

The Near-infrared Observation of Venus Lower Atmosphere at Gunma Astronomical Observatory.

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We report the near-infrared observation of Venus nightside cooperative with Gunma Astronomical Observatory.

The Galileo NIMS cleared that Venus has several 'windows' in near-infrared region.(Carlson et al.1991) With this 'windows', we can observe Its lower atmosphere

that we can't with visible because of its dense H₂SO₄ clouds.In this study,we use 1.0,1.7,2.3um windows to tracking the lower clouds.

The method is the scan mapping with a slit in the spectroscopy mode. Operating telescope in the tracking mode for fixed star, the slit deviates from Venus

because of its revolution. With this method, we can obtain a slit scan data of Venusian nightside for 6 minutes. As a result we can get latitudinal ,specral,and additionally longitudinal informations.