

(1957)Angara occults Tycho2 2441-00134-1

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

[Date] 2025.11.30 [Approx hour] 17.9
[Star] Tycho2 2441-00134-1 VMag=9.86 RMag=9.20
[Asteroid] (1957)Angara 16.40 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] D: 17h53m27.972s +/- 0.005s (UTC) S/N=15.08 Ctt=45.1
R: 17h53m29.411s +/- 0.006s (UTC) S/N=11.71 Ctt=36.1
[Predicted Time error] 0.269 sec [RUWE] 1.70

[Recorded] From 17h53m0s
To 17h54m0s

[Mag. drop] D: Measured: Mag Drop (measured): 4.15 Mag. ; Predicted:
Mag Drop (predicted): 6.5 Mag.
R: Measured: Mag Drop (measured): 4.11 Mag. ; Predicted:
Mag Drop (predicted): 6.5 Mag.

[Telescope] Aperture: 40cm Type: Classical Cassegrain
F=2.6 (Reducer x0.26)

[Camera] Analog or Digital video , Model= ASI290MM

[Exposure] Set: 20.8msec, Measure: 20.8msec

[Setting] Area: 1936x800 ; Binning=2
Gain: 340 ; Brightness: 75 ; High Speed Mode: Off

[Time keep] GPS ; Model: GT502MGG(PPSPUcorrection -0.0065189s)

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

[Condition] Stability: Strong flickering Transparency: Clear

[Remarks] In the prediction, the observation point was near the southern
limit of the occultation area, but based on Durations Max, the asteroid's shadow
appears to have passed southward.

[Additional comment]

Capture : ZWO ASI290MM imaging data to PC using SharpCap4.1.13800.0

Photometry analysis : Analyzed with software.limovie1.0.1.8 Pneuma

Photometry method : PSF photometry

(Sharp4.1 ON,Tracking ON, Star's Angular Diameter=ON)

Data Release Site

https://drive.google.com/drive/folders/1fdeZryE3EZnyDOZOu6OgNdOaGQ
TjY5_H?usp=sharing

<Observations>

<Event>

<Date>2025|11|30|17.9</Date>

<Details>

<Star>Tycho2|2441-00134-

1|0||0.000000000|0.000000000|0.00|0.00|0.00|0|0.00000000|0.0000000|25.
00|25.00|25.00|0</Star>

<Asteroid>1957|Angara|0.00000000|0.00000000|0.0000000|0.0000000|0.000
0000|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|13.39||In the prediction, the observation point was
near the southern limit of the occultation area, but based on Durations Max, the
asteroid's shadow appears to have passed southward.</Conditions>

<D>17 53 27.972|D|0.005||| </D>

<R>17 53 29.411|R|0.006||| </R>

</Observer>

</Observations>

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

</Event>

</Observations>

Text-based Light curve

(1957)_20251130_175327_Katsuhiko_Kitazaki.dat

Date: 2025-11-30 17:53:26.98: 3.52: 170

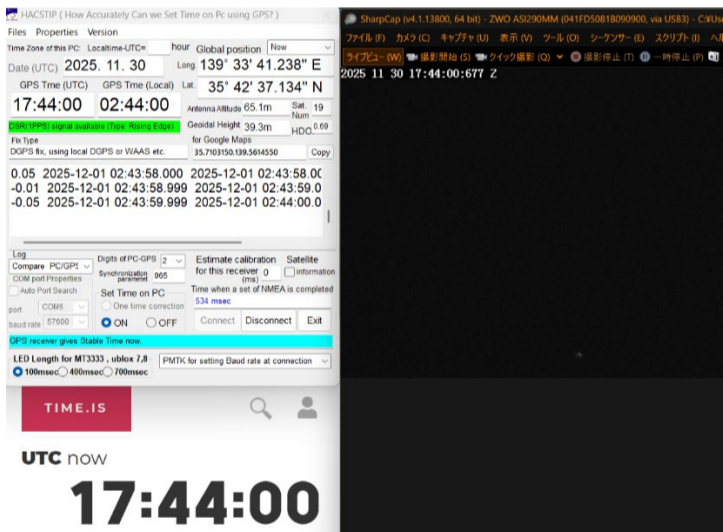
Star: 0: 0: 0: 0: 2441-00134-1: 0-0

Observer: +139:33:41.2: +35:42:37.0: 66: Katsuhiko Kitazaki

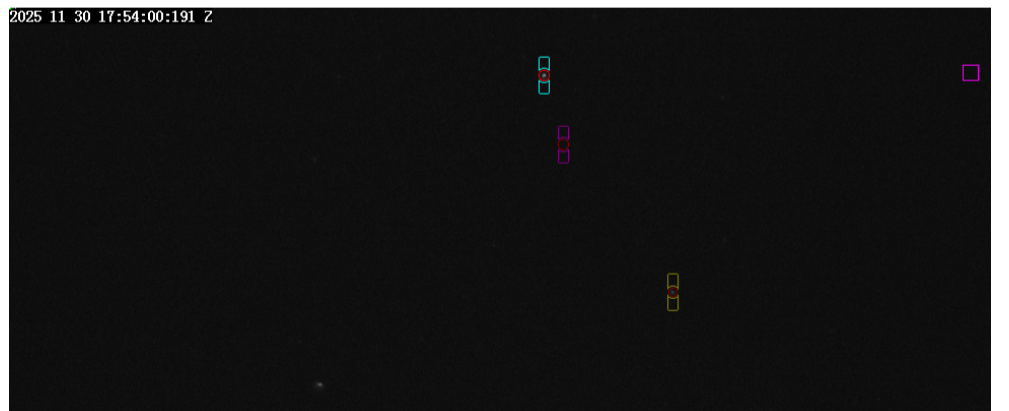
Object: Asteroid: 1957: Angara

Values:1543:1469:1522:1404:1476:1426:1653:1428:1404:1449:1480:1443:1428
:1442:1426:1424:1548:1545:1539:1414:1382:1437:1280:1386:1555:1284:1274:
1580:1321:1328:1382:1527:1346:1485:1530:1259:1304:1388:1336:1407:1376:1
683:1604:1479:1448:1751:1595:792:352:
152:43:30:7:27:3:28:47:40:32:38:40:40:22:23:33:21:55:34:4:37:15:5:49:29:38:3
1:36:38:37:22:31:28:28:42:51:34:21:52:51:44:52:13:34:18:13:10:48:29:15:
29:34:48:30:30:37:29:17:26:17:28:35:43:48:44:37:39:101:309:1174:1771:1451:
1312:1341:1525:1606:1494:1224:1394:1276:1202:1340:1277:1103:1436:1416:1
155:1257:1174:1373:1252:1290:1351:1516:1241:1253:1433:1341:1385:1264:
1344:1164:1409:1434:1201:1367:1460:1434:1416:1428:1182:1278:1314:1344:1
268:1347:1332:1334:1288:1164:1320

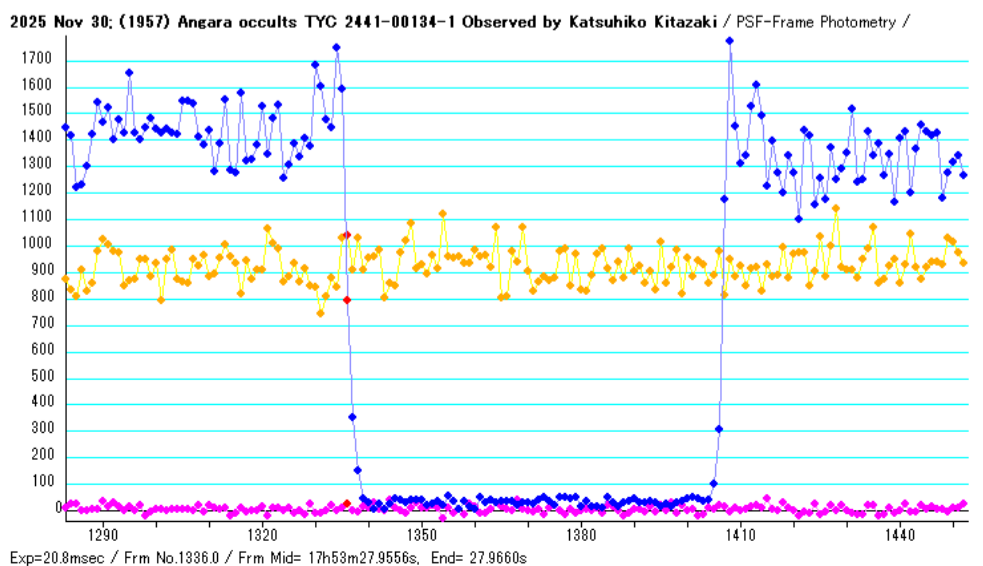
UTC Time Evidence



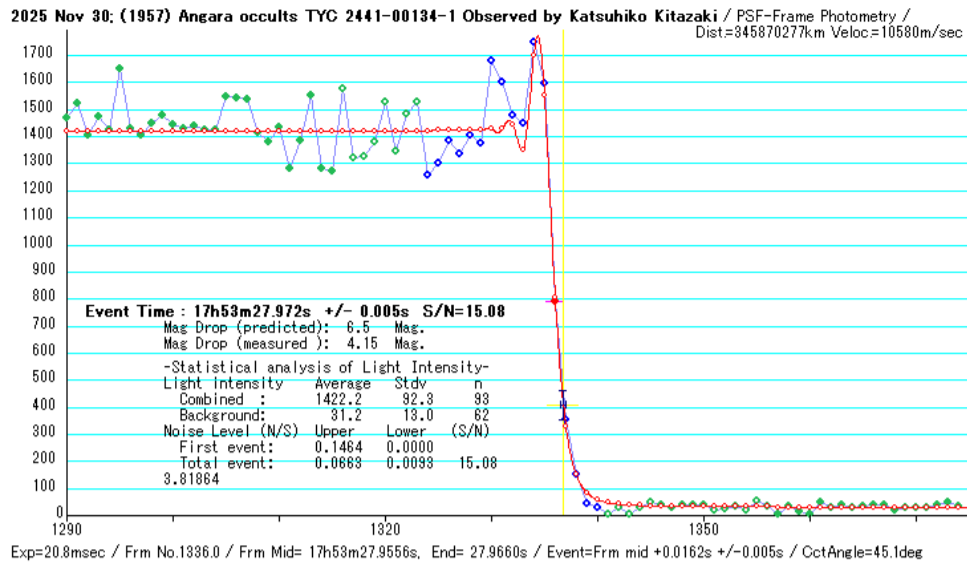
Target Star Position (Target star = Blue, Comparison star = Yellow, Pink =
Background metering)



Light curve (Target star = Blue line, Target star = Yellow line)



Time analysis of disappearance



Time analysis of reappearance

