论文

地震前兆: 电离层F 2层异常

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摘要 本文简述了目前提出的地震引起电离层异常扰动的物理机理,重点介绍了近几年国内外对震前F2层异常扰动的研究进展.大量的研究结果显示地震活动引起的电离层扰动不仅确实存在,而且在震级大于5级的地震发生前的几天到几个小时会发生电离层扰动.由于地震引起的电离层F 2层变化具有独一无二的特性,这就意味着我们可以利用强震前的F 2层异常变化作为地震短临预报的工具.

关键词 地震前兆 电离层异常 临界频率 短临预报

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Earthquake precursor: the anomalies in the ionospheric F 2 region

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Abstract The physical mechanisms of the anomalies in the ionosphere associated with earthquakes are presented in the paper. This article is aimed at describing the development of the anomalies in the ionospheric F -2 region before earthquakes recent years. Many results brought out clearly that ionospheric variations do exist associated with seismic activity and appearing few days or hours before the seismic shocks of large intensity ($-M \geqslant 5.0$). We can conclude that seismically induced ionospheric F -2 region variability shows unique feature that permit us to exploit innospheric variations before strong earthquakes as a tool for short-term predictions.

Key words

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