(134421)1998 QT2 occults Tycho2 3383-00674-1

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

[Date] 2026. 1.30 [Approx hour] 11.1
[Star] Tycho2 3383-00674-1 VMag=12.31 RMag=11.79
[Asteroid] (134421)1998 QT2 19.84 mag.

[Observer] 1: Katsuhiko Kitazaki 2:
[Location] Sakura, Ciba, JPN
[Longitude] 140o13'04.9" E
[Latitude] 35o43'53.0" N
[Altitude] 3.9m
[Datum] WGS84

[Event time] D: 11h 7m19.517s +/- 0.005s (UTC) S/N=6.39 Ctt=60.0
R: 11h 7m19.737s +/- 0.006s (UTC) S/N=6.06 Ctt=56.0
[Predicted Time error] 0.14 sec [RUWE] 4.40

[Recorded] From 11h07m00s
To 11h08m00s

[Mag. drop] D: Measured: 4.50 ; Predicted: 7.5
R: Measured: 4.46 ; Predicted: 7.5

[Telescope] Aperture: 28cm Type: SCT F=2.3（Reducer ×0.23）
[Camera] a Analog or Digital video , Model= ZWO ASI462MM
[Exposure] Set: 34.4msec, Measure: 34.4083msec
[Setting] Area: 1936x600 ; Binning=2
Gain: 430 ; Brightness: 230 ; High Speed Mode: Off
[Time keep] a GPS ; Model: GT502MGG-N
[Evidence] GPS Time Log : Recorded ; Screen shot: Recorded

[Condition] Stability: 3 Strong flickering Transparency: 3 Thin cloud <2
[Remarks] The CBET Moons prediction was an observation to capture the satellite occultation. The light curve showed no disappearance caused by the satellite.

[Additional comment]
Capture ： ZWO ASI 462MM imaging data to PC using SharpCap4.1.14013.0
Photometry analysis : Analyzed with software.limovie2004B
Photometry method：PSF photometry
(Tracking ON, Linked Tracking=ON)
Data Release Site
https://drive.google.com/drive/folders/13Cva6XRP7B4L-RkiJcto5YU6pVZRU5XU?usp=sharing

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<AsteroidOccultations>
<Event>
<Date>2026|1|30|11.1</Date>
<Details>
<Star>Tycho2|3383-00674-1|0||0.0000000000|0.000000000|0.00|0.00|0.00|0|0.00000000|0.0000000|25.00|25.00|25.00|0</Star>
<Asteroid>134421|1998 QT2|0.00000000|0.00000000|0.0000000|0.0000000|0.0000000|0.0000000|1.00000|0.00000|0.0|1.0|20.00</Asteroid>
</Details>
<Observations>
<Observer>
<ID>1|Katsuhiko Kitazaki||0|Sakura, Ciba|JPN|+140 13 04.9|+35 43 53.0|3.9| |40|3|a|a</ID>
<Conditions>3|3|||The CBET Moons prediction was an observation to capture the satellite occultation. The light curve showed no disappearance caused by the satellite.</Conditions>
<D>11 7 19.517|D|0.005||| </D>
<R>11 7 19.737|D|0.006||| </R>
</Observer>
</Observations>
<LastEdited>2026|1|31</LastEdited>
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</AsteroidOccultations>

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Text-based Light curve
(134421)_0000002026 Jan 30_110718_Katsuhiko_Kitazaki.dat

Date: 2026 Jan 30 11:7:18.47: 2.34: 69
Star: 0: 0: 0: 0: 3383-00674-1: 0-0
Observer: +140:13:4.9: +35:43:53.0: 3.9: Katsuhiko Kitazaki
Object: Asteroid: 134421: 1998 QT2
Values:44055:47651:29639:39851:38854:31842:40663:45802:26862:37175:36823:50798:39557:39413:34841:29429:39491:34906:41339:32749:41489:47818:38450:46386:45254:45717:29595:42124:47917:25834:16410:1254:6189:808:-3547:832:-1723:12654:26423:53344:45886:35854:41858:41181:37116:47946:34175:44136:42572:44834:36108:31146:34185:37808:33215:47498:29531:32351:31139:45414:45506:36975:41659:27519:42785:33272:43815:35467:29730

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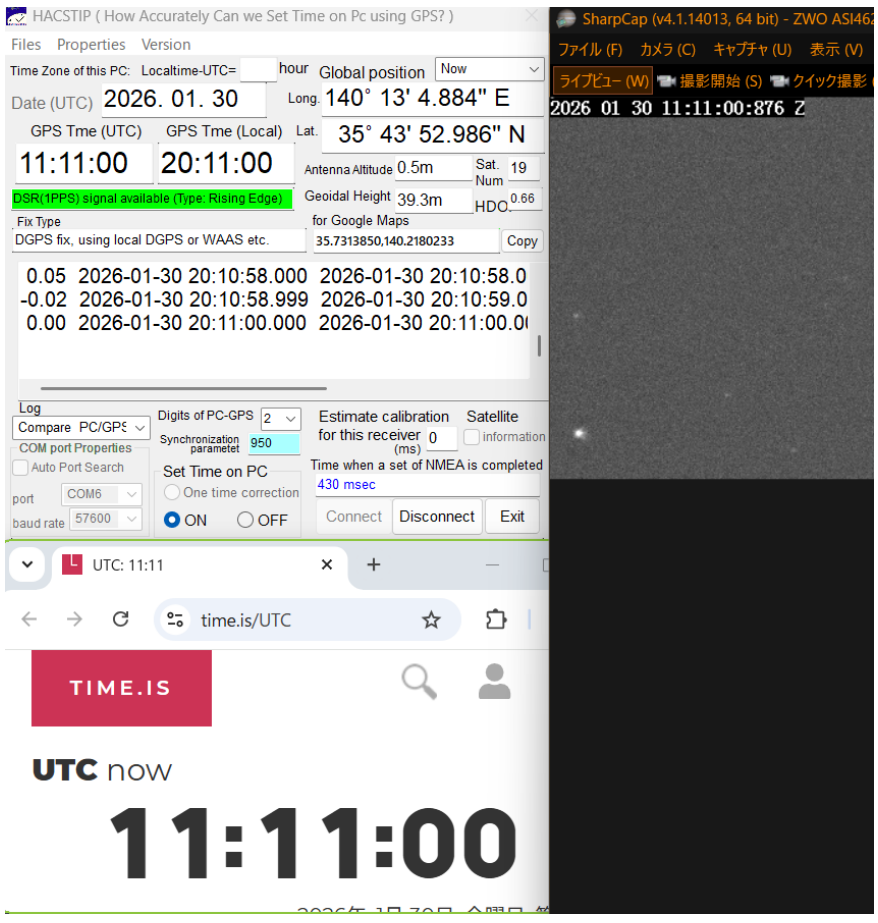
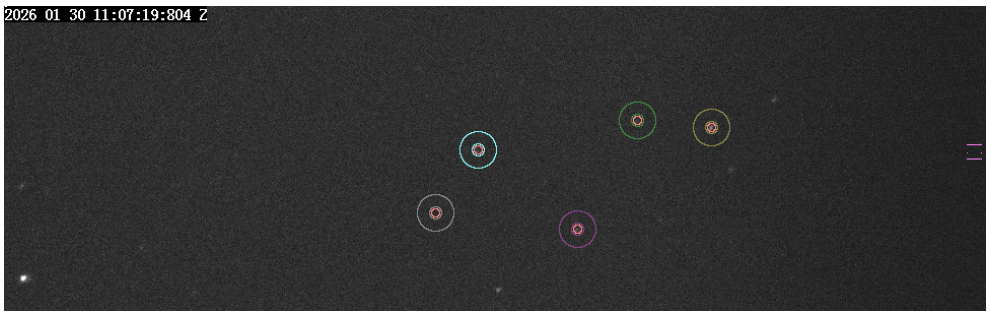
Observation Point

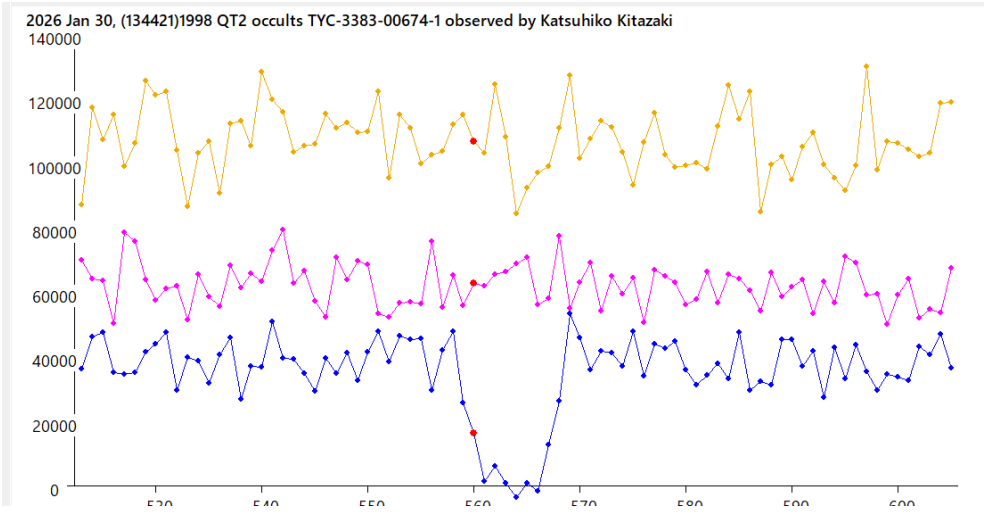
UTC Time Evidence



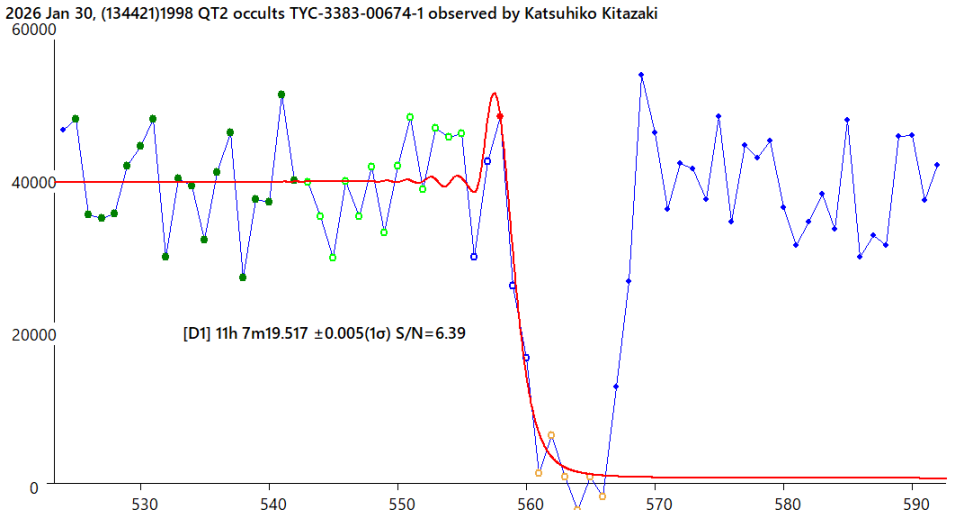
Target Star Position（Target star = Blue, Tracking Star = Yellow, Comparison star = Green, Dim star = Pink Other = Background metering）



Light curve （Target star = Blue line, Tracking Star = Yellow line
Comparison star = Pink Line）



Time analysis of disappearance



Time analysis of reappearance