# (4210)Isobelthompson occults UCAC4 396-114015

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

[Date ] 2025. 7.22 [Approx hour] 14.4
[Star ] UCAC4 396-114015 VMag=12.62 RMag=11.61
[Asteroid ] (4210)Isobelthompson 17.23 mag.

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

[Event time] D: 14h23m01.514s +/- 0.026s (UTC) S/N=7.83 Ctt=77.4
R: 14h23m01.985s +/- 0.008s (UTC) S/N=10.20
[Predicted Time error] 0.277 sec [RUWE] 0.90

[Recorded ] From 14h22m30s
To 14h23m30s
[Mag. drop ] D: Measured: Mag Drop (measured ): 2.45 Mag. ; Predicted: Mag Drop (predicted): 4.6 Mag.
R: Measured: Mag Drop (measured ): 2.51 Mag. ; Predicted: Mag Drop (predicted): 4.6 Mag.

[Telescope ] Aperture: 40cm Type: Classical Cassegrain F=2.5
[Camera ] Analog or Digital video , Model= ASI290MM
[Exposure ] Set: 77.3msec, Measure: 77.3msec
[Setting ] Area: 1936x800 ; Binning=2
Gain: 390 ; Brightness: 0 ; High Speed Mode: Off
[Time keep ] GPS ; Model: GT502MGG
(PPSPUcorrection -0.0114294s)
[Evidence ] GPS Time Log : None ; Screen shot: Recorded

[Condition ] Stability: Slight flickering Transparency: Fog
[Remarks ] The magnitude of the target star was lowered due to foggy sky. The light curve of disappearance had two midpoints, so the contact angles were obtained and analyzed.

[Additional comment]
Trouble occurred with UTC Time Log not being recorded.
Data Release Site
https://drive.google.com/drive/folders/17vt1Ni57CitXgbJuAA21rS2QYyojAzDM?usp=sharing

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<Observations>
<Event>
<Date>2025|7|22|14.4</Date>
<Details>
<Star>UCAC4|396-114015|0||0.0000000000|0.000000000|0.00|0.00|0.00|0|0.00000000|0.0000000|25.00|25.00|25.00|0</Star>

<Asteroid>4210|Isobelthompson|0.00000000|0.00000000|0.0000000|0.0000000|0.0000000|1.00000|0.00000|0.0|1.0|20.00</Asteroid>
</Details>
<Observations>
<Observer>
<ID>1|Katsuhiko Kitazaki||0|Musasino, Tokyo|JP|+139 33 41.2|+35 42 37.0|66| |40|6|a|a</ID>
<Conditions>2|2|9.02||The magnitude of the target star was lowered due to foggy sky.
The light curve of disappearance had two midpoints, so the contact angles were obtained and analyzed.</Conditions>
<D>14 23 1.514|D|0.026||| </D>
<R>14 23 1.985|R|0.008||| </R>
</Observer>
</Observations>
<LastEdited>2023|7|17</LastEdited>
</Event>
</Observations>

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Text-based Light curve
(4210)_20250722_142258_Katsuhiko_Kitazaki.dat

Date: 2025-7-22 14:22:58.55: 6.49: 85
Star: 0: 0: 0: 0: 0-0-0: 396-114015
Observer: +139:33:41.2: +35:42:37.0: 66: Katsuhiko Kitazaki
Object: Asteroid: 4210: Isobelthompson
Values:443:563:554:514:720:594:656:596:484:518:568:603:554:622:591:545:580:514:491:634:463:662:475:526:494:634:543:537:543:600:622:476:666:505:553:526:540:602:276:127:-20:58:52:68:59:640:569:590:595:629:565:584:621:548:570:572:621:589:533:543:544:689:605:544:616:546:634:571:625:632:554:662:622:586:624:621:633:603:581:638:714:541:639:545:624

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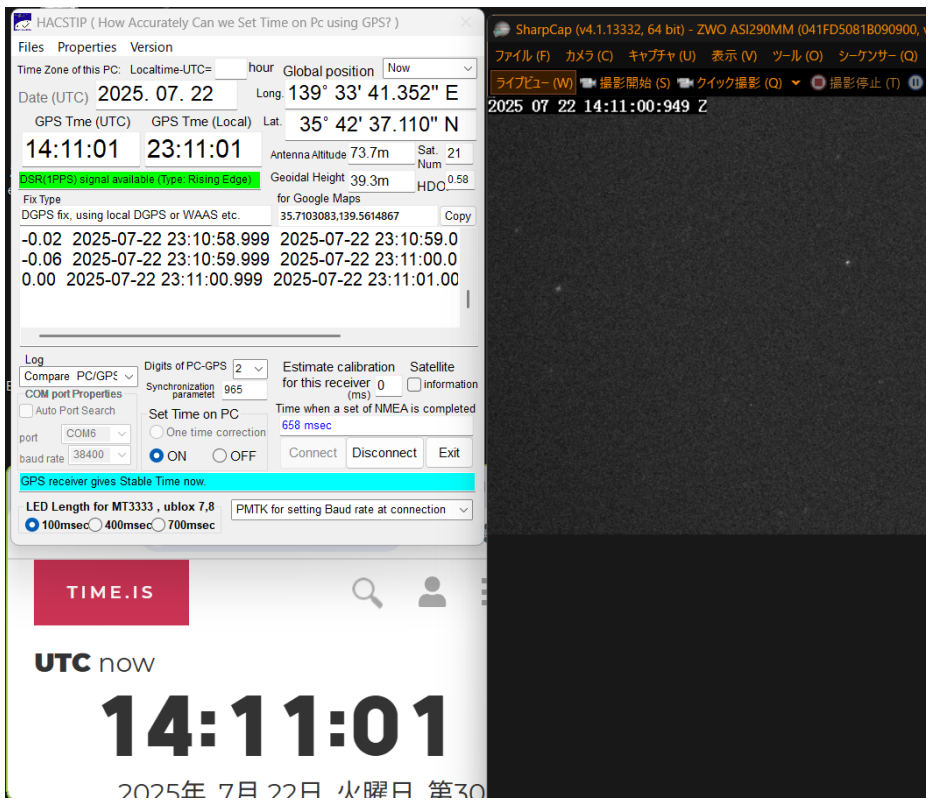
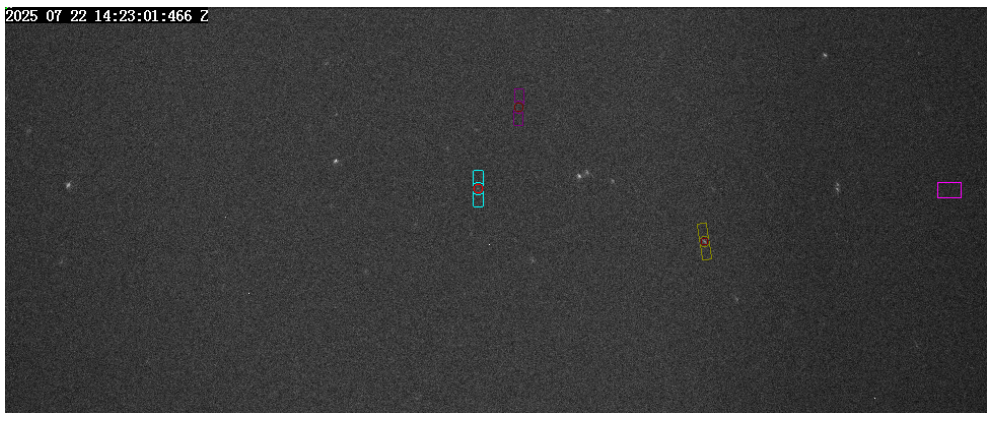
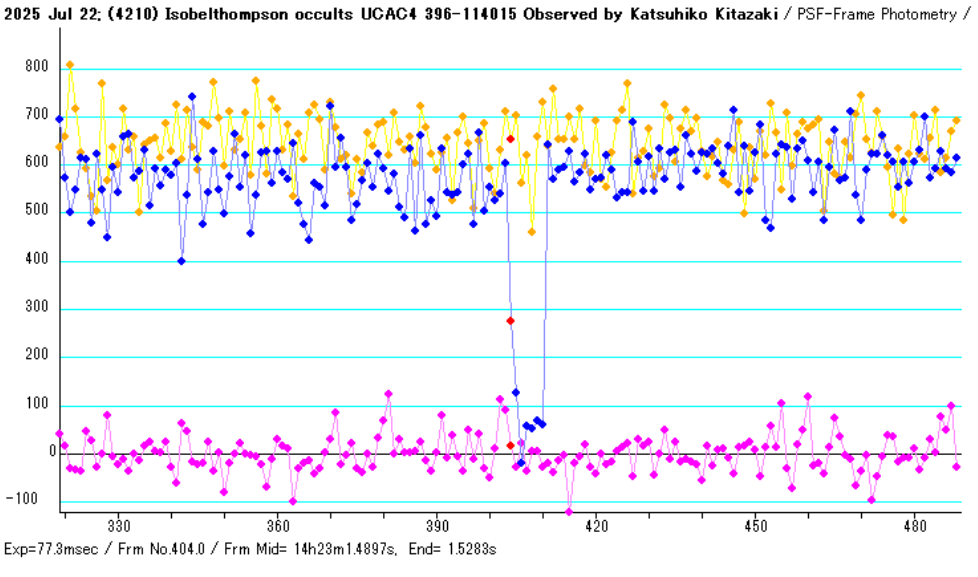
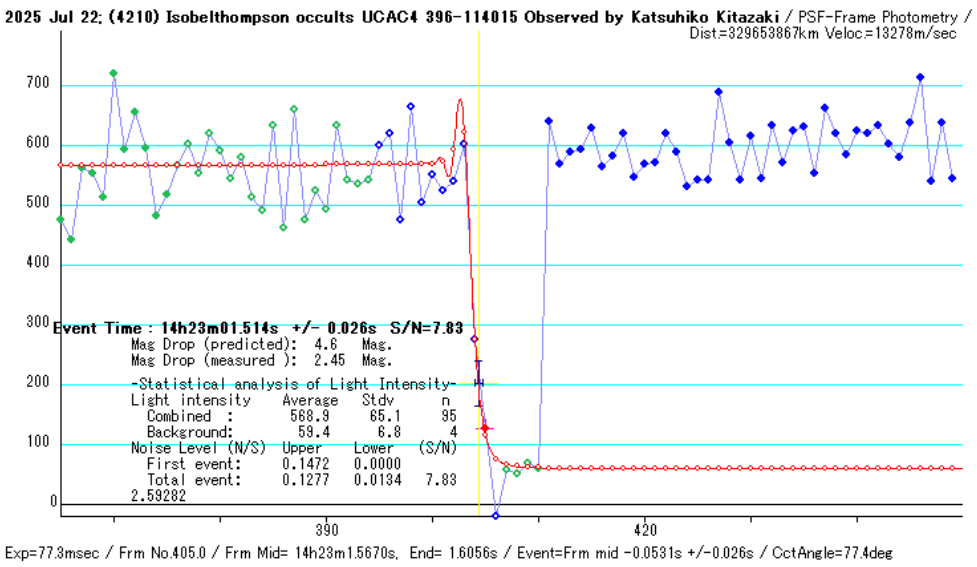
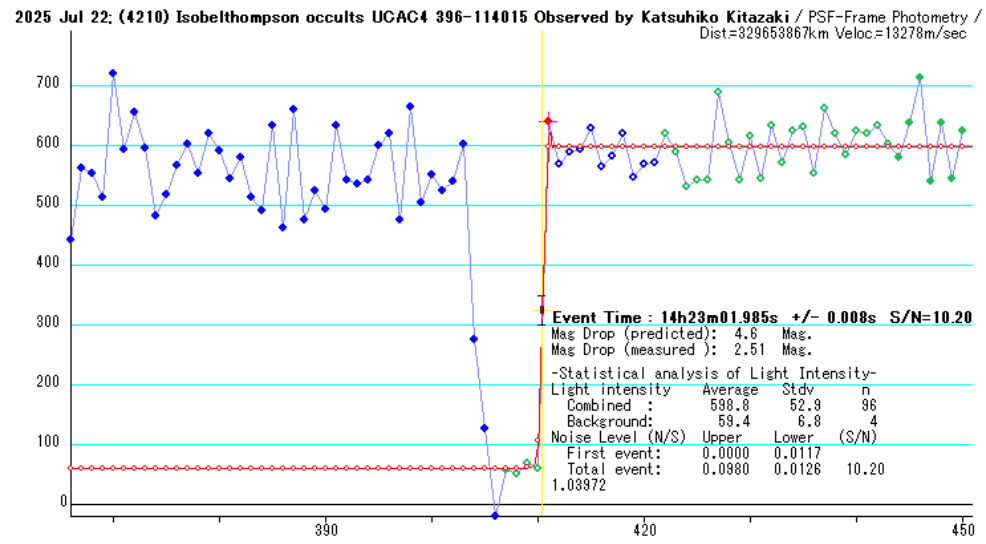





Exp=77.3msec / Frm No.405.0 / Frm Mid= 14h23m1.5670s, End= 1.6056s / Event=Frm mid -0.0531s +/-0.026s / CctAngle=77.4deg




Exp=77.3msec / Frm No.411.0 / Frm Mid= 14h23m2.0308s, End= 2.0695s / Event=Frm mid -0.0462s +/-0.008s / CctAngle=0.0degg