

Radiation storms during solar extreme events by Coronas-F observation .

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Russian low-orbital polar satellite Coronas-F was launched on July, 2001 and since this time several extreme solar events were observed. During some of them geomagnetic activity was very light and caused significant magnetic storms. Different phenomena such as both penetration of solar particles inside the trapping region and in polar caps and variation of electron and ions radiation belts are discussed and are compared with other experiments.

Keywords: magnetosphere, radiation belts, solar energetic particles