

论文

近50年东北地区温度降水变化特征分析

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摘要 以东北三省为研究区, 利用1951~2000年东北地区110个气象站的观测资料, 采用小波分析方法, 对近50 a温度、降水变化进行分析。结果表明: 东北地区的年平均气温有15 a的周期变化, 15 a周期变化中还有2~4 a短波动; 降水分为多、少、多3个阶段; 年平均气温以0.6℃/10 a的速率上升, 春季气温上升最高, 冬季次之; 降水变化以0.27 mm/a的速率递减, 其中春季降水略有增加, 夏、秋季降水均为减少趋势。

关键词 [东北地区](#) [温度](#) [降水](#) [特征分析](#)

分类号

Characteristics of temperature and precipitation in Northeast China from 1951 to 2000

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Abstract Based on the observational data of 110 meteorological stations from 1951 to 2000 in Northwest China, the changes of temperature and precipitation were analyzed with wavelet analysis. The results indicated that the change period of annual mean temperature was 15 years in Northeast China, which also had a short period with 2~4 years. The precipitation in Northeast China during recent 50 years could be divided into three stages. The annual average temperature increased with an extent of 0.6 °C per ten years. The increase of temperature was highest in spring, followed in winter. The precipitation decreased with an extent of 0.27 mm per year. While the precipitation increased slightly in spring, it decreased in summer and autumn.

Key words [Northeast China](#) [Temperature](#) [Precipitation](#) [Characteristics](#)

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