

(4770)Lane occults UCAC4 471-023455

<LastEdited>2023|7|17</LastEdited>

</Event>

</Observations>

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

[Date ] 2024.12.21 [Approx hour] 14.0
[Star ] UCAC4 471-023455 VMag=13.45 RMag=13.03
[Asteroid ] (4770)Lane 16.92 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: 14h01m24.121s +/- 0.014s (UTC) S/N=8.66
R: 14h01m24.463s +/- 0.045s (UTC) S/N=9.93 Ctt=85.3
[Predicted Time error] 0.070 sec [RUWE] 0.90

[Recorded ] From 14h0m30s
To 14h2m30s

[Mag. drop ] D: Measured: Mag Drop (measured): 3.73 Mag. ; Predicted:
Mag Drop (predicted): 3.5 Mag. [for fitting]
R: Measured: Mag Drop (measured): 3.73 Mag. ; Predicted:
Mag Drop (predicted): 3.5 Mag. [for fitting]

[Telescope ] Aperture: 40cm Type: Other F=2.5
[Camera ] Analog or Digital video , Model= ASI290MM
[Exposure ] Set: 124.0msec, Measure: 124msec
[Setting ] Area: 1936x600 ; Binning=2
Gain: 365 ; Brightness: 39 ; High Speed Mode: Off
[Time keep ] GPS ; Model: GHS-OSD (PPSPUcorrection: -0.0156296s)
[Evidence ] GPS Time Log : Recorded ; Screen shot: Recorded

[Condition ] Stability: Strong flickering Transparency: Clear
[Remarks ] [Remarks ] Winds have decreased, but scintillation is still significant.

[Additional comment]
Capture : ZWO ASI290MM imaging data to PC using SharpCap4.1.11351
Photometry analysis : Analyzed with software.limovie1.0.0.6Pneuma.
Photometry method: PSF photometry
(Shap4.1 OFF,Tracking ON,Linked Tracking ON)

URL Data Release Site
https://www.data-box.jp/pdir/0676bbede4d24ed09c0f33fcc727915f

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<Observations>

<Event>

<Date>2024|12|21|14.0</Date>

<Details>

<Star>UCAC4|471-

023455|0||0.000000000|0.00000000|0.00|0.00|0.00|0|0.00000000|0.00000000|25.00|25.00|25.00|0</Star>

<Asteroid>4770|Lane|0.00000000|0.00000000|0.00000000|0.00000000|0.00000000|0.00000000|1.00000|0.00000|0.0|1.0|20.00</Asteroid>

</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|9.29||[Remarks ] Winds have decreased, but scintillation is still significant.</Conditions>

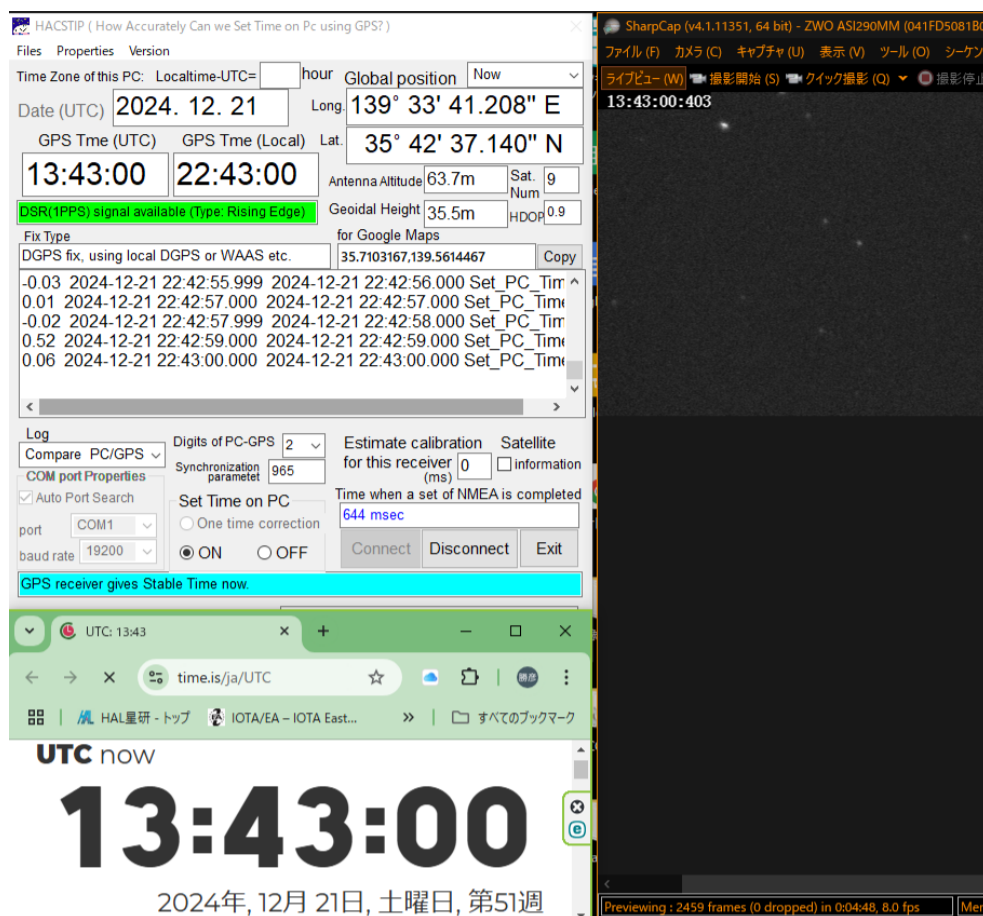
<D>14 1 24.121|D|0.014||| </D>

<R>14 1 24.463|R|0.045||| </R>

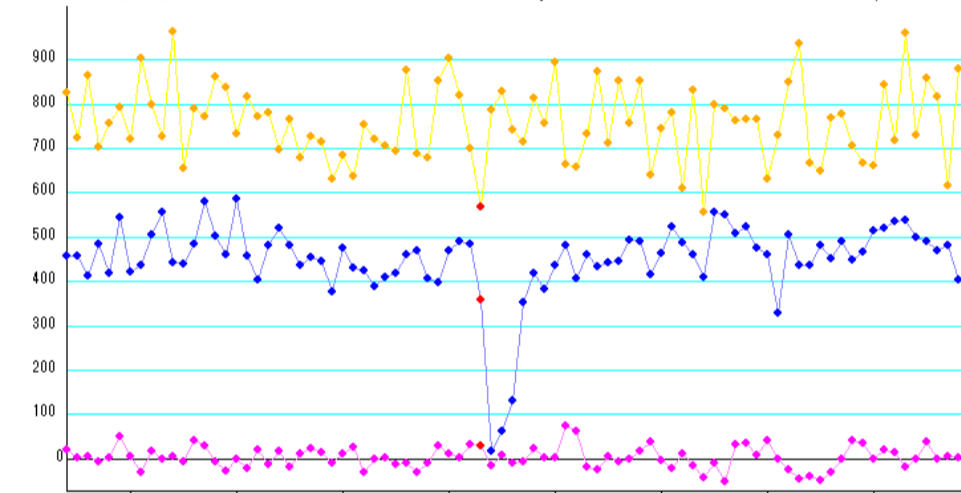
</Observer>

</Observations>

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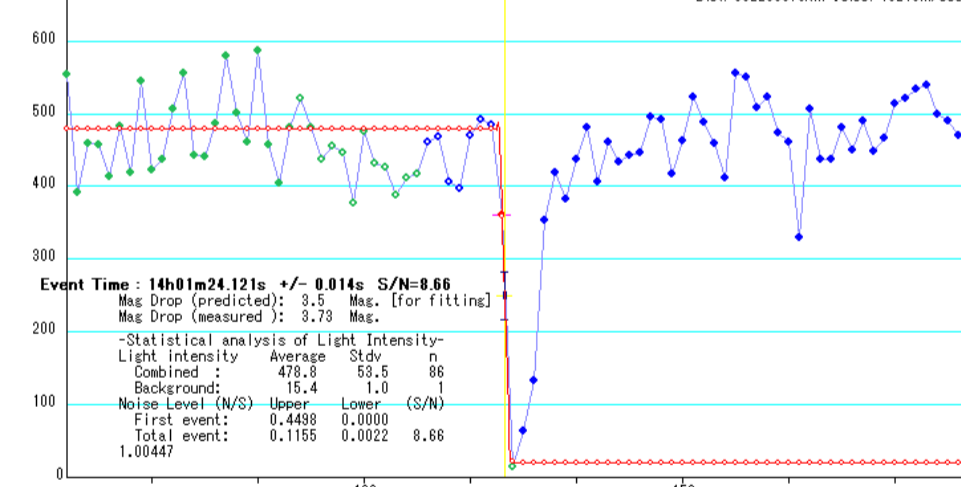


2024 Dec 21: (4770) Lane occults UCAC4 471-023455 Observed by Katsuhiko Kitazaki / PSF-Frame Photometry /



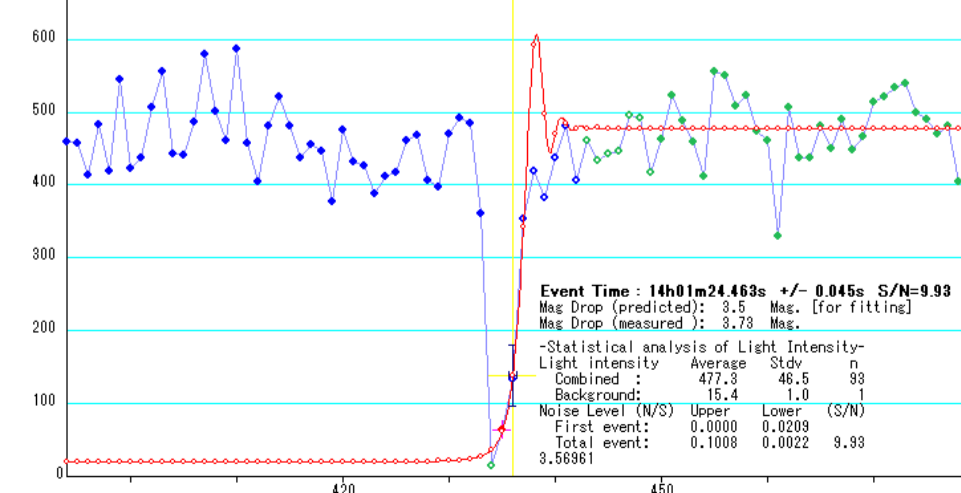
Exp=124msec / Frm No.433.0 / Frm Mid= 14h1m24.0896s, End= 24.1516s

2024 Dec 21: (4770) Lane occults UCAC4 471-023455 Observed by Katsuhiko Kitazaki / PSF-Frame Photometry /



Exp=124msec / Frm No.433.0 / Frm Mid= 14h1m24.0896s, End= 24.1516s / Event=Frn mid +0.031s +/-0.014s / CctAngle=0.0deg

2024 Dec 21: (4770) Lane occults UCAC4 471-023455 Observed by Katsuhiko Kitazaki / PSF-Frame Photometry /



Exp=124msec / Frm No.435.0 / Frm Mid= 14h1m24.3376s, End= 24.3996s / Event=Frn mid +0.125s +/-0.045s / CctAngle=85.3deg