

论文

重庆主城区紫外线辐射强度变化特征分析

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摘要

研究重庆主城区紫外线辐射强度的变化规律, 为业务预报和客观预报方法的研究提供基础。利用2004年3月—2008年2月的实况观测资料, 分析主城区紫外线辐射强度的日、月、季和年变化规律。结果表明: 重庆主城区日平均最大辐射量出现在中午13时—14时。7月和8月的辐射强度为全年最强, 出现辐射等级四级的概率最大; 而1月和12月为全年最弱, 没有出现过辐射等级高于三级的样本。季节平均辐射强度夏、春、秋、冬依次减弱。2004年和2006—2007年平均辐射强度相当, 2005年较弱。

关键词

[紫外线辐射](#) [强度等级](#) [特征规律](#)

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Characteristics of ultraviolet radiation intensity in the main urban area of Chongqing, China

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Abstract

Based on the observation data from March 2004 to February 2008 in the main urban area of Chongqing, the diurnal, monthly, seasonal and annual variations of ultraviolet radiation intensity were analyzed in order to service the operational forecast and the objective forecast technique. The results indicate that the maximum value of daily average radiation intensity occurs during the period from 1:00 PM to 2:00 PM. The daily average radiation intensity is the highest in July and August with the largest probability of the fourth grade (radiation grades), while the lowest in January and December with less than the third grade. The largest seasonal average radiation intensity appears in summer, followed by spring and autumn, and the lowest in winter. The annual average radiation intensities in 2004, 2006 and 2007 are almost the same, while that in 2005 are lower.

Key words

[Ultraviolet radiation](#) [Intensity grade](#) [Characteristics](#)

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