

## Strategy of lightning observation on Venus

# Yukihiro Takahashi[1]

[1] Dept. Geophysics, Tohoku University

Existence of lightning on Venus is still controversial regardless of 20 years extensive investigations based on optical and radio wave data obtained by spacecraft orbiters, balloons and a telescope on the ground. However, many observational and theoretical studies strongly suggest the lightning activity. It should be essential for the proof to design and manufacture an optical instrument which has high time resolution and sufficient sensitivity as well as radio wave receivers. Observing lightning activity will enable us to monitor atmospheric and electromagnetic conditions of Venus. We discuss the strategy of optical and radio observations, making use of a Venus orbiter.