

(34704)2001 OS80 occults UCAC4 310-104284

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

[Date] 2025. 7.26 [Approx hour] 14.5
[Star] UCAC4 310-104284 VMag=11.65 RMag=10.65
[Asteroid] (34704)2001 OS80 17.65 mag.

[Observer] 1: Katsuhiko Kitazaki 2: Hiroshi Yoshiyama
[Location] Yamanouchimachi, Shimotakaigun · Nagano , JP
[Longitude] 138o30'9.7" E
[Latitude] 36o43'32.3" N
[Altitude] 1528m
[Datum] WGS84

[Event time] D: 14h33m32.410s +/- 0.129s (UTC) S/N=2.52
R: 14h33m33.021s +/- 0.106s (UTC) S/N=2.73
[Predicted Time error] 0.157 sec [RUWE] 1.30

[Recorded] From 14h33m00s
To 14h34m00s

[Mag. drop] D: Measured: Mag Drop (measured): 2.53 Mag. ; Predicted:
Mag Drop (predicted): 6.0 Mag.
R: Measured: Mag Drop (measured): 2.52 Mag. ; Predicted:
Mag Drop (predicted): 6.0 Mag.

[Telescope] Aperture: 28cm Type: SCT F=2.8
[Camera] Analog or Digital video , Model= ASI290MM
[Exposure] Set: 165.0msec, Measure: 165msec
[Setting] Area: 1936x800 ; Binning=2
Gain: 450 ; Brightness: 200 ; High Speed Mode: Off
[Time keep] GPS ; Model: GT502MGG
[Evidence] GPS Time Log : Recorded ; Screen shot: Recorded

[Condition] Stability: Strong flickering Transparency: Clear
[Remarks] The altitude was low at 16 d, so it was very strong flickering,
and atmospheric extinction was also large. This resulted in very low S/N and just
under the limit.

[Additional comment]
Capture : ZWO ASI290MM imaging data to PC using
SharpCapSharpCap4.1.13193.0
Photometry analysis : Analyzed with software.limovie1.0.1.8 Pnuma
Photometry method : PSF photometry or Aperture photometry
(Sharp4.1=ON,Tracking, Linked Tracking, Star's Angular Diameter)
Data Release Site
https://drive.google.com/drive/folders/1DUcFZx9jr6_hUablwprcQ-
Gm_IagrksC?usp=sharing

<Observations>

<Event>
<Date>2025|7|26|14.5</Date>
<Details>
<Star>UCAC4|310-
104284|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>34704|2001
OS80|0.00000000|0.00000000|0.0000000|0.0000000|0.0000000|0.0000000|1.
00000|0.00000|0.0|1.0|20.00</Asteroid>
</Details>
<Observations>
<Observer>
<ID>1|Katsuhiko Kitazaki|Hiroshi Yoshiyama|0|Yamanouchimachi,
Shimotakaigun · Nagano |JP|+138 30 9.7|+36 43 32.3|1528| |28|3|a|a</ID>
<Conditions>3|1|2.63||The altitude was low at 16 d, so it was very
strong flickering, and atmospheric extinction was also large. This resulted in
very low S/N and just under the limit.</Conditions>

<D>14 33 32.410|D|0.129||| </D>

<R>14 33 33.021|R|0.106||| </R>

</Observer>

</Observations>

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

</Event>

</Observations>

Text-based Light curve

(34704)_20250726_143326_Katsuhiko_Kitazaki.dat

Date: 2025-7-26 14:33:26.06: 13.86: 85

Star: 0: 0: 0: 0: 0-0-0: 310-104284

Observer: +138:30:9.7: +36:43:32.3: 1528: Katsuhiko Kitazaki

Object: Asteroid: 34704: 2001 OS80

Values:1607:1063:578:956:1440:689:475:1026:1157:538:1404:1682:1196:636:8
72:516:938:547:624:906:558:781:600:658:589:738:777:1046:534:1227:914:918:
435:494:674:798:2366:1099:824:62:125:66:298:791:893:1086:880:1157:857:
793:851:775:1189:678:876:784:980:435:934:449:678:861:927:897:853:346:696:
805:683:872:833:866:1063:794:726:848:1126:857:843:932:859:718:473:386:64
3



HACSTIP (How Accurately Can we Set Time on Pc using GPS?)

Files Properties Version

Time Zone of this PC: Localtime-UTC= hour Global position Now

Date (UTC) 2025. 07. 26 Long 138° 30' 9.672" E

GPS Time (UTC) 14:57:00 GPS Time (Local) 23:57:00 Lat. 36° 43' 32.310" N

Antenna Altitude 1538.5m Sat. Num 20
Geoidal Height 37.7m HDOP 0.88
for Google Maps 36.7256417,138.5026867 Copy

Fix Type DGPS fix, using local DGPS or WAAS etc.

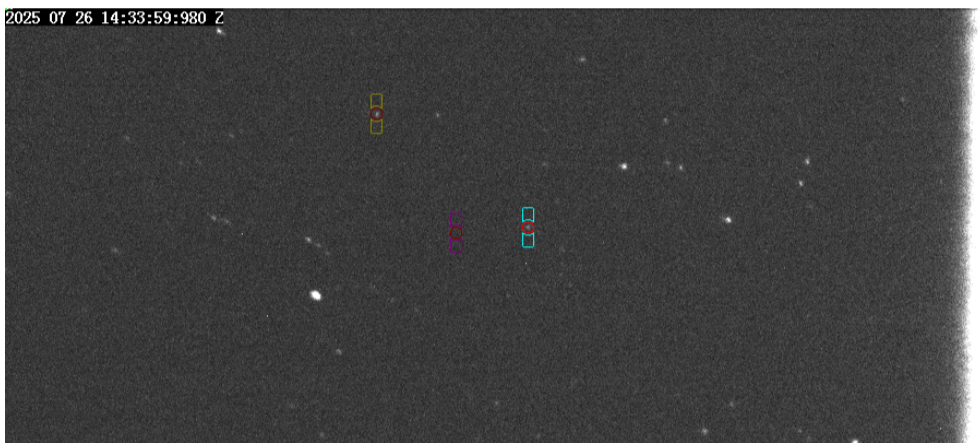
Log
Compare PC/GPS Digits of PC-GPS 2 Estimate calibration Satellite for this receiver 0 Information
Synchronization parameter 995
COM port Properties
Auto Port Search Set Time on PC Time when a set of NMEA is completed
port COM5 One time correction 628 msec
baud rate 38400 ON OFF Connect Disconnect Exit

GPS receiver gives Stable Time now

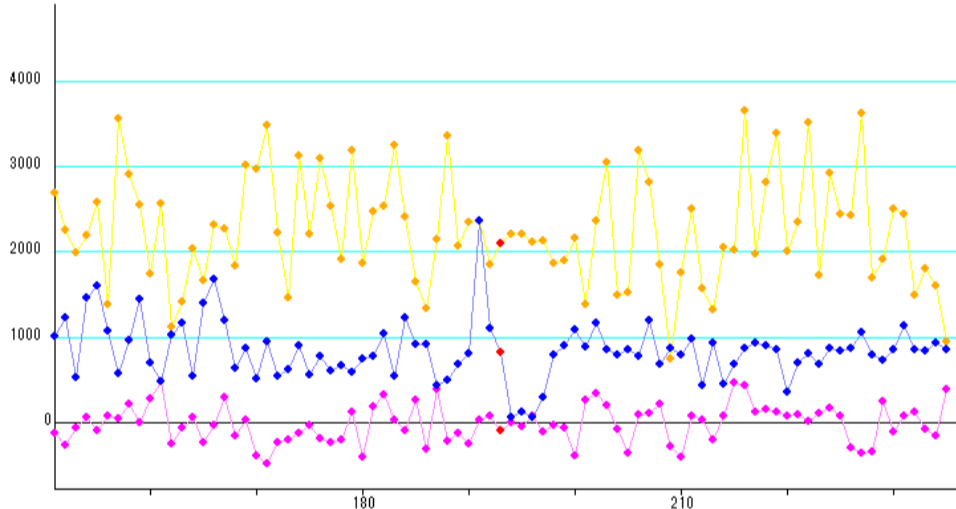
LED Length for MT3333 , ublox 7,8
100msec 400msec 700msec PMTK for setting Baud rate at connection

TIME.IS

UTC now
14:57:00

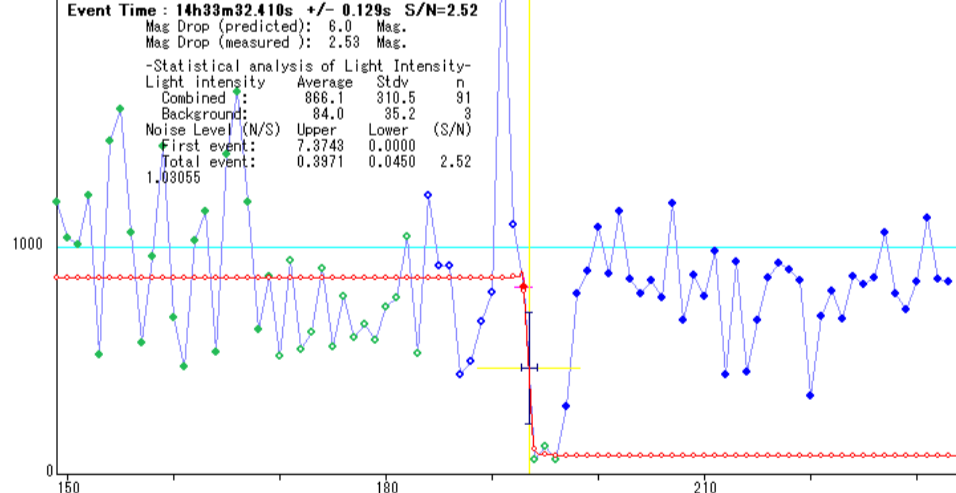


2025 Jul 26; (34704) 2001 OS80 occults UCAC4 310-104284 Observed by Katsuhiko Kitazaki / PSF-Frame Photometry /



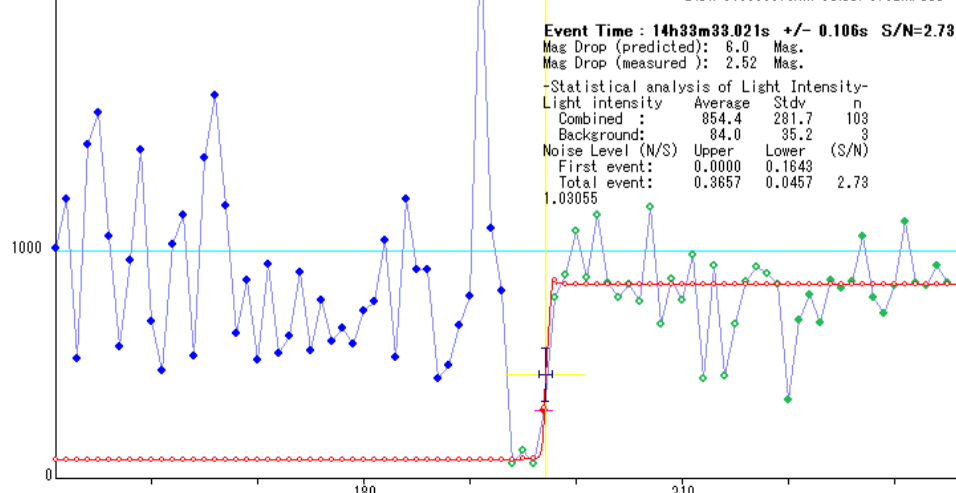
Exp=165msec / Frm No.193.0 / Frm Mid= 14h33m32.3321s, End= 32.4146s

2025 Jul 26; (34704) 2001 OS80 occults UCAC4 310-104284 Observed by Katsuhiko Kitazaki / PSF-Frame Photometry /



Exp=165msec / Frm No.193.0 / Frm Mid= 14h33m32.3321s, End= 32.4146s / Event=Frm mid +0.0776s +/-0.129s / OctAngle=0.0deg

2025 Jul 26; (34704) 2001 OS80 occults UCAC4 310-104284 Observed by Katsuhiko Kitazaki / PSF-Frame Photometry /



Exp=165msec / Frm No.197.0 / Frm Mid= 14h33m32.9922s, End= 33.0747s / Event=Frm mid +0.0287s +/-0.106s / OctAngle=0.0deg