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Trimpi events solar minimum incidence: the beginning of a model to re-evaluate the radiation belts equilibrium

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Fernandez, J. H.; Marques Brum, C. G.; Correia, E.

We present the first results of an incipient attempt to re-modeling the Van Allen electron radiation belts equilibrium mechanisms During the 23 rd cycle solar minimum period 1995-1997 the Trimpi occurrence at the Antarctica Peninsula region was collected and studied With statistical techniques we have reproduced the pattern of the events incidence on that period The 1998 year was also analyzed and two well defined geomagnetic storms 01-07 May and 26-31 Aug were studied in association with the Trimpi events data We have confirmed the narrow relationship between events occurrence rate and geomagnetic activity The next step in order to carry on the model will be the modeling of the solar maximum Trimpi occurrence and to compute these results in the present radiation belts population models

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