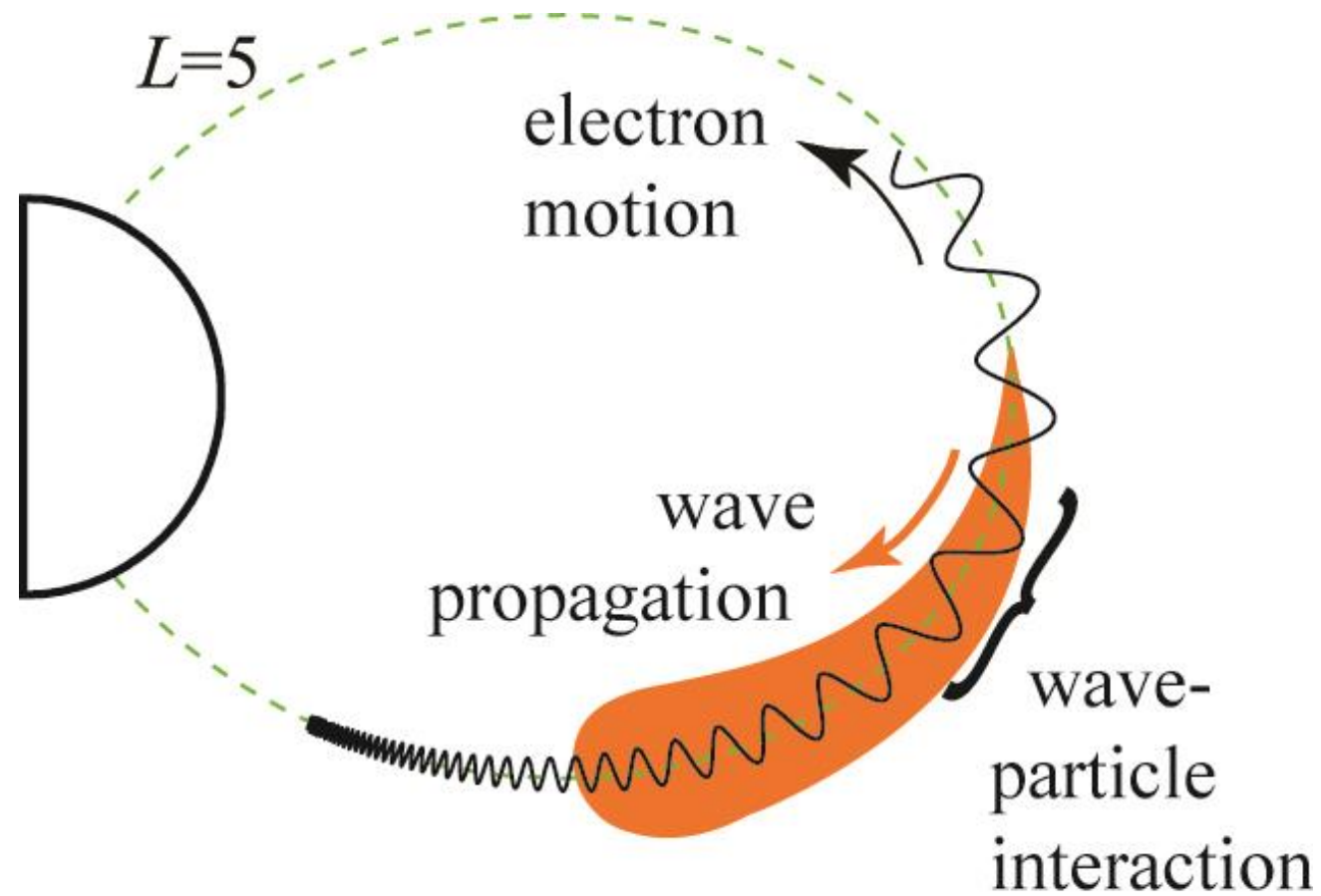
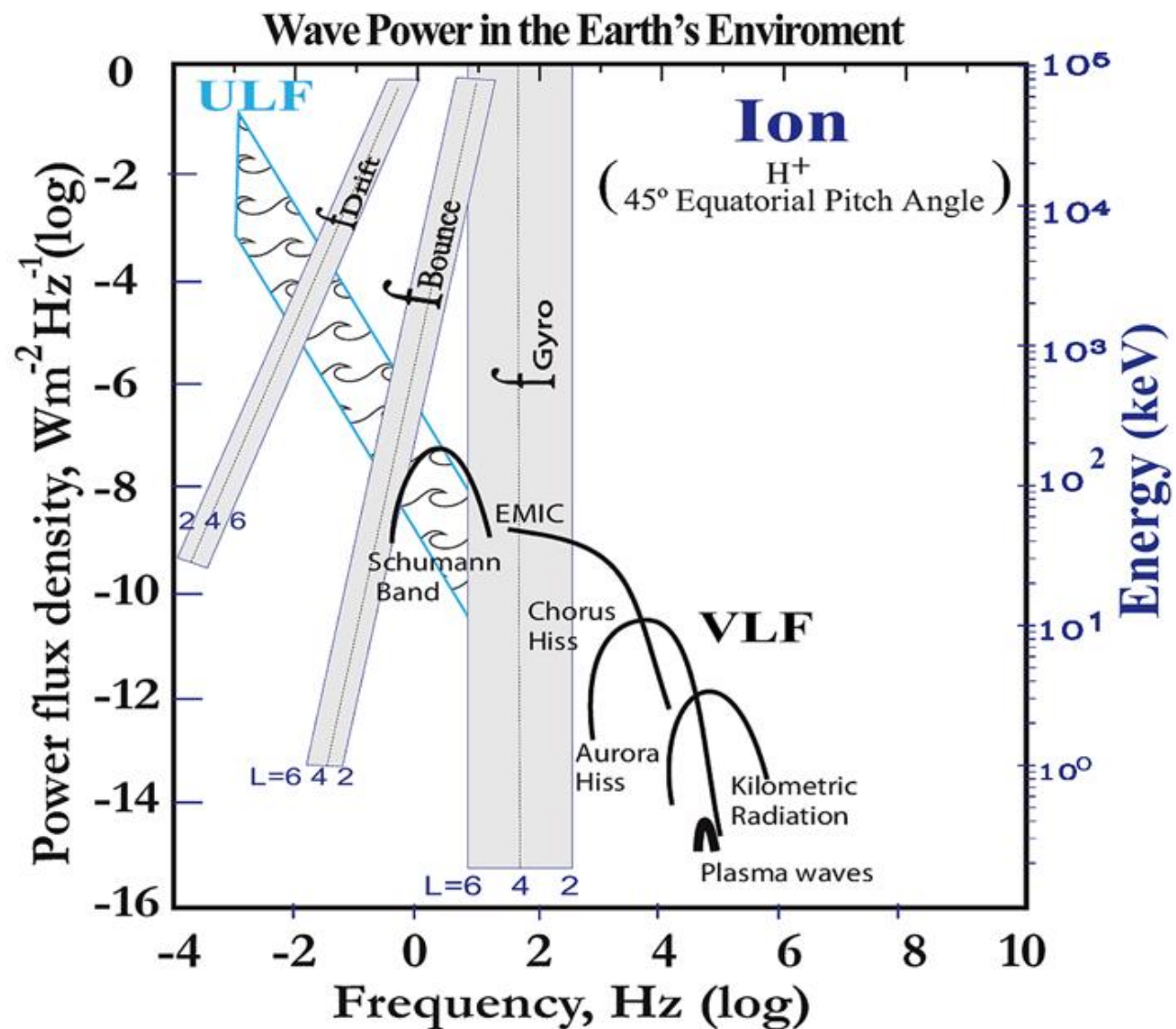
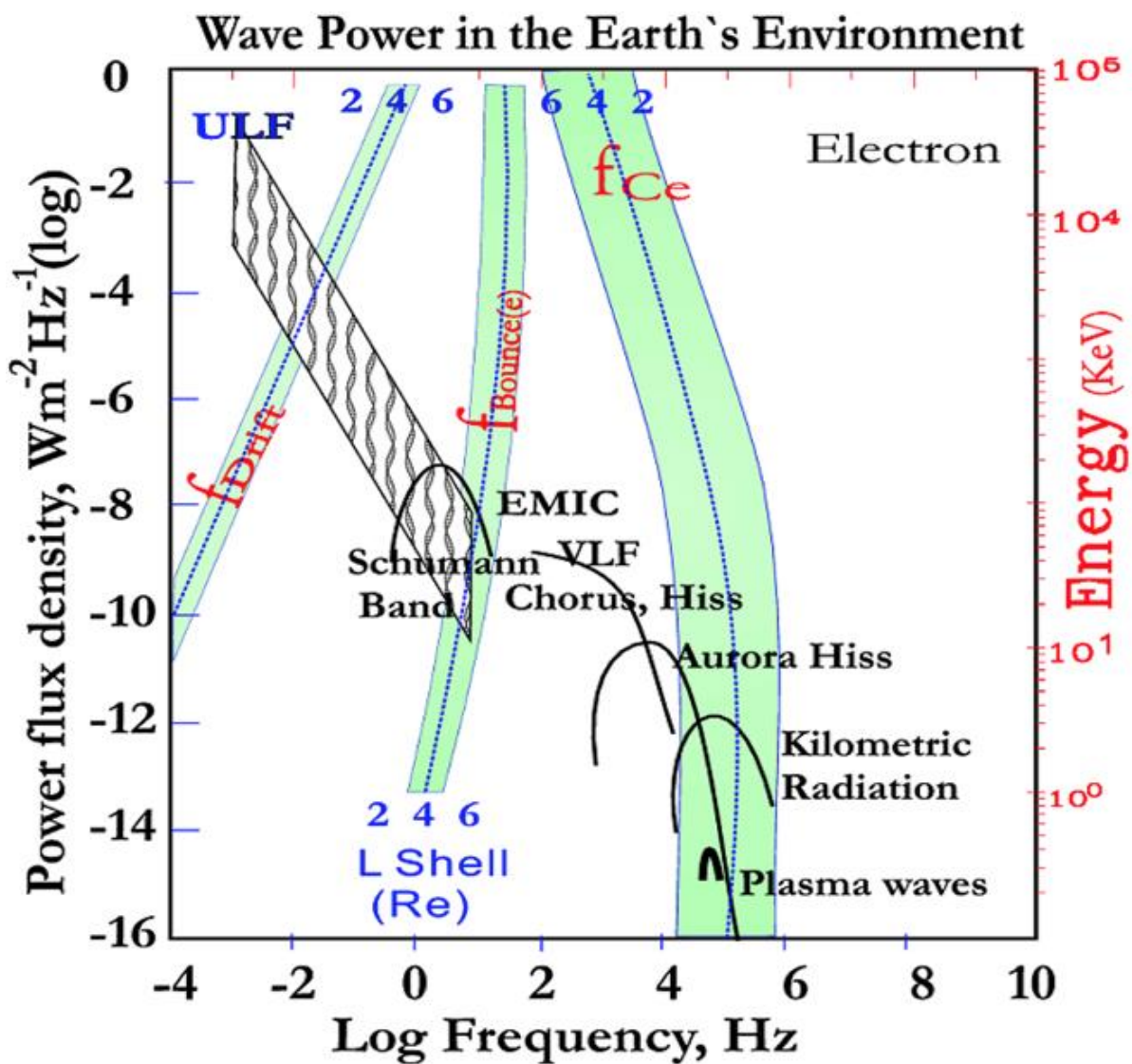


Space Physics Master's Course

Lecture 7

Storms

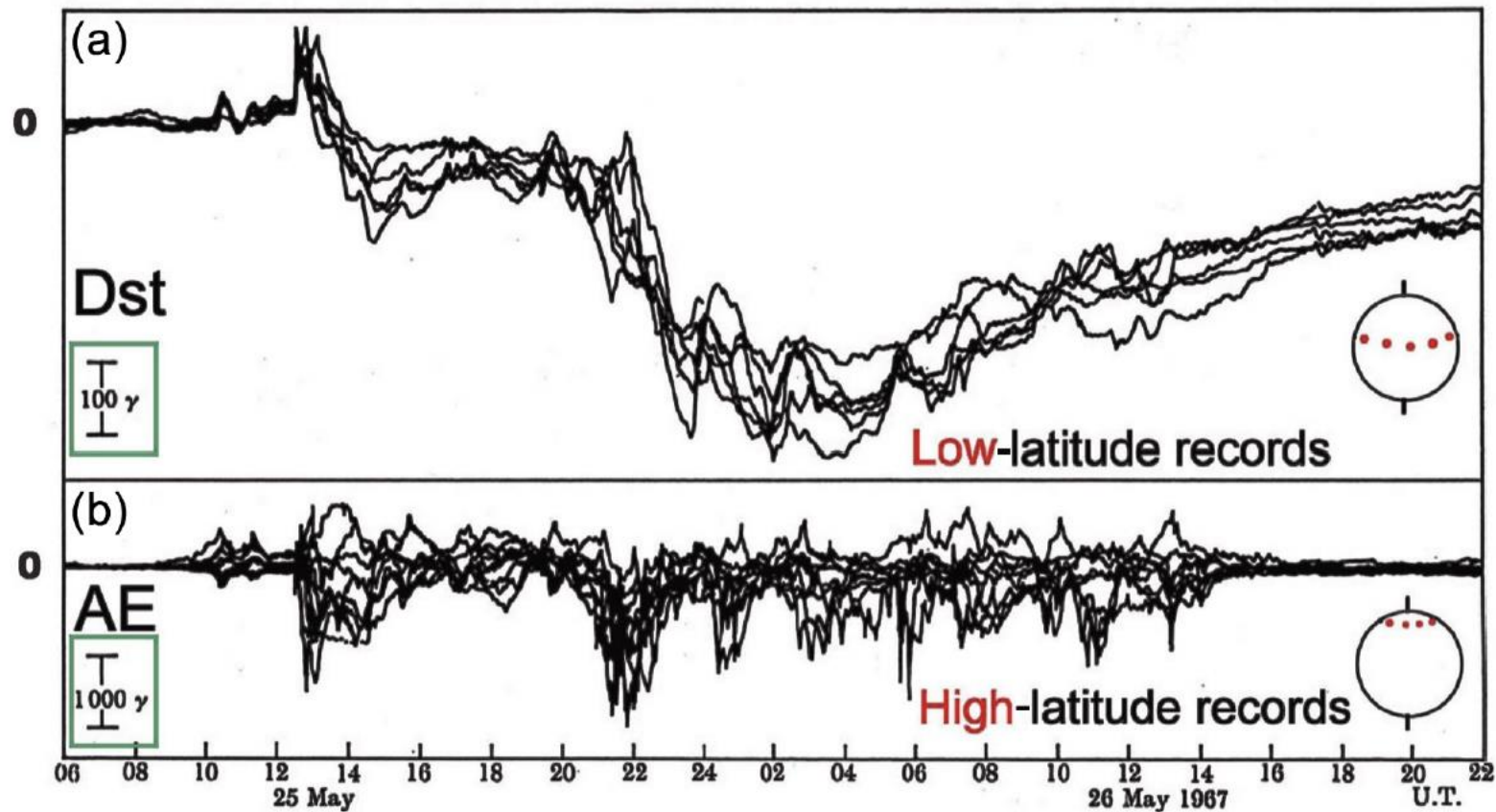




The original Chapman-Akasofu storm-substorm concept

$$\text{Storm} = \sum \text{substorms}$$

SSC



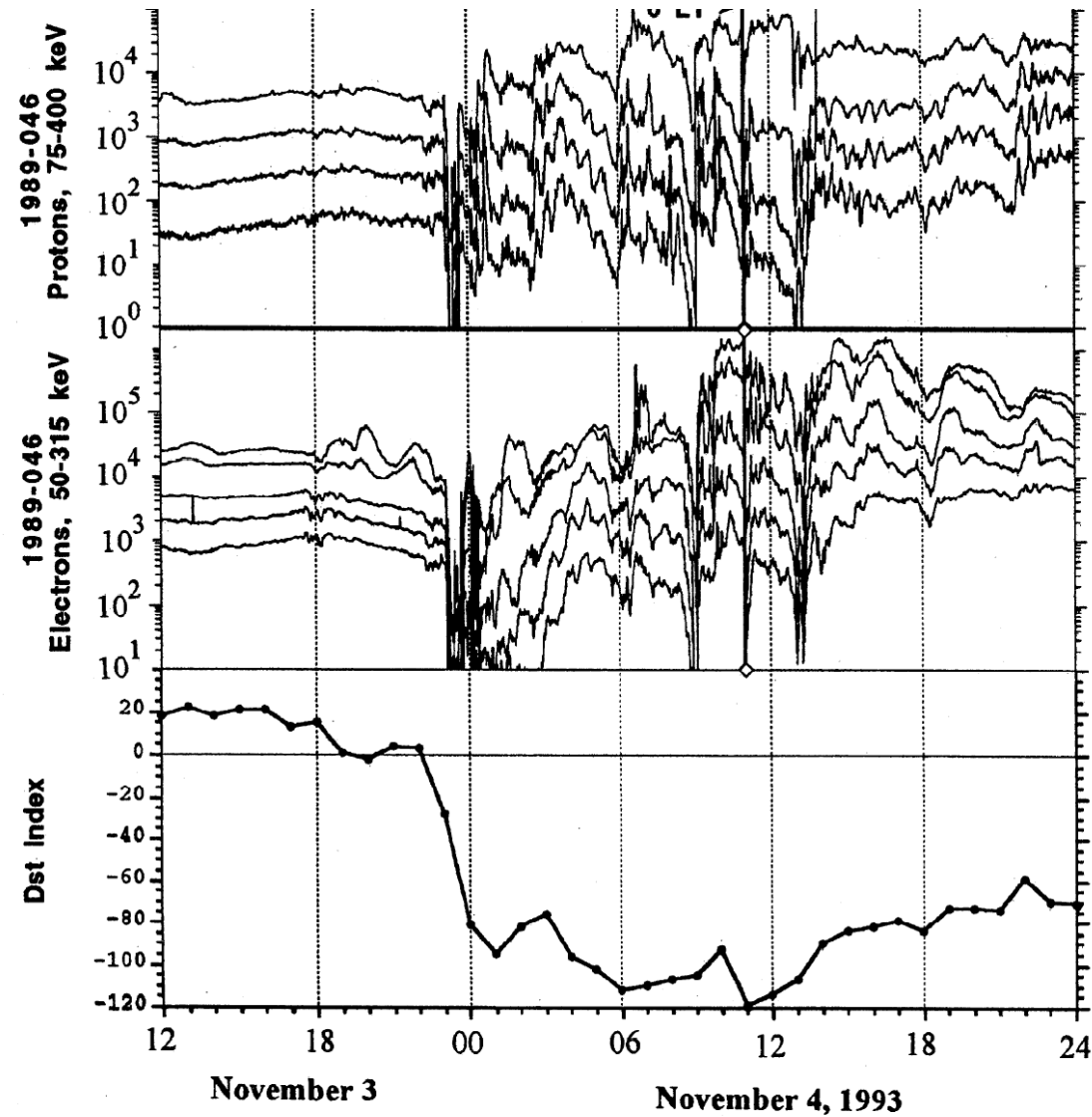


Figure 11. The response of geosynchronous energetic particles to the November 3-5, 1993, geomagnetic storm known as the “National Space Weather Event.” The figure shows proton and electron fluxes from two geosynchronous satellites along with the *Dst* index for this period. Very strong injections of energetic particles are observed. However, a direct, quantitative relationship between geosynchronous injections and the development of *Dst* is difficult to establish.

March 2013 storm, Van Allen Probes

