2011 Workshop: Chapman Storm

Long title
The Chapman Storm Auroral Events
CEDAR-GEM
Conveners
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Description

During the week of February 27 to March 4, 2011, the week of the AGU Chapman Conference on Relationship Between Auroral Phenomenology and Magnetospheric Processes there was significant auroral activity and relatively high magnetic activity (kp > 5). These events were some of the largest in the last two years. The events coincided with clear weather over much of Alaska and Canada, which allowed for excellent observation from various ground-based optical instruments. In addition there were fortuitous Themis conjunctions and the events were captured by the new mid-latitude SuperDARN radars. The workshop will allow observers to present preliminary analysis of their observations and discussion of further studies.

Justification

This study period could be considered the first storm of the new solar cycle. There were some excellent observations available, some of which have never been available for a storm study. In particular the full Themis ground-based optics array and the mid-latitude SuperDARN radars seem to have had excellent observations. The period should be an excellent candidate for an in depth case study.

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