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MPEC 2021-Y79 : 2021 YS

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2021 YS

Observations:

K21Y00S*	C2021	12	29.60405805	26	49.43	+05	25	36.0	20.0	RVEY079D29	
K21Y00S	C2021	12	29.61820005	26	47.97	+05	25	35.7	20.4	RVEY079D29	
K21Y00S	C2021	12	29.63234105	26	46.51	+05	25	35.9	20.3	RVEY079D29	
K21Y00S	KC2021	12	30.52434	05	25	21.38	+05	26	06.5	20.1	VqEY079E23
K21Y00S	KC2021	12	30.53476	05	25	20.37	+05	26	06.1	19.8	VqEY079E23
K21Y00S	KC2021	12	30.55559	05	25	18.21	+05	26	06.5	19.7	VqEY079E23
K21Y00S	C2021	12	30.62977	05	25	11.67	+05	25	47.3	19.7	GVEY079N88
K21Y00S	C2021	12	30.63211	05	25	11.43	+05	25	47.6	19.7	GVEY079N88
K21Y00S	C2021	12	30.63445	05	25	11.19	+05	25	47.8	19.6	GVEY079N88
K21Y00S	C2021	12	30.66098405	25	08.33	+05	25	52.9	19.2	wqEY079O49	
K21Y00S	4C2021	12	30.72865	05	25	02.30	+05	25	50.5	19.9	GXEY079I19
K21Y00S	4C2021	12	30.73710	05	25	01.47	+05	25	51.1	19.3	GXEY079I19
K21Y00S	4C2021	12	30.74555	05	25	00.61	+05	25	50.4	18.4	GXEY079I19
K21Y00S	C2021	12	30.74905605	24	59.32	+05	25	55.3	19.5	wqEY079O49	
K21Y00S	C2021	12	30.75259105	24	59.00	+05	25	55.2	19.6	wqEY079O49	
K21Y00S	KC2021	12	30.77481	05	24	58.11	+05	25	51.0	18.9	GXEY079I93
K21Y00S	KC2021	12	30.78536	05	24	57.05	+05	25	50.7	19.5	GXEY079I93
K21Y00S	KC2021	12	30.79591	05	24	56.00	+05	25	52.2	XEY079I93	
K21Y00S	KC2021	12	30.83499	05	24	52.22	+05	25	54.0	20.2	VZEY079J57
K21Y00S	KC2021	12	30.83882905	24	51.63	+05	25	53.4	19.6	VvEY079L06	
K21Y00S	KC2021	12	30.86137	05	24	49.59	+05	25	55.5	19.5	VZEY079J57
K21Y00S	KC2021	12	30.88169005	24	47.48	+05	25	55.0	19.5	GVEY079B49	
K21Y00S	KC2021	12	30.88458905	24	47.17	+05	25	55.2	19.7	GVEY079B49	
K21Y00S	KC2021	12	30.89206305	24	46.29	+05	25	54.9	19.4	VvEY079L06	
K21Y00S	KC2021	12	30.89299	05	24	46.42	+05	25	56.0	20.6	VZEY079J57
K21Y00S	KC2021	12	30.91103605	24	44.40	+05	25	56.1	19.4	RqEY079I04	
K21Y00S	KC2021	12	30.91653705	24	43.85	+05	25	56.3	19.4	RqEY079I04	
K21Y00S	KC2021	12	30.92203705	24	43.28	+05	25	56.5	19.3	RqEY079I04	
K21Y00S	KC2021	12	30.94044305	24	41.44	+05	25	56.4	19.3	VvEY079L06	
K21Y00S	KC2021	12	30.94254305	24	41.23	+05	25	56.4	19.3	VvEY079L06	
K21Y00S	KC2021	12	30.95690	05	24	39.82	+05	25	57.2	VEY079204	
K21Y00S	KC2021	12	30.96442	05	24	39.07	+05	25	57.4	VEY079204	
K21Y00S	KC2021	12	30.97195	05	24	38.31	+05	25	57.5	20.1	GVEY079204
K21Y00S	hC2021	12	30.99515305	24	35.86	+05	25	57.8	20.1	VSEY079L01	
K21Y00S	hC2021	12	30.99948405	24	35.48	+05	25	59.0	20.0	VSEY079L01	
K21Y00S	hC2021	12	31.00299405	24	35.14	+05	25	58.8	20.0	VSEY079L01	
K21Y00S	hC2021	12	31.00620605	24	34.79	+05	25	58.9	20.2	VSEY079L01	
K21Y00S	KC2021	12	31.10296	05	24	26.58	+05	26	04.0	20.3	GVEY079734
K21Y00S	KC2021	12	31.12141	05	24	24.76	+05	26	04.7	20.1	GVEY079734
K21Y00S	KC2021	12	31.12889	05	24	24.00	+05	26	04.7	20.2	GVEY079734
K21Y00S	C2021	12	31.16350	05	24	20.15	+05	26	25.8	19.7	VuEY079807
K21Y00S	C2021	12	31.16906	05	24	19.55	+05	26	27.0	19.3	VuEY079807
K21Y00S	C2021	12	31.17455	05	24	18.98	+05	26	26.9	20.2	VuEY079807

Observer details:
104 San Marcello Pistoiese. Observers P. Bacci, M. Maestriepieri. Measurers P. Bacci, L. Tesi, G. Fagioli. 0.60-m reflector + CCD.
119 Abastuman. Observer R. Inasaridze. Measurer L. Elenin. 0.7-m f/3 reflector + CCD.
204 Schiaparelli Observatory. Observer L. Buzzi. 0.84-m f/3.5 reflector + CCD.

734 Farpoint Observatory, Eskridge. Observers G. Hug, D. Cromer, D. Goodin, R. Valentine. Measurer G. Hug. 0.7-m reflector + CCD.
 807 Cerro Tololo Observatory, La Serena. Observers T. Linder, R. Holmes, L. Horn. 0.61-m f/6.5 astrograph + CCD.
 849 Paus Observatory, Sabadell. Observer J. Camarasa. 0.30-m f/4.0 reflector + CCD.
 D29 Purple Mountain Observatory, XuYi Station. Observers H. B. Zhao, B. Li, G. Zhaori, R. Q. Hong, L. F. Hu. Measurers H. B. Zhao, B. Li, H. Lu, G. Zhaori, Z. J. Xu. 1.04-m f/1.8 Schmidt + CCD.
 E23 Arcadia. Observer A. Hidas. 0.35-m f/1.9 reflector + CCD.
 I93 St Pardon de Conques. Observer F. Losse. 0.40-m f/3.7 reflector + CCD.
 J57 Centro Astronomico Alto Turia, Valencia. Observer J. Isach. Measurer G. Fornas. 0.41-m f/6.0 Ritchey-Chretien + CCD.
 L01 Visnjan Observatory, Tican. Observer K. Korlevic. 1.0-m f/2.9 reflector + CCD.
 L06 Sormano 2 Observatory, Bellagio Via Lattea. Observer G. Ventre. Measurer P. Sicoli. 0.36-m Schmidt-Cassegrain + CCD.
 N88 Xingming Observatory #3, Nanshan. Observers Z.-J. Xu, X. Gao. Measurer Z.-J. Xu. 0.6-m f/8 Ritchey-Chretien + CCD.
 O49 Purple Mountain Observatory, Yaoan Station. Observers F. Li, Y. Yuan, J. Chen, A. Zhu, Y. Fu. Measurers B. Li, H. B. Zhao. 0.8-m f/10 Ritchey-Chretien + 2048 CCD.

Orbital elements:

2021 YS Earth MOID = 0.0770 AU
 Epoch 2022 Jan. 21.0 TT = JD_T 2459600.5 Veres
 M 337.47743 (2000.0) P Q
 n 0.32237088 Peri. 19.56052 -0.99032284 -0.12718125
 a 2.1065196 Node 152.94737 +0.10541268 -0.94966403
 e 0.4961071 Incl. 7.01536 +0.09027097 -0.28629209
 P 3.06 H 19.66 G 0.15 U 9

Residuals in seconds of arc

211229 D29	0.2+	0.1+	211230 I93	0.2-	0.3+	211230 204	0.1+	0.1+
211229 D29	0.1-	0.2-	211230 I93	0.6-	0.4-	211230 204	0.2+	0.0
211229 D29	0.5-	0.0	211230 I93	0.8-	0.7+	211230 204	0.2+	0.1-
211230 E23	0.1+	0.4+	211230 J57	0.1-	0.0	211230 L01	0.6-	0.7-
211230 E23	0.8+	0.3-	211230 L06	0.6-	0.4+	211230 L01	0.1+	0.4+
211230 E23	0.2+	0.4-	211230 J57	0.1-	0.5+	211231 L01	0.3+	0.0
211230 N88	0.3+	0.1+	211230 B49	0.3-	0.5-	211231 L01	0.1-	0.0
211230 N88	0.2+	0.3+	211230 B49	0.5-	0.4-	211231 734	0.3-	0.1-
211230 N88	0.1+	0.4+	211230 L06	0.6-	0.0	211231 734	0.1+	0.2-
211230 O49	0.1+	0.1-	211230 J57	0.2+	0.3-	211231 734	0.0	0.5-
211230 I19	0.3-	0.1+	211230 104	0.1-	0.2+	211231 807	(0.7+	0.7-)
211230 I19	0.0	0.4+	211230 104	0.0	0.2+	211231 807	0.2+	0.3+
211230 I19	0.3-	0.6-	211230 104	0.3-	0.2+	211231 807	0.0	0.0
211230 O49	0.3-	0.0	211230 L06	0.3-	0.2-			
211230 O49	0.2+	0.2-	211230 L06	0.3-	0.3-			

Ephemeris:

2021 YS a,e,i = 2.11, 0.50, 7 q = 1.0615
 Date TT R. A. (2000) Decl. Delta r Elong. Phase V
 2021 12 01 06 01 57.9 +07 35 31 0.7179 1.6591 153.3 15.5 20.9
 ...
 2021 12 16 05 47 00.6 +06 00 43 0.5908 1.5576 162.4 11.0 20.2
 ...
 2021 12 24 05 35 36.1 +05 32 07 0.5404 1.5036 160.4 12.7 20.0
 ...
 2021 12 30 05 26 11.5 +05 25 46 0.5104 1.4634 155.6 16.1 19.9
 2021 12 31 05 24 35.9 +05 26 10 0.5060 1.4568 154.6 16.8 19.9
 2022 01 01 05 23 00.4 +05 27 00 0.5017 1.4501 153.6 17.5 19.9
 ...
 2022 01 07 05 13 39.9 +05 41 42 0.4797 1.4105 147.1 22.2 19.9
 ...
 2022 01 15 05 02 39.5 +06 27 41 0.4580 1.3588 137.9 29.0 19.9
 ...
 2022 01 30 04 50 31.5 +09 10 51 0.4328 1.2670 121.7 41.4 20.0

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