

(19728)1999 XQ14 occults UCAC4 382-100475

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

[Date] 2025.7.2 [Approx hour] 11.7
[Star] UCAC4 382-100475 VMag=12.61 RMag=11.67
[Asteroid] (19728)1999 XQ14 16.24 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: 11h50m40.208s +/- 0.039s (UTC) S/N=3.82
R: 11h50m40.563s +/- 0.036s (UTC) S/N=3.99
[Predicted Time error] 0.152 sec [RUWE] 0.95

[Recorded] From 11h50m0s
To 11h51m10s

[Mag. drop] D: Measured: Mag Drop (measured): 3.27 Mag. ; Predicted:
Mag Drop (predicted): 3.7 Mag.
R: Measured: Mag Drop (measured): 3.28 Mag. ; Predicted:
Mag Drop (predicted): 3.7 Mag.

[Telescope] Aperture: 40cm Type: Other F=2.5
[Camera] Analog or Digital video , Model= ASI290MM
[Exposure] Set: 124.0msec, Measure: 124msec
[Setting] Area: 1936x800 ; Binning=2
Gain: 300 ; Brightness: 0 ; High Speed Mode: Off
[Time keep] GPS ; Model: GT502MGG
[Evidence] GPS Time Log : Recorded ; Screen shot: Recorded

[Condition] Stability: Strong flickering Transparency: Fog
[Remarks] The sky was foggy, and the S/N ratio deteriorated. I increased
the frame exposure time and lowered the gain.

[Additional comment]
Capture : ZWO ASI290MM imaging data to PC using SharpCap4.1.13193.0
Photometry analysis : Analyzed with software.limovie1.0.1.8 Pneuma
Photometry method : PSF photometry / Aperture photometry
(Sharp4.1 ON,Tracking OFF, Linked Tracking=ON, Star's Angular
Diameter=ON,Mag drop considered=OFF)
Data Release Site
https://drive.google.com/drive/folders/1c-
soghWVTkle7IZXiWUxKPPzwe4nOf7?usp=sharing

<Observations>

<Event>
<Date>2025|7|2|11.7</Date>
<Details>
<Star>UCAC4|382-
100475|0||0.000000000|0.000000000|0.00|0.00|0.00|0|0.00000000|0.00000
00|25.00|25.00|25.00|0</Star>
<Asteroid>19728|1999
XQ14|0.00000000|0.00000000|0.00000000|0.00000000|0.00000000|0.00000000|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</ID>
<Conditions>3|2|3.91||The sky was foggy, and the S/N ratio
deteriorated. I increased the frame exposure time and lowered the
gain.</Conditions>
<D>11 50 40.208|D|0.039||| </D>
<R>11 50 40.563|R|0.036||| </R>
</Observer>
</Observations>
<LastEdited>2023|7|17</LastEdited>
</Event>
</Observations>

Text-based Light curve
(19728)_20250702_115035_Katsuhiko_Kitazaki.dat

Date: 2025-7-2 11:50:35.23: 10.42: 85
Star: 0: 0: 0: 0: 0-0-0: 382-100475
Observer: +139:33:41.2: +35:42:37.0: 66: Katsuhiko Kitazaki
Object: Asteroid: 19728: 1999 XQ14
Values:334:268:320:233:221:220:362:424:238:272:283:73:260:340:207:284:201
:343:332:304:140:458:411:295:369:217:301:345:392:301:256:343:293:304:296:
304:292:346:252:248:194:18:11:154:396:260:342:187:238:
253:371:368:408:232:348:264:346:328:256:314:301:264:304:314:451:350:305:1
81:316:211:252:324:374:272:412:379:422:194:234:142:293:213:187:415:284

