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**Magnetospheric transmissivity for cosmic rays during selected recent events with interplanetary/geomagnetic disturbances**

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For four intervals with moderate geomagnetic disturbances, namely (a) DOY 316-321 in 2012, (b) DOY 274-276 in 2013, (c) DOY 49-51 in 2014 and (d) DOY 58-59 in 2014, the changes of cut-off rigidity (COR) for selected positions of neutron monitors in Europe were computed in Tsyganenko 96 (Ts96) and Tsyganenko 2005 (Ts05) models. While for (a) the profile of CR intensity quantitatively corresponds to expected COR variations with the increase at middle latitudes during strong Dst depression in the recovery phase of FD, for (b) the FD profile is similar to that of Dst, for (c and d) the Dst depression not corresponding to FD leads to CR increases at middle latitude NMs consistently with COR computed values. The examples stress the importance of including anisotropy of CR flux in interplanetary space to computations of COR based only on geomagnetic field models. Correlations of COR and of CR intensity at selected NMs during the four intervals with the solar wind parameters, with IMF and Dst is checked. Differences in COR for Ts96 and Ts05 are discussed. Comparison of the results with those obtained in earlier similar type studies is done.