



中国地区大气硫化物分布和输送基本特征的模拟研究

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The numeric simulation of the distribution and transportation of SO₂ and sulfate aerosol in China area

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摘要 在区域气候模式的基础上连接大气化学模式,利用耦合的模式系统模拟了中国地区大气二氧化硫和硫酸盐分布和季节变化,发现大气中二氧化硫在冬春季大,夏秋季小.硫酸盐气溶胶浓度在夏季最大,并且从地面到高空单调递减,其浓度的季节变化在400hPa以下最明显.

关键词: 大气化学模式 区域气候模式 二氧化硫 硫酸盐气溶胶

Abstract: A coupling model of regional climate model and atmospheric chemistry model has been used to simulate the distribution and the seasonal variation of SO₂ and sulfate aerosol in China area.It has been concluded that the mount of SO₂ in the Winter and Autumn season is more than that in the Spring and Summer season,the concentration of the sulfate aerosol is of maximum in Summer and follows the monotone decreasing from the surface to the upper atmosphere.The seasonal variation of aerosol is obvious mainly under the 400hPa.

Key words: atmospheric chemistry model regional climate model sulphur dioxide sulfate aerosol

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