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Atmospheric circulation processes and cosmic rays during 1958-2005

Abstract content

The response of the atmosphere circulation processes to the heliosphere action is one of the most interesting problems of climatology. Northern hemisphere atmosphere circulation processes has been investigated in connection with solar activity phenomena, solar wind parameters, geomagnetic disturbance and cosmic rays. It may be examined the chain of weather transformations as a series, containing the similar situations in the time of repeating input conditions. The extreme solar events were singled out for the purpose of its special identification. The calculations of correlations between the time-series of alternations of circulation patterns for the period 1958-2005 and heliosphere parameters help us to evaluate connections among troposphere circulation and near-Earth cosmic space impact. The physical mechanisms of complex atmosphere processes are discussed in application to the anomalous weather transformations of last years.

If this papers is presented for a collaboration, please specify the collaboration

Summary

Reference

Primary author(s) : Dr. VAL'CHUK, Tatiana (Evgenievna)

Presenter(s) : Dr. VAL'CHUK, Tatiana (Evgenievna)

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