

(306)Unitas occults Tycho2 0852-01122-1

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

[Date ] 2025. 3.19 [Approx hour] 14.6
[Star ] Tycho2 0852-01122-1 VMag=9.76 RMag=9.36
[Asteroid ] (306)Unitas 12.55 mag.

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

[Predicted Time error] 0.317 sec [RUWE] 0.95

[Recorded ] From 14h38m0s
To 14h33m33s

[Mag. drop ] D: Measured: ; Predicted:
R: Measured: ; Predicted:

[Telescope ] Aperture: 40cm Type: Classical Cassegrain F=2.5
[Camera ] Analog or Digital video , Model= ASI290MM
[Exposure ] Set: 20.8msec, Measure: 20.8msec
[Setting ] Area: 1936x600 ; Binning=2
Gain: 310 ; Brightness: 70 ; High Speed Mode: Off
[Time keep ] GPS ; Model: GHS-OSD(PPSPUcorrection -0.0068731s)
[Evidence ] GPS Time Log : Recorded ; Screen shot: Recorded

[Condition ] Stability: Slight flickering Transparency: Clear
[Remarks ] The probability of prediction in Occult4 was 100%, but there was miss.

[Additional comment]
Capture : ZWO ASI290MM imaging data to PC using SharpCap4.1.13193.0
Photometry analysis : Analyzed with software.limovie1.0.1.2 Pneuma
Photometry method : PSF photometry
(Sharp4.1 ON,Tracking ON, Linked Tracking=OFF, Star's Angular Diameter=ON)
Data Release Site
https://drive.google.com/drive/folders/1GZpcqbYpN\_LqVWuEU8dcpTTIoukSB7k5?usp=sharing

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</Observations>

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<Date>2025|3|19|14.6</Date>
<Details>
<Star>Tycho2|0852-01122-1|0||0.000000000|0.000000000|0.00|0.00|0.00|0|0.00000000|0.00000000|25.00|25.00|25.00|0</Star>

<Asteroid>306|Unitas|0.00000000|0.00000000|0.00000000|0.00000000|0.0000
000|0.00000000|1.00000|0.00000|0.0|1.0|20.00</Asteroid>
</Details>

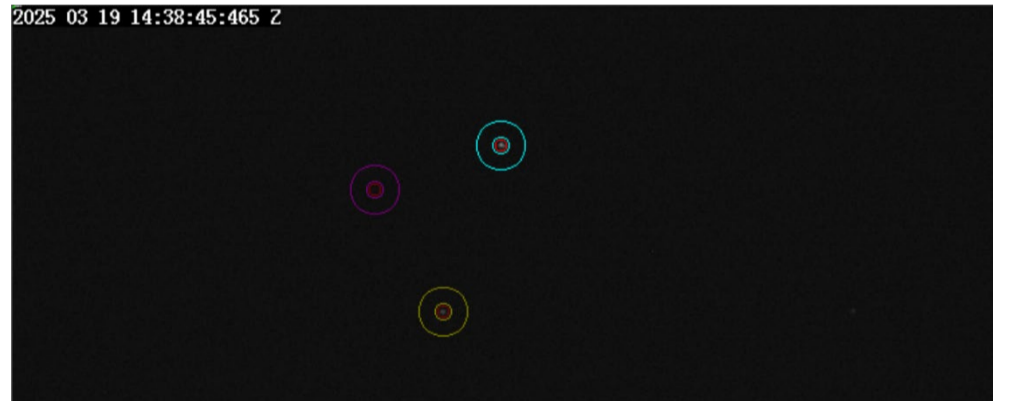
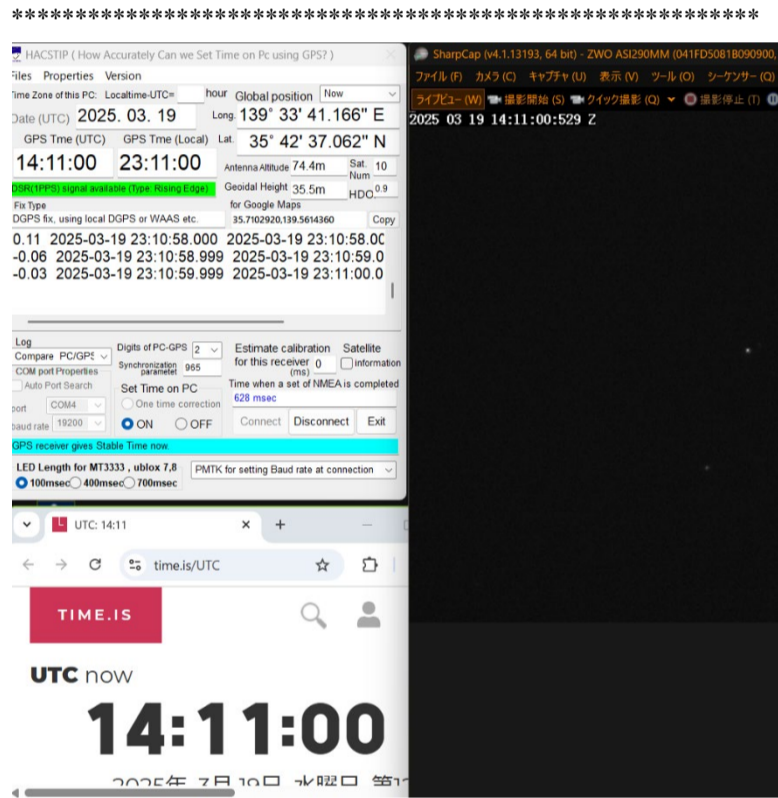
<Observations>
<Observer>
<ID>1|Katsuhiko Kitazaki||0|Musasino, Tokyo|JPN|+139 33 41.2|+35 42 37.0|66| 40|6|a|a</ID>
<Conditions>2|1|||The probability of prediction in Occult4 was 100%, but there was no Mag drop.</Conditions>
<D>14 38 45.5|M||| </D>
<R>14 38 45.5|M||| </R>
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<LastEdited>2023|7|17</LastEdited>
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Text-based Light curve
(306)\_20250319\_143843\_Katsuhiko\_Kitazaki.dat

Date: 2025-3-19 14:38:43.83: 3.51: 170
Star: 0: 0: 0: 0: 0852-01122-1: 0-0
Observer: +139:33:41.2: +35:42:37.0: 66: Katsuhiko Kitazaki
Object: Asteroid: 306: Unitas
Values:1239:1322:1213:1273:1266:1440:1353:1527:1281:1254:1368:1317:1359:1411:1335:1229:1465:1371:1268:1372:1349:1435:1476:1421:1415:1462:1449:1299:1361:1244:1324:1216:1364:1240:1378:1318:1354:1238:1286:1401:1212:1395:1276:1303:1346:1250:1072:1272:1260:1325:1353:1316:1457:1285:1261:1300:1366:1293:1168:1382:1394:1298:1321:1323:1328:1148:1146:1221:1406:1420:1410:1224:1220:1295:1308:1338:1534:1380:1237:1055:1310:1338:1057:1317:1295:1310:1067:1224:1390:1419:1339:1226:1208:1250:1173:1262:1427:1447:1206:1323:1270:1282:1083:1435:1520:1289:1354:1320:1368:1371:1265:1252:1226:1321:1313:1400:1366:1625:1430:1381:1202:1243:1125:1325:1302:1443:1307:138:1156:1119:1418:1351:1284:1216:1302:1122:1334:1412:1396:1246:1376:1252:1344:1163:1322:1198:1190:1194:1211:1444:1380:1181:1123:1137:1109:1283:1276:1430:1551:1342:1324:1492:1387:1297:1287:1210:1503:1427:1333:1268



South and north, east and west are reversed

