

(7551)Edstolper occults UCAC4 514-009700

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

[Date ] 2026. 1. 5 [Approx hour] 13.6
[Star ] UCAC4 514-009700 VMag=14.26 RMag=13.57
[Asteroid ] (7551)Edstolper 17.26 mag.

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

[Event time] Main D: 13h36m32.669s +/- 0.019s (UTC) S/N=7.58
Minor D: 13h36m32.669s +/- 0.019s (UTC) S/N=7.58
Maine R: 13h36m34.899s +/- 0.309s (UTC) S/N=1.5
Minor R: 13h36m34.175s +/- 0.022s (UTC) S/N=6.7

[Predicted Time error] 0.278 sec [RUWE] 0.95

[Recorded ] From 13h33m34s
To 13h37m0s

[Mag. drop ] D: Measured: Mag Drop (measured): 2.25 Mag. ; Predicted:
Mag Drop (predicted): 3.1 Mag.
D: Measured: Mag Drop (measured): 2.25 Mag. ; Predicted:
Mag Drop (predicted): 3.1 Mag.
R: Measured: ; Predicted:
R: Measured: ; Predicted:

[Telescope ] Aperture: 40cm Type: Classical Cassegrain
F=2.6 (Reducer x0.26)
[Camera ] Analog or Digital video , Model= ASI462MM
[Exposure ] Set: 144.0msec, Measure: 144msec
[Setting ] Area: 1936x600 ; Binning=2
Gain: 405 ; Brightness: 0 ; High Speed Mode: Off
[Time keep ] GPS ; Model: GT502MGG(PPSPUcorrection-0.0110063s)
[Evidence ] GPS Time Log : Recorded ; Screen shot: Recorded

[Condition ] Stability: Strong flickering Transparency: Clear
[Remarks ] The target star had a combined magnitude of 14.2 mag, but the
sky was very clear, resulting in an S/N ratio of 6.7 to 7.5.
The light curve showed no step during disappearance, but a step was observed
during reappearance.

[Additional comment]
Capture : ZWO ASI 462MM imaging data to PC using
SharpCap4.1.14013.0
Photometry analysis : Analyzed with software.limovie1.0.1.8 Pneuma
Photometry method : PSF photometry
(Sharp4.1 ON,Double Star Analyzing=ON, Star's Angular Diameter=ON)

URL Data Release Site
https://drive.google.com/drive/folders/1qP86uaGoYRNlMl\_Ne5cssR57d1nl-v-
7?usp=sharing

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<Observations>

<Event>
<Date>2026|1|5|13.6</Date>
<Details>
<Star>UCAC4|514-
009700|0||0.000000000|0.00000000|0.00|0.00|0.00|0|0.0000000|0.0000
00|25.00|25.00|25.00|0</Star>
<Asteroid>7551|Edstolper|0.00000000|0.00000000|0.0000000|0.0000000|0.0
000000|0.0000000|1.00000|0.00000|0.0|1.0|20.00</Asteroid>

</Details>

<Observations>

<Observer>
<ID>1|Katsuhiko Kitazaki||0|Musashino, Tokyo|JP|+139 33
41.2|+35 42 37.0|66| |40|6|a|a</ID>
<Conditions>3|1|7.14||The target star had a combined magnitude of
14.2 mag, but the sky was very clear, resulting in an S/N ratio of 6.7 to 7.5.
The light curve showed no step during disappearance, but a step was observed
during reappearance.</Conditions>
<D>13 36 32.669|D|0.019||| </D>
<R>13 36 34.175|R|0.022||| </R>
</Observer>
<Observer>
<ID>2|Katsuhiko Kitazaki||0|Musashino, Tokyo|JP|+139 33
41.2|+35 42 37.0|66| |40|6|a|a</ID>
<Conditions>3|1|4.54||The target star had a combined magnitude of
14.2 mag, but the sky was very clear, resulting in an S/N ratio of 6.7 to 7.5.
The light curve showed no step during disappearance, but a step was observed
during reappearance.</Conditions>
<D>13 36 32.669|d|0.019||| </D>
<R>13 36 34.899|r|0.309||| </R>
</Observer>
</Observations>
<LastEdited>2023|7|17</LastEdited>
</Event>
</Observations>

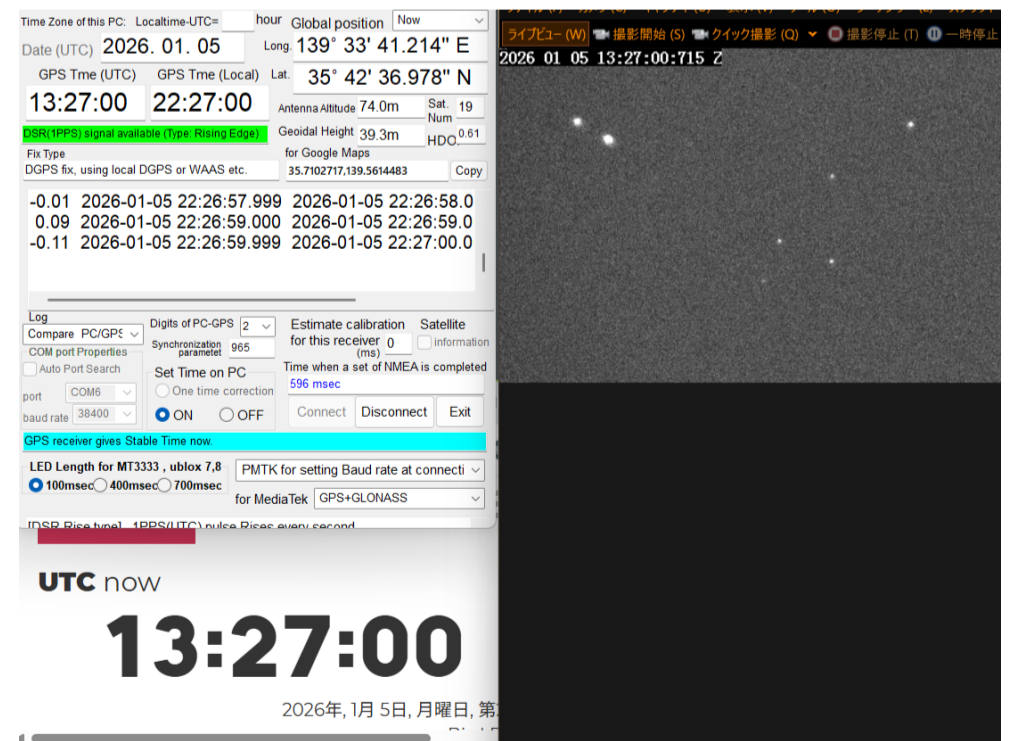
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Text-based Light curve
(7551)\_20260105\_133627\_Katsuhiko\_Kitazaki.dat

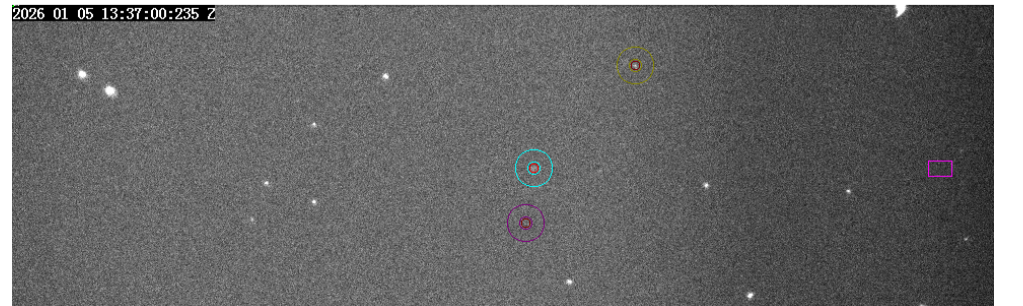
Date: 2026-1-5 13:36:27.61: 12.10: 85
Star: 0: 0: 0: 0: 0-0-0: 514-009700
Observer: +139:33:41.2: +35:42:37.0: 66: Katsuhiko Kitazaki
Object: Asteroid: 7551: Edstolper
Values:1031:885:780:860:837:614:690:768:719:726:693:798:740:612:812:804:7
56:718:878:707:714:708:737:671:704:789:672:698:846:874:784:624:743:642:65
9:498:138:9:203:64:57:-60:139:183:-42:79:213:298:249:
169:148:676:840:730:933:900:685:728:804:739:782:923:736:796:734:883:625:8
75:783:679:776:682:695:515:760:661:690:632:804:694:770:749:672:720:888

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UTC Time Evidence

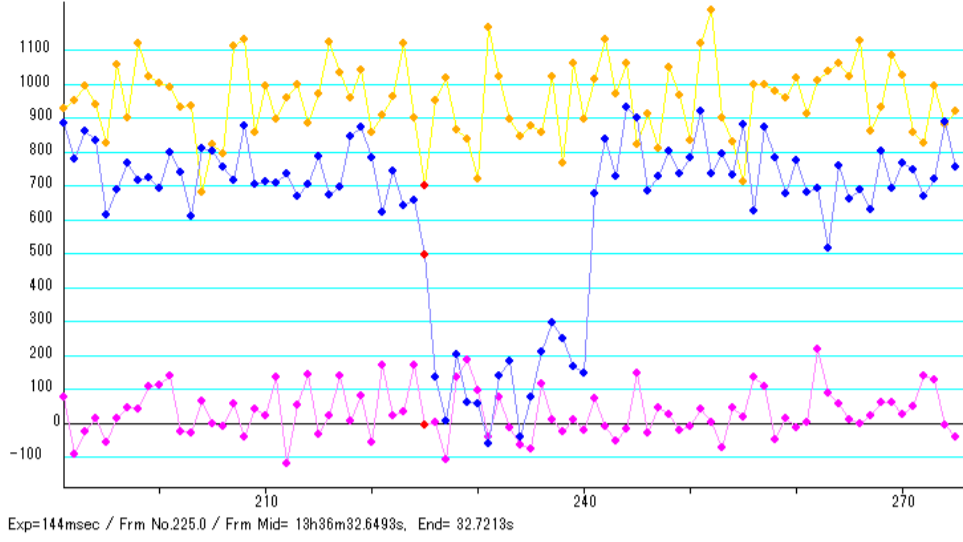


Target Star Position (Target star = Blue, Comparison star = Yellow, Pink =
Background metering)



Light curve (Target star = Blue line, Target star = Yellow line  
Background = Pink Line)

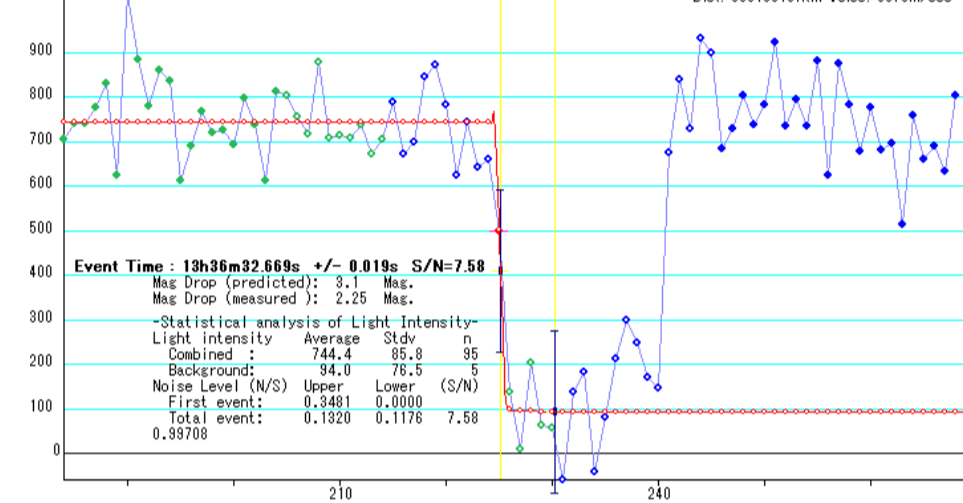
2026 Jan 5: (7551) Edstolper occults UCAC4 514-009700 Observed by Katsuhiko Kitazaki / PSF-Frame Photometry /



Exp=144msec / Frm No.225.0 / Frm Mid= 13h36m32.6493s, End= 32.7213s

### Time analysis of disappearance

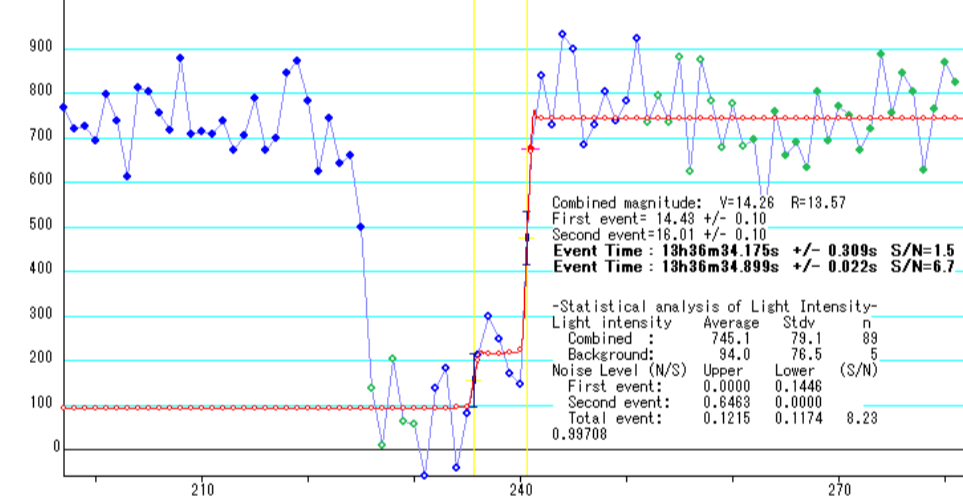
2026 Jan 5: (7551) Edstolper occults UCAC4 514-009700 Observed by Katsuhiko Kitazaki / PSF-Frame Photometry /  
Dist=306466197km Veloc=9078m/sec



Exp=144msec / Frm No.225.0 / Frm Mid= 13h36m32.6493s, End= 32.7213s / Event=Frm mid +0.0200s +/-0.019s / CctAngle=0.0deg

### Time analysis of reappearance

2026 Jan 5: (7551) Edstolper occults UCAC4 514-009700 Observed by Katsuhiko Kitazaki / PSF-Frame Photometry /  
Dist=306466197km Veloc=9078m/sec



Exp=144msec / Frm No.241.0 / Frm Mid= 13h36m34.9535s, End= 35.0255s / Event=Frm mid -0.0548s +/-0.018s / CctAngle=0.0deg