(93601)2000 UR57 occults UCAC4 400-053937

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

[Date] 2025. 4. 6 [Approx hour] 15.6
[Star] UCAC4 400-053937 VMag=11.68 RMag=11.04
[Asteroid] (93601)2000 UR57 20.05 mag.

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

[Event time] D: 15h36m29.776s +/- 0.013s (UTC) S/N=6.23
R: 15h36m29.833s +/- 0.013s (UTC) S/N=6.45
[Predicted Time error] 0.753 sec [RUWE] 1.35

[Recorded] From 15h36m0s
To 15h37m0s

[Mag. drop] D: Measured: Mag Drop (measured): 0.63 Mag. ; Predicted: Mag Drop (predicted): 8.4 Mag. [for fitting]
R: Measured: Mag Drop (measured): 0.65 Mag. ; Predicted: Mag Drop (predicted): 8.4 Mag. [for fitting]

[Telescope] Aperture: 40cm Type: Classical Cassegrain F=2.5 (Reducer ×0.25)
[Camera] Analog or Digital video , Model= ASI290MM
[Exposure] Set: 67.0msec, Measure: 67.0msec
[Setting] Area: 1936x600 ; Binning=2
Gain: 380 ; Brightness: 55 ; High Speed Mode: Off
[Time keep] GPS ; Model: GHS-OSD (PPSPUcorrection -0.0103565s)
[Evidence] GPS Time Log : Recorded ; Screen shot: Recorded

[Condition] Stability: Slight flickering Transparency: Clear
[Remarks] The prediction was a Mag Drop of 8.4 mag with a maximum duration of 0.32 s, while the Mag Drop was Mag 0.63-0.65 with a duration of 0.057 s. It appears to be a glazing Occultation, with a large diffraction effect.

[Additional comment]
Capture : ZWO ASI290MM imaging data to PC using SharpCap4.1.13193.0
Photometry analysis : Analyzed with software.limovie1.0.1.7B Pneuma
Photometry method：PSF photometry
(Sharp4.1 ON,Tracking ON,Linked Tracking=ON,Star's Angular Diameter=ON,Mag drop considered=ON)
Data Release Site

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<Observations>
<Event>
<Date>2025|4|6|15.6</Date>
<Details>
<Star>UCAC4|400-053937|0||0.0000000000|0.000000000|0.00|0.00|0.00|0|0.00000000|0.00000000|25.00|25.00|25.00|0</Star>
<Asteroid>93601|2000 UR57|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||0|Musasino, Tokyo|JP|+139 33 41.2|+35 42 37.0|66| |40|6|a|a</ID>
<Conditions>2|1|6.34||The prediction was a Mag Drop of 8.4 mag with a maximum duration of 0.32 s, while the Mag Drop was Mag 0.63-0.65 with a duration of 0.057 s. It appears to be a glazing Occultation, with a large diffraction effect.</Conditions>
<D>15 36 29.776|D|0.013|| </D>
<R>15 36 29.833|R|0.013|| </R>
</Observer>
</Observations>
<LastEdited>2023|7|17</LastEdited>
</Event>
</Observations>

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Text-based Light curve
(93601)_20250406_153626_Katsuhiko_Kitazaki.dat

Date: 2025-4-6 15:36:26.95: 5.63: 85
Star: 0: 0: 0: 0: 0-0-0: 400-053937
Observer: +139:33:41.2: +35:42:37.0: 66: Katsuhiko Kitazaki
Object: Asteroid: 93601: 2000 UR57
Values:1162:1226:1324:1275:1162:1212:1127:1192:1057:1154:1101:1108:1122:1081:1109:1156:1075:1090:1047:1256:1227:1157:1264:1004:1188:1196:1172:1202:1220:1169:1185:1225:1216:1034:1243:1306:1063:1163:1052:1285:1190:1276:683:632:1123:1137:1147:1231:1303:1041:1199:1142:1161:1176:1255:1116:1260:1102:1182:1088:1076:1053:1266:1064:1142:1199:1207:1298:1180:1199:1136:1122:1085:1022:1290:1181:1214:1204:1176:1282:1288:1158:1247:1063:1119

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