

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 ABOUT IOTA/EA LINKS

Home / Asteroidal Occultation Prediction 2026

Asteroidal prediction around Japan for OCCILT4 xml format available. (Courtesy of Takeshi Nemoto)

2026 Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec. [Download by right click]

Asteroidal prediction [Event calendar\(Excel format\) available here.](#) (Courtesy of Hayato Watanabe)

[Download by right click]

PREDICTION 2026

Date(UT)	Star	mag	RA(h m s)	Dec(* ° '")	Asteroid	mag	dia (km)	duration (sec)	dmag	Region	Links
04/18 19h05m	UCAC4 339-091170	13.4	17 19 13.633	-22 18 22.29	(121)Hermione	13.3	main body 196 satellite 32	main body 59.0 satellite 9.6	0.7	Japan, Korea, SE China	HayatoWa
10/17 09h50m	TYC 3920-	11.0	19 08 10.732	+52 47	(3200)Phaethon	14.9	6.3	0.19	4.0	Kantou, Hokuriku	Kasebe , Map

Asteroidal Occultation Prediction 2026

Asteroidal prediction around Japan for OCCILT4 xml format available. (Courtesy of Takeshi Nemoto)

2026 Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec. [Download by right click]

Asteroidal prediction [Event calendar\(Excel format\) available here.](#) (Courtesy of Hayato Watanabe)

[Download by right click]

Prediction of occultation phenomena which have through Japan (OCCULT4 XML format) by courtesy of Takashi Nemoto-san.
(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)

Sep.2026 Prediction & Event Calendar IOTA/EA update August 7, 2026

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3 (2000)Herschel(O) (1374)Isora(O) (5374)Hokutosei(O)	4	5
6 (225)Henrietta(O)	7 (260)Huberta(P&O) (1743)Schmidt(O)	8 (2256)Wisniewski(O)Tha	9 (4094)Aoshima(O)	10 (15h50m)UT 11.9mag(11.3) MaxDur.4.5sec Δ3.5mag Tohoku-Chubu~ Hokuriku~ Chugoku(JP), China Low Alt(JP)	11	12
13	14	15	16 (12529)Reighard(O)	17	18 (373)Melusina(P&O)&M	19 (18530)1996 XS1(P&O)
20	21 (6027)Waratah(O)	22	23	24 (682)Hagar(O) (39459)4266 T-3(O)	25 (635)Vundtia(O) (1621)Druzhba(O)	26 (4381)Uenohara(O)
27 (29514)Karatsu(GM)	28	29 (456)Abnoba(O) (496)Gryphia(O) (585)Bilkis(O)	30 (1077)Campanula(O) (3812)Lidaksum(O)			

P=IOTA(Preston) O=Occult Watcher Cloud GM=GaiaMoons L=Lucky Star A=ACROSS G=Gofin only
Event Time:Center of Japan Mag.:Combined Mag(R), or Target Star Mag.
Data Source: Hidehito Yamamura Miyoshi Ida Edwin Gofin ACROSS
Success: Success No link Miss Only Uncertain
Occult Watcher Cloud Lucky Star HAL Astro Labo OWC Search Engine
Marc Buie(B) Akira Asai

Personal Campaign Event
IOTA/EA Event

Hyperlinks are linked to any of the following prediction :
Occult Watcher Cloud ,Gaia Moons
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)

Please report all observation results

include Miss & Low S/N result., GaiaMoos & Lucky Star Pred.,
Campaign Obs. ,TNO Obs.,Request from a professional

(観測結果は全て報告してください)

通過や低SN比の観測、ガイアムーンズやラッキースター予報
キャンペーン観測、TNO観測、プロからの要請を含みます)

➤ 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)

Send us your valuable reports

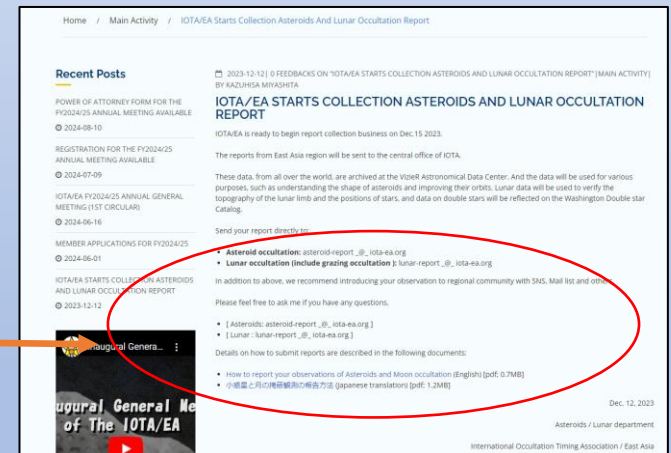
not only

Positive

but also

Miss

(通過も報告)



Support analysis workshop

(解析の学習会も支援)

👉 Flow for report submission and review

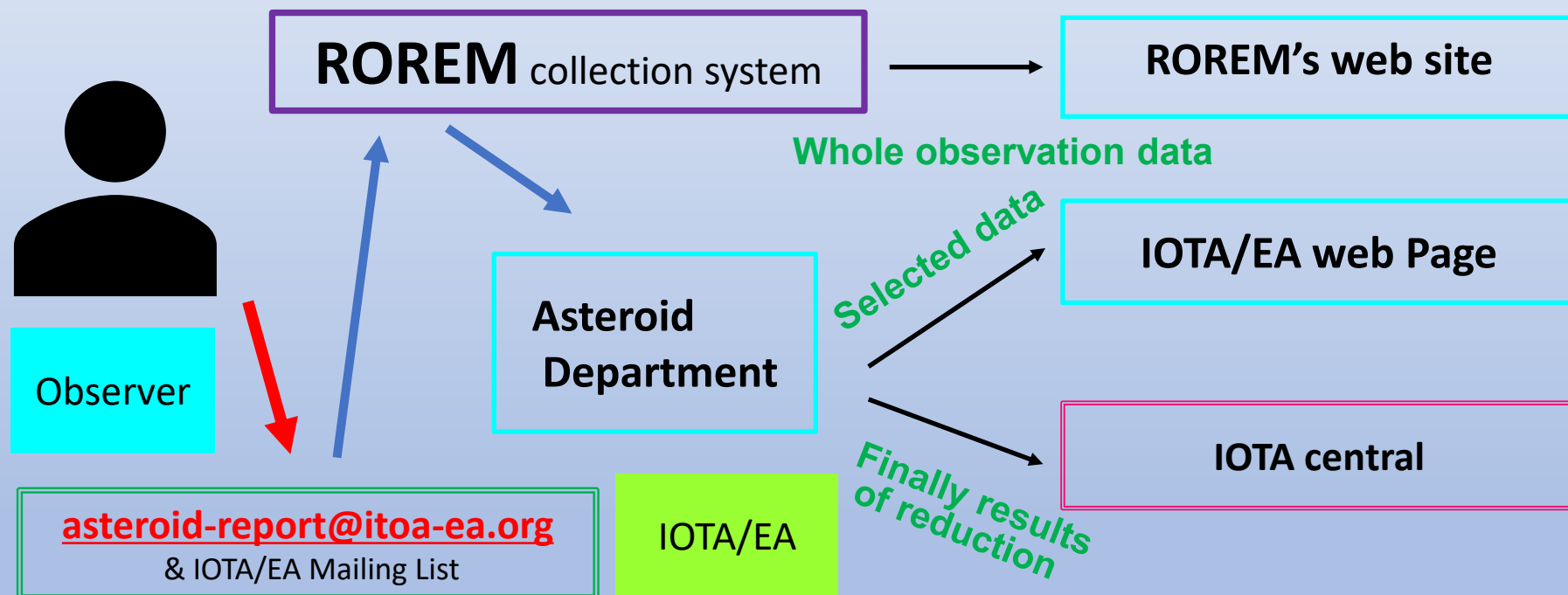
(報告データの流れ)

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内のワーキンググループの**ROREM**チームにより整約され、IOTA/EA小惑星掩蔽部局によりホームページへの掲載、IOTA中央に報告されます。

Result (結果)

ROREM's web site (ローレム ウェブ サイト)

Web Site (ホームページ)

Asteroidal Occultation Observation

Preliminary Result (速報結果)

- Preliminary asteroidal result ROREM (Result Asteroidal Occultation Observation). (Courtesy of ROREM team)
- Results of Asteroidal occultation 2024
- Results of Asteroidal occultation 2024

Predictions

Date(UT)	Asteroid	Star	mag	Positive	No occ	Reduction	Obs(*1) detailed data(*2)	update	Note
2025/8/18	(43857)Tanijinzan	UCAC4 608-139151	11.5	1	0	link		2025/11/21	
2025/8/18	(3885)Bogorodskij	UCAC4 362-079428	13.0	1	0	link		2025/11/21	
2025/8/17	(778)Theobalda	UCAC4 348-191089	13.8	5	0	link	link	2025/11/21	
2025/8/3	(533)Sara	TYC 1271-00679-1	8.3	2	0	link		2025/11/21	
2025/8/1	(45468)2000 AL203	UCAC4 461-129606	10.7	1	0	link		2025/11/21	
2025/8/1	(461)Saskia	UCAC4 345-18206	12.0	1	0	link		2025/11/21	
Date(UT)	Asteroid	Star	mag	Positive	No occ	Reduction	Obs(*1) detailed data(*2)	update	Note
2025/7/31	(12886)1998 QG35	UCAC4 279-10	14.2	1	0	link		2025/11/21	

Sorry

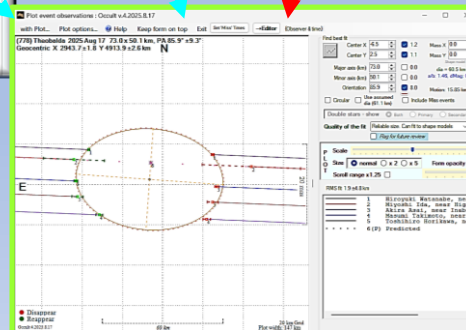
Delay in posting Many Results on the website. (結果の掲載が遅れています)



Result of Asteroidal Occultation Observation													
Date Time	Asteroid number Name	Small Body Database	Observer	Result	Other Solo	CSV dat	Light curve / Analysis	Star VMag	pred Drop	Telescope	Camera	Setting Exp(msec) Area Bin Gain Bti. Set	Video Time conf
2026.01.16 11.1h	(2321)Luznice		Takeshi Nemoto Katsuhiko Kitazaki Miyoshi Ida Masumi Takimoto Takanori Suzuki Toshihiro Horikawa	Plot		CSV dat CSV dat CSV dat	PDE 1.2 1.4 1.4 1.4 1.4 1.2 3.4 1.2 3.4	13.2	3.3	25cm F2.5 Newtonian 40cm F SCT 20cm F4 SCT 40cm F1.8 SCT 20cm F3.3 SCT	ASI290MM ASI462MM Set ASI290MM Set ASI290MM SV305 Set	144 800x548 2 460 0 99.3 1936x600 2 380 0 144 1440x500 2 439 221 112 800x600 2 300 100 338 1440x544 2 560 90.3	conf GPS conf GPS conf GPS conf GPS

Event Calendar (イベントカレンダー)

Aug.2025							Results & Event Calendar		IOTA/EA		update	February 23, 2026
Sun	Mon	Tue	Wed	Thu	Fri	Sat						
					1 (45468)2000 AL203(O) (461)Saskia(O)	2						
3 (533)Sara(O)	4	5 (73255)2002 JL43	6	7	8	9						
10	11	12	13	14	15	16						
17 (778)Theobalda(O) (4) Hiroyuki Watanabe (Gifu,JP) (4) Miyoshi Ida(Shiga,JP) Akira Asai(Mie,JP) Toshihiro Horikawa(Kagawa,JP) Masumi Takimoto(Mie,JP)	18 (37994)1998 KV12 (2100)Ra-Shalom(O) (1295)Deflotte(O) (96580)1998 VY8(O)	19 (170002)2002 TJ286 (90518)1995 FQ6	20	21	22	23						
24 (67619)2000 SJ171(O)	25 (43857)Tanijinzan(O)	26 (1438)Icarus(O)	27	28	29	30						



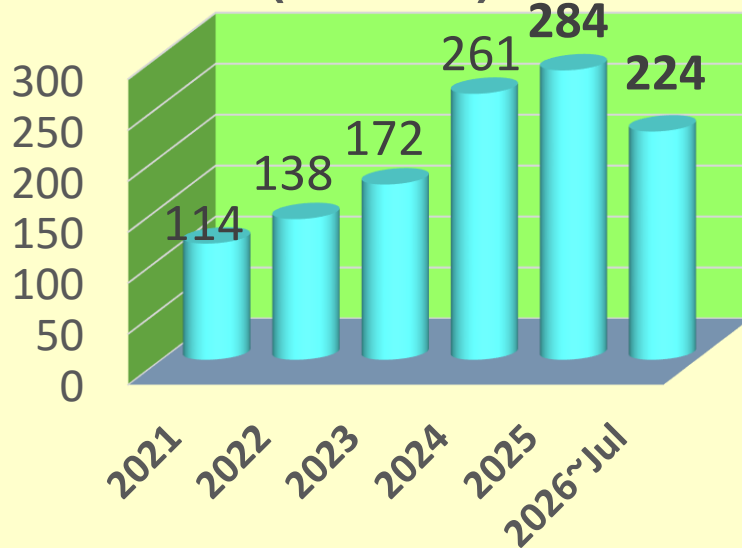
Linked to sky plane plots
IOTA/EA Web Site or ROREM web
(整約図にリンク)

Results *From 2021 to July.2026*

(2021年から2026年7月までの結果)

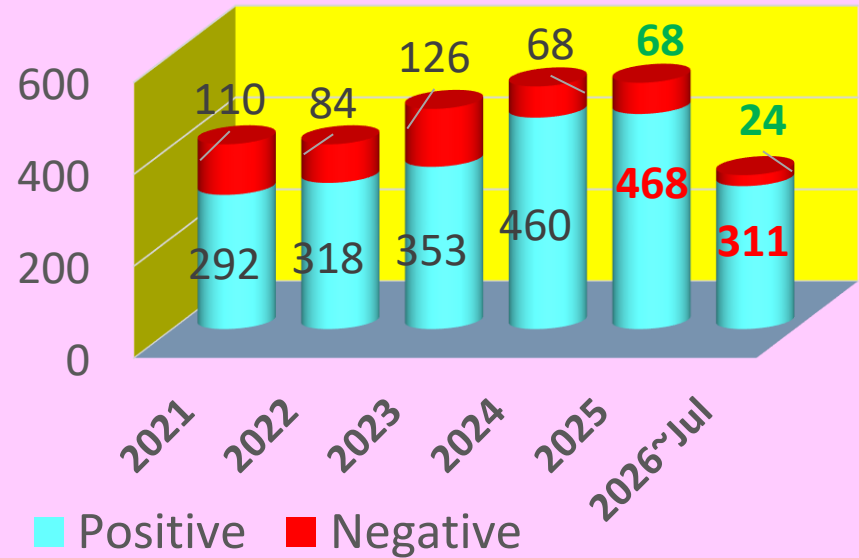
Success Events

(East Asia)



Point of Success Events

(East Asia)



Miss Only & Positive? et al

Events & Points
(East Asia)

■ Events
■ Points

