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MPEC 2021-Y58 : 2021 YJ

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2021 YJ

Observations:

Table with 13 columns: Object ID, Date, RA, Dec, Mag, etc. listing observations for various objects like K21Y00J, KC2021, etc.

K21Y00J	C2021	12	27.14804700	26	26.83	+31	34	30.6	17.04	GVEY058703
K21Y00J	C2021	12	27.48578100	32	02.19	+29	58	44.8	17.7	GVEY058900
K21Y00J	C2021	12	27.48823600	32	04.55	+29	58	02.1	17.8	GVEY058900
K21Y00J	C2021	12	27.68807400	35	27.51	+28	59	23.8		VEY058246
K21Y00J	C2021	12	27.68829400	35	27.67	+28	59	19.3	17.1	GVEY058246
K21Y00J	C2021	12	27.68851500	35	27.88	+28	59	16.0		VEY058246
K21Y00J	C2021	12	27.68862500	35	27.99	+28	59	13.5	17.4	GVEY058246
K21Y00J	C2021	12	27.68873500	35	28.08	+28	59	11.3		VEY058246
K21Y00J	KC2021	12	27.80426 00	37	20.74	+28	24	59.6	16.5	GXEY058357
K21Y00J	KC2021	12	27.80604 00	37	22.45	+28	24	27.6	16.3	GXEY058357
K21Y00J	KC2021	12	27.80771 00	37	24.06	+28	23	57.6	16.2	GXEY058357

Observer details:

246 Klet Observatory-KLENOT. Observers M. Tichy, J. Ticha, M. Honkova.
 Measurer M. Tichy. 1.06-m f/2.7 reflector + 2048x2048 CCD.
703 Catalina Sky 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, F. C.
 Shelly, K. W. Wierzchos. 0.68-m Schmidt + 10K CCD.
 900 Moriyama. Observer Y. Ikari. 0.26-m f/7.0 reflector + CCD.
B15 Inastars Observatory, Potsdam (since 2006). Observer B. Thinius. 0.36-m
 f/5.6 Schmidt-Cassegrain + CCD.
 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/5.3 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.
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.
 K88 GINOP-KHK, Piszkesteto. Observer K. Sarneczky. 0.60-m Schmidt + CCD.
 N82 Multa Observatory. Observer L. Elenin. 0.4-m f/1.25 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.
Y00 SONEAR Observatory, Oliveira. Observer C. Jacques. 0.28-m f/2.2
 astrograph + CCD.

Orbital elements:

2021 YJ		PHA, Earth MOID = 0.0283 AU	
Epoch	2022 Jan. 21.0 TT = JDT 2459600.5	Veres	
M	6.66887	(2000.0)	P Q
n	0.28012528	Peri. 176.45483	-0.02203396 -0.84511770
a	2.3133136	Node 274.25813	+0.90358177 +0.21180206
e	0.5629732	Incl. 32.38491	+0.42784867 -0.49083190
P	3.52	H 19.86	G 0.15 U 8

Residuals in seconds of arc

211226 T08	0.1-	0.2+	211226 G02	0.1+	0.1+	211226 Y00	0.3+	0.3-
211226 T08	0.2-	0.1+	211226 G02	0.1+	0.6-	211226 Y00	0.1+	0.2-
211226 T08	0.1+	0.3-	211226 K88	0.1-	0.1-	211226 Y00	0.1+	0.5-
211226 T08	0.4+	0.2+	211226 K88	0.0	0.2-	211227 I52	0.0	0.1+
211226 T08	0.5-	0.4+	211226 K88	0.0	0.0	211227 I52	0.1-	0.1+
211226 T08	0.4+	0.5-	211226 K88	0.1+	0.1-	211227 I52	0.1-	0.2+
211226 T08	0.5-	0.4-	211226 K88	0.0	0.2-	211227 703	0.1-	0.1+
211226 T08	0.2-	0.5+	211226 K88	0.3+	0.2-	211227 703	0.1-	0.2+
211226 T08	0.4+	0.4+	211226 K88	0.0	0.2-	211227 703	0.1-	0.1+
211226 P93	0.1-	0.0	211226 K88	0.0	0.1-	211227 703	0.1-	0.1+
211226 P93	0.0	0.3-	211226 K88	0.1+	0.4-	211227 900	0.6+	1.1-
211226 P93	0.1+	0.1-	211226 K88	0.1-	0.2-	211227 900	0.4+	0.8-
211226 N82	0.1+	0.3+	211226 K88	0.1+	0.1-	211227 246	0.6+	0.6+
211226 N82	0.2-	0.6+	211226 K88	0.1+	0.2-	211227 246	0.1-	0.0
211226 N82	0.0	0.5+	211226 K88	0.1-	0.2-	211227 246	0.1-	0.6+
211226 B15	0.1+	0.2-	211226 K88	0.0	0.5-	211227 246	0.1-	0.0
211226 B15	0.1-	0.1-	211226 K88	0.1+	0.1-	211227 246	0.3-	0.2-
211226 B15	0.1-	0.1+	211226 C95	0.7+	0.3-	211227 J57	0.2+	0.0
211226 B15	0.0	0.0	211226 C95	0.1-	0.5-	211227 J57	0.2+	0.1+
211226 G02	0.0	0.1+	211226 C95	0.9-	0.3+	211227 J57	0.3+	0.2+
211226 G02	0.3-	0.0	211226 C95	0.6+	0.1-			

Ephemeris:

2021 YJ		a,e,i = 2.31, 0.56, 32		q = 1.0110	
Date	TT	R. A. (2000) Decl.	Delta	r	Elong. Phase V
2021 11 27		20 05 41.5 +60 42 49	0.3835	1.0857	94.4 65.0 20.3
...					
2021 12 12		21 16 08.9 +57 50 17	0.2351	1.0320	95.0 71.9 19.3
...					
2021 12 20		22 37 29.0 +51 35 27	0.1571	1.0164	97.5 73.7 18.5
...					
2021 12 26		00 07 31.6 +36 29 56	0.1095	1.0114	101.7 72.2 17.6
2021 12 27		00 24 01.8 +32 15 30	0.1038	1.0111	102.5 71.7 17.5
2021 12 28		00 40 35.6 +27 26 16	0.09917	1.0110	103.4 71.2 17.4
...					
2022 01 03		02 12 57.6 -07 18 09	0.09887	1.0137	105.2 69.4 17.3
...					
2022 01 11		03 39 18.4 -34 44 19	0.1567	1.0263	101.5 69.9 18.3
...					
2022 01 26		05 01 03.0 -47 09 25	0.3076	1.0753	98.8 64.8 19.8

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