discussion with Cabinet Office – forming group to assess national risk/impacts