Public Relations and Training

Fumi Yoshida

Distribution of Observing Manual:

This year, an observation manual supervised by IOTA/EA will be added to the publication list.

Data analysis training:

Data analysis will be the main lecture content of this year's occultation observation workshop.

Distribute Observing Manual

English version

Observation manual for stellar occultation by asteroids

ion observers in Japan use QHY174M-GPS (from QHY) or ASI290MM (from ZWO OHY174M-GPS, which was developed for occultation observations, became popular as a standard comers for occultation observations around 2017 after the observation of stellar occultation by the Kuiner Belt object (486958) Arrokoth, which is the flyby target of NASA's New Horizons spacecraft. On the other hand, since the OHY174M-GPS is quite expensive, it was not widely used by Japanese amateurs. Instead, the ASI290MM. which was developed as a popular planetary imaging camera, became popular among Japanese amateurs. However, the ASI290MM camera does not have a built-in GPS function. This camera does not have a built-in GPS function, so it requires a unique

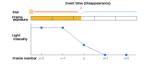


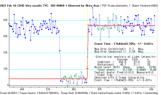


vers. (b) ASI290MM (made by ZWO) is popular among Japanese occultation ob of its low price. But this ASI290MM has no GPS function. To compensa

The aforementioned occultation observations of (486958) Arrokoth were supported by the New Horizons mission and were a great success. The occultation observations precultation observations of the Apollo-type asteroid (3200) Phaethon, the flyby targe of the DESTINY+ mission, were systematically performed in 2019, 2021, and 2022. The 2021 observations were performed from 35 different sites, and then the positive detections were reported from 18 sites. These observations helped to determine the exact size and shape of Phaethon. The observation of the occultation by Phaethon was also a great success in 2022 (see chapter ?? for details). The size and shape of asteroids obtained cultation observations have recently attracted the attention of professional researcher as a tool for solar system exploration missions

of the time between the start of exposure of the nth frame and the frame output. Based on this principle. Limpayie creates a model of the phenomenon, including light diffraction





まず、前項のような求め方をする上で誤差要因となるのは、ライトカーブ上に載ってい るノイズである。これらは、操像素子上の読み取りノイズや、大気の揺らぎによる「星の

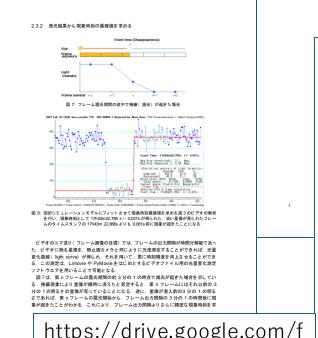
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The English version is a translation of the Japanese version. Some figures in the English version still have Japanese explanations in the figures.

We welcome your comments and feedback on both the Japanese and English versions. We hope to have all revisions completed and ready for posting on the IOTA/EA website by the end of IOTA/EA 2024/25.

> 小惑星による掩蔽観測マニュアル 早水, 宮下, 渡辺, 山村, 吉田

IOTA-EA 掩蔽観測チーム線



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Occultation Observation Workshop

The occultation observation workshop will provide training in data analysis. So that each observer can correctly analyze and quickly report his/her observation data.

An IOTA/EA-sponsored workshop will be held once a year.

Date:

2024 Nov. 16-17 (with the Phaethon's observation campaign)

Main topic:

Analysis of occultation observation data

Venue: Kobe University (Rokkodai 1st Campus)

Lecturers: (TBD)

Methods for analyzing AVI data and FITS data



