

Monitoring observation of Jupiter at visible wavelengths

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We report first results of the monitoring observation of Jupiter for visible wavelength, using a small telescope, CCD camera and some interference filters. The purpose of the observation is to search and stack long-term variability of the structure of the Jovian troposphere and cloud quantitatively.

We used some interference filters, whose have wavelengths of 609, 724, 890 nm with methane absorption, and a reference wavelength of 750 nm with no methane absorption.

We examine heights of cloud top for some Jovian zone/belts by dividing the reflectivity of the wavelength 724nm into that of 750nm.