MPEC 2022-A121 : 2022 AU3

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M.P.E.C. 2022-A121 Issued 2022 January 9, 16:59 UT

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2022 AU3

Observations:

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     K22A03U* C2022 01 08.30995807 59 09.09 +03 18 28.8          19.51GVEA121G96
     K22A03U  C2022 01 08.31513007 59 09.61 +03 18 34.6          19.59GVEA121G96
     K22A03U  C2022 01 08.32029307 59 10.12 +03 18 40.4          19.59GVEA121G96
     K22A03U  C2022 01 08.32547907 59 10.63 +03 18 46.2          19.56GVEA121G96
     K22A03U KC2022 01 08.45940807 59 24.02 +03 21 16.0          19.45GVEA121I52
     K22A03U KC2022 01 08.46210507 59 24.30 +03 21 19.0          19.45GVEA121I52
     K22A03U KC2022 01 08.46585607 59 24.67 +03 21 23.3          19.47GVEA121I52
     K22A03U KC2022 01 08.46960607 59 25.07 +03 21 27.7          19.28GVEA121I52
     K22A03U KC2022 01 08.85218108 00 10.57 +03 28 38.5          19.7 GVEA121L01
     K22A03U KC2022 01 08.85373808 00 10.68 +03 28 40.0          19.4 GVEA121L01
     K22A03U KC2022 01 08.85606608 00 10.94 +03 28 42.9          19.4 GVEA121L01
     K22A03U KC2022 01 08.85843908 00 11.18 +03 28 45.6          19.2 GVEA121L01
     K22A03U KC2022 01 08.86007008 00 11.37 +03 28 47.7          19.3 GVEA121L01
     K22A03U KC2022 01 08.90807 08 00 16.82 +03 29 45.3          19.3 GXEA121J57
     K22A03U KC2022 01 08.91744 08 00 17.76 +03 29 55.9               XEA121J57
     K22A03U KC2022 01 08.92622 08 00 18.63 +03 30 06.4          19.3 GXEA121J57
     K22A03U KC2022 01 08.92812908 00 18.67 +03 30 04.1          19.6 GVEA121J95
     K22A03U KC2022 01 08.93206108 00 19.11 +03 30 08.2          19.6 GVEA121J95
     K22A03U KC2022 01 08.93878608 00 19.81 +03 30 16.3          19.3 GVEA121J95
     K22A03U KC2022 01 08.97765308 00 23.88 +03 31 01.8               VEA121Z80
     K22A03U KC2022 01 08.99789008 00 25.90 +03 31 25.9               VEA121Z80
     K22A03U KC2022 01 09.01797908 00 28.02 +03 31 48.7          19.2 GVEA121Z80
     K22A03U KC2022 01 09.03875 08 00 31.83 +03 32 59.0          18.3 RVEA121X31
     K22A03U KC2022 01 09.04748 08 00 32.73 +03 33 08.4          18.7 RVEA121X31
     K22A03U  C2022 01 09.26037508 00 56.21 +03 36 43.1          19.53GVEA121703
     K22A03U  C2022 01 09.26605108 00 56.72 +03 36 49.1          20.26GVEA121703
     K22A03U  C2022 01 09.27171908 00 57.21 +03 36 55.4          20.07GVEA121703
```

Observer details:

703 Catalina Sky Survey. Observers A. Serrano, R. A. Kowalski. Measurers E. J. Christensen, G. A. Farneth, D. C. Fuls, A. R. Gibbs, A. D. Grauer, H. Groeller, R. A. Kowalski, S. M. Larson, G. J. Leonard, D. Rankin, R. L. Seaman, A. Serrrano, F. C. Shelly, K. W. Wierzchos. 0.68-m Schmidt + 10K CCD.

G96 Mt. Lemmon Survey. Observer H. Groeller. Measurers E. J. Christensen, G. A. Farneth, D. C. Fuls, A. R. Gibbs, A. D. Grauer, H. Groeller, R. A. Kowalski, S. M. Larson, G. J. Leonard, D. Rankin, R. L. Seaman, A. Serrrano, F. C. Shelly, K. W. Wierzchos. 1.5-m reflector + 10K CCD.

I52 Steward Observatory, Mt. Lemmon Station. Observer D. Rankin. Measurers E. J. Christensen, G. A. Farneth, D. C. Fuls, A. R. Gibbs, A. D. Grauer, H. Groeller, R. A. Kowalski, S. M. Larson, G. J. Leonard, D. Rankin, R. L. Seaman, A. Serrrano, F. C. Shelly, K. W. Wierzchos.

J57 Centro Astronomico Alto Turia, Valencia. Observer A. Fornas. Measurers A. Fornas, G. Fornas, E. Arce, V. Mas. 0.43-m f/6.8 reflector + CCD.

J95 Great Shefford. Observer P. Birtwhistle. 0.41-m f/6.3 Schmidt-Cassegrain + CCD.

L01 Visnjan Observatory, Tican. Observer K. Korlevic. 1.0-m f/2.9 reflector + CCD.

X31 Galileo Galilei Observatory, Oro Verde. Observer C. Fornari. 0.40-m f/8 Ritchey-Chretien + CCD.

Z80 Northolt Branch Observatory. Observer G. Wells. 0.25-m f/8.0 Ritchey-

Chretien + CCD.

Orbital elements:
2022 AU3 Earth MOID = 0.2059 AU
Epoch 2022 Jan. 21.0 TT = JDT 2459600.5 Veres
M 356.66441 (2000.0) P Q
n 0.26677995 Peri. 359.20428 -0.68335010 -0.72196757
a 2.3898314 Node 133.89274 +0.67067504 -0.67953473
e 0.5014309 Incl. 8.66803 +0.28849199 -0.13036628
P 3.69 H 21.38 G 0.15 U 9
Residuals in seconds of arc

220108	G96	0.0	0.0	220108	L01	0.1-	0.1-	220108	J95	0.1+	0.1-
220108	G96	0.0	0.0	220108	L01	0.1+	0.0	220108	Z80	0.7+	0.2+
220108	G96	0.0	0.0	220108	L01	0.1-	0.0	220108	Z80	0.6-	0.6+
220108	G96	0.0	0.1+	220108	L01	0.2+	0.2+	220109	Z80	0.1+	0.0
220108	I52	0.0	0.1-	220108	J57	0.2+	0.3-	220109	X31	0.8-	1.0+
220108	I52	0.0	0.1-	220108	J57	0.4-	0.6-	220109	X31	1.2-	0.1+
220108	I52	0.1-	0.1-	220108	J57	0.9-	0.4-	220109	703	1.0+	0.5+
220108	I52	0.1+	0.1+	220108	J95	0.3-	0.2+	220109	703	0.0	0.3-
220108	L01	0.7+	0.1+	220108	J95	0.2+	0.3-	220109	703	1.3-	0.7-

Ephemeris:
2022 AU3 a,e,i = 2.39, 0.50, 9 q = 1.1915

Date	TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	V
2021 12 10		07 12 54.4	+00 55 22	0.4088	1.3323	142.4	26.8	21.3
...								
2021 12 25		07 35 10.8	+00 42 05	0.3181	1.2688	149.9	22.9	20.5
...								
2022 01 02		07 48 02.0	+01 43 43	0.2798	1.2416	154.4	20.0	20.1
...								
2022 01 08		07 58 34.3	+03 13 01	0.2559	1.2247	158.2	17.3	19.8
2022 01 09		08 00 25.8	+03 31 53	0.2524	1.2222	158.9	16.8	19.7
2022 01 10		08 02 19.2	+03 51 54	0.2489	1.2198	159.6	16.3	19.7
...								
2022 01 16		08 14 25.0	+06 16 31	0.2309	1.2073	164.1	12.9	19.4
...								
2022 01 24		08 32 42.4	+10 30 09	0.2141	1.1962	170.9	7.5	19.0
...								
2022 02 08		09 12 56.4	+20 01 07	0.2076	1.1931	174.3	4.7	18.8

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