BACKGROUND BRIGHTNESS AND POLARIZATION OF THE SKY IN THE SPECTRAL REGIONS OF SOME LASERS OPERATION

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ABSTRACT

In laser sounding of the atmosphere during day-time it is necessary to know both scattered radiation background and its degree of polarization in any point of the sky. In this paper scattered intensity and polarization data are given for the spectral region 0.7 - 2.4 μ which is overlapping most lasers operation bands.

Measurements were of complex character and main optical parameters influencing scattered radiation field distribution (such as optical thicknesses, scattering functions, albedo of the underlying surface) were determined.