

**KASETSART UNIVERSITY
LABORATORY SCHOOL**



Exploring the Night Sky: From Star Charts to Telescopes



โรงเรียนสาธิตแห่งมหาวิทยาลัยเกษตรศาสตร์ ศูนย์วิจัยและพัฒนาการศึกษา | English

SATIT KASET



Watch on  YouTube

Our team today...



Attakrit Athaphaisal Grade 12

Dhammavij Sirithanapipat Grade 12

Thiwat Eramchoo Grade 11

Kawin Jindawat Grade 11

With Gratitude to Our Facilitators



- Thai Astronomical Society: Instructed our team on specialized hardware, software, and the science of occultation phenomena.



- Satit Kaset Alumni Association: Provided crucial all-around backing and additional personnel for operations.

Alongside Students of Satit Kaset, Teachers and School personnels

With Gratitude to Our Facilitators



A generous telescope donation from Japan marked the beginning of our collaborative partnership. Practicing with this equipment directly built the tracking skills that led into our joint occultation project.



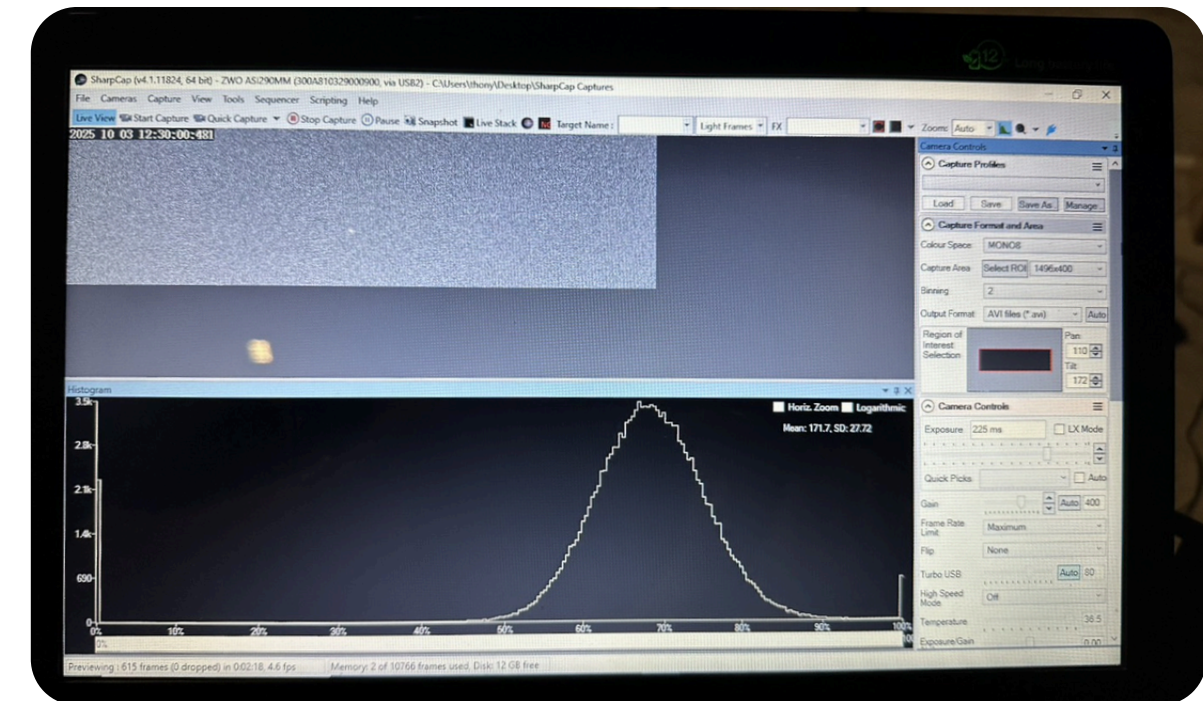
Sky Watcher Flextube 200P SynScan GoTo Collapsible Dobsonian from Japan

Our First Event

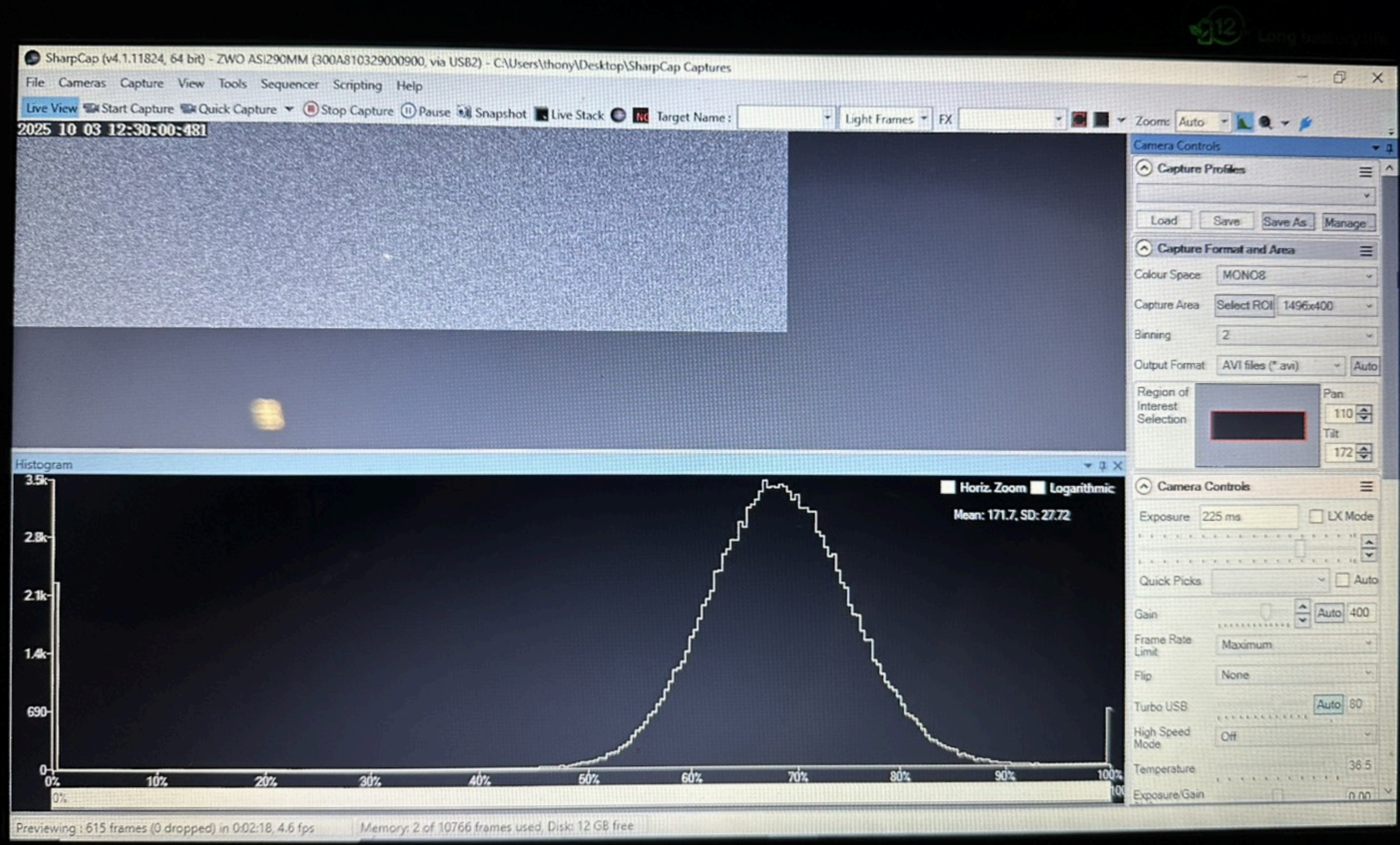
Date : 3rd October 2025

Place : Central Village Outlet

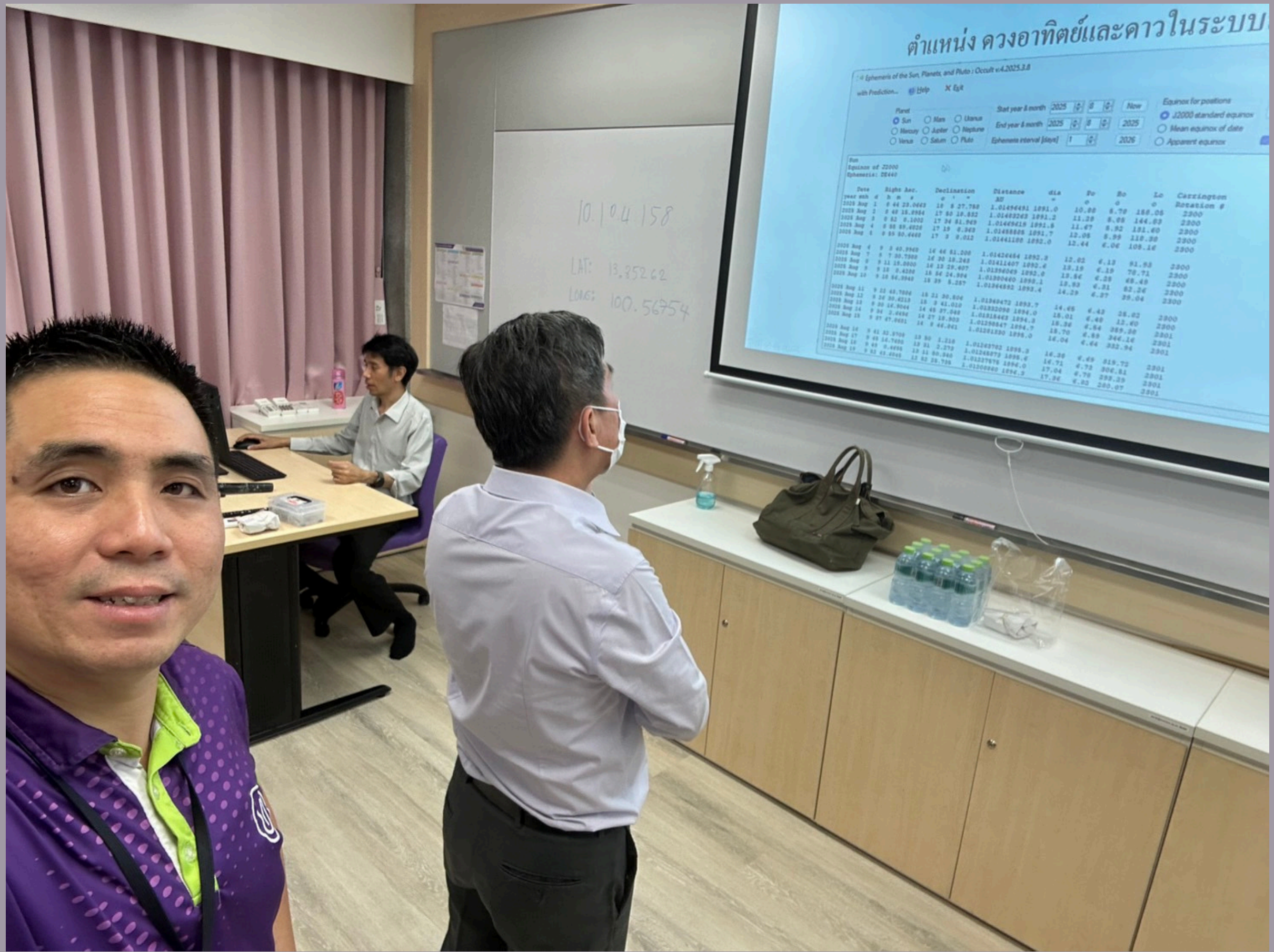
- Objective: First official occultation tracking campaign to train the student team on specialized hardware and software.
- Weather Pivot: Despite dense cloud cover preventing data collection, successfully prioritized equipment calibration and procedural training.



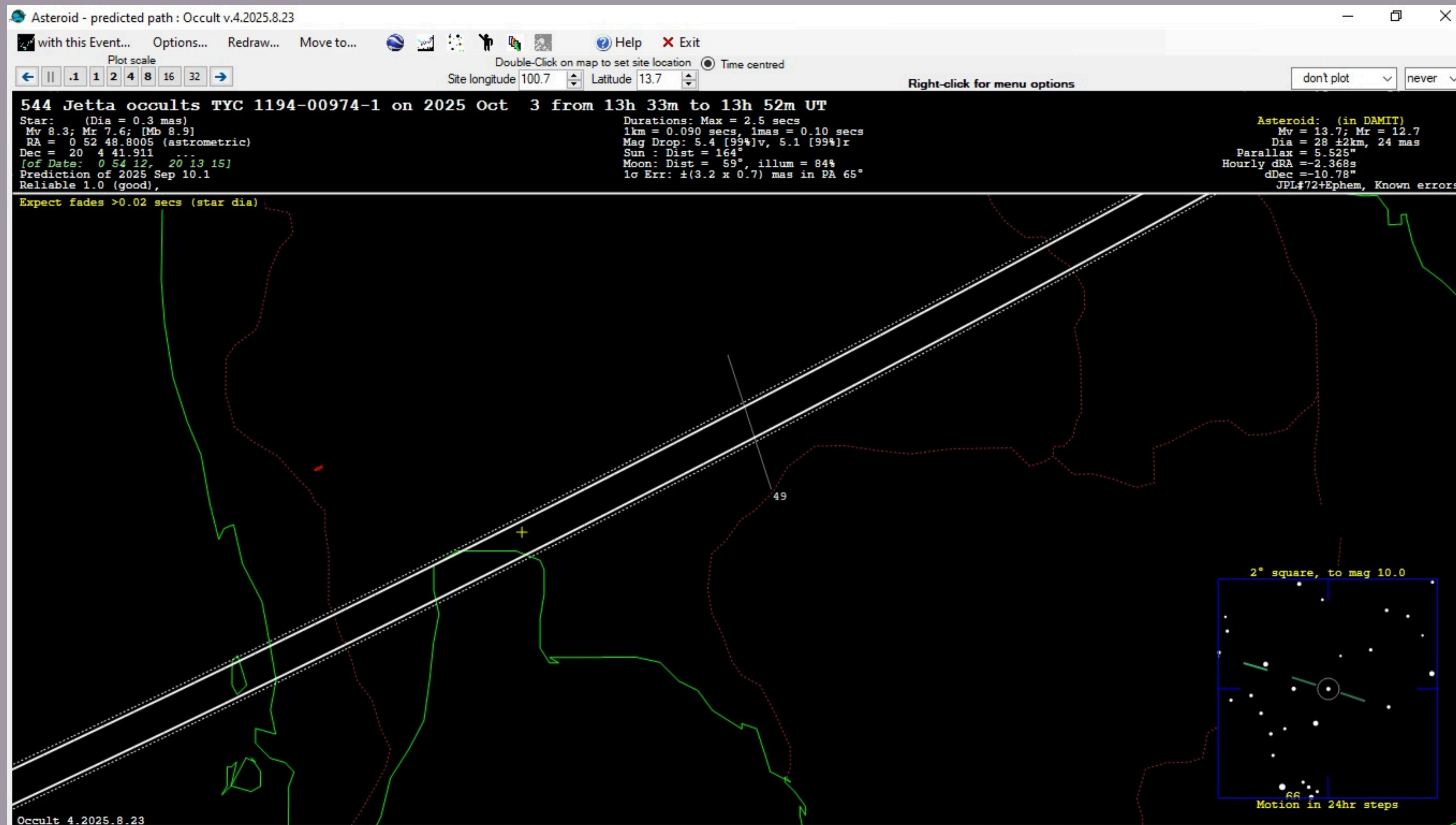
- Object speed
- Weather priority



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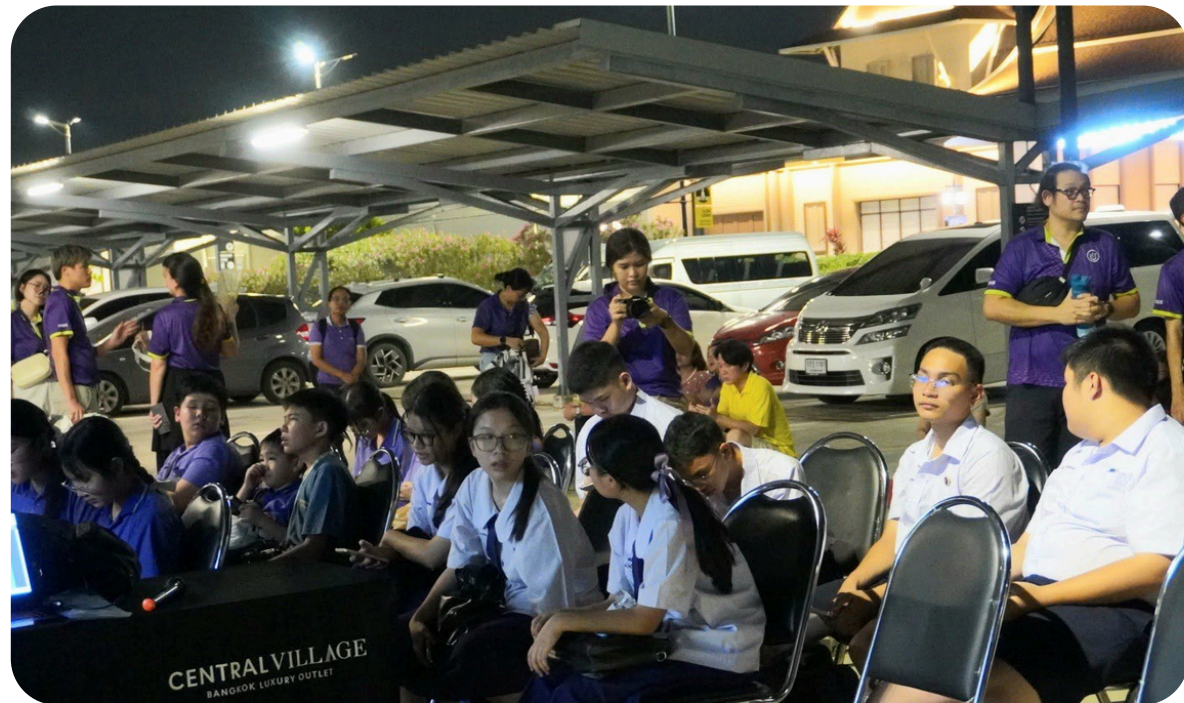


Calculating the prediction
(supported by the Thai Astronomical Society)



Actual calculation from the Occult 4 Application

Gallery



Putting our training to the test

Date : 18th November 2025

Place : Kasetsart University School (KUS)

- International Partnership: First major collaborative observation campaign alongside Miyazaki-Kita High School (MKHS).
- Student-Led Operations: Fully managed by student organizers to build hands-on leadership and logistical independence.
- Capacity Building: Fostered critical technical expertise, real-time teamwork, and project management skills.



Putting our training together

Date :

Place :

- Inter
- Miya
- Stud
- lead
- Capa
- man



ect

Our Broadcasting team

Putting our learning to the test

Date :

Place :

- Inter
- Miya
- Stud
- lead
- Capa
- man



Telescope Demonstration during the broadcast



Putting our training to the test

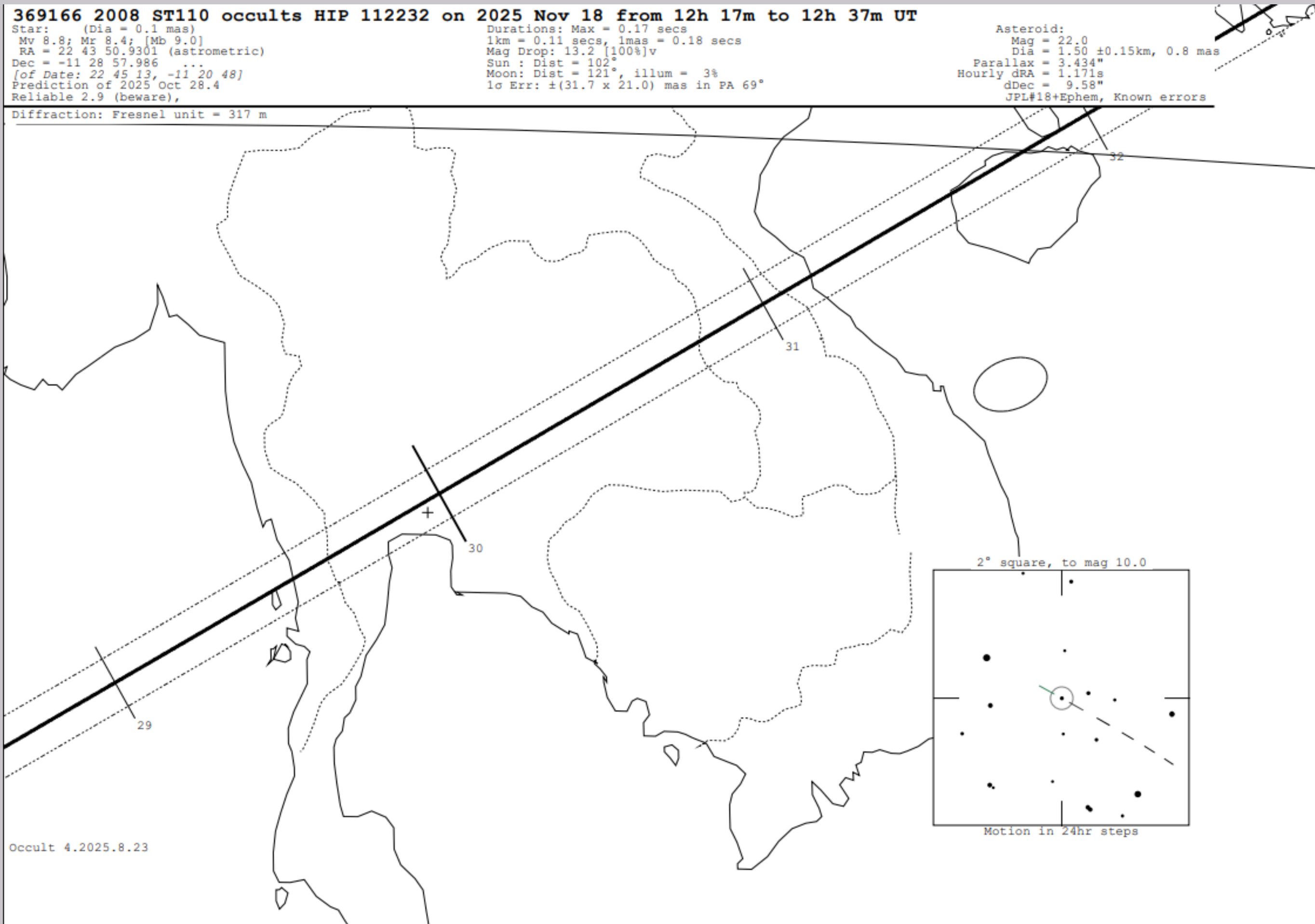
Date :

Place :

- Inter
- Miya
- Stud
- lead
- Capa
- man



Occultation Result Summary



Mission data from the Occult 4 Application

This event include...

- Unique Equipment: Featured specialized optical assets, including Thailand's largest mobile telescope, proudly supported by the Thai Astronomical Society.
- Professional Support: Advanced telescope calibration and live broadcasting engineered by the Thai Astronomical Society and school AV team.
- Student Operations: Entrusted with primary occultation tracking under expert, real-time professional supervision.
- Public Outreach: Independently managed interactive star chart workshops and cultural storytelling of Greek star tales.



This event include...

- Unique Equipment proudly supported
- Professional Staff Astronomical Society
- Student Operation under supervision.
- Public Outreach star tales.

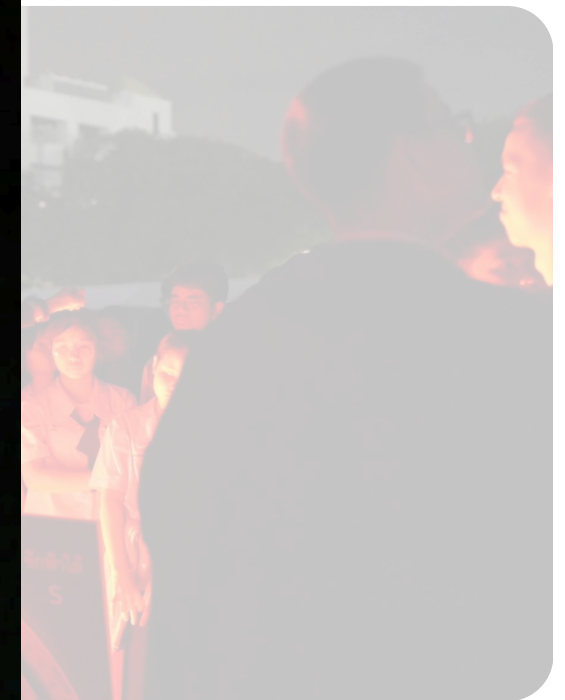


telescope,

the Thai

professional

telling of Greek



The largest mobile telescope in Thailand

This event include...

- Unique Equipment proudly supported
- Professional Staff Astronomical Society
- Student Operation supervision.
- Public Outreach star tales.

telescope,

the Thai

professional

telling of Greek



Setting up the observation telescope

This event include...

- Unique Equipment proudly supported
- Professional Staff Astronomical Society
- Student Operation under supervision.
- Public Outreach star tales.

telescope,

the Thai

professional

telling of Greek



Demonstration of star charts

Gallery



Maintaining the Momentum

Date : 9th March 2026

Place : Kasetsart University School (KUS)

- Campaign Identity: Named 'Astro Impact'—marking our second large-scale, school-wide astronomy campaign.
- Unified Program: Seamlessly integrated advanced scientific observation with community educational outreach.
- Interactive Learning: Led public workshops featuring interactive star charts and traditional Greek star tales.
- Main Focus: Culminated in the primary technical observation of the occultation phenomenon.



Maintaining the Momentum

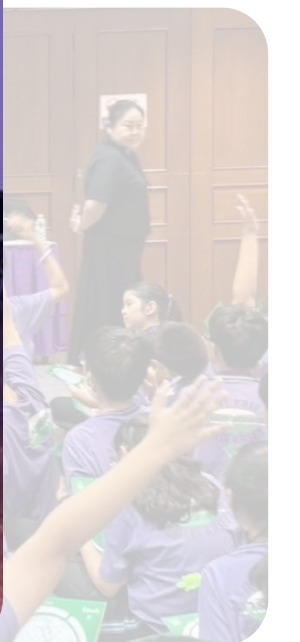
Date : 9/

Place : Ka

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The cast of the Greek star tale

Maintaining the Momentum

Date : 9th

Place : Kas

- Campaign
- astronomy
- Unified
- education
- Interac
- Greek
- Main F



Observation of the occultation

Maintaining the Momentum

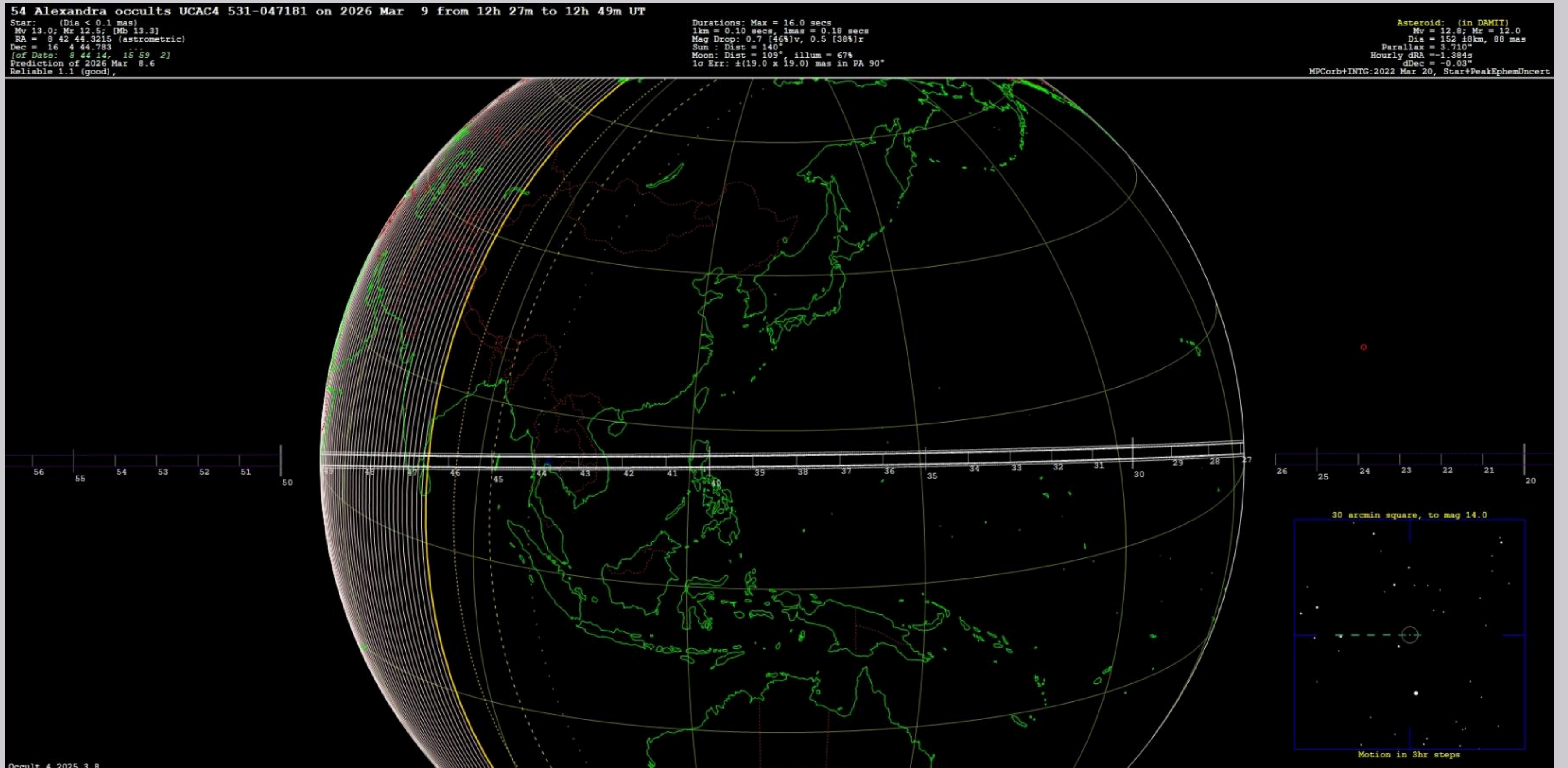
Date : 9/

Place : Ka

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Demonstration of star charts



Data from the Occult 4 Application

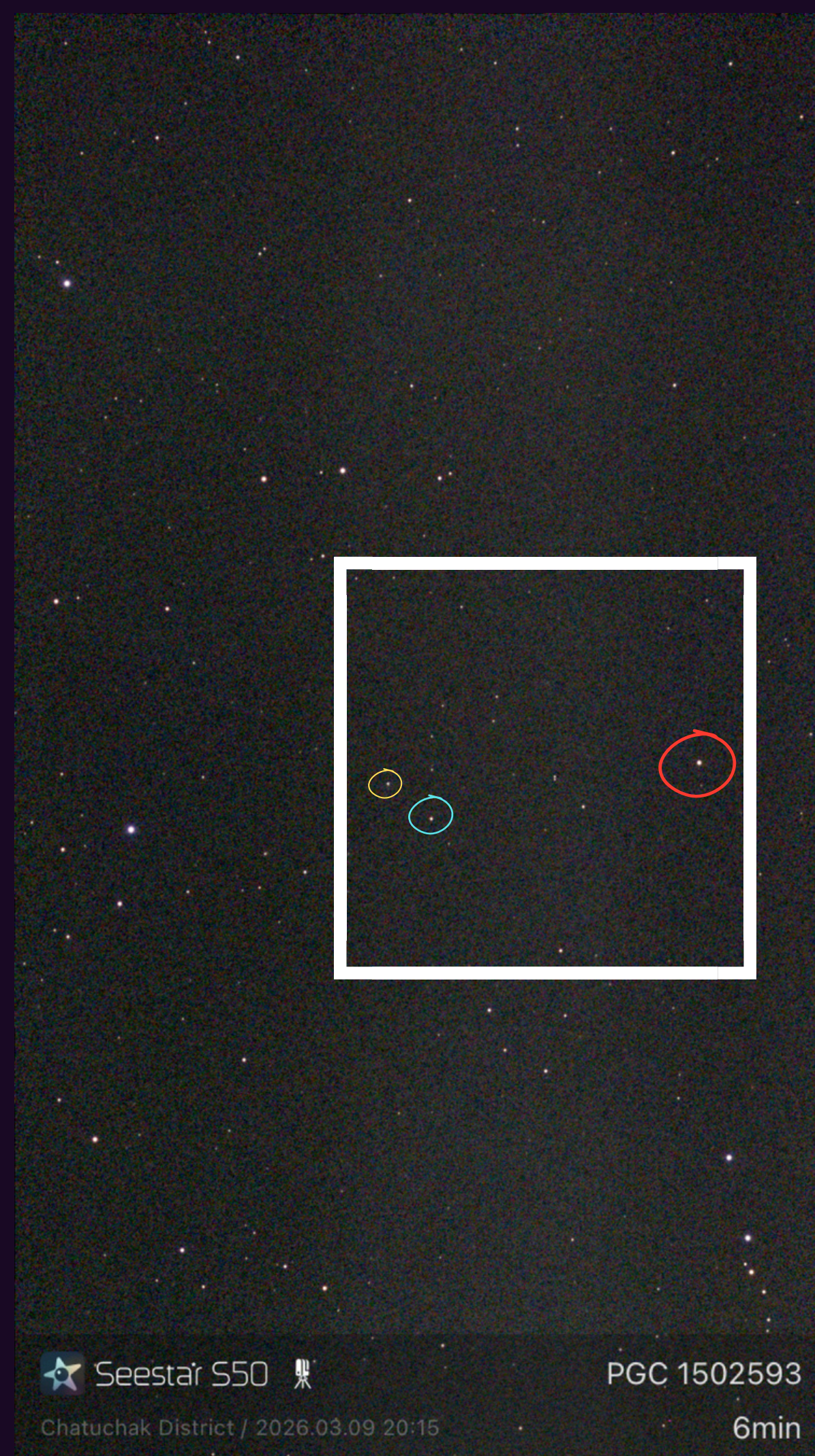


 Seestar S50 

PGC 1502593

Chatuchak District / 2026.03.09 20:15

6min



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Chatuchak District / 2026.03.09 20:15

PGC 1502593

6min



image cropped and rotate CW 90 degrees

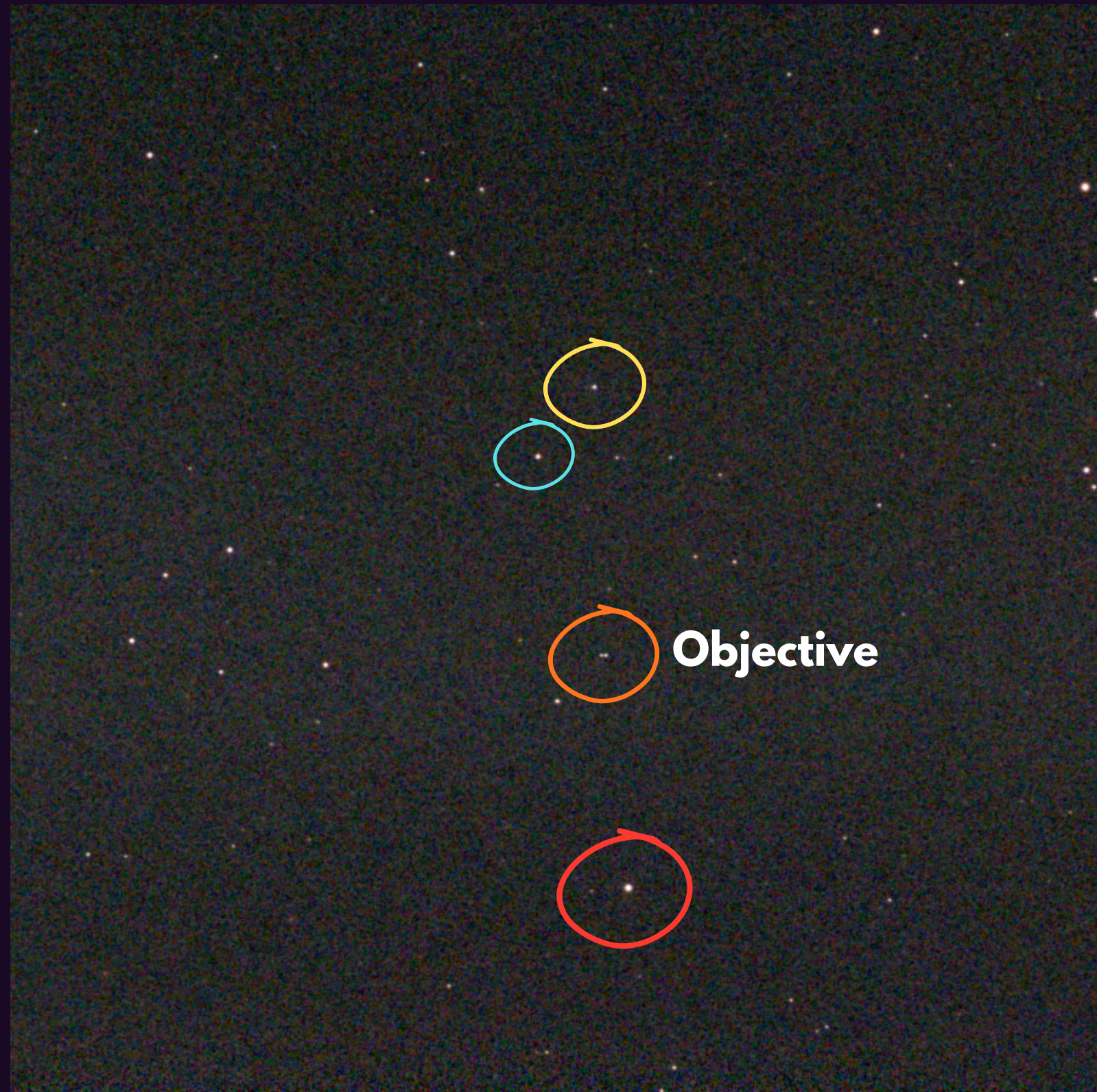


image cropped and rotate CW 90 degrees

Gallery



What we have learned...

- From Theory to Reality: Experienced occultations as high-stakes cosmic alignments while gaining vital operational autonomy.
- Technical Expertise: Developed hands-on skills in precision telescope alignment and real-time software tracking.
- Adaptive Management: Navigated unpredictable weather and cross-border partnerships to master risk mitigation and collaboration.
- Leadership Transformation: Organised total public outreach—from live webcasts to workshops—building proficiency in project logistics and science communication.



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LABORATORY SCHOOL



THANK YOU