

(2329)Orthos occults UCAC4 404-021293

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

[Date] 2025.12.30 [Approx hour] 14.1
[Star] UCAC4 404-021293 VMag=13.60 RMag=13.10
[Asteroid] (2329)Orthos 19.41 mag.

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

[Predicted Time error] 0.359 sec [RUWE] 1.15

[Recorded] From 14h5m6s
To 14h6m10s

[Mag. drop] D: Measured: ; Predicted:
R: Measured: ; Predicted:

[Telescope] Aperture: 40cm Type: Classical Cassegrain
F=2.6 (Reducer x0.26)
[Camera] Analog or Digital video , Model= ASI462MM
[Exposure] Set: 90.3msec, Measure: 90.3msec
[Setting] Area: 1936x600 ; Binning=2
Gain: 430 ; Brightness: 0 ; High Speed Mode: Off
[Time keep] GPS ; Model: GT502MGG (PPSPUcorrection-0.0359524s)
[Evidence] GPS Time Log : Recorded ; Screen shot: Recorded

[Condition] Stability: Strong flickering Transparency: Fog
[Remarks] (2329) Orthos is an asteroid belonging to the Apollo group.This occultation required a frame exposure time of 0.105 seconds or less. Furthermore, the sky was not clear, resulting in poor imaging of the target star. Since there was no magnitude drop in the light curve, it was a miss.

[Additional comment]

Capture : ZWO ASI462MM imaging data to PC using SharpCap4.1.14013.0
Photometry analysis : Analyzed with software.limovie1.0.1.8 Pneuma
Photometry method : PSF photometry (Sharp4.1 ON)
Data Release Site
https://drive.google.com/drive/folders/1etk58f9B_6J5d5AZyITZ3b-qJfQKTRYa?usp=sharing

<Observations>

<Event>

<Date>2025|12|30|14.1</Date>

<Details>

<Star>UCAC4|404-021293|0|0.000000000|0.00000000|0.00|0.00|0.00|0|0.00000000|0.00000000|25.00|25.00|25.00|0</Star>

<Asteroid>2329|Orthos|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|Musashino, Tokyo|JP|+139 33 41.2|+35 42 37.0|66| |40|6|a|a</ID>

<Conditions>3|2|||This occultation required a frame exposure time of 0.105 seconds or less. Furthermore, the sky was not clear, resulting in poor imaging of the target star. Since there was no magnitude drop in the light curve, it was a miss.</Conditions>

<D>14 5 42.9|M|||</D>

<R>14 5 42.9|M|||</R>

</Observer>

</Observations>

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

</Event>

</Observations>

Text-based Light curve

(2329)_20251230_140527_Katsuhiko_Kitazaki.dat

Date: 2025-12-30 14:5:27.79: 30.62: 340

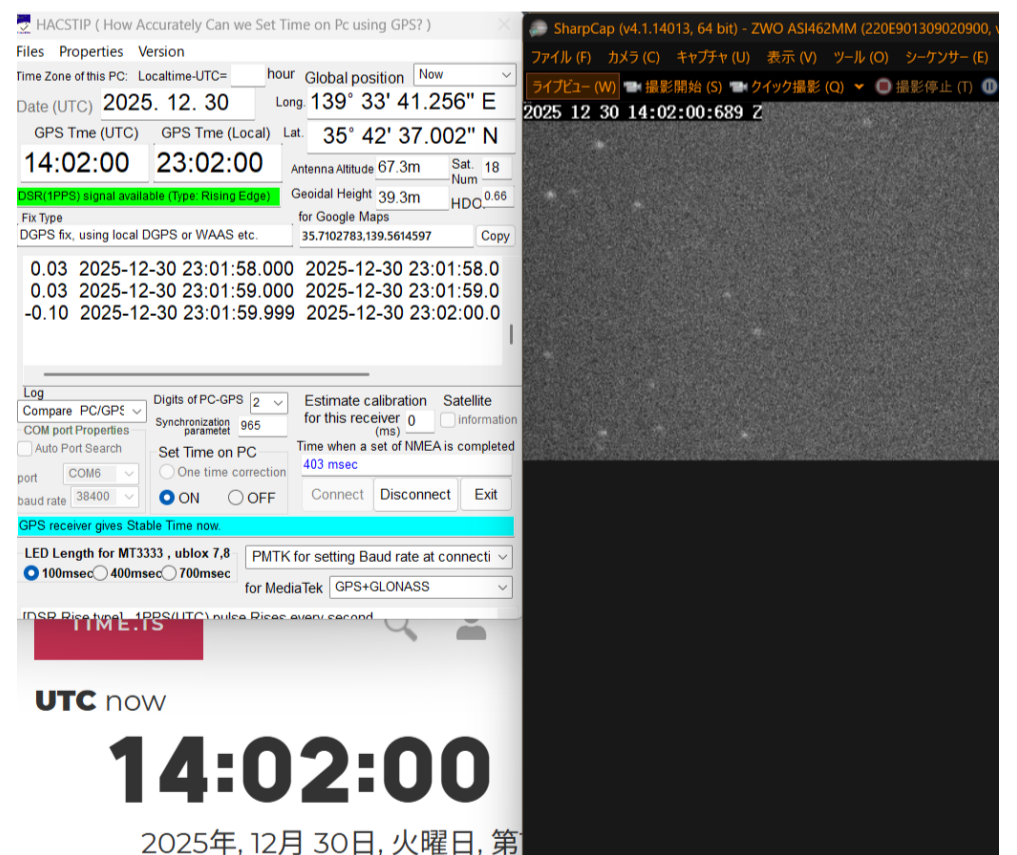
Star: 0: 0: 0: 0: 0-0-0: 404-021293

Observer: +139:33:41.2: +35:42:37.0: 66: Katsuhiko Kitazaki

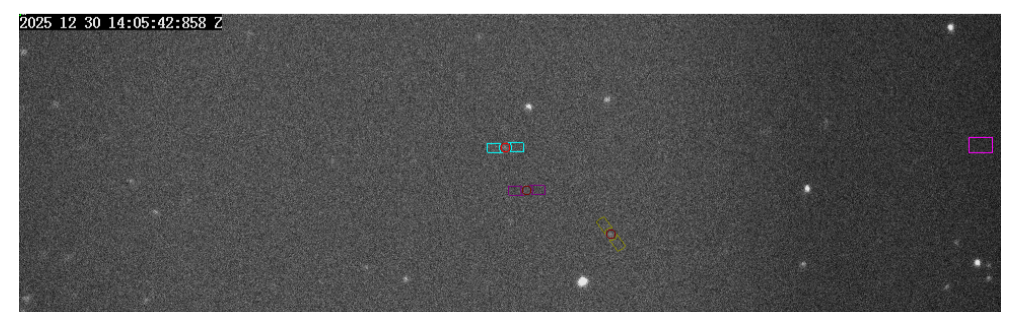
Object: Asteroid: 2329: Orthos

Values:651:376:630:532:727:740:664:769:762:643:763:757:623:581:775:624:47
6:666:537:798:698:812:608:585:788:563:839:771:723:773:519:734:630:527:616
:641:809:675:669:654:810:680:647:757:518:764:715:662:492:
782:792:663:562:651:646:789:611:641:664:598:884:574:600:568:467:640:647:6
37:553:654:649:770:640:875:839:508:730:795:559:496:725:813:714:788:827:75
9:779:720:547:495:731:454:464:720:569:712:601:582:558:
654:801:915:531:755:579:583:496:792:674:620:598:637:734:639:740:472:613:5
76:583:836:744:656:453:799:728:667:524:657:686:775:700:476:645:613:553:64
3:736:588:776:571:732:554:757:754:642:461:807:599:512:
692:820:622:645:655:612:536:725:779:731:470:521:622:633:732:636:608:632:6
33:776:471:798:525:682:602:562:672:783:570:769:558:653:823:520:592:674:58
6:749:641:539:589:369:842:540:701:507:546:649:844:838:
680:869:601:664:773:634:656:768:499:577:317:625:721:795:889:707:589:592:7
38:524:593:552:730:532:452:524:588:659:644:489:599:774:727:670:615:447:68
7:461:721:724:717:763:689:652:754:473:546:510:816:473:
553:556:559:698:600:510:725:530:564:694:348:538:816:674:496:701:630:772:6
71:589:830:600:696:488:577:621:698:913:731:462:508:694:624:644:667:777:64
2:670:615:549:682:532:365:752:669:644:561:748:762:559:
745:769:635:627:714:624:550:645:786:562:660:554:505:736:819:850:583:722:6
98:759:626:658:576:729:526:695:832:693:665:509:664:589:527:848:656:743:63
2:680:652:651:575

UTC Time Evidence

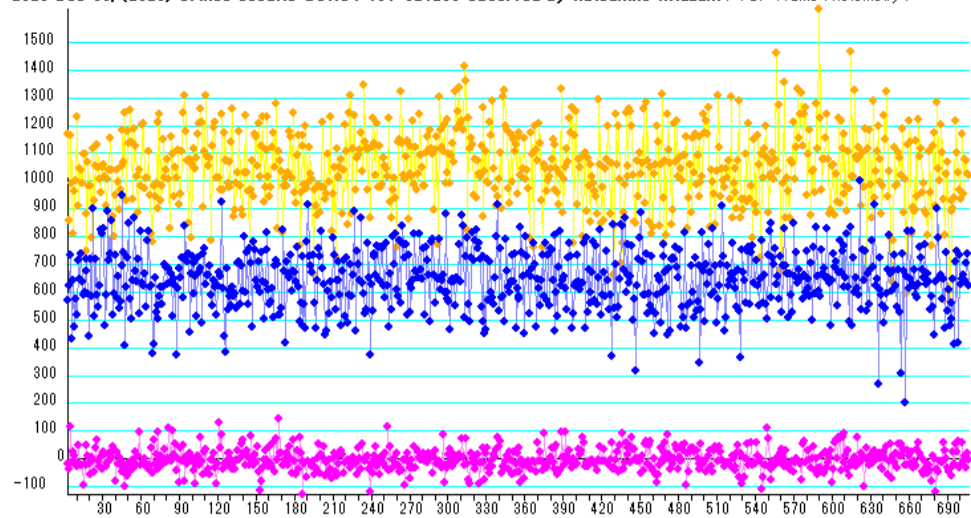


Target Star Position (Target star = Blue, Comparison star = Yellow, Pink = Background metering)

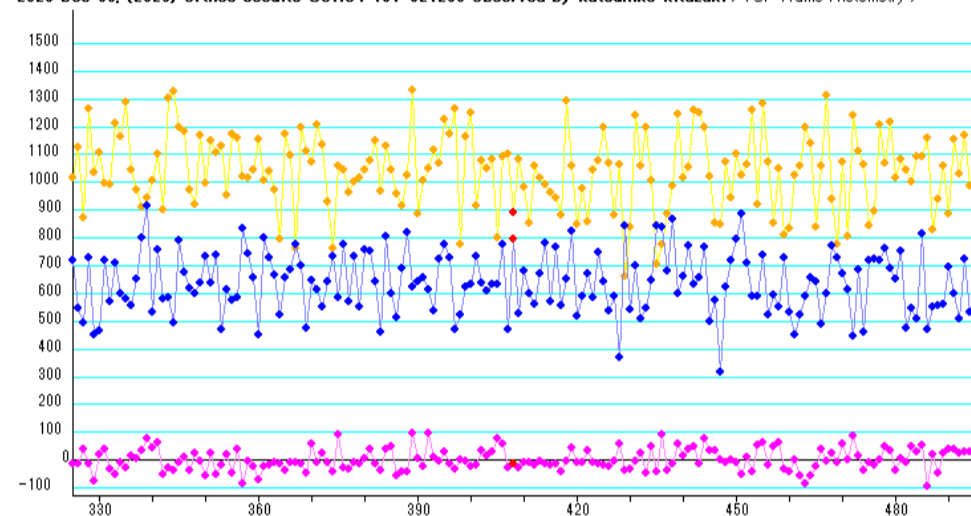


Light curve (Target star = Blue line, Target star = Yellow line)

2025 Dec 30: (2329) Orthos occults UCAC4 404-021293 Observed by Katsuhiko Kitazaki / PSF-Frame Photometry /



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Exp=90.3msec / Frm No.408.0 / Frm Mid= 14h5m43.1423s, End= 43.1874s