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Solar Activity, Magnetic Clouds, and Geomagnetic Storms

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ND 736801

Associational aspects of magnetic clouds and solar activity and of magnetic clouds and geomagnetic storms are described. For example, recent research has indicated associations to exist between the launch of magnetic clouds directed earthward from the Sun and, in particular, two forms of solar activity: flare-related, type II metric radio bursts and disappearing filaments (prominences). Furthermore, recent research has indicated an association to exist between the onset of magnetic clouds at Earth and the initiation of geomagnetic storms. Based on these findings, STIP Intervals XV-XIX are examined for possible occurrences of earthward-directed magnetic clouds.