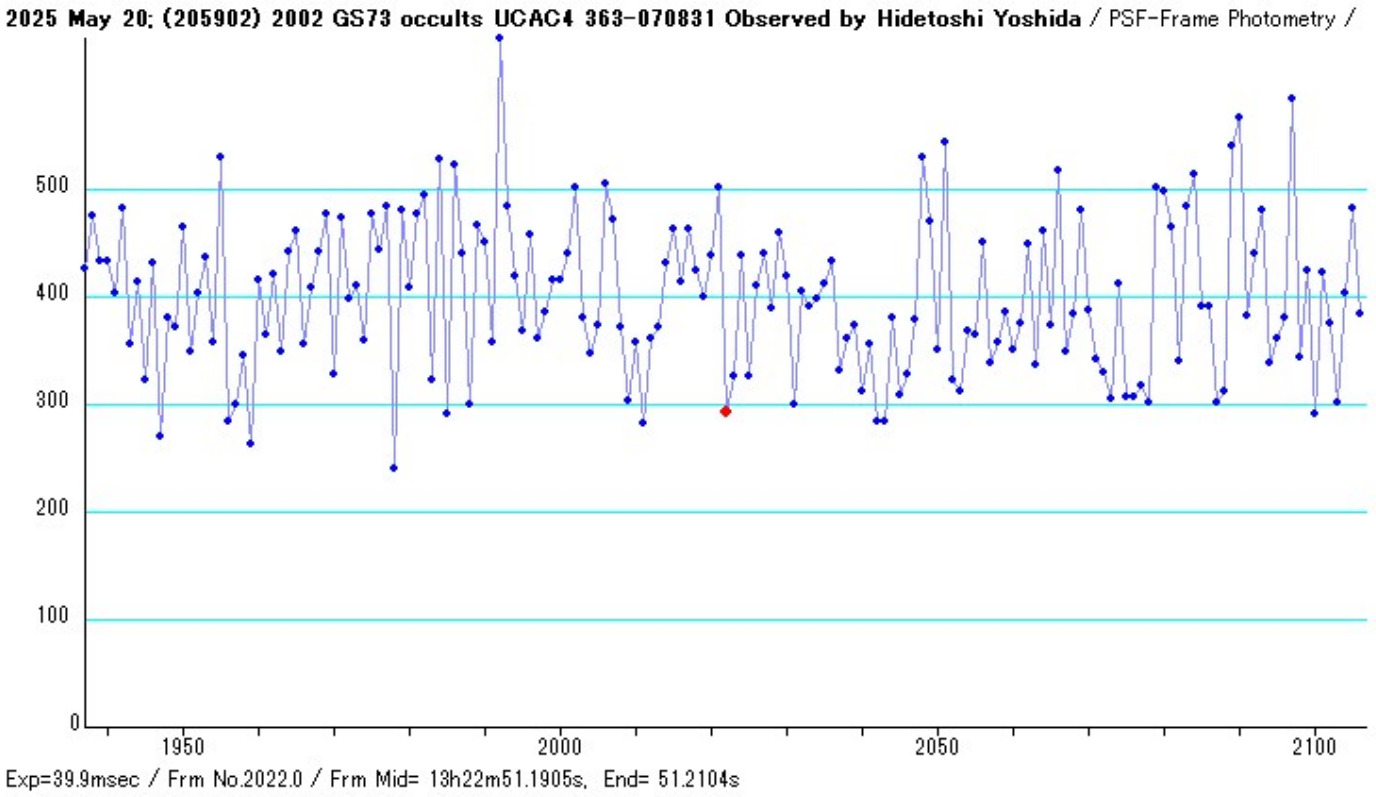
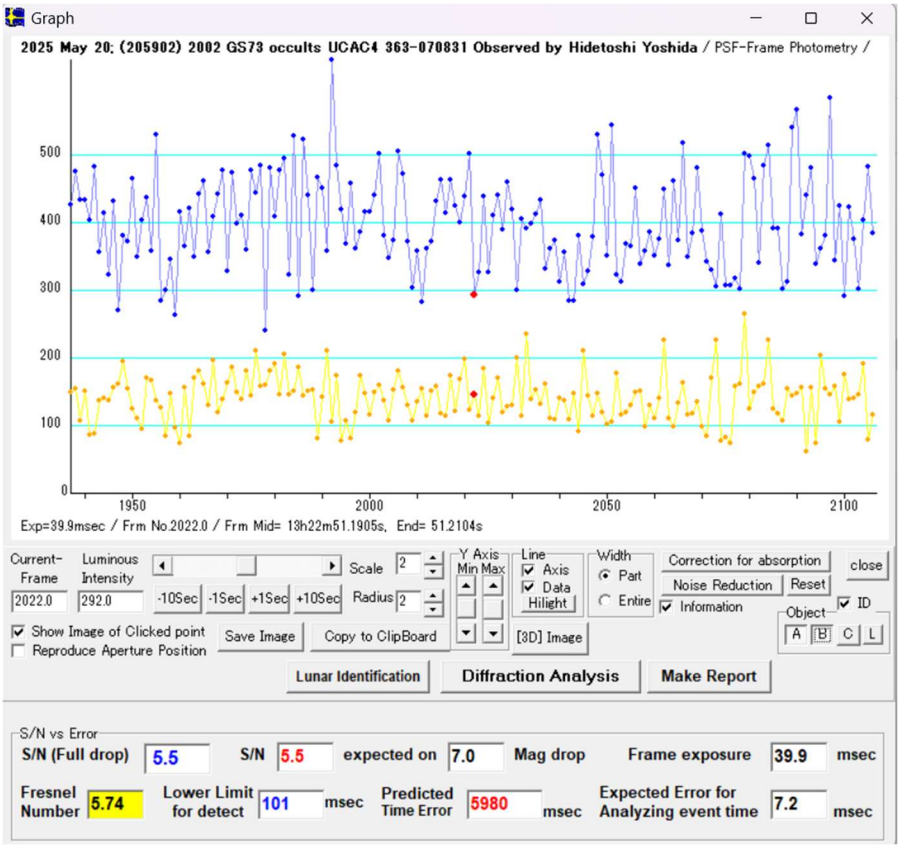
2025 May 20

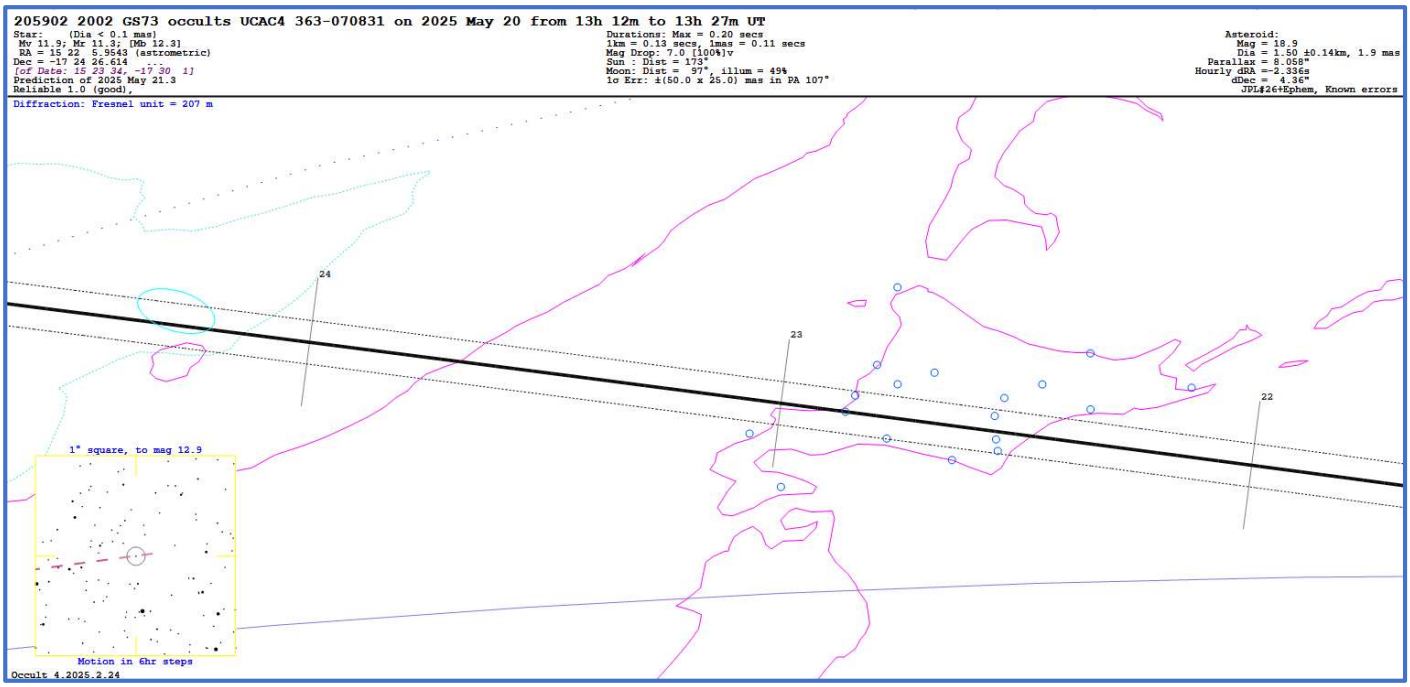
Main-belt Asteroid （205902) 2002 GS73 Occults UCAC4 363-070831

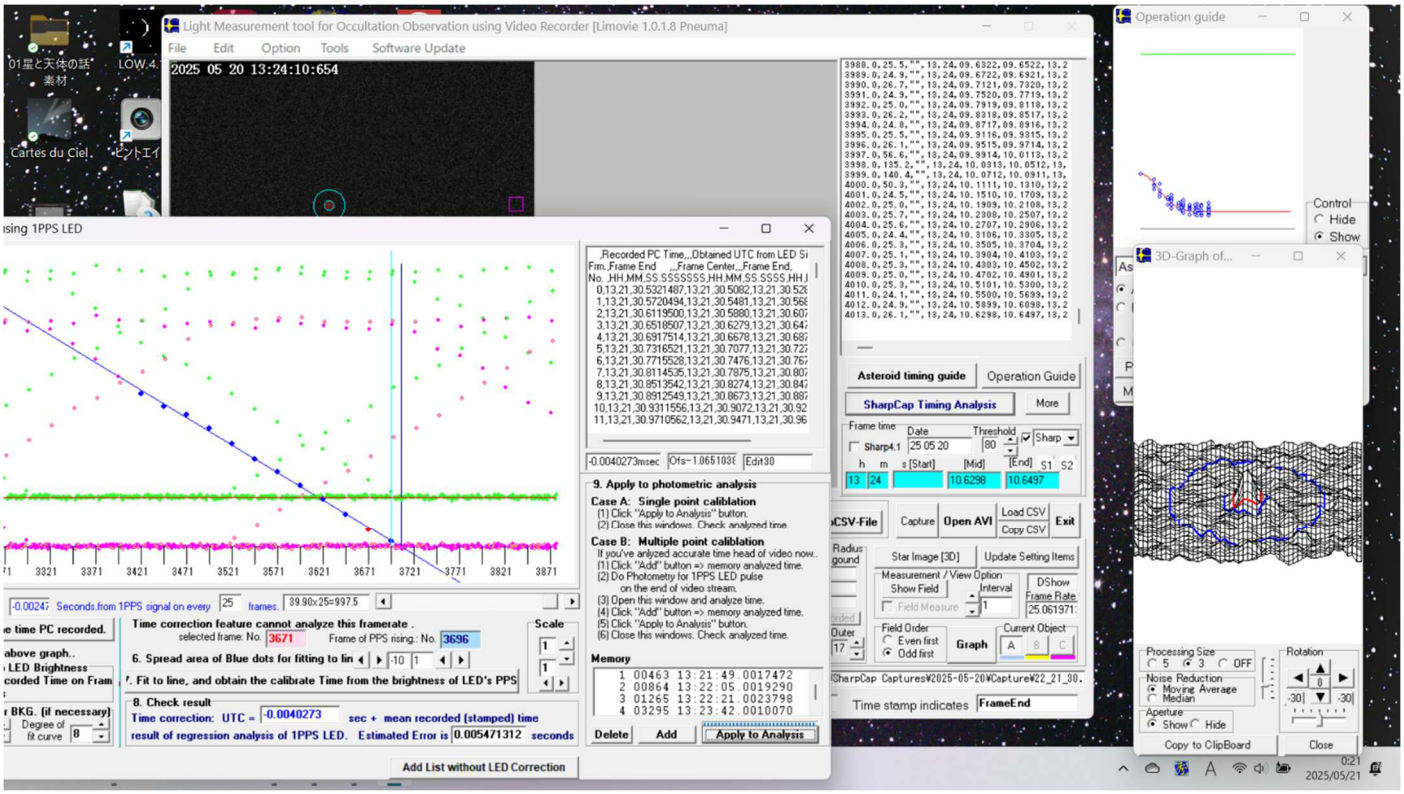
北海道札幌市　吉田秀敏

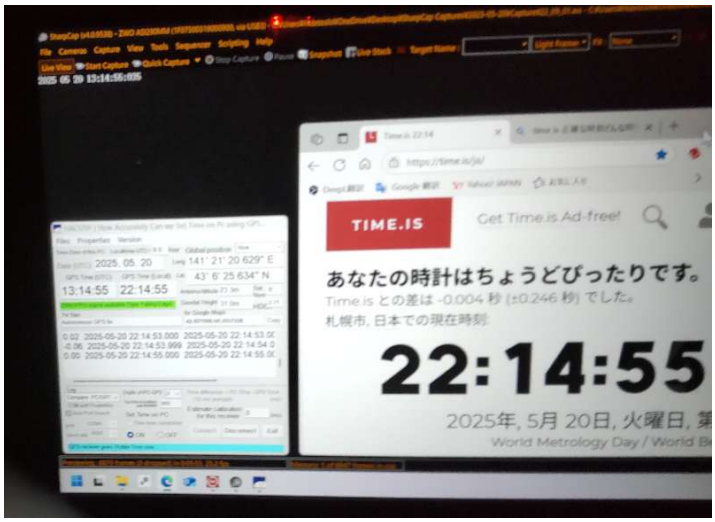




（予報）減光 7.0 等 最長継続時間 0.19 秒　　（観測結果）減光なし（通過）


205902 2002 GS73 occults UCAC4 363-070831 on 2025 May 20 from 13h 12m to 13h 27m UT
Star: (Dia < 0.1 mas)
Mv 11.9; Mr 11.3; [Mb 12.3]
RA = 15 22 5.9543 (astrometric)
Dec = -17 24 26.614
[of Date: 15 23 34, -17 30 1]
Prediction of 2025 May 21.3
Reliable 1.0 (good),
Durations: Max = 0.20 secs
1km = 0.13 secs, 1mas = 0.11 secs
Mag Drop: 7.0 [100%]v
Sun : Dist = 173°
Moon: Dist = 97°, illum = 49%
1σ Err: ±(50.0 x 25.0) mas in PA 107°
Asteroid:
Mag = 18.9
Dia = 1.50 ±0.14km, 1.9 mas
Parallax = 8.058"
Hourly dRA =-2.336s
dDec = 4.36"
JPL#26+Ephem, Known errors
Diffraction: Fresnel unit = 207 m
24
23
22
1° square, to mag 12.9
Motion in 6hr steps
Occult 4.2025.2.24


Light Measurement tool for Occultation Observation using Video Recorder [Limovie 1.0.1.8 Pneuma]
File Edit Option Tools Software Update
2025 05 20 13:24:10:654
Asteroid timing guide
Operation Guide
SharpCap Timing Analysis
More
Capture
Open AVI
Load CSV
Copy CSV
Exit
Star Image [3D]
Update Setting Items
Graph
Delete
Add
Apply to Analysis
Add List without LED Correction
Operation guide
3D-Graph of...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あなたの時計はちょうどぴったりです。
22:14:55
2025年, 5月 20日, 火曜日,

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

[Date] 2025. 5.20 [Approx hour] 13.3
[Star] UCAC4 363-070831 VMag=11.91 RMag=11.33
[Asteroid] (205902)2002 GS73 18.90 mag.
[Observer] 1: Hidetoshi Yoshida 2:
[Location] Sapporo, Hokkaido, JP
[Longitude] 141o21'21.0" E
[Latitude] 43o06'25.5" N
[Altitude] 15m
[Datum] WGS84
[Predicted Time error] 5.980 sec [RUWE] 1.00
[Recorded] From 13h21m31s
To 13h24m11s
[Mag. drop] D: Measured: ; Predicted:
D: Measured: ; Predicted:
[Telescope] Aperture: 30cm Type: SCT F=2.9
[Camera] Analog or Digital video , Model= ASI290MM
[Exposure] Set: 39.9msec, Measure: 39.9msec
[Setting] Area: 800x600 ; Binning=2
Gain: 441 ; Brightness: 0 ; High Speed Mode: On
[Time keep] GPS ; Model: GT902MGG
[Evidence] GPS Time Log : Recorded ; Screen shot: Recorded
[Condition] Stability: Steady Transparency: Clear
[Remarks]