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The Magnetic Field Structure of Solar Plasma Ejecta  
and its Relationship to the Magnetic Field  
of the Sun and the Magnetosphere

by

Syun Akasofu  
*International Arctic Research Center*

ABSTRACT

The study of the solar plasma ejecta, and of their relation to geomagnetic storms, has advanced greatly during the last half of the twentieth century because of a number of findings, respectively, in solar physics, solar wind (interplanetary) physics, and magnetospheric physics, particularly, coronal mass ejections (CMEs), so-called flux ropes” (or “magnetic clouds”), and solar wind-magnetosphere energy coupling. However, at the present time, these studies are progressing rather independently from the point of view of space weather research. We have to at least learn the progress of each others discipline. I will attempt to synthesize what we have learned in the past and show that some of the long-standing, unsolved problems in this field are due to the fact that the present paradigms have no firm foundation.

Friday, April 7, 2006  
Globe Room, Elvey Bldg  
3:45 pm