

Ozone Measurements in the Stratosphere from KSR420S-1 and -2 : the Preliminary Results

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Abstract

The Korean sounding rockets(KSR) 1, 2 equipped with the UV optical detectors have been launched at An-heung, Chungchongnam-do, of June 4 and September 1, 1993, respectively. The UV detector is used to measure the attenuation of solar UV radiation for various frequency bands in the stratosphere. We obtained the profile of the ozone number density within the altitude of 15 - 30 km by applying the Beer-Lambert law. It is found that the maximum of the ozone distribution occurs near 25km, which is quite consistent with the mean value in the mid-latitude regions. We will also compare our results from KSR 1,2 with the other observational data from the Dobson spectrometer at Yonsei Univ. and the LIDAR, which were performed simultaneously with the sounding rocket experiments.