COSMIC RAY CHANGES AND GEOMAGNETIC PHENOMENA FORECASTS.

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Abstract

Cosmic ray intensity data were used to choose the optimal architecture of Artificial Neural Network (ANN) procedure which permits satisfactory short term C.R. intensity predictions.

Introducing series of geomagnetic data in the procedure and simultaneously improving the architecture, some encouraging results for forecasts of the geomagnetic field changes has been obtained.

To obtain a longer term predictability some changes of the ANN node structure have to be introduced and larger amount of data has to be used.