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- Processing (Info)

MPEC 2021-V30 : 2021 VA

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2021 VA

Observations:

Table with columns for object ID (e.g., K21V00A*), date (C2021 11), and various numerical data points (RA, Dec, magnitude, etc.)

K21V00A	KC2021	11	02.02393501	39	49.63	-04	27	14.8	17.0	GXE030Y00
K21V00A	KC2021	11	02.02510001	39	51.84	-04	28	50.3	16.7	GXE030Y00
K21V00A	KC2021	11	02.02626501	39	54.01	-04	30	25.1	16.5	GXE030Y00
K21V00A	KC2021	11	02.02950901	40	19.64	-04	45	55.6	17.3	VZE030W33
K21V00A	KC2021	11	02.03520201	40	30.92	-04	53	32.1	17.2	VZE030W33
K21V00A	KC2021	11	02.04093801	40	42.19	-05	01	08.2	16.7	VZE030W33
K21V00A	KC2021	11	02.04667501	40	53.38	-05	08	40.4	17.0	VZE030W33
K21V00A	KC2021	11	02.0679101	41	33.51	-05	36	04.5	16.4	GXE030W34
K21V00A	KC2021	11	02.0689201	41	33.94	-05	37	19.8	17.3	GVE030W46
K21V00A	KC2021	11	02.0697301	41	35.44	-05	38	21.0	16.9	GVE030W46
K21V00A	KC2021	11	02.0701301	41	37.60	-05	38	53.6	17.2	GXE030W34
K21V00A	KC2021	11	02.0705401	41	36.92	-05	39	22.1	17.2	GVE030W46
K21V00A	KC2021	11	02.0713401	41	38.44	-05	40	23.2	16.8	GVE030W46
K21V00A	KC2021	11	02.0722601	41	41.54	-05	41	35.2	16.3	GXE030W34
K21V00A	KC2021	11	02.0741001	41	44.93	-05	43	54.7	16.7	GXE030W34
K21V00A	KC2021	11	02.0757801	41	47.97	-05	46	00.9	16.5	GXE030W34
K21V00A	KC2021	11	02.0771601	41	50.49	-05	47	45.2	16.5	GXE030W34
K21V00A	2C2021	11	02.2549001	46	26.96	-09	05	36.0	16.5	GVE030I22
K21V00A	2C2021	11	02.2569601	46	30.10	-09	07	35.9	17.2	GVE030I22
K21V00A	C2021	11	02.40396301	50	27.04	-11	15	39.5	17.35	oVE030T08
K21V00A	C2021	11	02.40718201	50	30.64	-11	18	15.8	17.37	oVE030T08
K21V00A	C2021	11	02.41417101	50	38.51	-11	23	53.2	17.20	oVE030T08
K21V00A	C2021	11	02.42441201	50	49.96	-11	32	03.1	17.32	oVE030T08
K21V00A	KC2021	11	02.4892901	52	31.03	-12	13	15.8	17.7	VqEV030E23
K21V00A	KC2021	11	02.5003901	52	42.62	-12	21	27.2	17.6	VqEV030E23
K21V00A	KC2021	11	02.5115001	52	54.02	-12	29	32.7	17.5	VqEV030E23

Observer details:

- 204 Schiaparelli Observatory. Observer L. Buzzi. 0.84-m f/3.5 reflector + CCD.
- E23 Arcadia. Observer A. Hidas. 0.35-m f/1.9 reflector + CCD.
- I22 Abbey Ridge Observatory, Stillwater Lake. Observer F. D. Romanov. 0.35-m f/6.2 Schmidt-Cassegrain + CCD.
- 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.
- J69 North Observatory, Clanfield. Observer D. Briggs. 0.3-m f/5.4 Newtonian reflector + CCD.
- J95 Great Shefford. Observer P. Birtwhistle. 0.41-m f/6.3 Schmidt-Cassegrain + CCD.
- K38 M57 Observatory, Saltrio. Observer G. Baj. 0.35-m f/5.6 Ritchey-Chretien + CCD.
- L18 QOS Observatory, Zalisczi. Observers V. L. Pasatetskiy, T. A. Bezluschenko. Measurer A. M. Kozhukhov. 0.50-m f/3.8 reflector + CCD.
- T05 ATLAS-HKO, Haleakala. Observers L. Denneau, J. Tonry, H. Weiland. Measurers L. Denneau, J. Tonry, H. Weiland, A. Fitzsimmons, J. Robinson, N. Erasmus. 0.5-m reflector + CCD.
- T08 ATLAS-MLO, Mauna Loa. Observers L. Denneau, J. Tonry, H. Weiland. Measurers L. Denneau, J. Tonry, H. Weiland, A. Fitzsimmons, J. Robinson, N. Erasmus. 0.5-m reflector + CCD.
- W33 Transit Dreams Observatory, Campobello. Observer D. Wilde. 0.36-m Schmidt-Cassegrain + CCD.
- W34 Squirrel Valley Observatory, Columbus. Observer R. L. Flynn. 0.36-m f/1.9 Schmidt-Cassegrain + CCD.
- W46 Foxfire Village. Observer J. Haidet. 0.36-m f/6.3 Ritchey-Chretien + CCD.
- Y00 SONEAR Observatory, Oliveira. Observer C. Jacques. 0.28-m f/2.2 astrograph + CCD.
- Z80 Northolt Branch Observatory. Observer G. Wells. Measurers G. Wells, D. Bamberger. 0.25-m f/8.0 Ritchey-Chretien + CCD.

Orbital elements:

2021 VA		Earth MOID = 0.0051 AU	
Epoch 2021 July 5.0 TT = JDT 2459400.5		Veres	
M 312.88430	(2000.0)	P	Q
n 0.87149218	Peri. 80.36898	+0.43587702	+0.86271923
a 1.0854931	Node 218.95533	-0.89869575	+0.43257691
e 0.3673184	Incl. 24.06498	+0.04855073	+0.26190218
P 1.13	H 25.56	G 0.15	U 6

Residuals in seconds of arc

211101 T05	0.3+	0.5-	211101 J57	0.0	1.2-	211102 Y00	0.0	0.2+
211101 T05	0.2+	0.5-	211101 J57	0.2+	0.9-	211102 Y00	0.1-	0.2-
211101 T05	0.3+	0.5-	211101 J57	0.3+	1.0-	211102 Y00	0.6-	0.1-
211101 T05	0.0	0.0	211101 J57	0.4+	1.3-	211102 W33	0.1+	0.4+
211101 T05	0.3-	0.3+	211101 J57	0.2+	1.1-	211102 W33	0.4-	0.3+
211101 T08	0.1-	0.1-	211101 K38	0.4+	0.1+	211102 W33	0.6-	0.6+
211101 T08	0.0	0.3-	211101 K38	0.2-	0.2+	211102 W33	0.2+	0.3+
211101 T08	0.1-	0.4+	211101 K38	0.5+	0.3-	211102 W34	0.3+	0.4-
211101 T08	0.6-	1.2+	211101 K38	0.3+	0.3-	211102 W46	1.1-	2.5+
211101 T08	0.4-	0.6+	211101 J95	0.2-	0.2+	211102 W46	1.0-	2.8+
211101 T05	0.3-	0.5+	211101 J95	0.3-	0.3+	211102 W34	0.0	0.4-
211101 T05	0.1-	0.4+	211101 J95	0.1-	0.4+	211102 W46	(1.2-	3.2+)
211101 T05	0.3-	0.4+	211101 J95	0.1-	0.4+	211102 W46	0.4-	2.8+
211101 T05	0.3+	0.4-	211101 J95	0.1-	0.3+	211102 W34	0.3+	0.6-
211101 T05	0.5-	1.0+	211101 T04	0.0	0.3-	211102 W34	0.4+	1.0-
211101 T05	1.1+	3.3-	211101 T04	0.0	0.1+	211102 W34	0.0	0.7-
211101 L18	0.0	0.1+	211101 T04	0.2-	0.3-	211102 W34	0.3-	0.5-
211101 L18	0.1+	1.0-	211101 T04	0.1-	0.0	211102 I22	1.1-	0.6+
211101 L18	0.3+	0.3-	211101 T04	0.1-	0.0	211102 I22	0.0	0.8+
211101 J69	0.4-	0.1-	211101 Z80	0.1+	0.6+	211102 T08	0.2+	0.5-
211101 J69	0.0	0.5+	211101 Z80	0.3-	0.3-	211102 T08	0.4-	0.2-
211101 J69	0.0	0.2-	211101 Z80	0.1-	0.2-	211102 T08	0.2-	0.2+
211101 Z80	0.0	0.0	211101 Z80	0.1-	0.0	211102 T08	0.3+	0.2-
211101 Z80	0.3-	0.2+	211102 W33	0.5-	0.1-	211102 E23	0.0	0.2-
211101 Z80	0.1-	0.1+	211102 Y00	0.4+	0.3-	211102 E23	0.3+	0.1-
211101 J57	0.6+	1.3-	211102 W33	0.3-	0.1+	211102 E23	0.2+	0.5-

Ephemeris:

2021 VA		a,e,i = 1.09, 0.37, 24		q = 0.6868				
Date	TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	V
2021 10 03		14 25 43.1	+29 27 03	0.2886	0.8116	42.5	123.6	27.5
...								
2021 10 18		14 35 06.0	+33 27 51	0.1375	0.9055	45.6	128.2	26.6
...								
2021 10 26		14 43 15.6	+37 04 50	0.05901	0.9576	50.4	126.9	24.7
...								
2021 11 01		23 41 17.3	+49 15 38	0.0058660	0.9965	131.8	48.0	16.2
2021 11 02		01 38 38.7	-03 56 47	0.01144	1.0030	157.7	22.1	16.9

2021 11 03	02 00 39.3	-17 05 07	0.02048	1.0094	147.0	32.4	18.5
...							
2021 11 09	02 22 36.0	-28 07 56	0.07882	1.0473	134.4	42.5	21.8
...							
2021 11 17	02 27 36.3	-29 17 25	0.1580	1.0962	129.6	44.0	23.4
...							
2021 12 02	02 33 45.9	-27 48 30	0.3091	1.1818	122.6	44.6	25.1

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