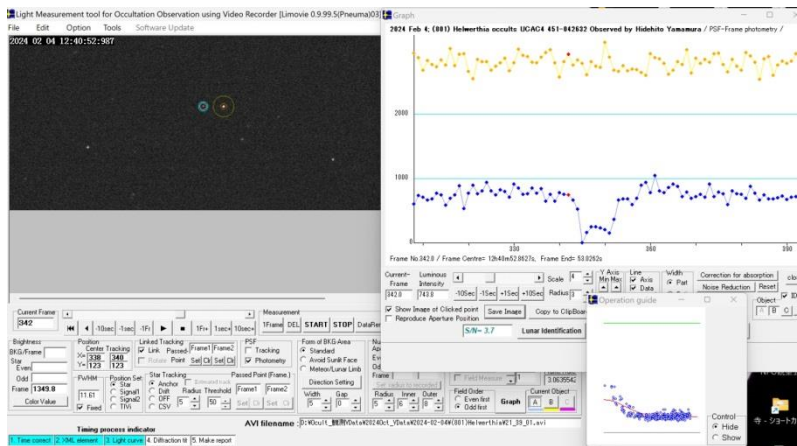
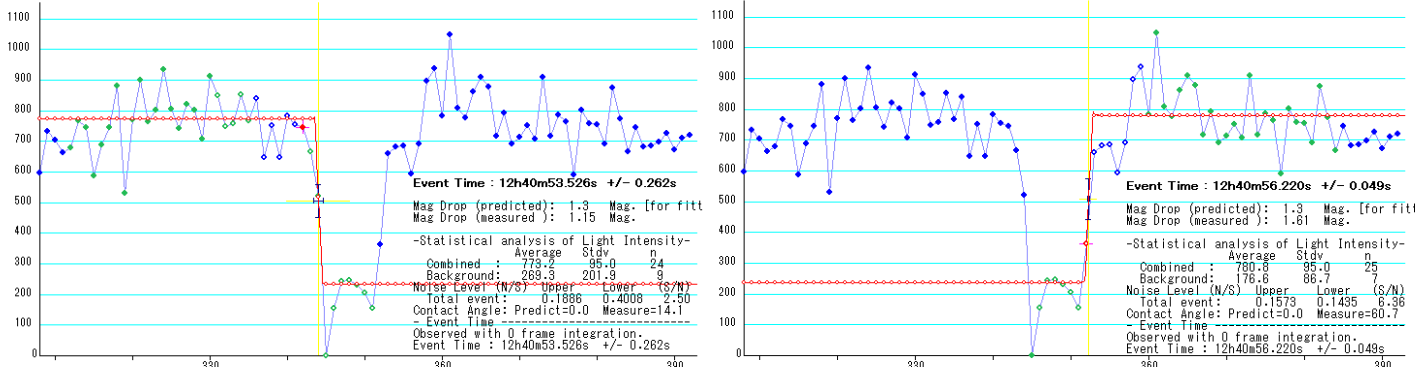


# 20240204\_(801)Helwerthia Occults UCAC4 451-042632

Hidehito Yamamura



2024 Feb 4: (801) Helwerthia occults UCAC4 451-042632 Observed by Hidehito Yamamura / PSF-Frame photometry / Object2024 Feb 4: (801) Helwerthia occults UCAC4 451-042632 Observed by Hidehito Yamamura / PSF-Frame photometry / Object



Frame No.342.0 / Frame Centre= 12h40m52.8627s, Frame End= 53.0262s / Event centre=Frame centre +0.663s +/-0.222s / ContactAngle=14.1Frame No.352.0 / Frame Centre= 12h40m56.1328s, Frame End= 56.2963s / Event centre=Frame centre +0.087s +/-0.056s / ContactAngle=60.7

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

[Date ] 2024. 2. 4 [Approx hour] 12.6  
[Star ] UCAC4 451-042632  
[Asteroid ] (801)Helwerthia  
[Observer ] 1: Hidehito Yamamura 2:  
[Location ] Gujyou,Gifu, JPN  
[Longitude ] 136o57'01.6" E  
[Latitude ] 35o42'57.5" N  
[Altitude ] 193m  
[Datum ] WGS84  
[Event time] D: 12h40m53.526s +/- 0.262s (UTC)  
S/N=2.50 Ctt=14.1  
R: 12h40m56.220s +/- 0.049s (UTC)  
S/N=6.36 Ctt=60.7  
[Recorded ] From 12h39m1s  
To 12h41m58s  
[Mag. drop ] D: Measured: 1.15 ; Predicted: 1.3  
R: Measured: 1.61 ; Predicted: 1.3  
[Telescope ] Aperture: 23.5cm Type: SCT F=3.3  
[Camera ] Digital SLR camera video , Model=ASI290MM  
[Exposure ] Set: 321.208msec, Measure: 326msec  
[Setting ] Area: 1904x612 ; Binning=2  
Gain: 462 ; Brightness: 100 ; High Speed  
Mode: Off  
[Time keep ] GPS ; Model: VK172  
[Evidence ] GPS Time Log : Recorded ; Screen  
shot: Recorded

[Condition ] Stability: Steady Transparency: Clear  
[Remarks ]  
[Additional comment]

<Observations>  
<Event>  
<Date>2024|2|4|12.6</Date>  
<Details>  
<Star>UCAC4|451-042632|0||0.000000000|0.00000000|0.00|0.00|0.00|0.00000000|0.00000000|25.00|25.00|25.00|0</Star>  
<Asteroid>801|Helwerthia|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|Hidehito Yamamura||0|Gujyou,Gifu|JPN|+136 57 01.6|+35 42 57.5|193| |23.5|3|b|a</ID>  
<Conditions>1|1|4.43||</Conditions>  
<D>12 40 53.526|D|0.262|||</D>  
<R>12 40 56.220|R|0.049|||</R>  
</Observer>  
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</Event>  
</Observations>

Text-based Light curve  
Date: 2024-2-4 12:40:41.74: 27.47: 85  
Star: 0: 0: 0: 0: 0: 0: 0: 0: 451-042632  
Observer: +136:57:01.6: +35:42:57.5: 193:  
Hidehito Yamamura  
Object: Asteroid: 801: Helwerthia  
Values:598:732:705:664:678:768:746:587:  
687:746:882:530:770:898:764:803:935:80  
4:741:822:801:707:912:848:749:758:853:7  
68:840:647:753:648:782:753:744:666:521:  
0:156:244:246:230:206:154:362:661:682:6  
86:593:  
692:895:939:781:1048:807:775:863:910:8  
79:716:791:692:715:751:706:908:717:786:  
762:591:802:759:756:692:874:772:665:74  
4:682:686:699:725:673:712:720