

(201) Penelope occults UCAC4 511-047896 on 2025 Nov 23 from 14h40m to 15h14m UT

Katsumasa Hosoi / Miharu, Fukushima

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

[Date ] 2025.11.23 [Approx hour] 15.0  
 [Star ] UCAC4 511-047896 VMag=13.54 RMag=13.09  
 [Asteroid ] (201)Penelope 13.97 mag.

[Observer ] 1: Katsumasa Hosoi 2:  
 [Location ] Miharu, Fukushima, JP  
 [Longitude ] 140o26'04.2" E  
 [Latitude ] 37o25'36.7" N  
 [Altitude ] 274m  
 [Datum ] WGS84

[Event time] D: 14h40m54.596s +/- 0.209s (UTC) S/N=2.74  
 R: 14h41m05.181s +/- 0.124s (UTC) S/N=3.44  
 [Predicted Time error] 0.715 sec [RUWE] 0.95

[Recorded ] From 14h38m45s  
 To 14h43m5s

[Mag. drop] D: Measured: Mag Drop (measured): 0.72 Mag. ;  
 Predicted: Mag Drop (predicted): 1.0 Mag. [for fitting]  
 R: Measured: Mag Drop (measured): 0.78 Mag. ;  
 Predicted: Mag Drop (predicted): 1.0 Mag. [for fitting]

[Telescope] Aperture: 25cm Type: Newtonian F=4.0  
 [Camera ] Analog or Digital video, Model= ASI290MM  
 [Exposure ] Set: 327.0msec, Measure: 327msec  
 [Setting ] Area: 1280x680 ; Binning=2  
 Gain: 440 ; Brightness: 120 ; High Speed Mode: Off  
 [Time keep ] GPS ; Model: GHS-OSD  
 [Evidence ] GPS Time Log : Recorded ; Screen shot: Recorded

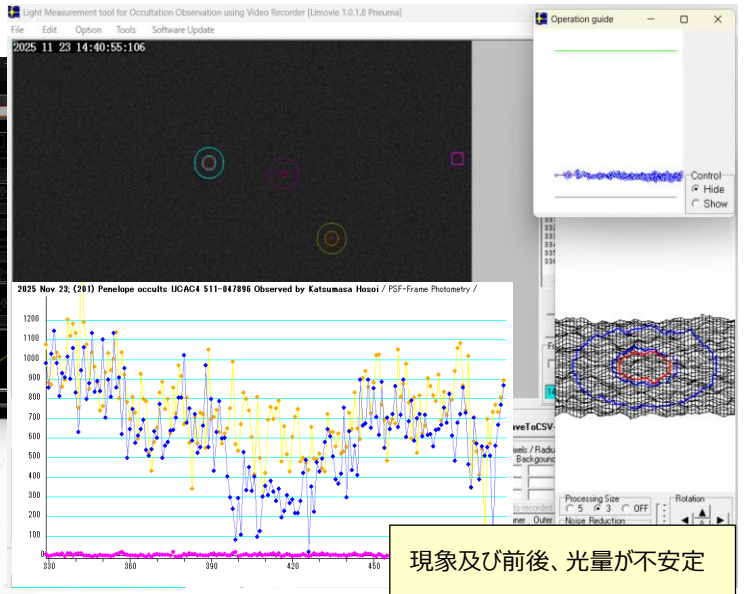
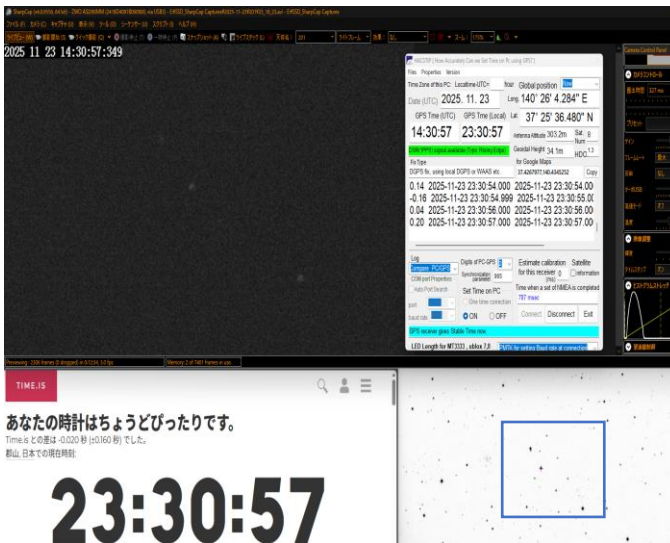
[Condition ] Stability: Slight flickering Transparency: Thin cloud <2  
 [Remarks ]

[Additional comment]

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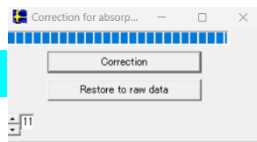
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+140 26 04.2|+37 25 36.7|274| |25|2|ala</ID>
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<R>14 41 5.181|R|0.124||| </R>
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Correction for absorption

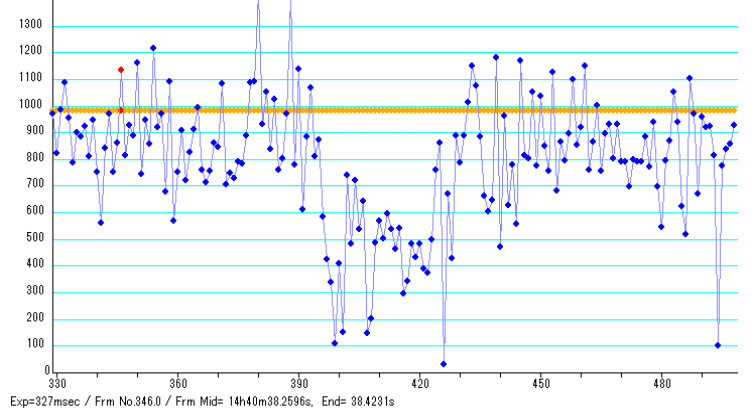
適用にて解析

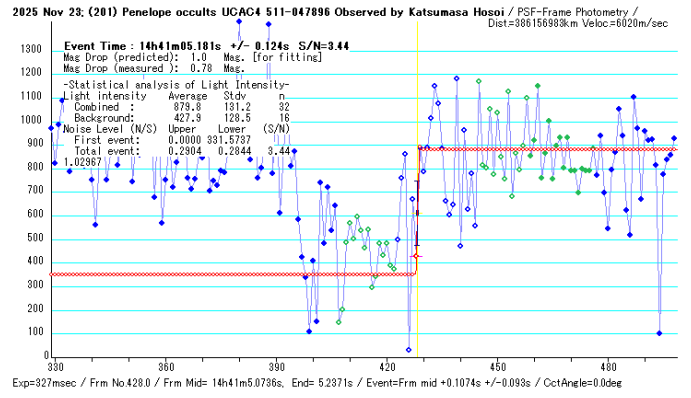
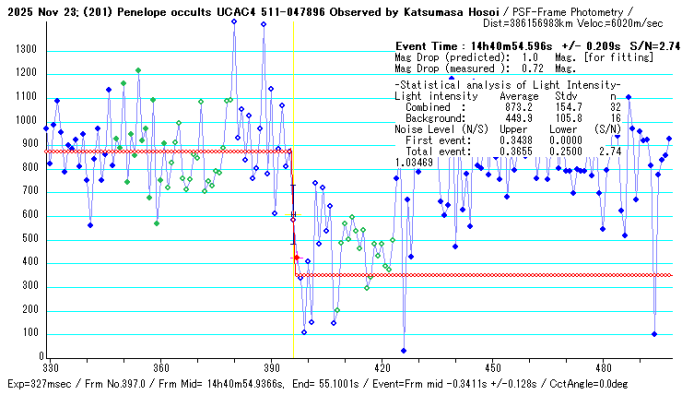


- \*\*\*\*\* Guide for operation \*\*\*\*\*
- Two stars must be selected for measurement.
    - There are two measurement regions. Blue on the target star and Yellow on comparison.
  - Click the lightcurve at the brightest value which is considered as a result of minimum absorption.
    - The frame will be displayed as a red dot.
  - Click Correction button.
    - The light curve will be normalized based on the selected (red) frame.
  - Back the data to original with clicking the Restore button.

5	982.93656
	979.64545
198398182	1005.53640
	1009.40000
Edin6	1021.09000
	1051.12220
	1029.70000
	984.27143
	952.88323

2025 Nov 23, (201) Penelope occults UCAC4 511-047896 Observed by Katsumasa Hosoi / PSF-Frame Photometry /





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