

(448)Natalie occults UCAC4 464-048834

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

[Date] 2025. 1.15 [Approx hour] 20.4
 [Star] UCAC4 464-048834 VMag=13.60 RMag=13.13
 [Asteroid] (448)Natalie 16.46 mag.

[Observer] 1: Katsuhiko Kitazaki 2:
 [Location] Musashino Tokyo,
 [Longitude] 139o33'41.2" E
 [Latitude] 35o42'37.0" N
 [Altitude] 66m
 [Datum] WGS84

[Event time] D: 20h25m28.449s +/- 0.051s (UTC) S/N=4.35
 R: 20h25m33.895s +/- 0.033s (UTC) S/N=6.08
 [Predicted Time error] 0.390 sec [RUWE] 0.9

[Recorded] From 20h24m30s
 To 20h27m30s

[Mag. drop] D: Measured: Mag Drop (measured): 2.76 Mag.
 ; Predicted: Mag Drop (predicted): 2.9 Mag.
 R: Measured: Mag Drop (measured): 2.72 Mag.
 ; Predicted: Mag Drop (predicted): 2.9 Mag.

[Telescope] Aperture: 40cm Type: Classical Cassegrain
 F=2.5 (Reducer x0.25)
 [Camera] Analog or Digital video , Model= ASI290MM
 [Exposure] Set: 202.0msec, Measure: 202msec
 [Setting] Area: 1936x600 ; Binning=2
 Gain: 330 ; Brightness: 33 ; High Speed Mode: Off
 [Time keep] GPS ; Model: GHS-OSD (PPSPUcorrection -0.0166771s)
 [Evidence] GPS Time Log : Recorded ; Screen shot: Recorded

[Condition] Stability: Strong flickering Transparency: Thin cloud >2
 [Remarks] Observation conditions were not stable due to passing clouds.

[Additional comment]
 Capture : ZWO ASI290MM imaging data to PC using SharpCap4.1.12946.0
 Photometry analysis : Analyzed with software.limovie1.0.0.7Pneuma.
 Photometry method: PSF photometry / Aperture photometry
 (Sarp4.1 ON,Tracking OFF、 Linked Tracking ON,Correction for absorption ON)
 Data Release Site
<https://www.data-box.jp/pdir/2aac7ac10a9047789202c73d87d82dce>

<Observations>

<Event>

<Date>2025|1|15|20.4</Date>

<Details>

<Star>UCAC4|464-

048834|0||0.000000000|0.00000000|0.00|0.00|0.00|0|0.00000000|0.000000

<Asteroid>448|Natalie|0.00000000|0.00000000|0.00000000|0.00000000|0.00000000|0.00000000|1.000000|0.000000|0.0|1.0|20.00</Asteroid>

</Details>

<Observations>

<Observer>

<ID>1|Katsuhiko Kitazaki||0|Musashino Tokyo||+139 33 41.2|+35 42 37.0|66| |40|6|a|a</ID>

<Conditions>3|4|5.21||Observation conditions were not stable due to passing clouds.</Conditions>

<D>20 25 28.449|D|0.051||| </D>

<R>20 25 33.895|R|0.033||| </R>

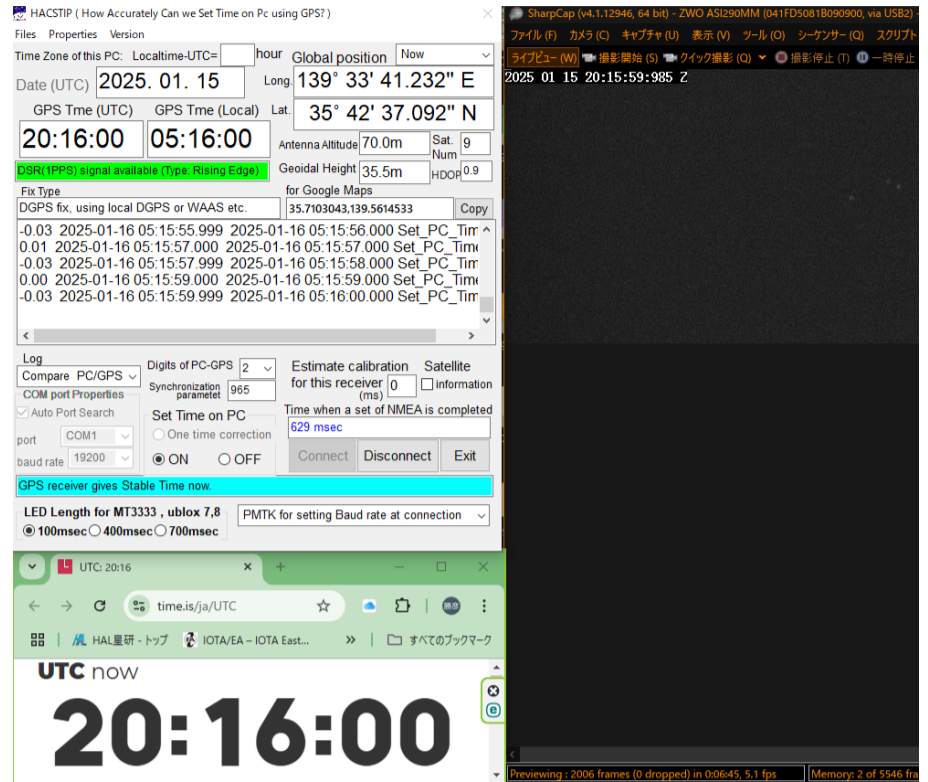
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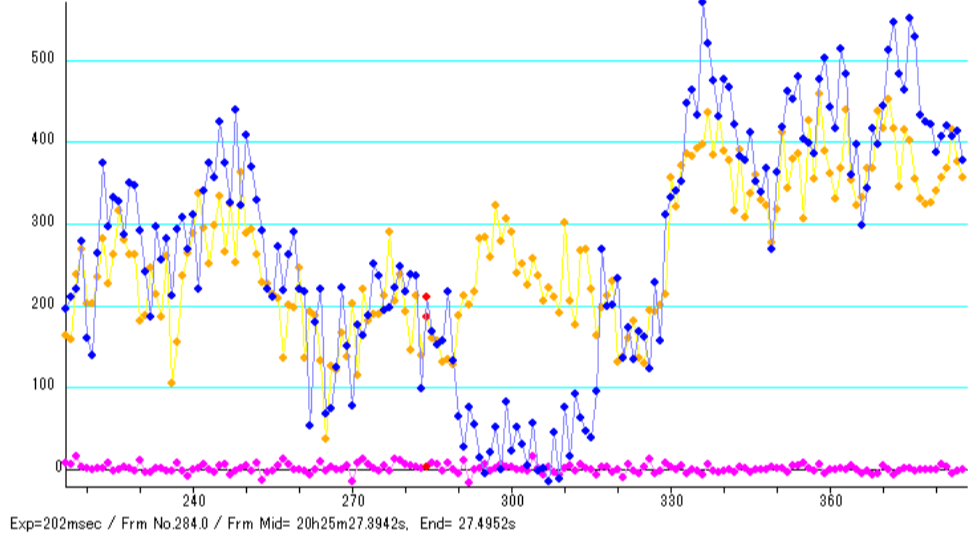
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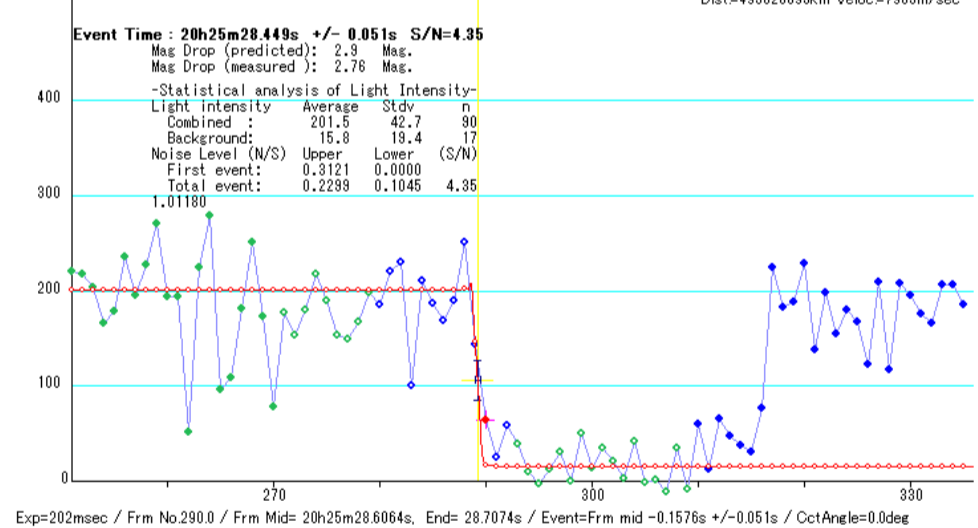
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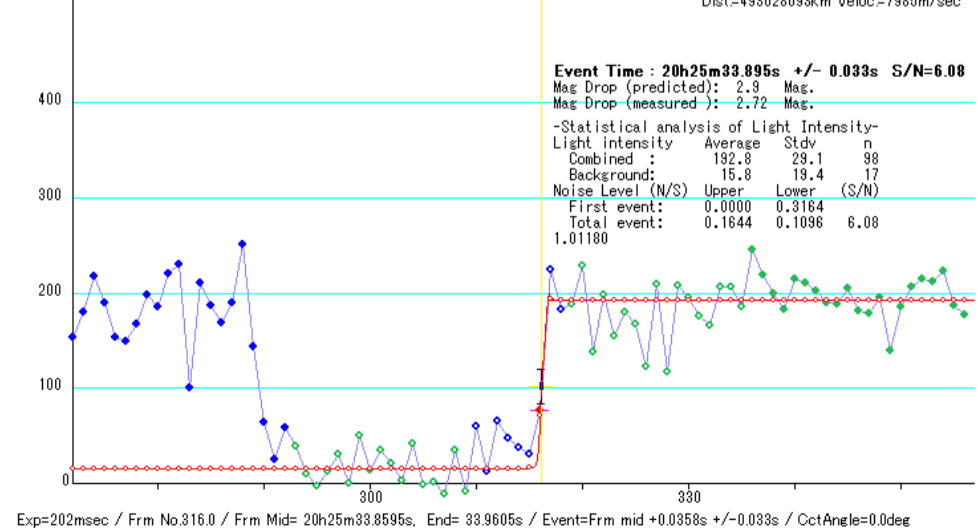
2025 Jan 15; (448) Natalie occults UCAC4 464-048834 Observed by Katsuhiko Kitazaki / PSF-Frame Photometry /



2025 Jan 15; (448) Natalie occults UCAC4 464-048834 Observed by Katsuhiko Kitazaki / PSF-Frame Photometry / Dist=493628093km Veloc=7985m/sec



2025 Jan 15; (448) Natalie occults UCAC4 464-048834 Observed by Katsuhiko Kitazaki / PSF-Frame Photometry / Dist=493628093km Veloc=7985m/sec



Exp=202msec / Frm No.316.0 / Frm Mid= 20h25m33.895s, End= 33.9605s / Event=Frm mid +0.035s +/-0.033s / CctAngle=0.0deg