

# Asteroid Occultation Report

Observation was: Positive    Takeshi Nemoto    Email: nemoto00@juno.ocn.ne.jp

[Date ] 2025. 8. 3 [Approx hour] 17.5  
 [Star ] Tycho2 1271-00679-1 VMag=8.30  
 RMag=7.92  
 [Asteroid ] (533)Sara 15.89 mag.  
 Dia=31.7±1.8km Main-belt Asteroid

[Observer ] 1: Takeshi Nemoto 2:  
 [Location ] Tama, Tokyo, JP  
 [Longitude ] 139o27'35.2" E  
 [Latitude ] 35o38'58.5" N  
 [Altitude ] 49m  
 [Datum ] WGS84

[Event time] D: 17h26m09.835s +/- 0.007s (UTC)  
 S/N=4.00

R: 17h26m11.001s +/- 0.006s (UTC)  
 S/N=4.54  
 [Predicted Time error] 0.190 sec [RUWE] 0.85

[Recorded ] From 17h25m40s  
 To 17h28m41s

[Mag. drop ] D: Measured: Mag Drop (measured) :  
 9.00 Mag. ; Predicted: Mag Drop (predicted): 7.6  
 Mag.

R: Measured: Mag Drop (measured) : 10.40  
 Mag. ; Predicted: Mag Drop (predicted): 7.6 Mag.

[Telescope ] Aperture: 25cm Type: Newtonian F=2.5  
 [Camera ] Analog or Digital video , Model=  
 ASI290MM

[Exposure ] Set: 20.8msec, Measure: 20.8msec  
 [Setting ] Area: 1448x274 ; Binning=2  
 Gain: 360 ; Brightness: 75 ; High Speed  
 Mode: Off

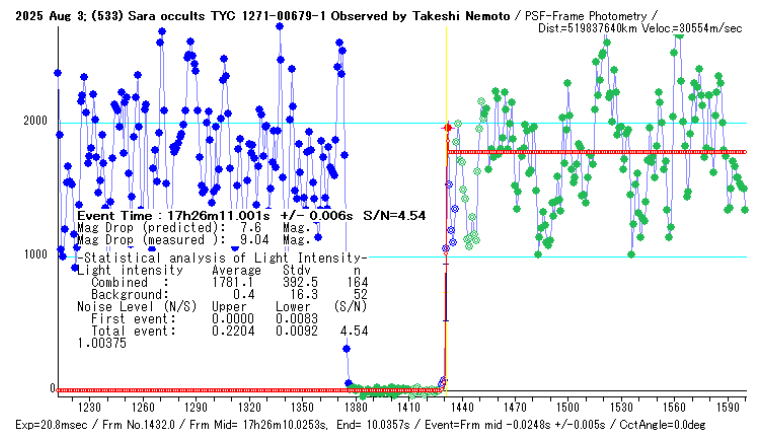
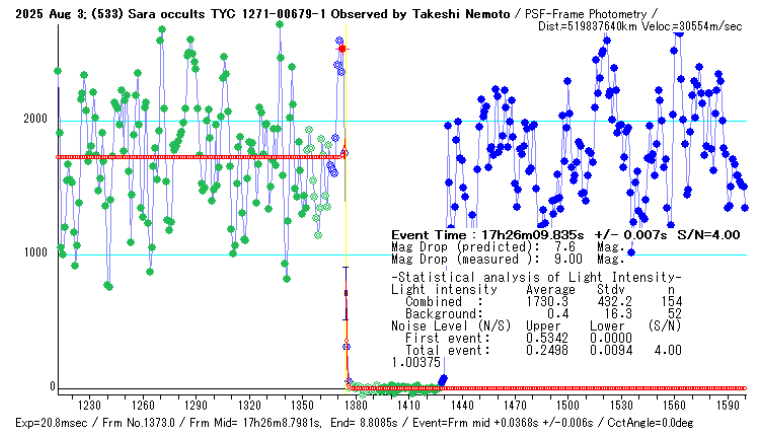
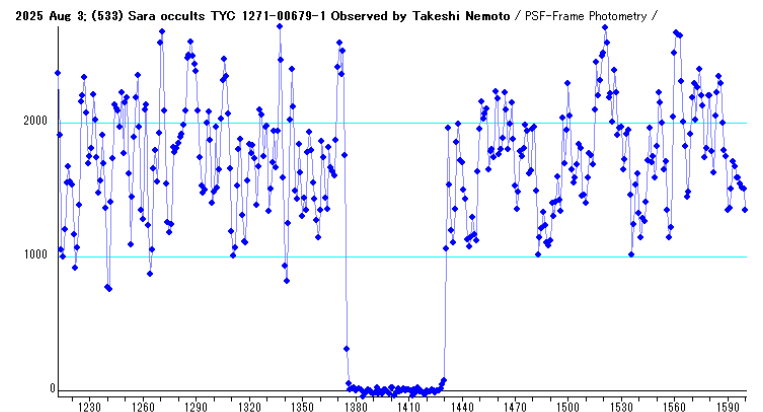
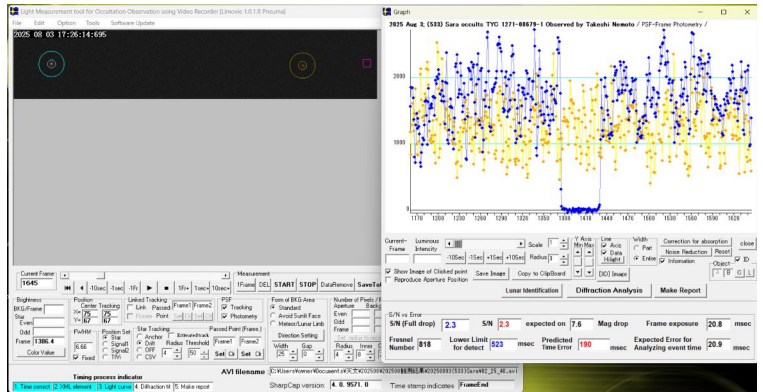
[Time keep ] GPS ; Model: GT902MGG  
 [Evidence ] GPS Time Log : Recorded ; Screen shot:  
 Recorded

[Condition ] Stability: Slight flickering Transparency:  
 Clear

[Remarks ] +1.000sec

[Additional comment]

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20.00</Asteroid>  
</Details>  
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<ID>1|Takeshi Nemoto||0|Tama, Tokyo|JP|+139 27 35.2|  
+35 38 58.5|49| |25|2|a|a</ID>  
<Conditions>2|1|4.27||+1.000sec</Conditions>  
<D>17 26 9.835|D|0.007||| </D>  
<R>17 26 11.001|R|0.006||| </R>  
</Observer>  
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Text-based Light curve  
(533)\_20250803\_172605\_Takeshi\_Nemoto.dat

Date: 2025-8-3 17:26:6.45: 8.07: 389  
Star: 0: 0: 0: 1271-00679-1: 0-0  
Observer: +139:27:35.2: +35:38:58.5: 49: Takeshi Nemoto  
Object: Asteroid: 533: Sara  
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