

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

[Date] 2024. 1.21 [Approx hour] 18.9

[Star] UCAC4 373-069735

[Asteroid] (85)Io

[Observer] 1: Takeshi Nemoto 2:

[Location] Sagamihara,Kanagawa, JPN

[Longitude] 139°20'14.7" E

[Latitude] 35°32'17.7" N

[Altitude] 45m

[Datum] WGS84

[Event time] D: 18h51m04.549s +/- 0.171s (UTC)
S/N=3.59

R: 18h51m10.239s +/- 0.172s (UTC)
S/N=3.58

[Recorded] From 18h49m41s
To 18h52m41s

[Mag. drop] D: Measured: 0.44 ; Predicted: 0.3
R: Measured: 0.39 ; Predicted: 0.3

[Telescope] Aperture: 20cm Type: Newtonian F=4.0
[Camera] Analog or Digital video , Model=ASI290MM

[Exposure] Set: 490.0msec, Measure: 490msec

[Setting] Area: 1488x548 ; Binning=2
Gain: 400 ; Brightness: 0 ; High Speed

Mode: Off

[Time keep] GPS ; Model: GT902MGG

[Evidence] GPS Time Log : Recorded ; Screen shot:
None

[Condition] Stability: Slight flickering Transparency:
Clear

[Remarks]

[Additional comment]

<Observations>

<Event>

<Date>2024|1|21|18.9</Date>

<Details>

<Star>UCAC4|373-069735|0|0.000000000|
0.00000000|0.00|0.00|0.00|0.00000000|0.000000|
25.00|25.00|25.00|0</Star>

<Asteroid>85|Io|0.00000000|0.00000000|
0.00000000|0.00000000|0.00000000|0.000000|1.00000|
0.00000|0.0|1.0|20.00</Asteroid>

</Details>

<Observations>

<Observer>

<ID>1|Takeshi Nemoto|0|Sagamihara,Kanagawa|
JPN|+139 20 14.7|+35 32 17.7|45| 20|2|a|a</ID>

<Conditions>2|1|3.58|</Conditions>

<D>18 51 4.549|D|0.171|</D>

<R>18 51 10.239|R|0.172|</R>

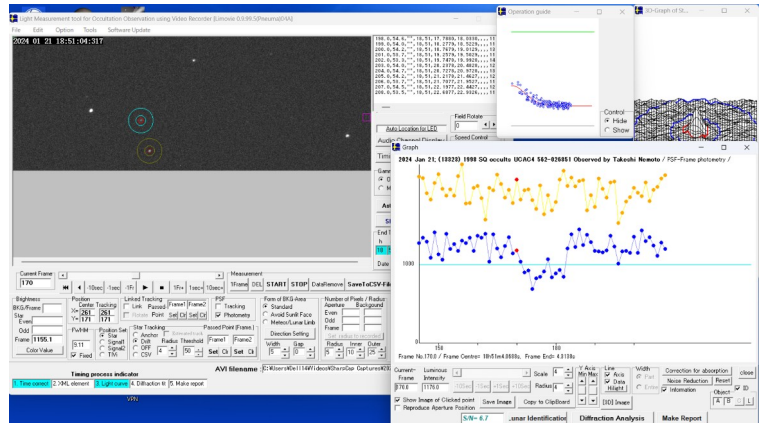
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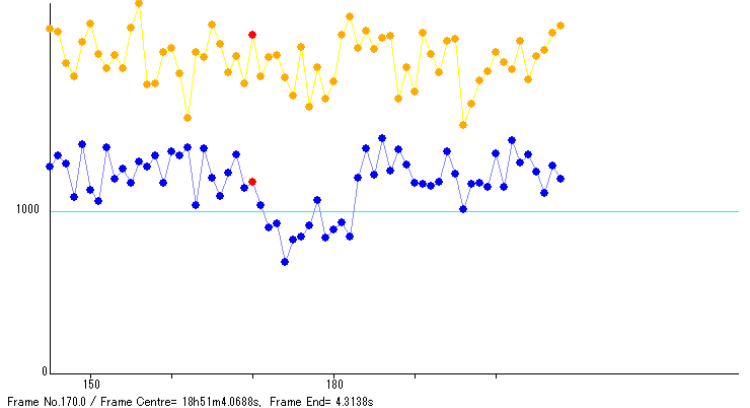
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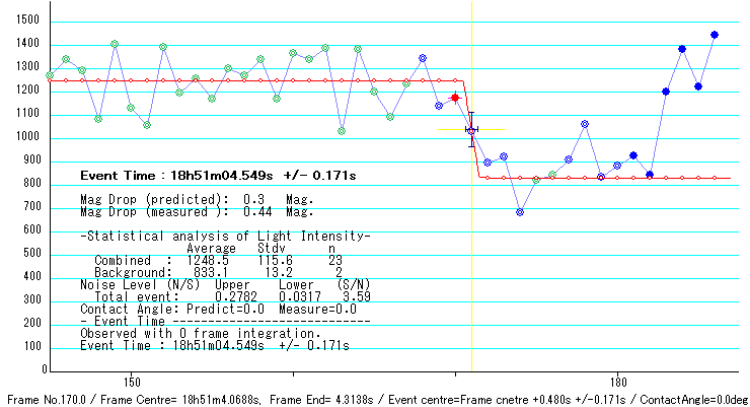


2024 Jan 21: (13329) 1998 SQ occults UCAC4 562-026851 Observed by Takeshi Nemoto / PSF-Frame photometry /



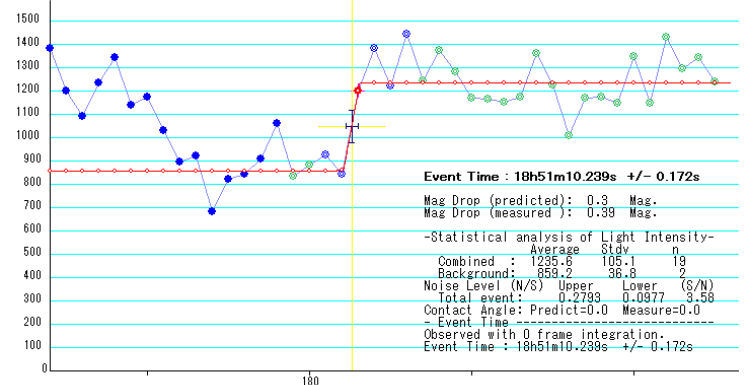
Frame No.170.0 / Frame Centre= 18h51m4.0688s, Frame End= 4.3138s

2024 Jan 21: (85) Io occults UCAC4 373-069735 Observed by Takeshi Nemoto / PSF-Frame photometry / Object: Distance=431



Frame No.170.0 / Frame Centre= 18h51m4.0688s, Frame End= 4.3138s / Event centre=Frame centre +0.480s +/-0.171s / ContactAngle=0.0deg

2024 Jan 21: (85) Io occults UCAC4 373-069735 Observed by Takeshi Nemoto / PSF-Frame photometry / Object: Distance=431



Frame No.183.0 / Frame Centre= 18h51m10.4384s, Frame End= 10.6834s / Event centre=Frame centre -0.199s +/-0.172s / ContactAngle=0.0deg