



Contribution ID: 129

Type: **Poster**

Observation of GEO Satellite Above Thailand's Sky

Thursday 25 May 2017 17:45 (15 minutes)

This study did observation of Geostationary Equatorial Orbit (GEO) satellite above Thailand's sky by 0.7-meter telescope at Inthanon Mountain, Chiangmai, Thailand. The observation took place 14 nights with Sidereal Stare Mode (SSM) in which the moving object will show during the streak detection. The star identification for image calibration is based on a star catalogue. The streak detection of the satellite used matched filter and the extraction of celestial coordinates of the satellite as predicted position. Finally the orbital elements for each satellite was determined.

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Session Classification: Poster Presentation II

Track Classification: Astronomy, Astrophysics, and Cosmology