

(141313)2001 YK122 occults UCAC4 539-032421

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

[Date ] 2025. 1.13 [Approx hour] 11.9
[Star ] UCAC4 539-032421 VMag=13.43 RMag=12.68
[Asteroid ] (141313)2001 YK122 18.34 mag.

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

[Event time] D: 11h58m01.928s +/- 0.023s (UTC) S/N=8.51
R: 11h58m02.401s +/- 0.020s (UTC) S/N=9.73
[Predicted Time error] 0.214 sec [RUWE] 0.90

[Recorded ] From 11h57m00s
To 11h59m00s

[Mag. drop ] D: Measured: Mag Drop (measured): 4.57 Mag.
; Predicted: Mag Drop (predicted): 4.9 Mag. [for fitting]
R: Measured: Mag Drop (measured): 4.63 Mag.
; Predicted: Mag Drop (predicted): 4.9 Mag. [for fitting]

[Telescope ] Aperture: 40cm Type: Classical Cassegrain
F=2.5 (Reducer x0.25)
[Camera ] Analog or Digital video , Model= ASI290MM
[Exposure ] Set: 197.0msec, Measure: 197msec
[Setting ] Area: 1936x400 ; Binning=2
Gain: 290 ; Brightness: 0 ; High Speed Mode: Off
[Time keep ] GPS ; Model: GHS-OSD (PPSPUcorrection-0.0106744s)
[Evidence ] GPS Time Log : Recorded ; Screen shot: Recorded

[Condition ] Stability: Strong flickering Transparency: Clear
[Remarks ] The Prediction Time Error was 214 ms, but the frame exposure time was set to 197 ms, just short of the Prediction Time Error, to improve S/N.

[Additional comment]
Photometry analysis : Analyzed with software.limovie1.0.0.6Pneuma.
Photometry method: PSF photometry
(Sarp4.1 ON,Tracking OFF、 Linked Tracking ON,Mag drop considered ON)
Data Release Site
https://www.data-box.jp/pdir/09e49c58e4ee4088aaafc9e44bc49cea

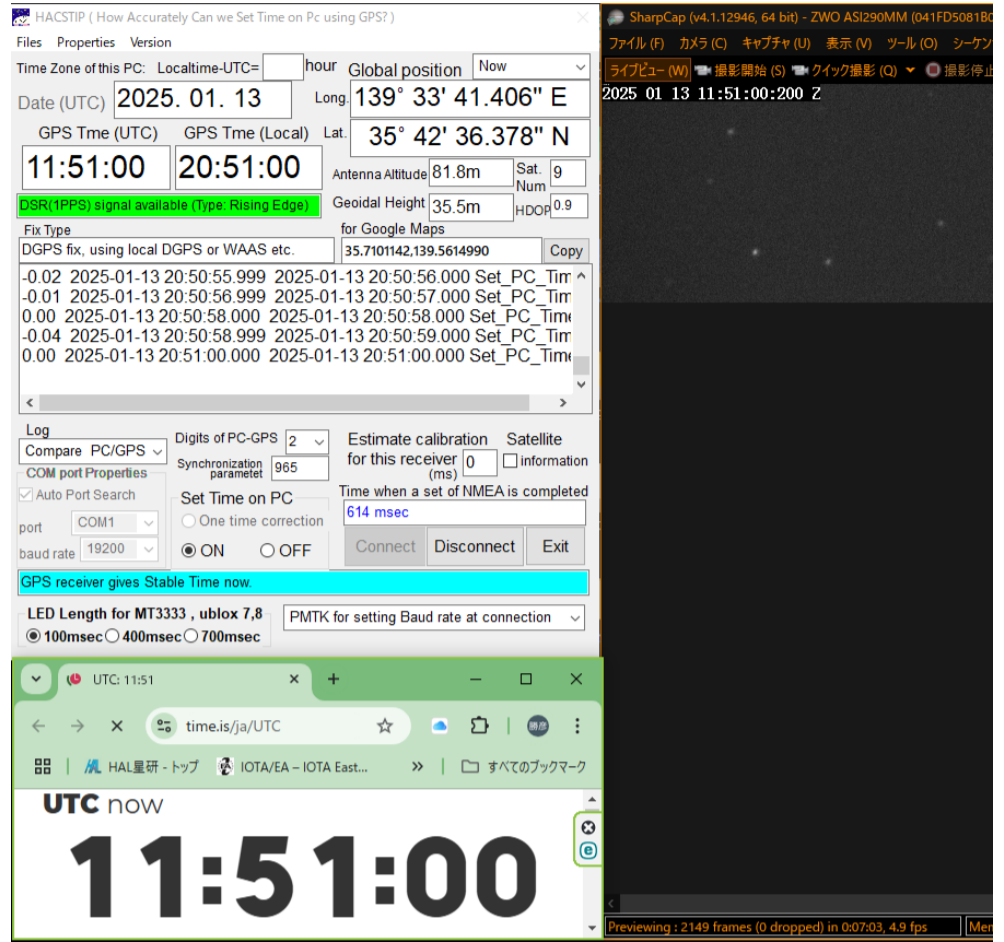
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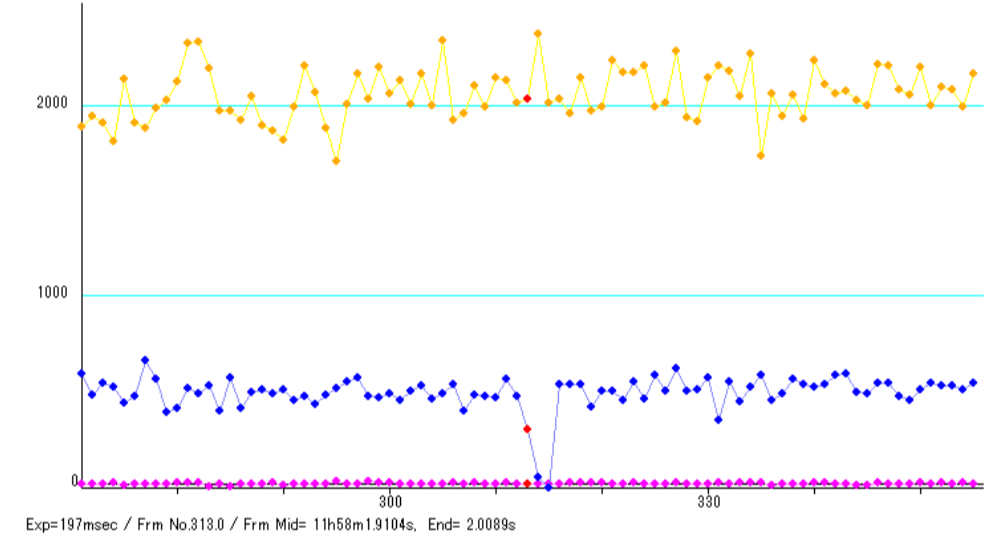
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</Details>
<Observations>
<Observer>
<ID>1|Katsuhiko Kitazaki||0|Musashino Tokyo|JPN|+139 33 41.2|+35 42 37.0|66| |40|6|a|a</ID>
<Conditions>3|1|9.12||The Prediction Time Error was 200 ms, but the frame exposure time was set to 197 ms, just short of the Prediction Time Error, to improve S/N.</Conditions>
<D>11 58 1.928|D|0.023|| </D>
<R>11 58 2.401|R|0.020|| </R>
</Observer>

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<LastEdited>2023|7|17</LastEdited>
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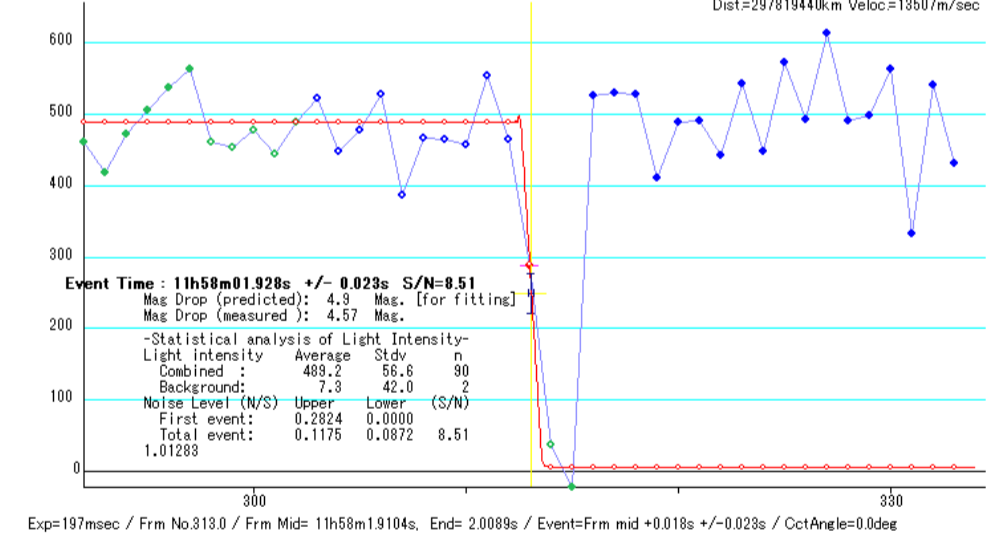
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2025 Jan 13: (141313) 2001 YK122 occults UCAC4 539-032421 Observed by Katsuhiko Kitazaki / PSF-Frame Photometry /



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