

Department for Planetary and asteroidal occultation observations

(惑星および小惑星による掩蔽部局)

Our missions

- Promote and disseminate observations of occultations by planets and asteroids.
- Provide prediction of occultation phenomena, receive and compile observation reports, and report to IOTA.
(惑星および小惑星による掩蔽の観測の普及・推進と、観測報告の受付等を主な任務としています。)

Activities

1. Provide prediction of occultation phenomena by planets and asteroids.
(惑星および小惑星による掩蔽現象の予報提供)
2. Receive observation reports from East Asia region and submit to IOTA central office.
(観測報告の受付と東アジア地域での観測結果の中央局への報告)
3. Disseminate observational and analytical methods. (観測法および解析法の普及)
4. Archive and publish observation. (観測結果のアーカイブと公開)
5. Contribute to planetary exploration and science research. (惑星探査や天文学の研究への貢献)

Predictions (予報)

Web Site (ホームページ)

IOTA/EA HOME NEWS ACTIVITIES PUBLICATIONS

IOTA East Asia

Home / Asteroidal Occultation Prediction 2025

HOW TO SUBMIT AN OCCULTATION REPORT

CAMPAIGN OBSERVATIONS

RESULTS 2025

PREDICTION 2025

PREVIOUS PREDICTIONS AND RESULTS

ANNUAL GENERAL MEETINGS

IOTA/EA FY2025/26 PLAN

Recent Posts

IOTA/EA FY2025/26 ANNUAL GENERAL MEETING (2ND CIRCULAR)

2025-08-18

POWER OF ATTORNEY FOR THE ANNUAL GENERAL MEETING FY2025/26 AVAILABLE

2025-08-09

SERVER MAINTENANCE (AUG. 16-17)

2025-08-08

PHAETHON OCCULTATION OBSERVATION CAMPAIGN AND DATA ANALYSIS WORKSHOP - 2025

2025-07-07

REGISTRATION FOR THE FY2025/26 ANNUAL MEETING AVAILABLE

Asteroidal Occultation Prediction 2025

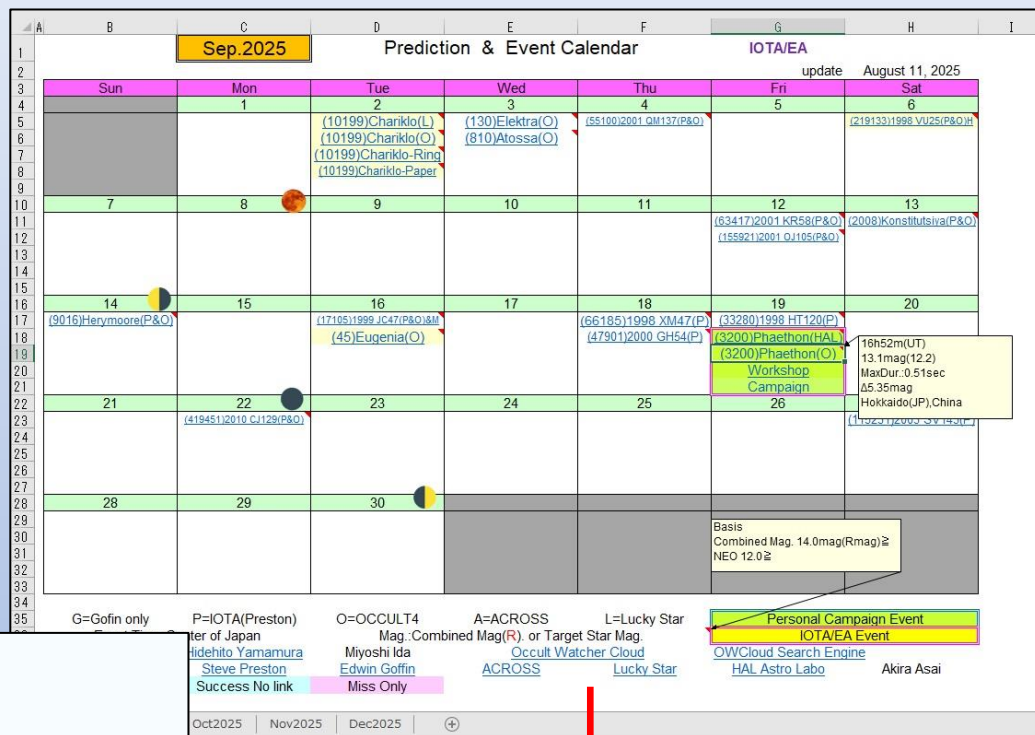
Asteroidal prediction around Japan for OCCULT4 xml format available. (Courtesy of Takeshi Nemoto)

2025 [Apr.](#) [May.](#) [Jun.](#) [Jul.](#) [Aug.](#) [Download by right click]

The following predictions are courtesy of Edwin Goffin (IOTA, Belgium)

Prediction of occultation phenomena which have through Japan (OCCULT4 XML format) by courtesy of Takashi Nemoto.
(根元健さん提供の日本向けオカルト4用予報xmlファイル)

Event Calendar (イベントカレンダー)



Hyperlinks are linked to any of the following prediction :
Occult Watcher Cloud ,Goffin,
Lucky Star , HAL
(オカルト・ウォッチャー・クラウド
他の予報にリンク)

Collection of observation reports / Technical support for observers

(報告とサポート)

- Send your observation reports to
asteroid-report@iota-ea.org

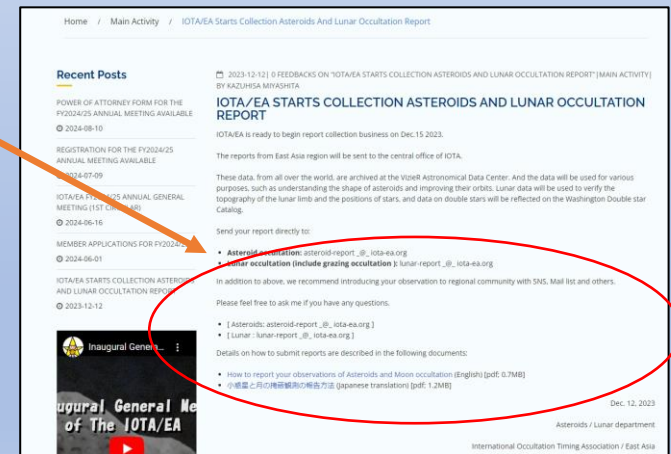
(報告先)

- Reporting methods and forms

(報告方法と様式)

- Providing support for how to get
light curve and accurate time

(解析サポート・※ $S/N > 2.5$ となるような観測手法を広報・支援)



👉 Flow for report submission and review

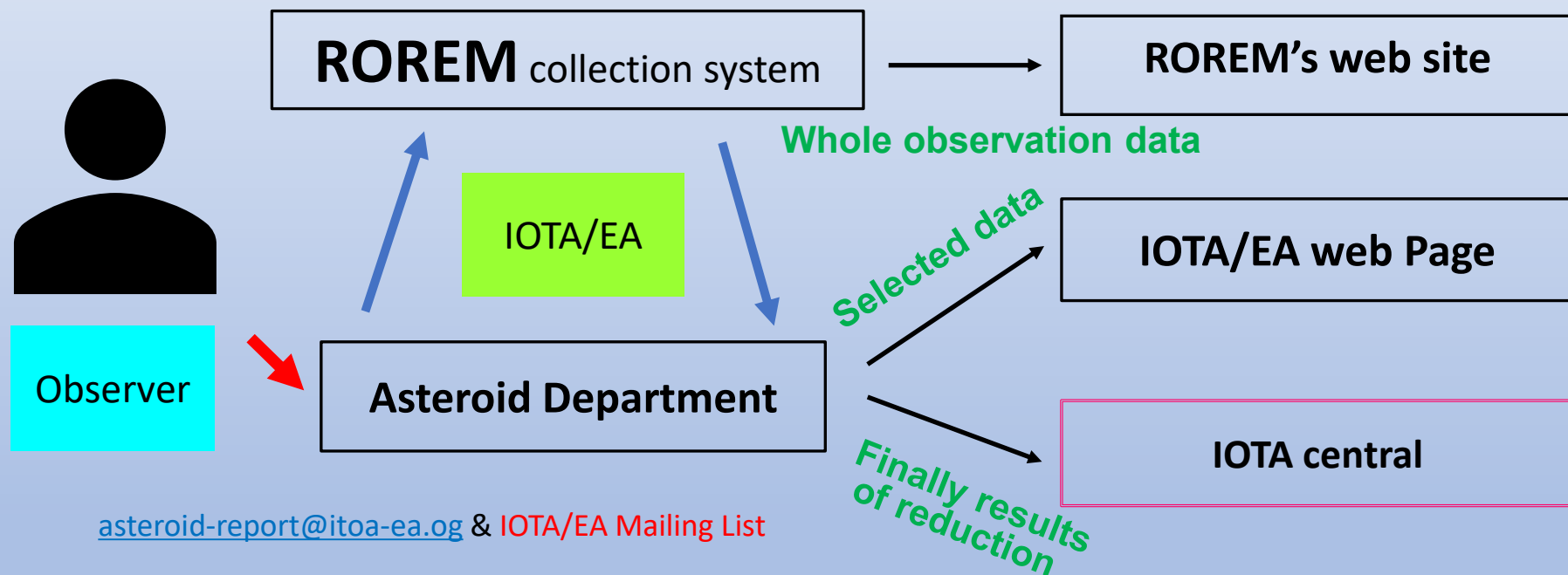
(報告データの流れ)

Analysis & Reduction

(解析と整約)

Sky plane plot & Data

(整約結果とデータ)



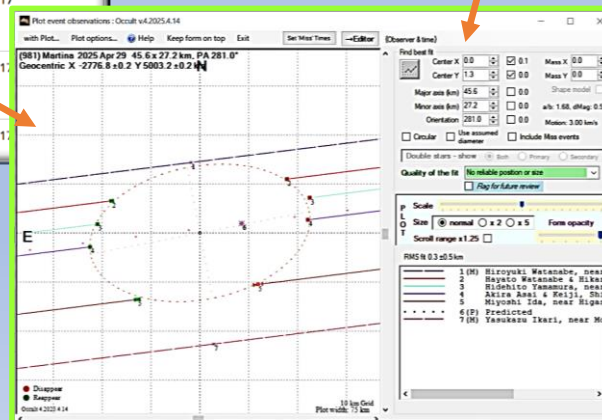
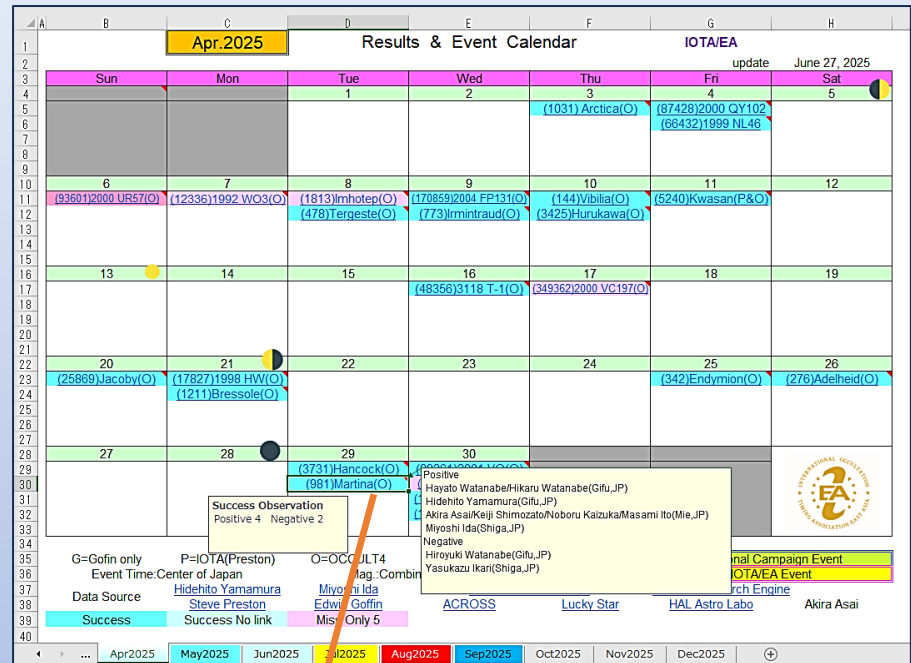
小惑星観測報告受付やメーリングリストへ報告されたデータは、IOTA/EA 小惑星掩蔽部局やIOTA/EA内のワーキンググループの**ROREM**チームにより整約され、ホームページへの掲載、IOTA中央に報告されます。

Result (結果)

Web Site (ホームページ)

Results Of Asteroidal Occultation 2025									
The Summary of East Asia results.									
Past Results / 2018Mar - 2023 (link to HAL site)									
Past Results / before 2018Mar (link to Sendai Space Hall site)									
Asteroidal Occultation Prediction 2025									
*1: The Observations from 2021 are published in OBS.XML format available OCCULT4 as "Obs" field. Download by right click.									
*2: The explanation of How to display VizieR format light curve .dat .									
*1 *2: data for normal asteroids are available in the archives here ; only the special object (cf: TNO, NEA, Binary, double star, mission target, etc) are linked in this table directly.									
Date(UT)	Asteroid	Star	mag	Positive	No occ	Reduction	Obs(*1) detailed data(*2)	update	Note
2025/4/30	(138084)2000 DY62	UCAC4 352-069755	12.9	1	0	link		2025/5/17	
2025/4/30	(130641)2000 SP68	UCAC4 314-091388	11.1	1	1	link		2025/5/17	
2025/4/30	(89261)2001 VO	TYC 0372-00481-1	10.2	1	0	link		2025/5/17	
2025/4/29	(3731)Hancock	UCAC4 410-047677	13.1	1	1	link		2025/5/17	
2025/4/29	(981)Martina	UCAC4 345-078934	12.6	4	2	link		2025/5/17	
2025/4/26	(276)Adelheid	UCAC4 411-051212	13.0	3	0	link		2025/5/17	
2025/4/25	(342)Endymion	UCAC4 535-	12.4	3	0	link		2025/5/17	

Event Calendar (イベントカレンダー)



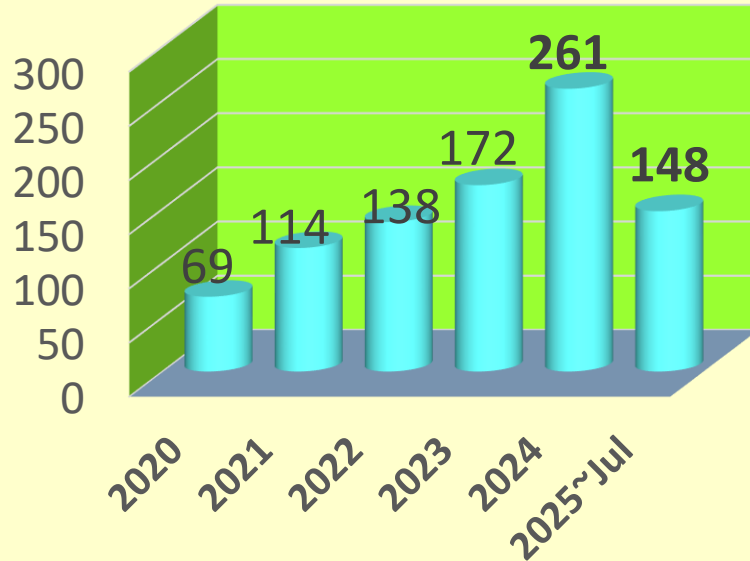
Linked to sky plane plots

(整約図にリンク)

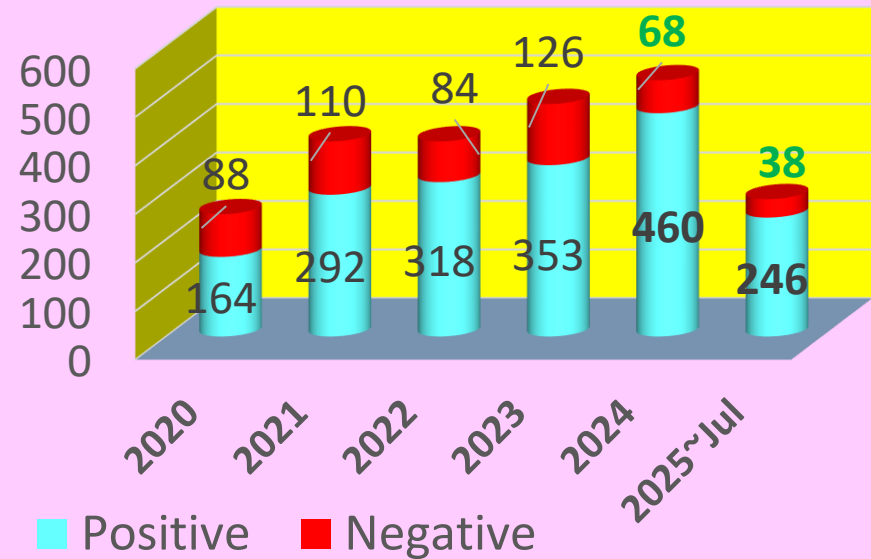
Results *From 2020 to July.2025*

(2020年から2025年7月までの結果)

Success Events (East Asia)



Point of Success Events (East Asia)



Miss Only & Positive? et al

Events & Points (East Asia)

■ Events
■ Points

