

(65803) Didymos occults TYC 1854-00899-1 on 2025 Mar 11 from 12h29m to 12h37m UT

Katsumasa Hosoi / Miharu, Fukushima

***** 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: Katsumasa Hosoi 2:
 [Location] Iwanuma, Miyagi, JPN
 [Longitude] 140o55'19.7" E
 [Latitude] 38o6'25.8" N
 [Altitude] 0m
 [Datum] WGS84

[Predicted Time error] 0.018 sec [RUWE] 0.95

[Recorded] From 12h33m41s
 To 12h38m1s

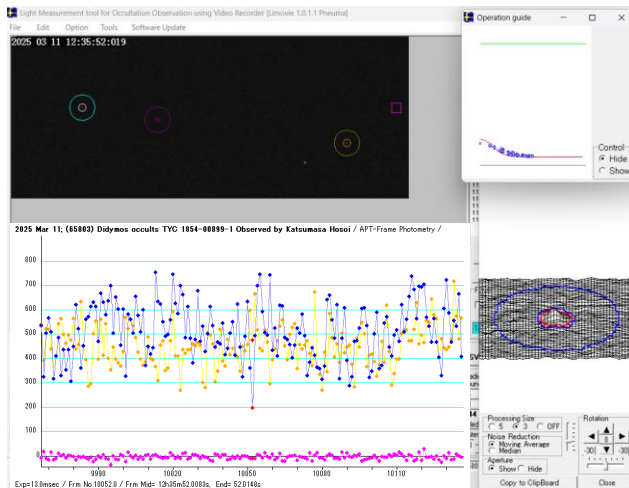
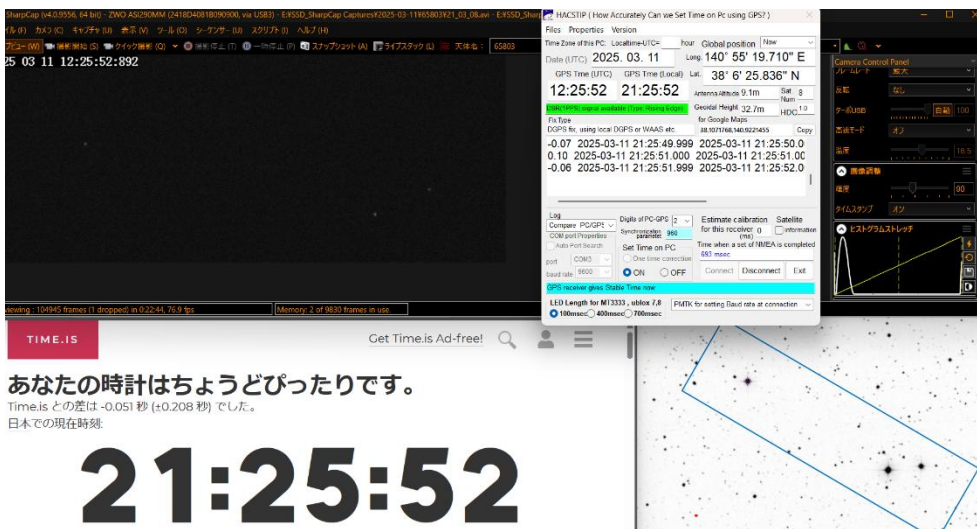
[Mag. drop] D: Measured: Mag Drop (measured): 1.10 Mag. ;
 Predicted: Mag Drop (predicted): 10.4 Mag. [for fitting]
 R: Measured: Mag Drop (measured): 0.95 Mag. ;
 Predicted: Mag Drop (predicted): 10.4 Mag. [for fitting]

[Telescope] Aperture: 25cm Type: Newtonian F=4.0
 [Camera] Analog or Digital video , Model= ASI290MM
 [Exposure] Set: 13.0msec, Measure: 13.0msec
 [Setting] Area: 1280x512 ; Binning=2
 Gain: 400 ; Brightness: 90 ; High Speed Mode: Off
 [Time keep] GPS ; Model: GHS-OSD
 [Evidence] GPS Time Log : Recorded ; Screen shot: Recorded

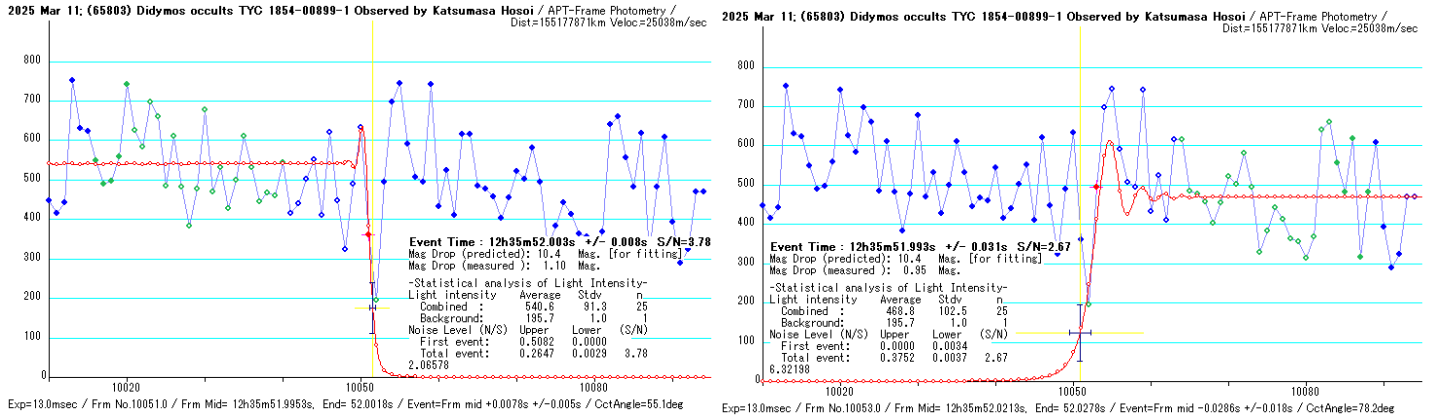
[Condition] Stability: Steady Transparency: Clear
 [Remarks]

[Additional comment]

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0|0.00000000|0.0000000|25.00|25.00|25.00|0</Star>
<Asteroid>65803|Didymos|0.00000000|0.00000000|0.00000000|0.0000000|
0.0000000|0.0000000|1.00000|0.00000|0.0|1.0|20.00</Asteroid>
</Details>
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<ID>1|Katsumasa Hosoi|0|Iwanuma, Miyagi|JPN|
+140 55 19.7|+38 6 25.8|0| |25|2|ala</ID>
<Conditions>1|1| | |</Conditions>
<D>12 35 52.0|M| | | |</D>
<R>12 35 52.0|M| | | |</R>
</Observer>
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<LastEdited>2023|7|17</LastEdited>
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予報時刻 (35m52s) に 1 フレームであるが、光量がゼロまで落ちていない減光あり
 小型の小惑星の端の接触も想定し、for Grazing 及び、Mag drop にチェックを入れて解析



潜入時刻 : 12h35m52.003s
 出現時間 : 12h35m51.993s

「出現時刻の方が、潜入時刻より前」との結果が得られ、掩蔽されていないと判断
 シンチレーション内での光量変化であったとも受け止められる

- 以上 -