

(48356)3118 T-1 occults UCAC4 406-055290

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

[Date ] 2025.4.16 [Approx hour] 13.6
[Star ] UCAC4 406-055290 VMag=13.19 RMag=12.53
[Asteroid ] (48356)3118 T-1 19.35 mag.

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

[Event time] D: 13h34m11.081s +/- 0.019s (UTC) S/N=8.64
R: 13h34m11.272s +/- 0.017s (UTC) S/N=9.84
[Predicted Time error] 0.456 sec [RUWE] 0.95

[Recorded ] From 13h33m33s
To 13h34m60s

[Mag. drop ] D: Measured: Mag Drop (measured): 9.82 Mag. ; Predicted:
Mag Drop (predicted): 6.2 Mag. [for fitting]
R: Measured: Mag Drop (measured): 9.92 Mag. ; Predicted:
Mag Drop (predicted): 6.2 Mag. [for fitting]

[Telescope ] Aperture: 40cm Type: Classical Cassegrain
F=2.5 (Reducer x0.25)
[Camera ] Analog or Digital video , Model= ASI290MM
[Exposure ] Set: 165.0msec, Measure: 165msec
[Setting ] Area: 1936x800 ; Binning=2
Gain: 380 ; Brightness: 0 ; High Speed Mode: Off
[Time keep ] GPS ; Model: GHS-OSD(PPSPUcorrection -0.0166347s)
[Evidence ] GPS Time Log : Recorded ; Screen shot: Recorded

[Condition ] Stability: Strong flickering Transparency: Fog
[Remarks ] The sky transparency was Fog, Target Star was dimmed, and the
frame exposure time had to be 165 ms.

[Additional comment]
Capture : ZWO ASI290MM imaging data to PC using SharpCap4.1.13193.0
Photometry analysis : Analyzed with software.limovie1.0.1.8 Pneuma
Photometry method : PSF photometry(Sharp4.1 ON,Tracking OFF, Linked
Tracking=OFF, Star's Angular Diameter=ON, Mag drop considered(for
fitting)=ON
Data Release Site
https://drive.google.com/drive/folders/1N3LCgBAdN0GLNyFRfpV7zsrzGz
F5L4?usp=sharing

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<Observations>
<Event>
<Date>2025|4|16|13.6</Date>
<Details>
<Star>UCAC4|406-
055290|0||0.000000000|0.00000000|0.00|0.00|0.00|0|0.00000000|0.0000
00|25.00|25.00|25.00|0</Star>
<Asteroid>48356|3118 T-
1|0.00000000|0.00000000|0.00000000|0.00000000|0.00000000|0.00000000|1.0000
0|0.00000|0.0|1.0|20.00</Asteroid>
</Details>
<Observations>
<Observer>
<ID>1|Katsuhiko Kitazaki||0|Musasino, Tokyo|JP|+139 33 41.2|+35
42 37.0|66| |40|6|a|a</ID>
<Conditions>3|2|9.24||The sky transparency was Fog, Target Star was
dimmed, and the frame exposure time had to be 165 ms.</Conditions>
<D>13 34 11.081|D|0.019||| </D>

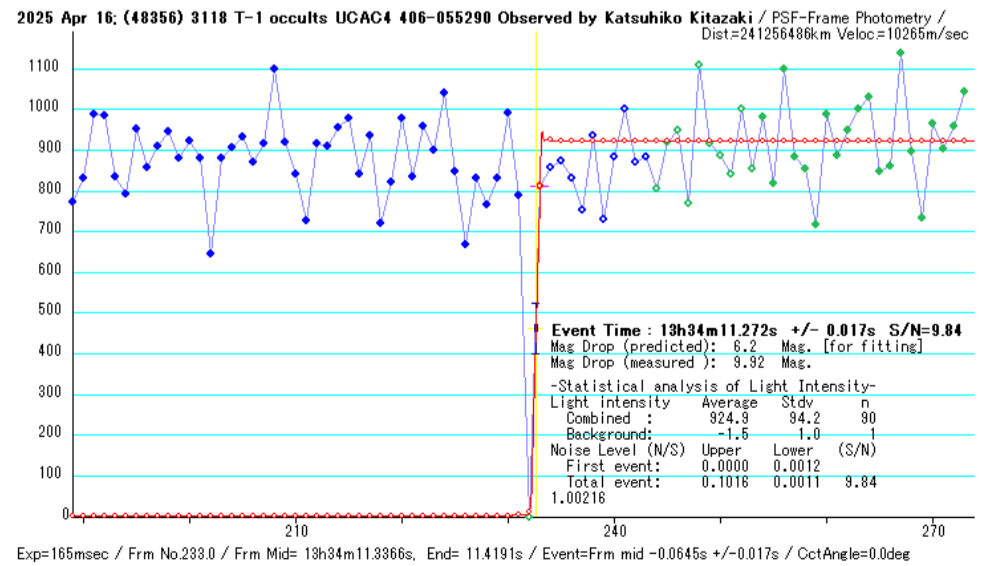
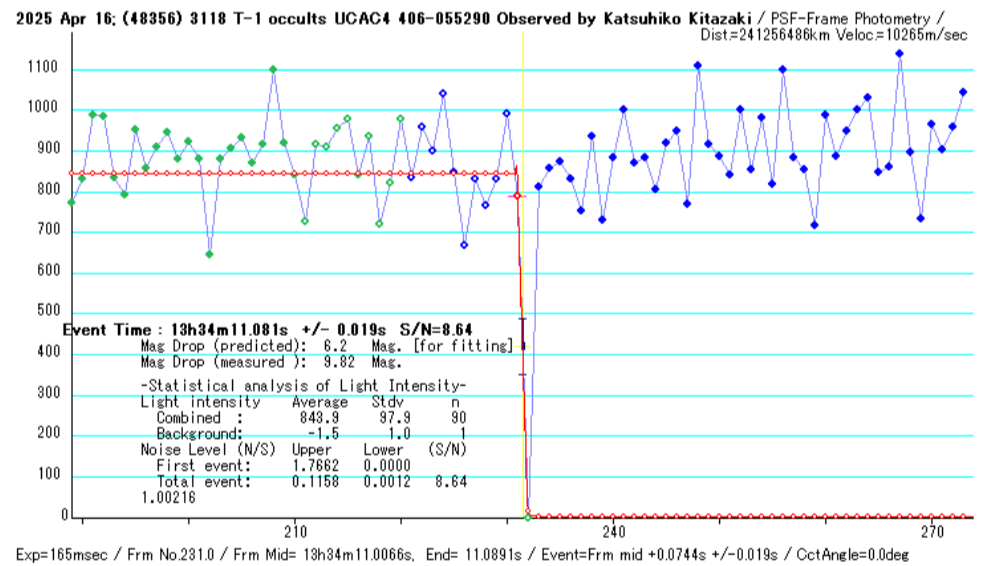
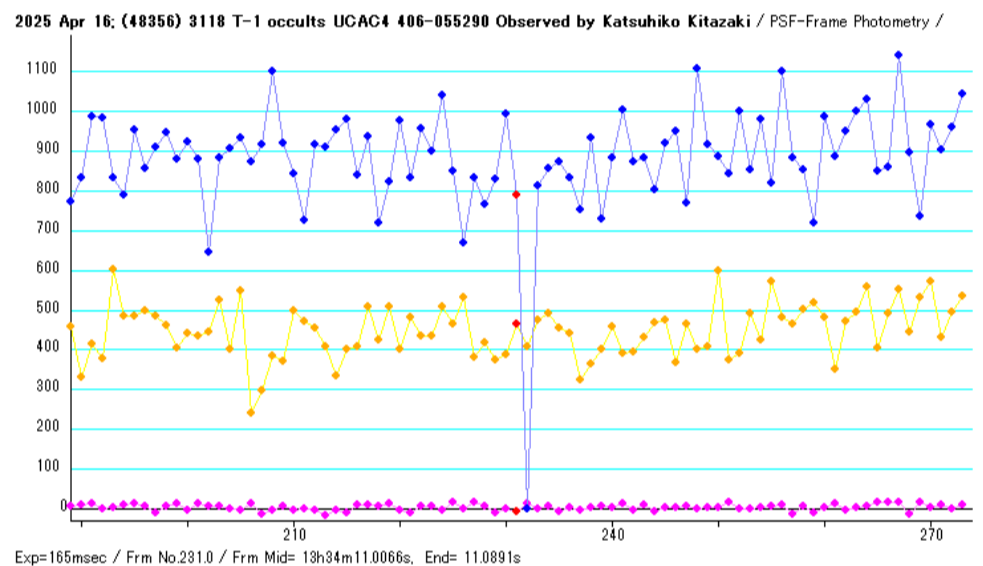
<R>13 34 11.272|R|0.017||| </R>
</Observer>
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<LastEdited>2023|7|17</LastEdited>
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Text-based Light curve
(48356)\_20250416\_133404\_Katsuhiko\_Kitazaki.dat

Date: 2025-4-16 13:34:4.08: 13.86: 85
Star: 0: 0: 0: 0: 0-0-0: 406-055290
Observer: +139:33:41.2: +35:42:37.0: 66: Katsuhiko Kitazaki
Object: Asteroid: 48356: 3118 T-1
Values:773:832:988:984:834:791:952:856:909:945:880:924:881:646:882:907:93
4:872:916:1100:919:842:727:917:910:954:979:840:936:719:823:977:834:958:90
0:1041:849:669:833:765:830:992:788:-2:811:858:873:833:754:
934:730:884:1002:872:884:804:918:949:769:1109:916:888:843:1001:853:981:8
19:1101:884:854:718:987:886:949:1000:1031:849:861:1139:898:734:967:904:9
60:1044

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HACSTIP (How Accurately Can we Set Time on Pc using GPS?)  
Files Properties Version  
Time Zone of this PC: Localtime-UTC= hour Global position Now  
Date (UTC) 2025. 04. 16 Long: 139° 33' 41.562" E  
GPS Time (UTC) 13:20:00 GPS Time (Local) 22:20:00 Lat: 35° 42' 37.044" N  
Antenna Altitude 77.6m Sat. 8  
Geoidal Height 35.5m Num  
HDC. 1.0  
DSN:1PPS:signal available (Type: Rising Edge)  
Fix Type for Google Maps  
DGPS fix, using local DGPS or WAAS etc. 35.7102895,139.5615433 Copy

Log  
Compare PC/GPS  
COM port Properties  
Auto Port Search  
port COM4  
baud rate 19200  
Digits of PC-GPS 2  
Synchronization parameter 995  
Estimate calibration for this receiver 0  
Satellite information  
Set Time on PC  
Time when a set of NMEA is completed  
599 msec  
One time correction  
ON OFF  
Connect Disconnect Exit  
GPS receiver gives Stable Time now  
LED Length for MT3333, ublox 7.8  
100msec 400msec 700msec  
PMTK for setting Baud rate at connection

UTC: 13:20  
time.is/UTC  
TIME.IS  
UTC now  
**13:20:00**  
iOptron  
Commander for...

SharpCap (v4.1.13193, 64 bit) - ZWO ASI290MM (041FD50818090900, via USB3) - C  
ファイル (F) カメラ (C) キャプチャ (U) 表示 (V) ツール (O) シーケンサー (Q) スクリプト (R)  
ライブビュー (W) 撮影開始 (S) クイック撮影 (Q) 撮影停止 (T) 一時停止 (P)  
04 16 13:20:00:169 Z  
Preview: 15315 frames (0 dropped) in 0:42:07.62 fra | Memory: 2 of 4159 fram