

[Date ] 2024.1.16 [Approx hour] 15.8

[Star ] UCAC4 593-013224

[Asteroid ] (210)Isabella

[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: 15h19m17.454s +/- 0.018s (UTC) S/N=3.17

R: 15h19m43.970s +/- 0.012s (UTC) S/N=3.85

[Recorded ] From 15h18m0s

To 15h20m30s

[Mag. drop ] D: Measured: 1.06 ; Predicted: 1.2

R: Measured: 1.03 ; Predicted: 1.2

[Telescope ] Aperture: 40cm Type: Other F=2.5

[Camera ] Analog or Digital video , Model= ASI290MM

[Exposure ] Set: 39.9msec, Measure: 39.9msec

[Setting ] Area: 1936x400 ; Binning=2

Gain: 400 ; Brightness: 95 ; High Speed Mode: Off

[Time keep ] GPS ; Model: GHS-OSD

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

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<Observations>

<Event>

<Date>2024|1|16|15.8</Date>

<Details>

<Star>UCAC4|593-013224|0||0.000000000|0.00000000|0.00|0.00|0.00|0|0.00000000|0.0000000|25.00|25.00|25.00|0</Star>

<Asteroid>210|Isabella|0.00000000|0.00000000|0.0000000|0.0000000|0.000000|0.0000000|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>3|1|3.51||Seeing was poor and stars were bloated. The duration of the dimming was long. Asteroids were visible when the star was dimming.</Conditions>

<D>15 19 17.454|D|0.018||| </D>

<R>15 19 43.970|R|0.012||| </R>

</Observer>

</Observations>

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

</Event>  
</Observations>

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Text-based Light curve

Date: 2024-1-16 15:19:41.17: 6.74: 170  
Star: 0: 0: 0: 0: 0-0-0: 593-013224  
Observer: +139:33:41.3: +35:42:36.9: 66: Katsuhiko Kitazaki  
Object: Asteroid: 210: Isabella  
Values:424:881:489:569:775:223:380:599:677:272:397:481:337:671:317:358:513:601:545:516:266:420:762:651:705:523:197:742:444:365:962:372:651:415:655:571:754:424:550:390:481:470:218:535:584:572:641:372:606:435:436:536:225:336:436:726:763:775:460:369:543:568:240:282:501:482:438:516:242:608:386:1135:1049:1527:1343:1506:1503:1152:1182:1016:1118:1280:1345:1207:1675:921:1560:1454:1516:1173:1188:1462:1560:942:1020:1342:1283:1265:1094:1142:1358:1065:1402:1338:1392:1055:841:1006:1465:1368:1442:1264:1569:1408:1346:1124:1083:1240:1365:959:1434:1086:1337:867:1639:1178:1360:980:1415:1100:1131:1232:998:1029:958:1236:1316:1425:1132:1297:1467:1374:1367:1160:1236:1277:1126:1322:1074:1495:1356:1414:1073:1402:1212:1246:1258:1216:983:1542:1248:1300:1649:826:996:1282:1447:1115:1161:1650

2024 Jan 16; (210) Isabella occults UCAC4 593-013224 Observed by Katsuhiko Kitazaki / PSF-Frame photometry / Object: D

Event Time : 15h19m17.454s +/- 0.018s  
Mag Drop (predicted): 1.2 Mag.  
Mag Drop (measured): 1.06 Mag.  
-Statistical analysis of Light Intensity-  
Average Stdv n  
Combined : 1281.1 247.7 90  
Background: 474.6 156.4 47  
Noise Level (N/S) Upper Lower (S/N)  
Total event: 0.3150 0.1989 3.17  
Contact Angle: Predict=0.0 Measure=0.0  
- Event Time  
Observed with 0 frame integration.  
Event Time : 15h19m17.454s +/- 0.018s

Frame No.1937.0 / Frame Centre= 15h19m17.4693s, Frame End= 17.4893s / Event centre=Frame cnetre -0.015s +/-0.018s / ContactAngle=0.0

2024 Jan 16; (210) Isabella occults UCAC4 593-013224 Observed by Katsuhiko Kitazaki / PSF-Frame photometry / Object: D

Event Time : 15h19m43.970s +/- 0.012s  
Mag Drop (predicted): 1.2 Mag.  
Mag Drop (measured): 1.03 Mag.  
-Statistical analysis of Light Intensity-  
Average Stdv n  
Combined : 1255.9 199.8 87  
Background: 486.1 134.1 24  
Noise Level (N/S) Upper Lower (S/N)  
Total event: 0.2595 0.1742 3.85  
Contact Angle: Predict=0.0 Measure=0.0  
- Event Time  
Observed with 0 frame integration.  
Event Time : 15h19m43.970s +/- 0.012s

Frame No.2601.0 / Frame Centre= 15h19m43.9668s, Frame End= 43.9867s / Event centre=Frame cnetre +0.003s +/-0.012s / ContactAngle=0.0