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Interplanetary and magnetospheric phenomena related to large space weather variability

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Some key interplanetary and magnetospheric phenomena associated with strong variability in space weather will be addressed, with special focus on the present descending phase of the solar cycle. It is of special interest to discuss about relativistic electron enhancement events in the inner magnetosphere, that can cause severe satellite damages during intense geomagnetic activity involving frequent and intense magnetospheric substorms that tend to occur during this phase of the solar cycle.

Keywords: **Space Weather, Geomagnetic Activity, Interplanetary Structures**

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