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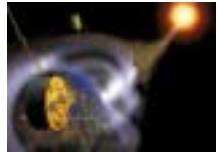


The Cluster mission

C. P. Escoubet

¹ *ESA/ESTEC, Noordwijk, The Netherlands*

- ⌘ What is Cluster?
- ⌘ Scientists involved
- ⌘ Science highlights



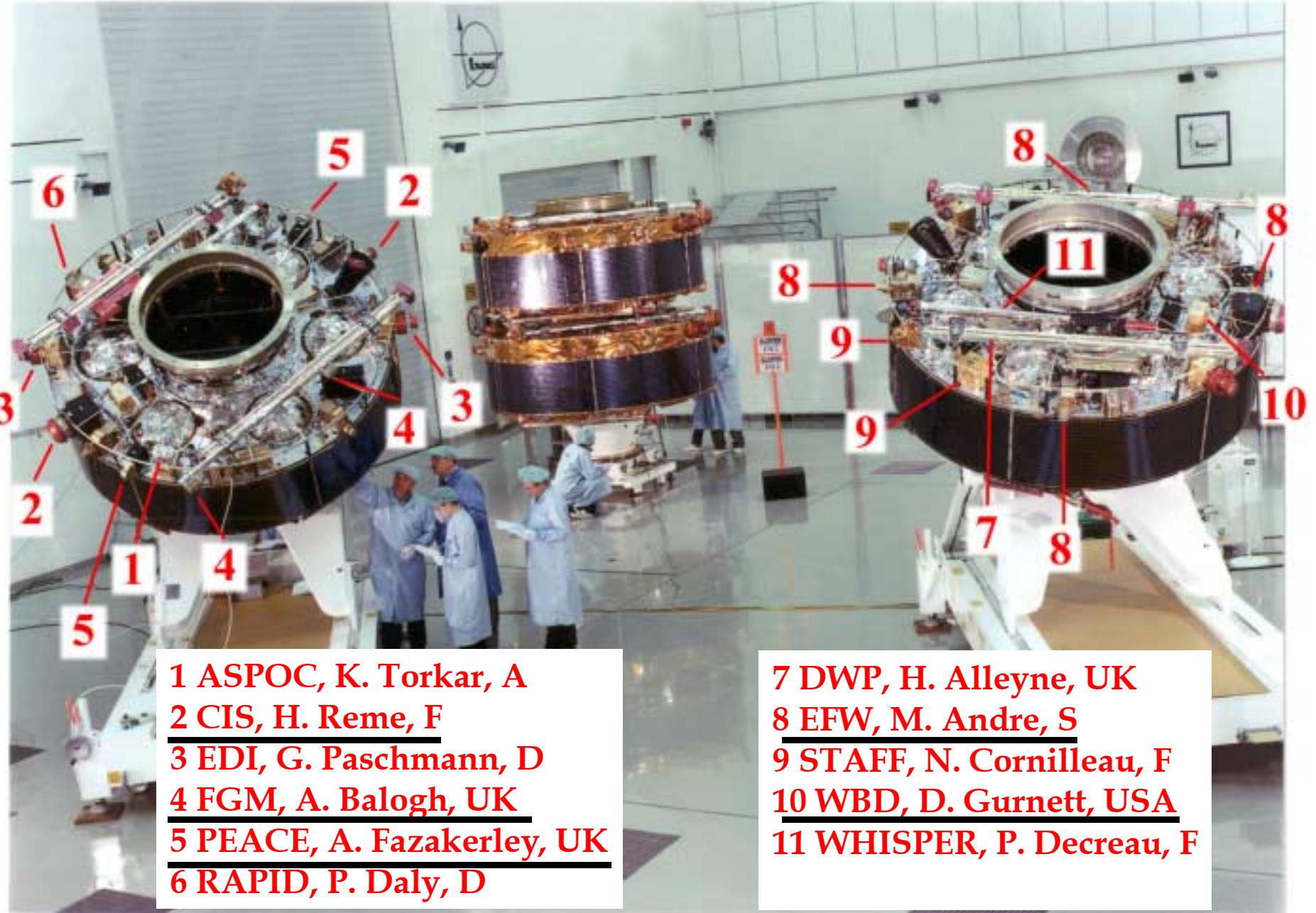
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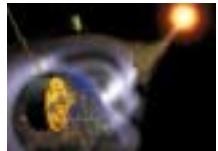


What is Cluster?



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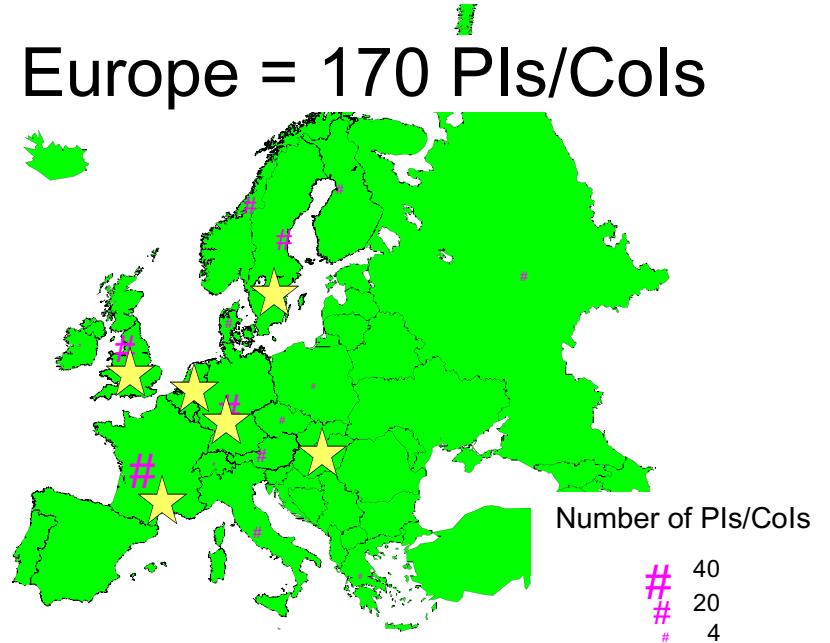
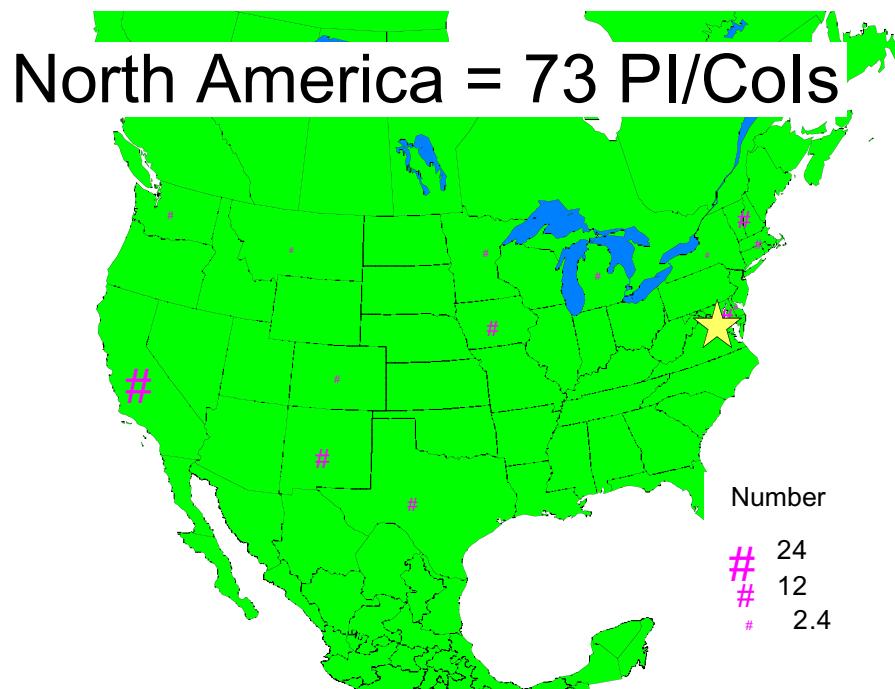




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250 scientists involved in 73 labs

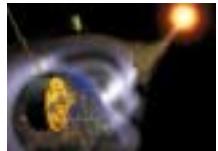


Asia:

China: 4 ★
India: 2
Japan: 3

★ Data center

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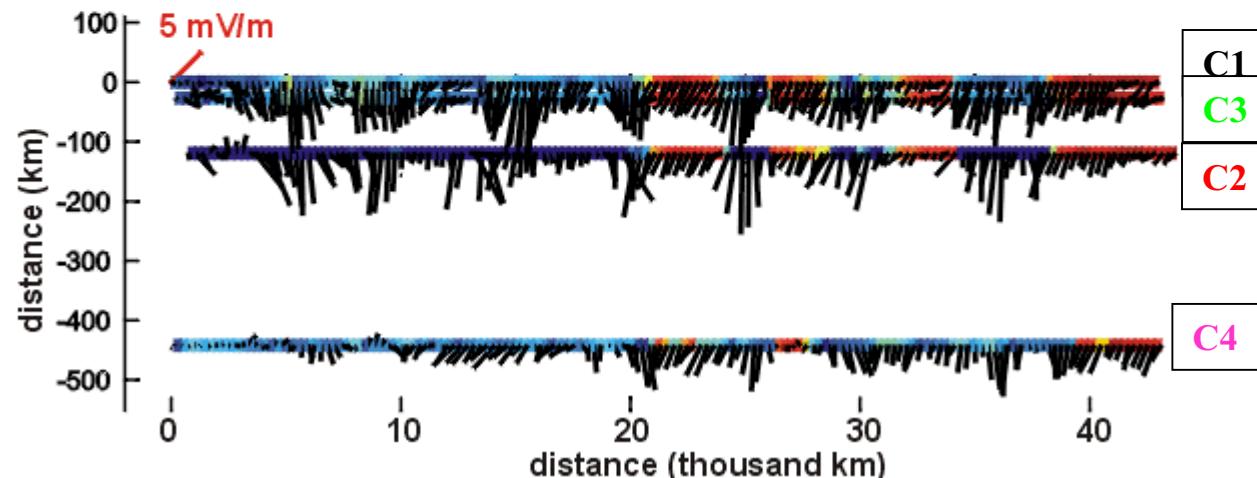


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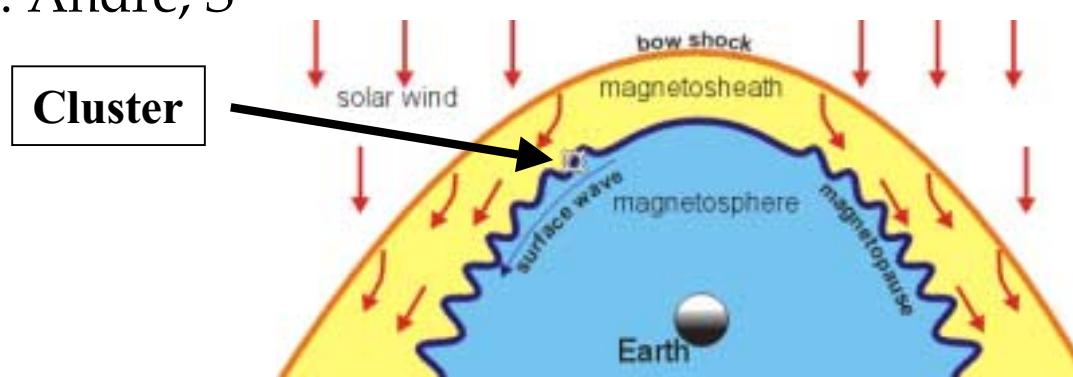


Waves on the magnetopause

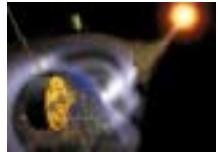
■ Cluster in magnetosphere ■ Out of magnetosphere



EFW data, M. Andre, S



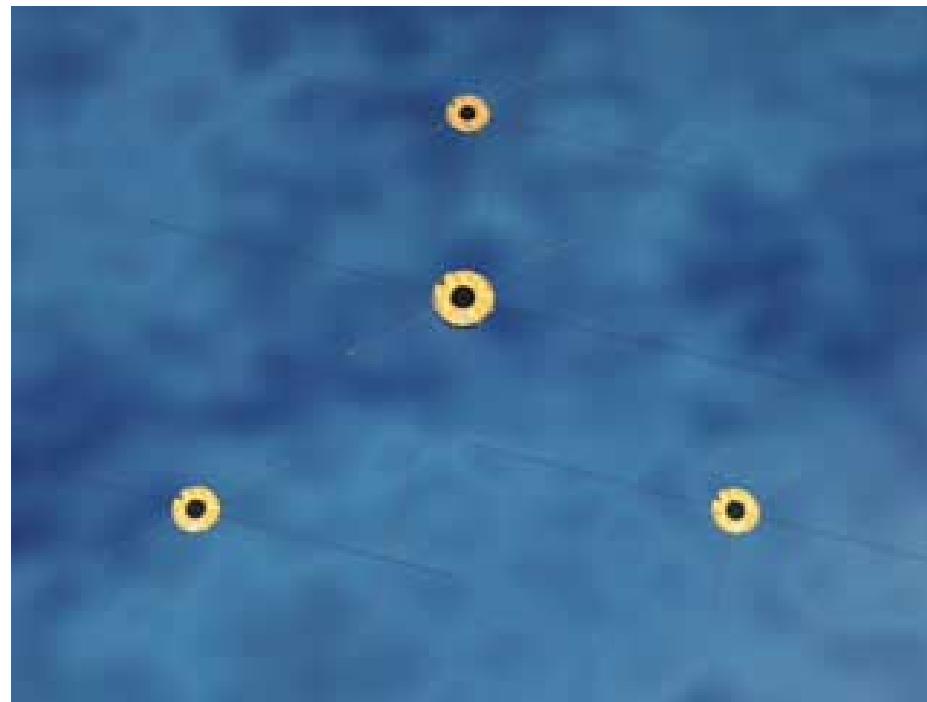
Speed: 145 km/s
Size = 500 km



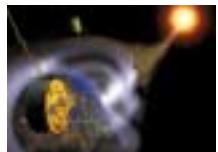
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Why do we need four spacecraft?



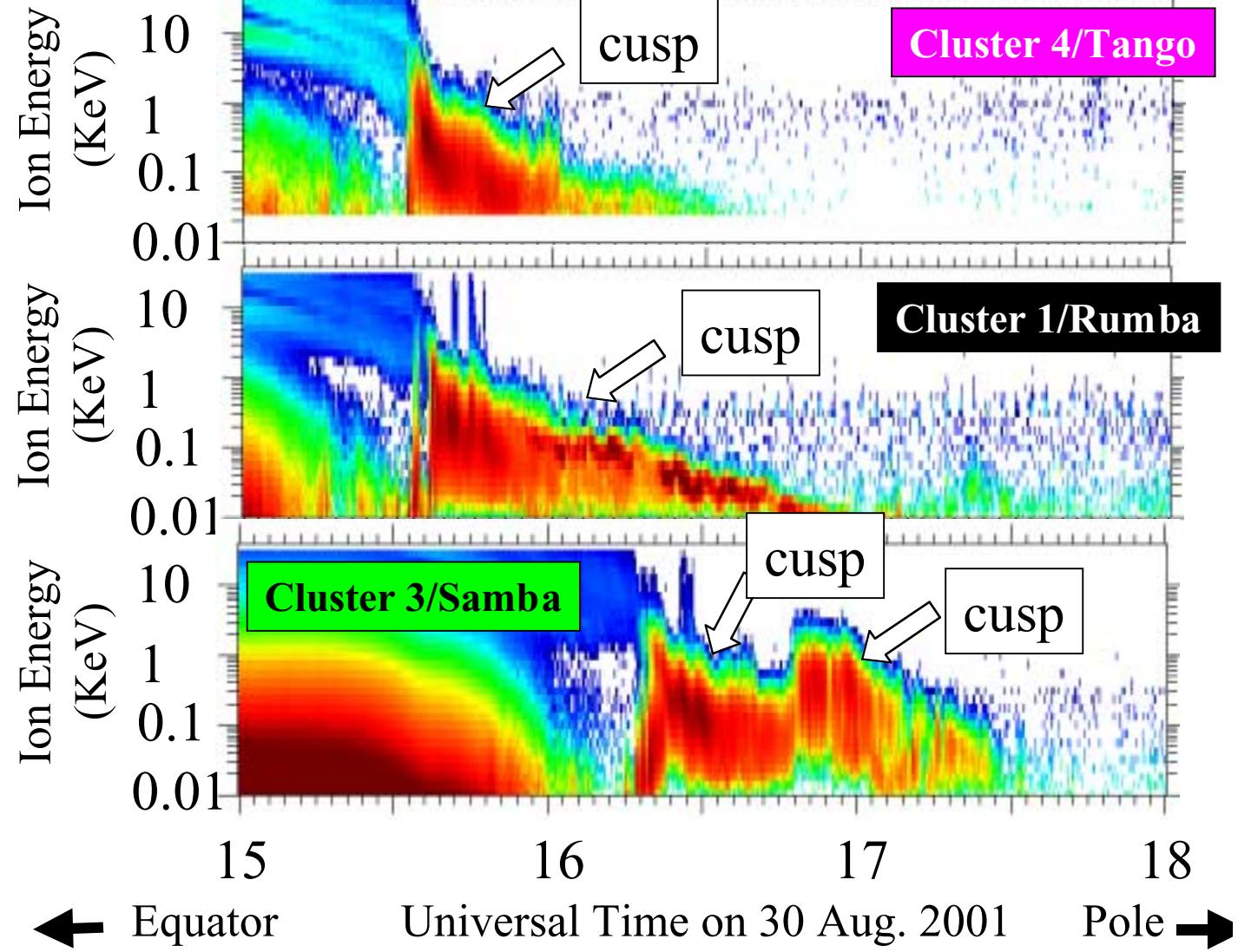
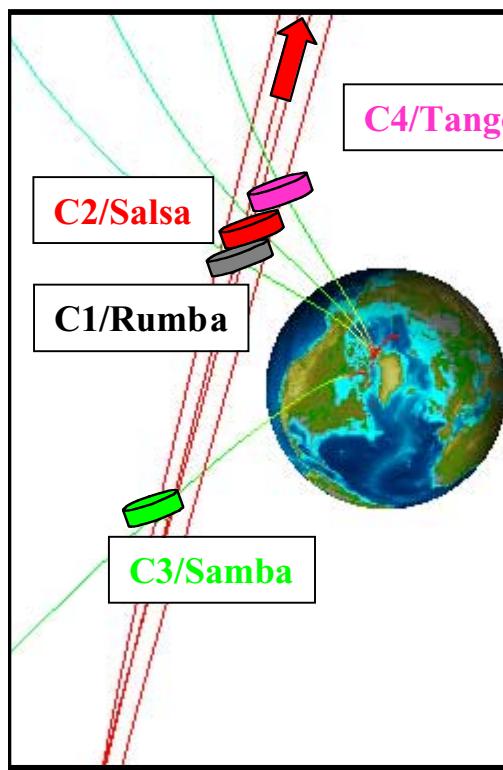
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Mid-altitude polar cusp



← Equator

Universal Time on 30 Aug. 2001

Pole →

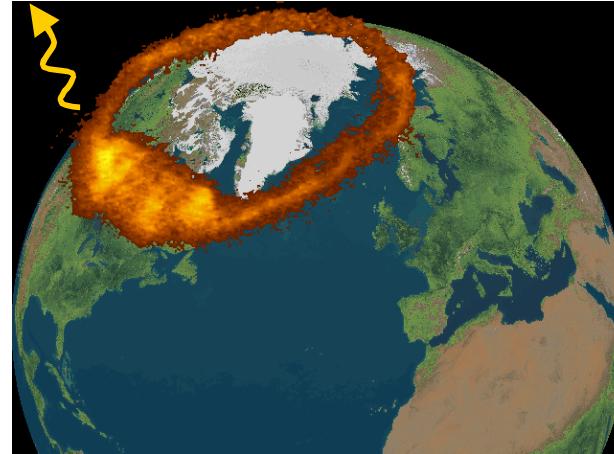
CIS data, H. Reme, F



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The aurora



(Polar data L. Frank, Iowa, USA)



(Photo J. Curtis, Fairbanks, Alaska)

Auroral Kilometric
Radiation
R. Mutel

Black aurora
G. Marklund

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