
NASA/ADS

Cosmic ray precursor observed by Global Network of Muon Detectors (GNMD)

Show affiliations

da Silva, Marlos; Dal Lago, Alisson; Gonzalez Alarcon, Walter Demétrio; Munakata, Kazuoki; Kuwabara, Takao; Echer, Ezequiel; de Lucas, Aline

Global Network of Muon Detectors (GNMD) is a network of multidirectional muon telescopes distributed in three different continents, covering global range of asymptotic telescope views. The muon telescopes that compose the GNMD are installed in Nagoya (Japan), Hobart (Australia), São Martinho da Serra (Brazil), and Kuwait (Kuwait). Using GNMD data it was possible to observe a cosmic ray precursor for the magnetic storm occurred at December 2006 (Dst -150 nT). This occurred approximately 8 hours before the storm sudden commencement (SSC). In this work we will explain this cosmic ray precursory associated with ICMEs and discuss the possibility of a Space Weather forecasting using this kind of analysis.

Publication:

37th COSPAR Scientific Assembly. Held 13-20 July 2008, in Montréal, Canada., p.624

Pub Date:


2008

Bibcode:

2008cosp...37..624D

Comments:

Symposium P, session SW1 (oral / poster). Paper number: PSW1-0020-08

 Feedback/Corrections? (http://adsabs.harvard.edu/adsfeedback/submit_abstract.php?bibcode=2008cosp...37..624D)