

(137805)1999 YK5 occults Tycho2 4383-01128-1

***** Asteroid occultation Report *****

[Date] 2025. 1. 7 [Approx hour] 14.9
 [Star] Tycho2 4383-01128-1 VMag=10.21 RMag=9.87
 [Asteroid] (137805)1999 YK5 16.87 mag.

[Observer] 1: Katsuhiko Kitazaki 2:
 [Location] Sanosi Tochigi, JPN
 [Longitude] 139°34'16.6" E
 [Latitude] 36°17'46.8" N
 [Altitude] 24m
 [Datum] WGS84

[Predicted Time error] 0.383 sec [RUWE] 1.15

[Recorded] From 14h54m30s
 To 14h56m31s

[Mag. drop] D: Measured: ; Predicted:
 R: Measured: ; Predicted: It was a Miss.

[Telescope] Aperture: 28cm Type: SCT F=2.1
 [Camera] Analog or Digital video , Model= ASI290MM
 [Exposure] Set: 50.2msec, Measure: 50.2msec
 [Setting] Area: 1936x600 ; Binning=2
 Gain: 380 ; Brightness: 105 ; High Speed Mode: Off
 [Time keep] GPS ; Model: GHS-OSD (PPSPUcorrection -0.0072817s)
 [Evidence] GPS Time Log : Recorded ; Screen shot: Recorded

[Condition] Stability: Strong flickering Transparency: Clear
 [Remarks] It was observed near the center of the occultation zone, but was a Miss.

[Additional comment]

Capture : ZWO ASI290MM imaging data to PC using SharpCap4.1.12946.0
 Photometry analysis : Analyzed with software.limovie1.0.0.6Pneuma.
 Photometry method: Aperture photometry
 (Sarp4.1 ON,Tracking OFF、 Linked Tracking OFF,Correction for absorption OFF,Mag drop considered OFF)
 Data Release Site
<https://www.data-box.jp/pdir/c63d9865ea434f5f9f0293380489d700>

<Observations>

<Event>

<Date>2025|1|7|14.9</Date>

<Details>

<Star>Tycho2|4383-01128-

1|0||0.0000000000|0.0000000000|0.00|0.00|0.00|0|0.00000000|0.00000000|25.00|25.00|0</Star>

<Asteroid>137805|1999

YK5|0.00000000|0.00000000|0.00000000|0.00000000|0.00000000|0.00000000|1.00000|0.00000|0.0|1.0|20.00</Asteroid>

</Details>

<Observations>

<Observer>

<ID>1|Katsuhiko Kitazaki||0|Sano Tochigi|JPN|+139 34 16.6|+36 17 46.8|24| |28|3|a|a</ID>

<Conditions>3|1||It was observed near the center of the occultation zone, but was a Miss.</Conditions>

<D> . |D||| </D>

<R> . |R||| </R>

</Observer>

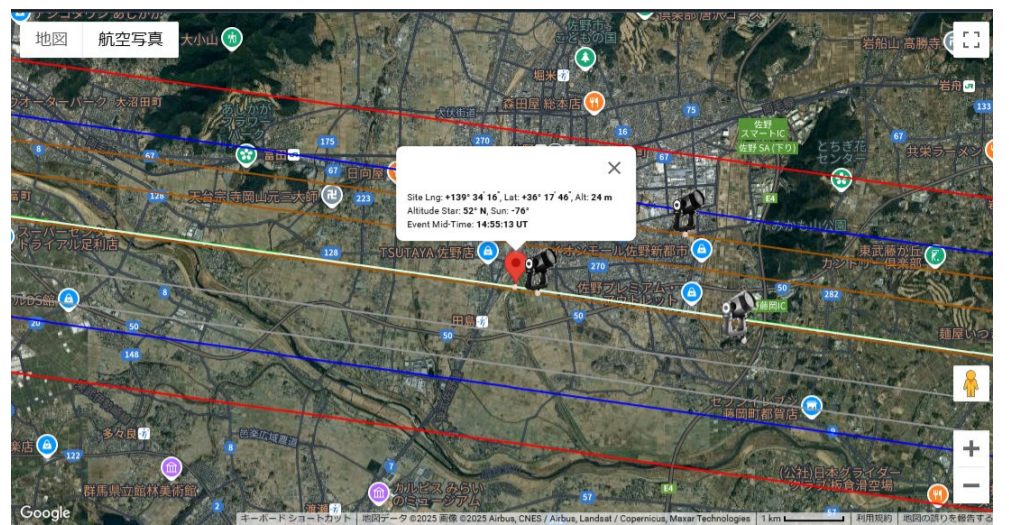
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<LastEdited>2023|7|17</LastEdited>

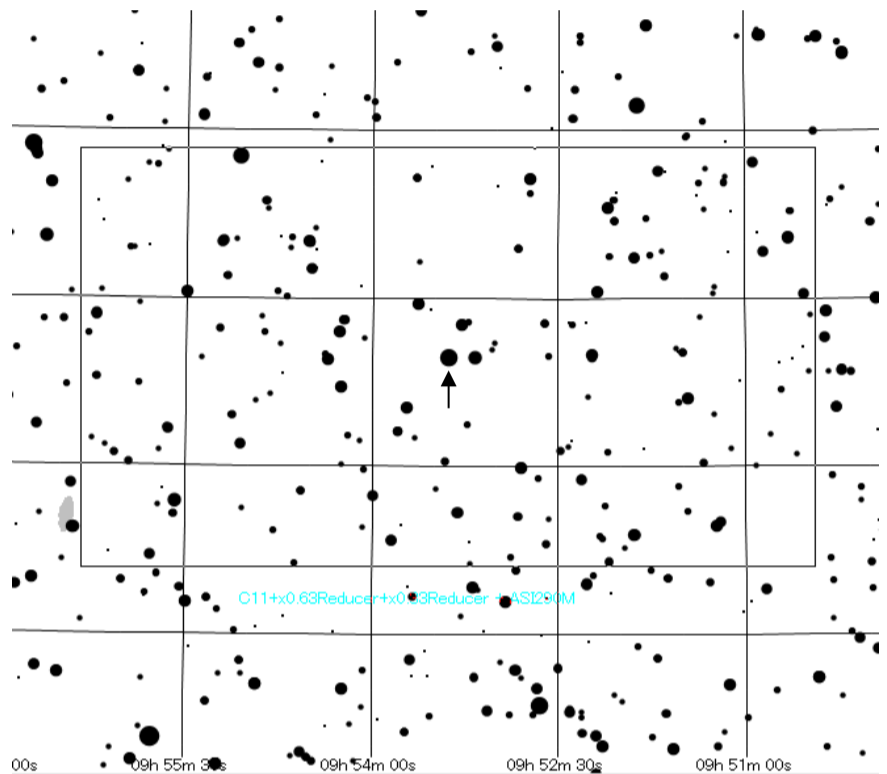
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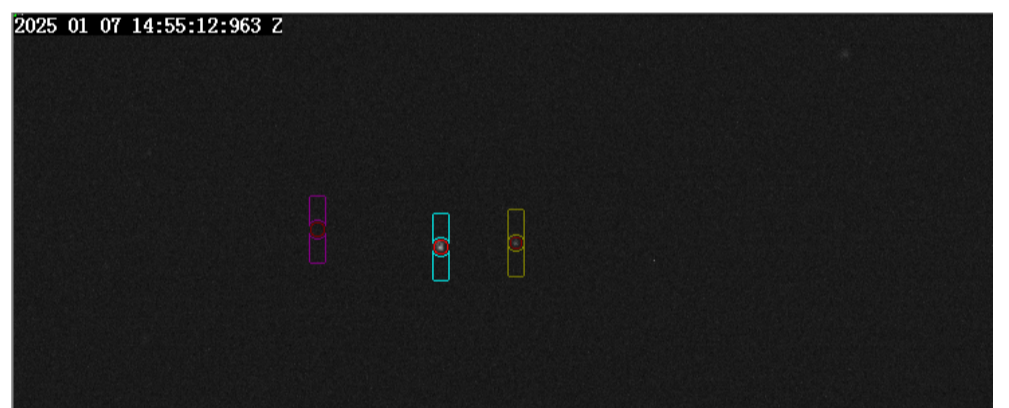
Occultation zone & Observation point



Target Star Chart



Target Star(blue) & Comparison star(yellow) ※Pink is Background



Light Curve

