

Storm Induced Geomagnetic Cut-Off Variations: How Big Are They and Do They Really Matter?

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It is well known that Geomagnetic Storms change the geomagnetic field configuration, thus changing the local geomagnetic cut-off. The effect of such changes on cosmic ray induced charged particle fluxes at aircraft altitudes is investigated. The results are compared with other variations and with the inherent uncertainties in dose estimates.