

ENERGETIC SOLAR PARTICLES DURING LAST 3 CYCLES

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Energetic Solar particles and energetic during its entire period (launch on Aug. 1966 to re-entry on Dec. 2006) were given. The data were obtained from Solar Geophysical data reports by the US Department of Commerce, hard X-ray burst spectrometer (HXRBS) during the solar cycle 21, 22 and 23. The bursts emitted from solar coronal atmosphere, and extended to the outer layers of the sun, were also studied. Power spectrum analyses method were used for the data treatments, to find the intermediate-term periodicities, 14, 28, 35 are significant. Long term periodicities periodicity 311 days appeared, and confirmed with the other results.

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