

(65803)Didymos occults Tycho2 1854-00899-1

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

[Date] 2025. 3.11 [Approx hour] 12.5
[Star] Tycho2 1854-00899-1 VMag=10.22 RMag=9.25
[Asteroid] (65803)Didymos 20.64 mag.

[Observer] 1: Katsuhiko Kitazaki 2:
[Location] Iwanuma.Miyagi, JPN
[Longitude] 140o55'22.0" E
[Latitude] 38o6'28.8" N
[Altitude] 0m
[Datum] WGS84

[Event time] D: 12h35m51.994s +/- 0.005s (UTC) S/N=4.33
R: 12h35m52.015s +/- 0.006s (UTC) S/N=3.36
[Predicted Time error] 0.018 sec [RUWE] 0.95

[Recorded] From 12h35m2s
To 12h36m51s

[Mag. drop] D: Measured: Mag Drop (measured): 1.05 Mag. ; Predicted:
Mag Drop (predicted): 10.4 Mag. [for fitting]
R: Measured: Mag Drop (measured): 1.00 Mag. ; Predicted:
Mag Drop (predicted): 10.4 Mag. [for fitting]

[Telescope] Aperture: 28cm Type: SCT F=2.1 (Reducer x0.21)
[Camera] Analog or Digital video , Model= ASI290MM
[Exposure] Set: 13.0msec, Measure: 13.0msec
[Setting] Area: 1936x600 ; Binning=2
Gain: 440 ; Brightness: 153 ; High Speed Mode: Off
[Time keep] GPS ; Model: GHS-OSD
[Evidence] GPS Time Log : Recorded ; Screen shot: Recorded

[Condition] Stability: Strong flickering Transparency: Thin cloud <2
[Remarks] The mag drop for prediction was 10.4 mag, but we confirmed a
small mag drop of about 1.0 mag. I think the diffraction has a large influence.

[Additional comment]

Capture : ZWO ASI290MM imaging data to PC using SharpCap4.1.13131.0
Photometry analysis : Analyzed with software.limovie1.0.0.7C Pneuma.
Photometry method : PSF photometry
(Sharp4.1 ON,Tracking OFF, Linked Tracking=OFF, Star's Angular
Diameter=ON Mag drop considered=ON)
Data Release Site
https://drive.google.com/drive/folders/1BwXbvyFE4fV6c_EOigyVhpYH48EG
CWxU?usp=sharing

<Observations>

<Event>

<Date>2025|3|11|12.5</Date>

<Details>

<Star>Tycho2|1854-00899-

1|0||0.0000000000|0.0000000000|0.00|0.00|0.00|0|0.00000000|0.00000000|25.
00|25.00|25.00|0</Star>

<Asteroid>65803|Didymos|0.00000000|0.00000000|0.00000000|0.00000000|0.0
0000000|0.00000000|1.000000|0.000000|0.0|1.0|20.00</Asteroid>

</Details>

<Observations>

<Observer>

<ID>1|Katsuhiko Kitazaki||0|Iwanuma.Miyagi|JPN|+140 55
22.0|+38 6 28.8|0 |28|3|a|a</ID>

<Conditions>3|3|3.84||The mag drop for prediction was 10.4 mag, but
we confirmed a small mag drop of about 1.0 mag. I think the diffraction has a
large influence.</Conditions>

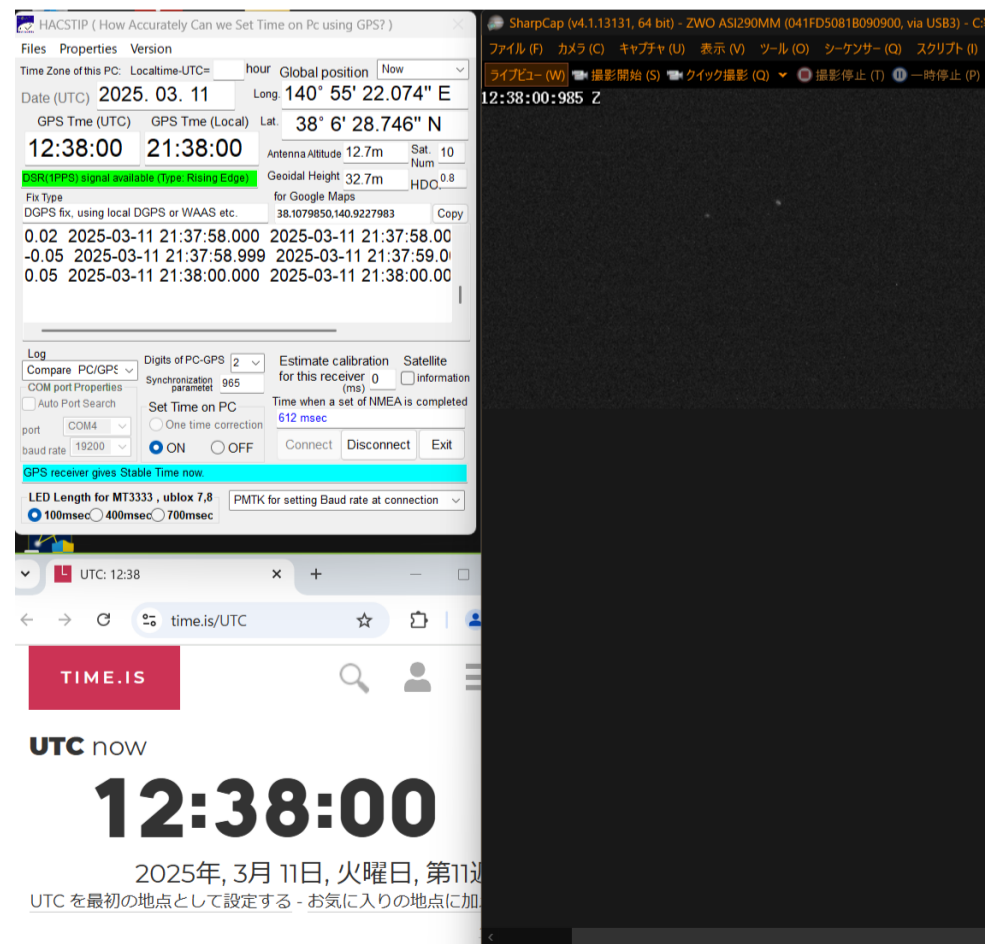
<D>12 35 51.994|D|0.005||| </D>

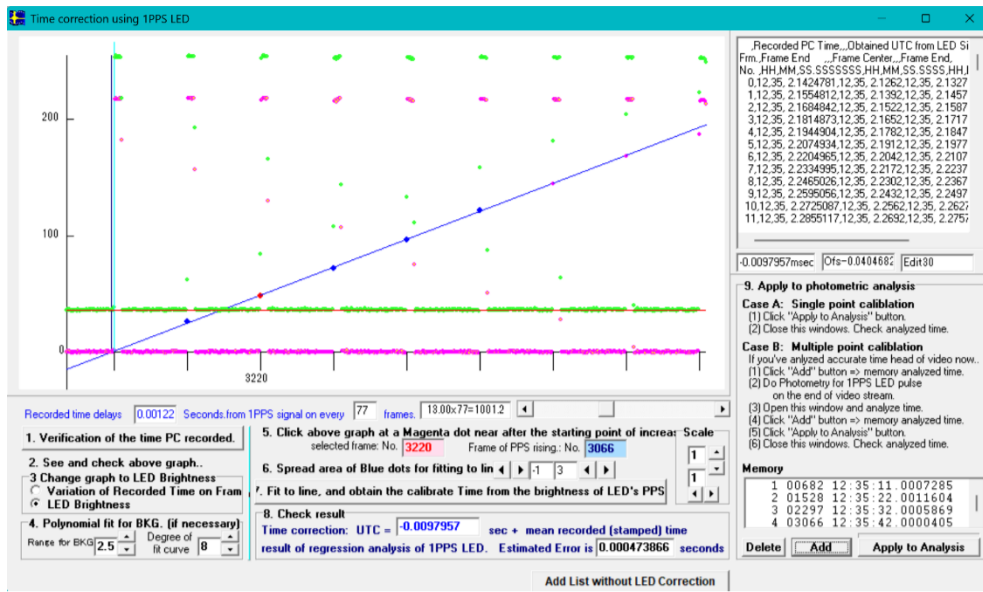
<R>12 35 52.015|R|0.006||| </R>
</Observer>
</Observations>
<LastEdited>2023|7|17</LastEdited>
</Event>
</Observations>

Text-based Light curve

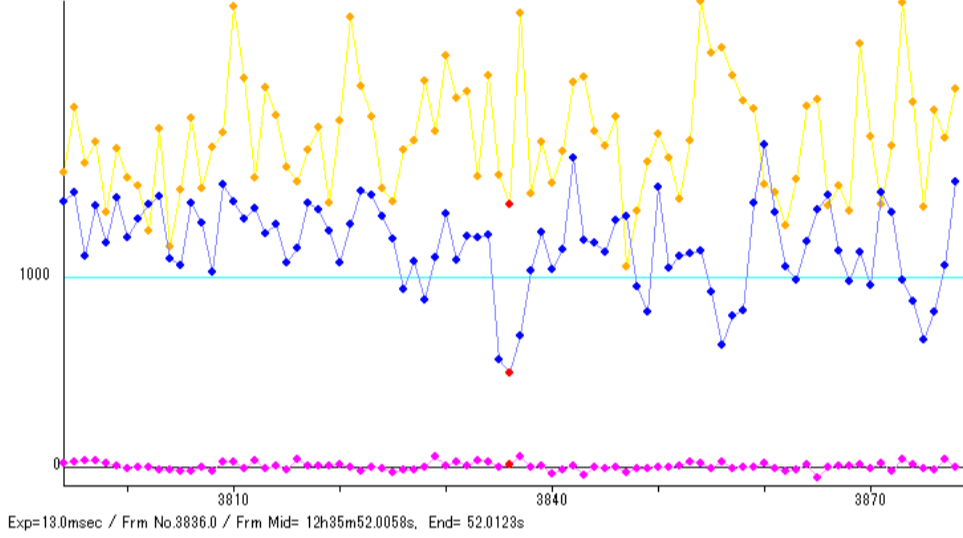
(65803)_20250311_123551_Katsuhiko_Kitazaki.dat

Date: 2025-3-11 12:35:51.62: 1.09: 85
Star: 0: 0: 0: 0: 1854-00899-1: 0-0
Observer: +140:55:22.0: +38:6:28.8: 0: Katsuhiko Kitazaki
Object: Asteroid: 65803: Didymos
Values:1389:1285:1029:1492:1398:1308:1362:1230:1277:1077:1152:1391:1355
:1242:1079:1279:1452:1432:1324:1201:934:1087:878:1104:1335:1093:1216:12
13:1223:564:492:690:1033:1238:1042:1146:1634:1198:1179:1133:1298:1319:9
51:818:1480:1048:1111:1125:1143:
924:641:796:821:1394:1700:1341:1058:987:1187:1360:1438:1143:977:1132:95
7:1450:1340:985:871:669:814:1066:1505:1514:1244:1243:1411:1324:1111:100
6:971:1273:1103:854:1018

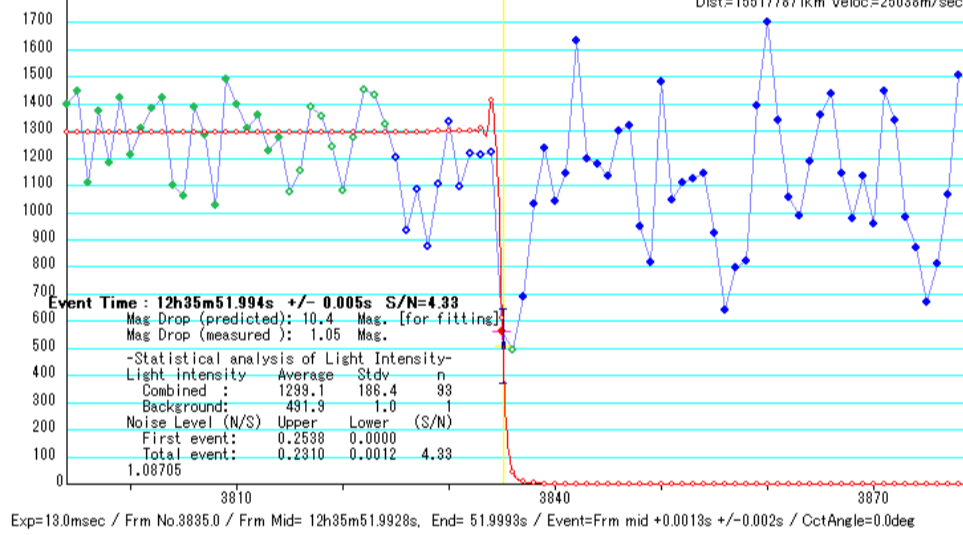




2025 Mar 11: (65803) Didymos occults TYC 1854-00899-1 Observed by Katsuhiko Kitazaki / PSF-Frame Photometry /



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 Dist=155177871km Veloc=25038m/sec



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