

Astrometry of Thaicom series satellite

This paper describes observations of GEOs satellite Thaicom series with 0.7 m telescope at Inthanon Mt., Chaingmai, Thailand. Observation took place 2 nights. Three-frame was done for each set and 2 sets were preceded for each satellite. Then the astrometry technique; LPSR (Least Square Plate Reduction) was used to get object coordinate in order to compare with well-known reference stars in catalogs that we programed on the website astrometry.net. Next we read file on xparallax VIU. These results can be used to calculate angular velocity and to predict orbital parameters for 6 orbits of each satellite. The orbital parameters include eccentricity, semi-major axis, inclination, longitude of ascending node, argument of periapsis and mean anomaly.

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