

SPACE-TIME ANALYSIS ON THE GEOMAGNETIC FIELD

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Using method of Natural Orthogonal Component (NOC) and hourly data on the 36 geomagnetic observatories, we study on the geomagnetic field over China during 1995-2007 year. It is shown that during these years, about 75% energy of total intensity is increased linearly, about 13% energy has a turning point near 1999 year, it is increased before 1999 and decreased after this point, and about 3% energy has 2 tuning points during these years. Otherwise, we find there are three abnormal region exist, one plus region is over India and the north of Indian Ocean, another plus region is to the west of China, and one minus region is in the north-east of China. We think attention to the minus region will be advisable. It pricked up from 1995 to 2005, and reduces after 2005, being different from two plus regions, which increase constantly. Furthermore, we discuss about the boundary control and try to explain the possible geophysical reasons.

NOC, magnetic field changes

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