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MPEC 2021-Y64 : 2021 YM

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M.P.E.C. 2021-Y64

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MPC@CFA.HARVARD.EDU
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2021 YM

Observations:

K21Y00M*	C2021	12	26.24614800	14	01.37	+52	58	39.0	17.35oVEY064T08
K21Y00M	C2021	12	26.25217700	14	10.71	+52	58	47.2	17.09oVEY064T08
K21Y00M	C2021	12	26.26331400	14	28.04	+52	59	03.2	16.91oVEY064T08
K21Y00M	mC2021	12	27.06379200	35	09.09	+53	11	58.2	17.42GVEY064I52
K21Y00M	mC2021	12	27.06409600	35	09.52	+53	11	58.4	17.38GVEY064I52
K21Y00M	mC2021	12	27.06440000	35	09.97	+53	11	58.5	17.54GVEY064I52
K21Y00M	C2021	12	27.49835700	45	55.54	+53	13	18.5	17.5 GVEY064900
K21Y00M	C2021	12	27.50312200	46	02.46	+53	13	17.6	17.5 GVEY064900
K21Y00M	C2021	12	27.50788500	46	09.36	+53	13	16.9	17.6 GVEY064900
K21Y00M	C2021	12	27.58324 00	47	58.95	+53	13	00.4	17.9 RrEY064P93
K21Y00M	C2021	12	27.58396 00	47	59.87	+53	12	58.8	17.5 RrEY064P93
K21Y00M	C2021	12	27.58467 00	48	00.90	+53	12	58.9	17.5 RrEY064P93
K21Y00M	1C2021	12	27.69420100	50	44.63	+53	12	44.7	VEY064246
K21Y00M	1C2021	12	27.69431100	50	44.72	+53	12	44.9	VEY064246
K21Y00M	1C2021	12	27.69442200	50	44.96	+53	12	44.8	VEY064246
K21Y00M	1C2021	12	27.69464200	50	45.30	+53	12	44.2	VEY064246
K21Y00M	KC2021	12	27.73344900	51	41.26	+53	12	37.3	17.5 GVEY064C95
K21Y00M	KC2021	12	27.73658600	51	45.73	+53	12	36.1	17.2 GVEY064C95
K21Y00M	KC2021	12	27.73970500	51	50.21	+53	12	35.1	16.8 GVEY064C95
K21Y00M	KC2021	12	27.74284700	51	54.67	+53	12	34.2	17.1 GVEY064C95
K21Y00M	KC2021	12	27.81439 00	53	36.74	+53	12	11.0	16.1 GXEY064J57
K21Y00M	KC2021	12	27.81698 00	53	40.41	+53	12	10.0	16.0 GXEY064J57
K21Y00M	KC2021	12	27.81978 00	53	44.38	+53	12	09.2	16.3 GXEY064J57
K21Y00M	1C2021	12	27.82511 00	53	51.53	+53	11	56.9	18.1 VVEY064033
K21Y00M	1C2021	12	27.82540 00	53	51.96	+53	11	57.2	18.1 VVEY064033
K21Y00M	1C2021	12	27.82568 00	53	52.32	+53	11	57.0	18.1 VVEY064033
K21Y00M	1C2021	12	27.82601 00	53	52.80	+53	11	56.5	18.1 VVEY064033
K21Y00M	1C2021	12	27.82634 00	53	53.28	+53	11	56.3	18.2 VVEY064033
K21Y00M	*C2021	12	27.83997 00	54	13.83	+53	12	09.3	17.4 GVEY064G40
K21Y00M	*C2021	12	27.84772 00	54	24.72	+53	12	05.8	17.2 GVEY064G40
K21Y00M	*C2021	12	27.85191 00	54	30.58	+53	12	03.9	17.1 GVEY064G40
K21Y00M	C2021	12	28.68511 01	13	48.02	+53	00	16.5	17.2 GXEY064G02
K21Y00M	C2021	12	28.68949 01	13	53.90	+53	00	12.0	17.3 GXEY064G02
K21Y00M	C2021	12	28.69509 01	14	01.32	+53	00	05.4	17.0 GXEY064G02
K21Y00M	KC2021	12	28.73632 01	14	56.53	+52	59	19.8	16.9 RVEY064B74
K21Y00M	KC2021	12	28.74332 01	15	05.73	+52	59	10.9	16.8 RVEY064B74
K21Y00M	KC2021	12	28.74962 01	15	14.06	+52	59	03.9	17.0 RVEY064B74

Observer details:

033 Karl Schwarzschild Observatory, Tautenburg. Observers S. Melnikov, C. Hoegner, U. Laux, F. Ludwig, B. Stecklum. Measurer B. Stecklum. 1.34-m f/3 Schmidt + CCD.

246 Klet Observatory-KLENOT. Observers M. Tichy, J. Ticha, M. Honkova. Measurer M. Tichy. 1.06-m f/2.7 reflector + 2048x2048 CCD.

900 Moriyama. Observer Y. Ikari. 0.26-m f/7.0 reflector + CCD.

B74 Santa Maria de Montmagastrell. Observer J. M. Bosch. 0.40-m f/10 Schmidt-Cassegrain.

C95 SATINO Remote Observatory, Haute Provence. Observer J. Jahn. 0.60-m f/3.2 Newtonian reflector + CCD.

G02 KYSUCE Observatory, Kysucke Nove Mesto. Observer M. Urbanik. 0.40-m f/5.5 Corrected Dall-Kirkham + CCD.

G40 Slooh.com Canary Islands Observatory. Observer M. Suzuki. 0.43-m f/6.8 Corrected Dall-Kirkham + CCD.
 I52 Steward Observatory, Mt. Lemmon Station. 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, F. C. Shelly, K. W. Wierzchos.
357 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.
 P93 Space Tracking and Communications Center, JAXA. Observers S. Okumura, S. Urakawa. 1.0-m f/3.0 reflector + CCD.
 T08 ATLAS-MLO, Mauna Loa. Observers L. Denneau, R. Siverd, J. Tonry, H. Weiland. Measurers L. Denneau, N. Erasmus, A. Fitzsimmons, A. Lawrence, J. Robinson, R. Siverd, J. Tonry, H. Weiland. 0.5-m reflector + CCD.

Orbital elements:

2021 YM Earth MOID = 0.1454 AU
 Epoch 2022 Jan. 21.0 TT = JDT 2459600.5 Veres
 M 18.00862 (2000.0) P Q
 n 0.23991502 Peri. 33.69946 +0.98616131 +0.11961922
 a 2.5650614 Node 318.94479 -0.16194718 +0.84323192
 e 0.7808810 Incl. 10.06573 +0.03548213 +0.52407172
 P 4.11 H 18.62 G 0.15 U 9

Residuals in seconds of arc

211226 T08	0.1+	0.3+	211227 246	0.7-	0.5+	211227 033	0.2-	0.2-
211226 T08	0.2-	0.2-	211227 246	0.0	0.4+	211227 033	0.1-	0.2-
211226 T08	0.1+	0.0	211227 246	0.3+	0.1-	211227 G40	0.5+	0.0
211227 I52	0.0	0.1+	211227 C95	0.1-	0.1+	211227 G40	0.0	0.0
211227 I52	0.1-	0.1+	211227 C95	0.1-	0.1-	211227 G40	0.4-	0.0
211227 I52	0.1-	0.1+	211227 C95	0.2+	0.2-	211228 G02	0.5-	1.0-
211227 900	1.3+	0.0	211227 C95	0.0	0.2-	211228 G02	0.3+	0.3-
211227 900	1.3+	0.2-	211227 J57	0.1+	0.3-	211228 G02	0.6+	0.3-
211227 900	1.1+	0.1-	211227 J57	0.0	0.2-	211228 B74	0.3-	0.1+
211227 P93	0.8+	0.1+	211227 J57	0.1+	0.2+	211228 B74	0.1-	0.3-
211227 P93	0.3-	1.3-	211227 033	0.1-	0.2-	211228 B74	0.4+	0.5+
211227 P93	0.3-	1.0-	211227 033	0.0	0.2+			
211227 246	0.1-	0.3+	211227 033	0.3-	0.2+			

Ephemeris:

2021 YM a,e,i = 2.57, 0.78, 10 q = 0.5621
 Date TT R. A. (2000) Decl. Delta r Elong. Phase V
 2021 11 28 18 25 29.4 -05 31 30 0.4005 0.6991 35.3 125.4 21.1
 ...
 2021 12 13 19 50 25.8 +20 48 34 0.2157 0.8863 57.2 111.0 19.3
 ...
 2021 12 21 21 56 50.5 +44 52 12 0.1837 0.9932 87.6 81.7 17.8
 ...
 2021 12 27 00 33 31.0 +53 11 11 0.2094 1.0736 110.1 59.3 17.5
 2021 12 28 00 58 01.6 +53 10 33 0.2173 1.0870 113.0 56.4 17.5
 2021 12 29 01 20 41.9 +52 53 17 0.2260 1.1004 115.7 53.7 17.6
 ...
 2022 01 04 02 57 06.9 +48 23 31 0.2913 1.1799 126.4 42.1 17.9
 ...
 2022 01 12 03 59 38.9 +42 03 35 0.4010 1.2841 131.3 35.1 18.6
 ...
 2022 01 27 04 52 29.2 +34 51 58 0.6445 1.4726 128.1 31.7 19.9

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