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### 青藏高原地面加热场与春季川渝地区气温的关系

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The relationship between the surface heating in Tibetan Plateau and spring air temperature in sichuan-chongqing area

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**摘要** 应用奇异值分解(SVD)技术,研究了青藏高原地面加热场与东亚地区上空500hPa高度场及其东侧川渝地区春季气温场的时空联系和冷暖异常成因.结果表明:前期冬季青藏高原地面加热场与后期春季高度场的第1模态代表了两场间的主要耦合特征,具有显著的时空相关;前期冬季青藏高原地面加热场通过影响后期春季500hPa高度场,导致未来春季大气环流变化,是造成川渝地区春季气温异常的重要原因.

**关键词:** 青藏高原 加热场 大气环流 春季气温 奇异值分解

**Abstract:** Using singular value decomposition (SVD) technique,the relationship of time and space between the surface heating field in Tibetan Plateau and 500hPa geopotential height field of east Asia area as well as the spring air temperature in Sichuan Chongqing area and the cause of abnormal cold and warm is studied.The result shows that: The first modes,derived from the surface heating field in Tibetan Plateau in previous winter with the geopotential height field in next spring represent the main coupling feature between the two fields,and have Significant time space correlations.The surface heating field in Tibetan Plateau in previous winter by influencing the 500hPa geopotential height field in next spring,and influencing the general circulation,is the main factor of abnormal air temperature in spring in Sichuan Chongqing area.

**Key words:** Tibetan Plateau heating field general circulation air temperature in spring singular value decomposition

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