

[Date ] 2024. 1.21 [Approx hour] 18.9  
[Star ] UCAC4 373-069735  
[Asteroid ] (85)Io

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

[Event time] D: 18h51m04.122s +/- 0.195s (UTC) S/N=1.13  
R: 18h51m12.012s +/- 0.114s (UTC) S/N=1.47

[Recorded ] From 18h50m0s  
To 18h52m30s

[Mag. drop ] D: Measured: Mag Drop (measured): 0.23 Mag. ; Predicted:  
Mag Drop (predicted): 0.3 Mag.  
R: Measured: Mag Drop (measured ): 0.28 Mag. ;  
Predicted: Mag Drop (predicted): 0.3 Mag.

[Telescope ] Aperture: 40cm Type: Other(Cassegrain) F=2.5(Reducer  
×0.25)

[Camera ] Analog or Digital video , Model= ASI290MM

[Exposure ] Set: 47.8msec, Measure: 47.8msec

[Setting ] Area: 1936x400 ; Binning=2  
Gain: 400 ; Brightness: 80 ; High Speed Mode: Off

[Time keep ] GPS ; Model: GHS-OSD

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

[Condition ] Stability: Strong flickering Transparency: Clear

[Remarks ] The duration was longer than forecast.  
The stellar image is affected by intense scintillation and is not  
stable.

[Additional comment]

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<Observations>

<Event>  
<Date>2024|1|21|18.9</Date>  
<Details>  
<Star>UCAC4|373-  
069735|0||0.0000000000|0.000000000|0.00|0.00|0.00|0|0.00000000|0.0000  
000|25.00|25.00|25.00|0</Star>

<Asteroid>85|Io|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|Observer's Name||0|Musashino Tokyo|JPN|+139 33  
41.2|+35 42 37.0|66| |40|6|a|a</ID>  
<Conditions>3|1|1.30||The stellar image is affected by intense  
scintillation and  
is not stable.</Conditions>  
<D>18 51 4.122|D|0.195||| </D>  
<R>18 51 12.012|R|0.114||| </R>  
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<LastEdited>2023|7|17</LastEdited>  
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</Observations>

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Text-based Light curve

Date: 2024-1-21 18:51:5.55: 16.20: 340  
Star: 0: 0: 0: 0: 0-0-0: 373-069735  
Observer: +139:33:41.2: +35:42:37.0: 66: Observer's Name  
Object: Asteroid: 85: Io  
Values:561:370:448:377:441:470:498:440:570:562:402:506:296:429:413:462:  
443:267:434:398:358:383:415:429:369:534:362:518:251:422:528:468:392:398  
:372:575:499:420:407:451:294:424:346:424:482:311:628:457:243:  
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1:406:454:544:411:526:359:477:310:487:294:421:429:407:474:  
569:356:430:483:461:363:321:398:376:421:472:367:445:536:387:438:451:417  
:330:443:551:283:328:416:314:423:431:370:463:404:392:354:408:378:374:44  
6:482:602:733:485:377:492:656:432:404:539:514:559:626:556:  
652:616:441:698:507:636:527:440:535:577:505:573:546:510:537:448:498:648  
:422:534:450:550:555:572:574:495:704:620:578:548:558:549:610:516:630:57  
0:498:468:496:574:584:562:440:630:466:560:511:600:549:454:  
538:403:484:480:695:506:608:521:570:566:498:578:472:562:536:538:510:436  
:586:497:420:465:669:537:636:604:649:488:630:360:450:618:589:520:763:37  
6:525:691:604:633:623:541:317:681:429:465:569:617:647:732:  
388:617:613:607:661:467:673:496:616:579:551:488:570:571:603:623:439:509  
:614:716:572:693:642:519:567:612:568:676:652:696:517:674:639:574:612:60  
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:384:629:482:578:551:510:579:624:598:655:590:592:567:618:478:435:558:49  
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