

(35063)1988 FD occults Tycho2 2313-01383-1

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

[Date] 2026. 2.19 [Approx hour] 11.8
[Star] Tycho2 2313-01383-1 VMag=11.58 RMag=11.06
[Asteroid] (35063)1988 FD 17.70 mag.

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

Any occultation has not been detected.
[Checked time] : 11h49m 7.260s
[Predicted Time error] 0.05 sec [RUWE] 0.95

[Recorded] From 11h48m30s
To 11h49m40s

[Telescope] Aperture: 40cm Type: Classical Cassegrain
F=2.6 (Reducer x0.26)
[Camera] a Analog or Digital video , Model= ZWO ASI462MM
[Exposure] Set: 13.5msec, Measure: 13.5019msec
[Setting] Area: 1936x600 ; Binning=2
Gain: 500 ; Brightness: 235 ; 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: 2 Fog
[Remarks] The prediction time error was very small at 0.055 seconds. The target star was at a low altitude and the sky was hazy fog. Capturing the satellite shadow with a maximum dimming time of 0.04 seconds required a exposure time of 13.5 ms and high gain. As a result, noise increased and signal-to-noise ratio decreased.

[Additional comment]
Capture : Camera imaging data to PC using SharpCap4.1.14136.0
Photometry analysis : Analyzed with software. limovie 2.0.0.4H2
Photometry method : PSF photometry
(Linked Tracking=OFF, Correction for absorption=ON)
Data Release Site
https://drive.google.com/drive/folders/1MGRGAFiWJXG8kVC9rdHhDRTA5SYcUbT5?usp=sharing

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<Observer>
<ID>1|Katsuhiko Kitazaki||0|Musashino, Tokyo|JPN|+139 33 41.2|+35 42 37.0|66|40|6|a|a</ID>
<Conditions>3|2|||The predicted time error was small at 0.055 seconds, but the target star's altitude was low and transparency was poor, so the gain had to be increased. This resulted in increased noise and a lower signal-to-noise ratio.</Conditions>
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<R>11 49 7.260|M|||</R>
</Observer>

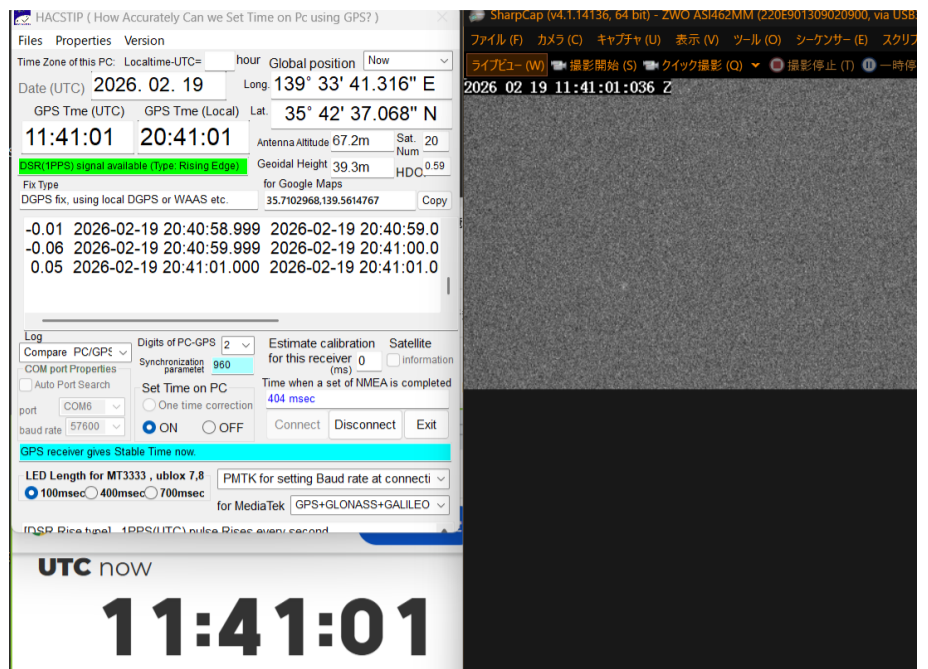
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Text-based Light curve
(35063)_0000002026 Feb 19_114900_Katsuhiko_Kitazaki.dat

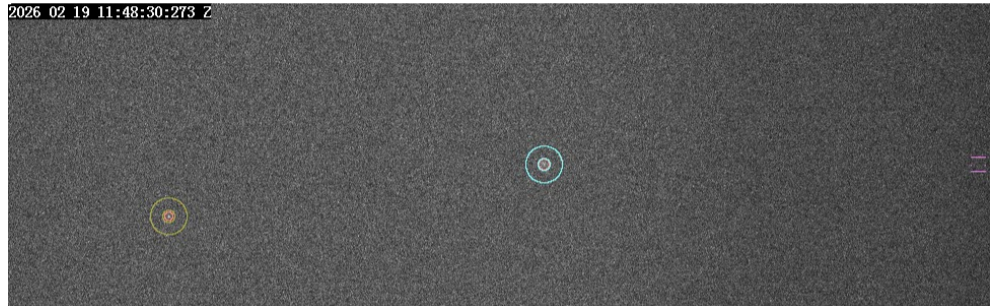
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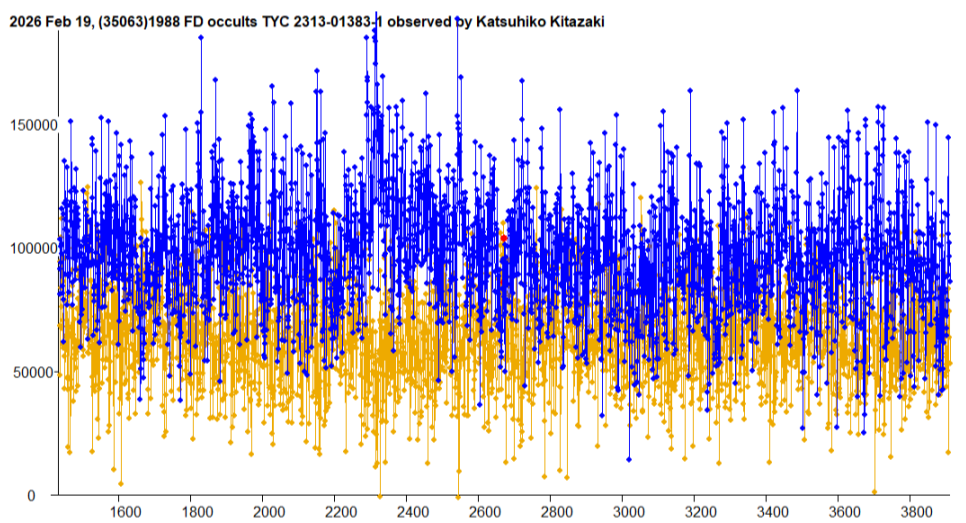
UTC Time Evidence



Target Star Position (Target star = Light Blue, Comparison star = Yellow)



Light curve (Target star = Blue line, Comparison star = Yellow line)



Part of the light curve near the predicted time (Target star = Blue line, Comparison star = Yellow line)

