

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

[Date ] 2024. 1.18 [Approx hour] 9.3  
[Star ] UCAC4 513-002054  
[Asteroid ] (428)Monachia

[Observer ] 1: Katsuhiko Kitazaki 2:  
[Location ] Musashino Tokyo, JPN  
[Longitude ] 139o33'41.3" E  
[Latitude ] 35o42'36.9" N  
[Altitude ] 66m  
[Datum ] WGS84

[Event time] D: 09h18m08.724s +/- 0.044s (UTC) S/N=3.08  
R: 09h18m09.744s +/- 0.067s (UTC) S/N=2.58

[Recorded ] From 9h17m1s  
To 9h19m0s

[Mag. drop ] D: Measured: 1.98 ; Predicted: 2.2  
R: Measured: 1.93 ; Predicted: 2.2

[Telescope ] Aperture: 40cm Type: Other F=2.5  
[Camera ] Analog or Digital video , Model= ASI290MM  
[Exposure ] Set: 90.3msec, Measure: 90.3msec  
[Setting ] Area: 1936x400 ; Binning=2  
Gain: 380 ; Brightness: 0 ; High Speed Mode: Off  
[Time keep ] GPS ; Model: GHS-OSD  
[Evidence ] GPS Time Log : Recorded ; Screen shot: Recorded

[Condition ] Stability: Steady Transparency: Thin cloud >2  
[Remarks ] Light clouds passed through and clarity deteriorated. Seeing was stable and the exposure time was 90.3 ms.  
Frame No.759.0 / Frame Centre= 9h18m9.7945s, Frame End= 9.8397s / Event centre=Frame centre -0.050s +/-0.067s / ContactAngle=0.0deg  
[Additional comment]  
As the thin clouds passed, I used "Correction for absorption" in my analysis in Limovie.

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<Observations>

<Event>  
<Date>2024|1|18| 9.3</Date>  
<Details>  
<Star>UCAC4|513-  
002054|0||0.0000000000|0.0000000000|0.00|0.00|0.00|0|0.00000000|0.0000  
000|25.00|25.00|25.00|0</Star>

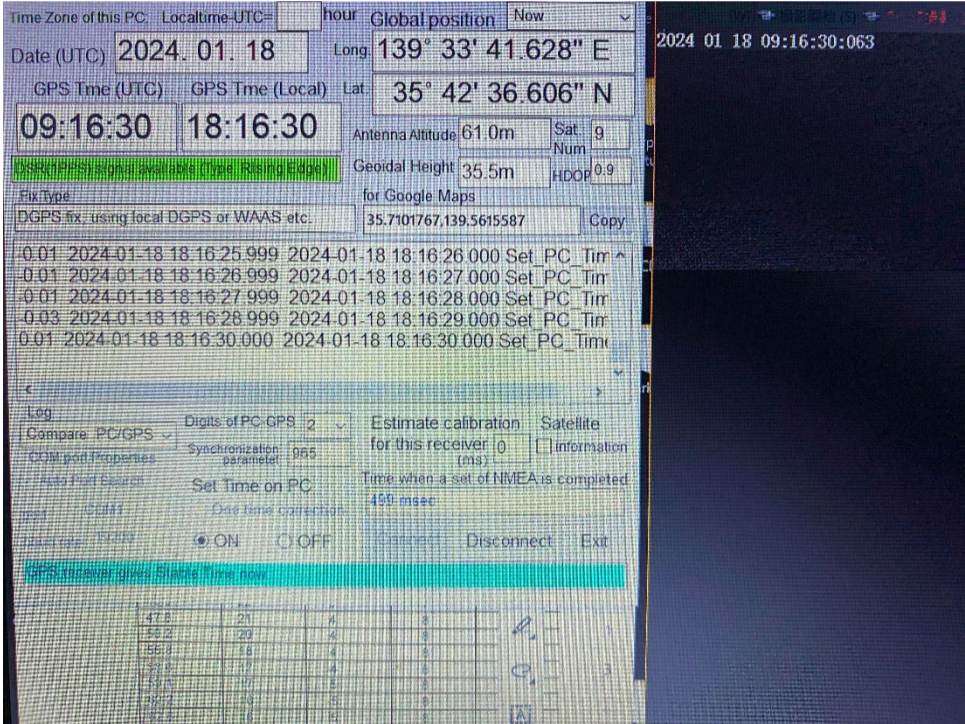
<Asteroid>428|Monachia|0.00000000|0.00000000|0.00000000|0.00000000|0.0  
000000|0.00000000|1.00000|0.00000|0.0|1.0|20.00</Asteroid>

</Details>  
<Observations>  
<Observer>  
<ID>1|Katsuhiko Kitazaki||0|Musashino Tokyo|JPN|+139 33  
41.3|+35 42 36.9|66| 40|6|a|a</ID>  
<Conditions>1|4|2.83||Light clouds passed through and clarity  
deteriorated. Seeing was stable and the exposure time was 90.3  
ms.</Conditions>  
<D> 9 18 8.724|D|0.044||| </D>  
<R> 9 18 9.744|R|0.067||| </R>  
</Observer>  
</Observations>  
<LastEdited>2023|7|17</LastEdited>  
</Event>  
</Observations>

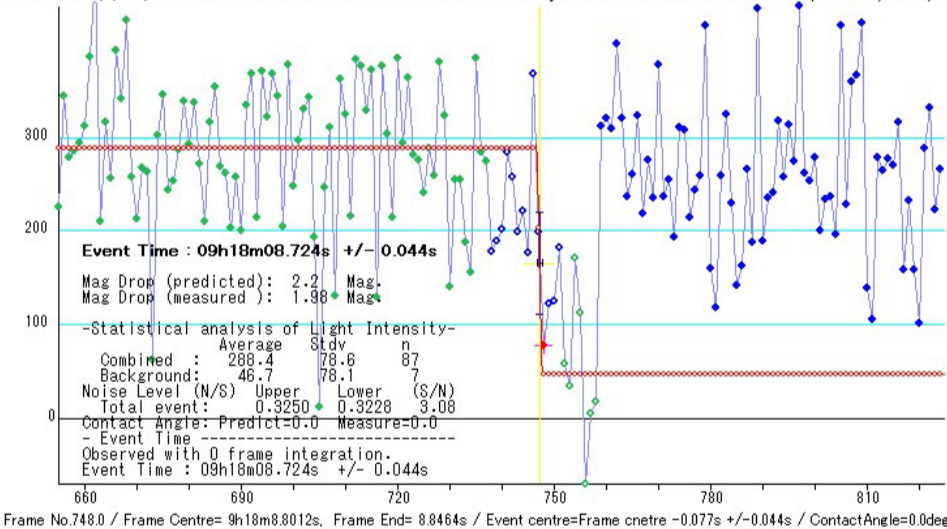
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Text-based Light curve

Date: 2024-1-18 9:18:3.29: 15.26: 170  
Star: 0: 0: 0: 0: 0-0-0: 513-002054  
Observer: +139:33:41.3: +35:42:36.9: 66: Katsuhiko Kitazaki  
Object: Asteroid: 428: Monachia  
Values:262:204:258:200:335:369:215:371:322:369:345:205:378:248:297:330:3  
43:193:12:247:311:131:362:324:216:384:377:330:373:129:377:304:214:385:2  
95:364:282:276:241:288:259:381:324:141:256:256:188:156:385:  
285:275:179:189:203:285:259:199:222:176:368:199:78:122:125:182:58:34:17  
1:113:-  
71:4:17:313:322:310:400:322:237:261:324:220:276:236:378:237:255:194:311:  
308:215:244:260:420:160:118:259:325:230:141:  
163:266:188:439:189:235:241:318:258:314:275:441:262:254:279:200:234:237  
:196:420:229:361:366:423:139:105:279:266:278:270:316:159:232:159:102:28  
9:332:223:267:226:200:313:212:238:314:375:306:193:208:276:  
409:387:264:141:310:223:381:215:127:288:328:346:376:334:176:251:375:205  
:264:263:117



2024 Jan 18: (428) Monachia occults UCAC4 513-002054 Observed by Katsuhiko Kitazaki / PSF-Frame photometry / Object:



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