

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

[Date ] 2025. 1. 7 [Approx hour] 14.9  
 [Star ] Tycho2 4383-01128-1 VMag=10.21  
 RMag=9.87  
 [Asteroid ] (137805)1999 YK5 16.87 mag.  
 Aten [NEO] Dia=2.71km

[Observer ] 1: Takeshi Nemoto 2:  
 [Location ] Oyama,Tochigi, JPN  
 [Longitude ] 139o45'49.9" E  
 [Latitude ] 36o16'49.7" N  
 [Altitude ] 21m  
 [Datum ] WGS84

[Event time] D: 14h55m13.392s +/- 0.004s (UTC)  
 S/N=7.85

R: 14h55m13.528s +/- 0.004s (UTC)

S/N=7.62

[Predicted Time error] 0.383 sec [RUWE] 1.15

[Recorded ] From 14h53m40s

To 14h56m41s

[Mag. drop ] D: Measured: Mag Drop (measured) :  
 2.58 Mag. ; Predicted: Mag Drop (predicted): 6.7  
 Mag.

R: Measured: Mag Drop (measured) : 2.55  
 Mag. ; Predicted: Mag Drop (predicted): 6.7 Mag.

[Telescope ] Aperture: 25cm Type: Newtonian F=2.0  
 [Camera ] Analog or Digital video , Model=  
 ASI290MM

[Exposure ] Set: 32.2msec, Measure: 32.2msec

[Setting ] Area: 968x548 ; Binning=2

Gain: 410 ; Brightness: 125 ; High Speed

Mode: Off

[Time keep ] GPS ; Model: GT902MGG

[Evidence ] GPS Time Log : Recorded ; Screen shot:  
 Recorded

[Condition ] Stability: Slight flickering Transparency:  
 Clear

[Remarks ]

[Additional comment]

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<Observations>

<Event>

<Date>2025|1|7|14.9</Date>

<Details>

<Star>Tycho2|4383-01128-1|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>137805|1999 YK5|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|Takeshi Nemoto|0|Oyama,Tochigi|JPN|

+139 45 49.9|+36 16 49.7|21| |25|2|aja</ID>

<Conditions>2|1|7.73|</Conditions>

<D>14 55 13.392|D|0.004||| </D>

<R>14 55 13.528|R|0.004||| </R>

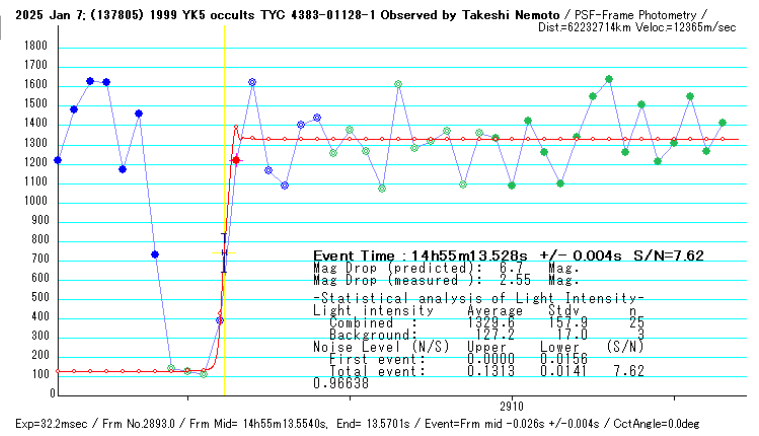
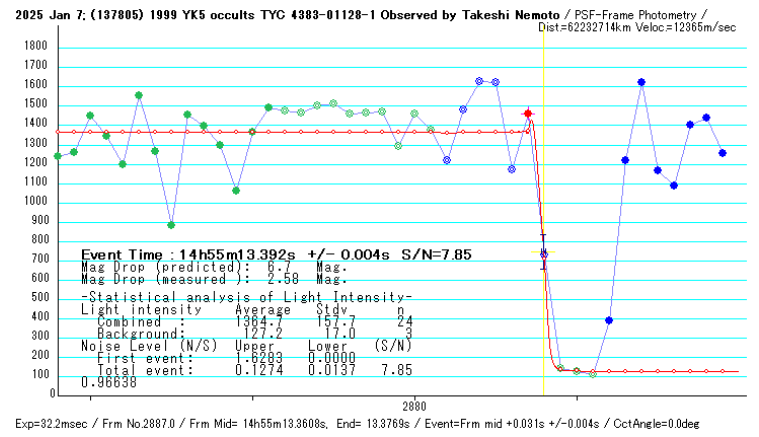
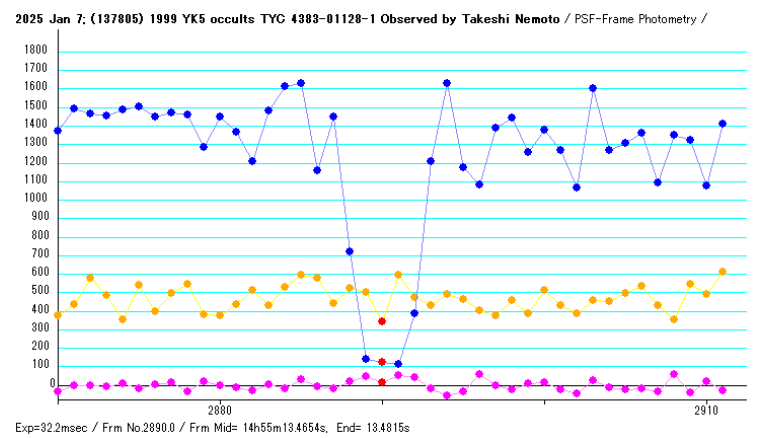
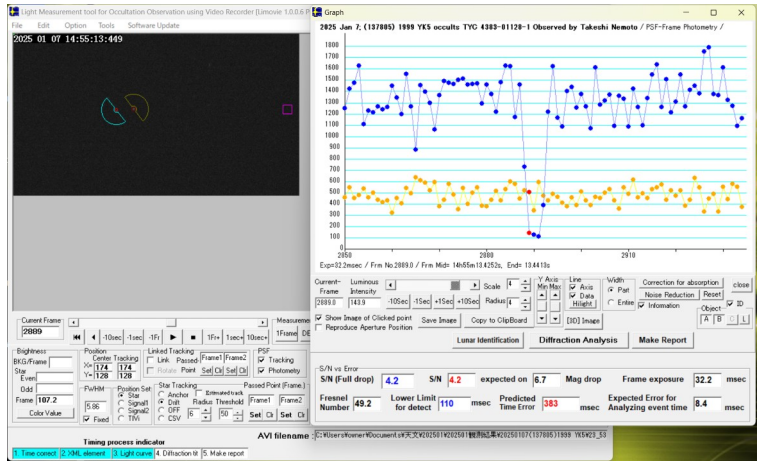
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<LastEdited>2023|7|17</LastEdited>

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Text-based Light curve  
(137805)\_20250107\_145512\_Takeshi\_Nemoto.dat

Date: 2025-1-7 14:55:12.20: 2.71: 85  
Star: 0: 0: 0: 4383-01128-1: 0-0  
Observer: +139:45:49.9: +36:16:49.7: 21: Takeshi Nemoto  
Object: Asteroid: 137805: 1999 YK5  
Values:1424:1475:1627:1106:1231:1211:1268:1238:1261:1450  
:1344:1196:1556:1268:884:1455:1395:1298:1060:1367:1493:1  
478:1465:1502:1515:1462:1467:1472:1293:1459:1375:1217:1  
480:1628:1624:1170:1462:729:144:128:110:389:1220:1623:11  
68:1089:1401:1439:1253:  
1375:1264:1074:1614:1280:1318:1371:1092:1359:1332:1087:  
1422:1260:1099:1339:1547:1638:1259:1506:1214:1306:1552:  
1267:1412:1450:1380:1755:1791:1378:1365:1614:1321:1273:  
1092:1161:1337