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MPEC 2021-V134 : 2021 VN2

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2021 VN2

Observations:

Table with 13 columns: Object ID, Date, Time, RA, Dec, Az, El, Alt, Az, El, Alt, Az, El, Alt. Contains observation data for various objects like K21V02N, K21V02N*, K21V02N, etc.

K21V02N KC2021 11 06.91209504 16 04.05 +36 42 49.6 20.3 GVEV134B49

Observer details:

- 204 Schiaparelli Observatory. Observer L. Buzzi. 0.84-m f/3.5 reflector + CCD.
- 246 Klet Observatory-KLENOT. Observers M. Tichy, J. Ticha, M. Honkova. Measurer M. Tichy. 1.06-m f/2.7 reflector + 2048x2048 CCD.
- 595 Farra d'Isonzo. Observer E. Pettarin. 0.40-m f/5.15 reflector + CCD.
- 958 Observatoire de Dax. Observer P. Dupouy. 0.32-m Schmidt-Cassegrain + CCD.
- A17 Guidestar Observatory, Weinheim. Observers M. Emmerich, S. Melchert. 0.36-m f/6.0 Schmidt-Cassegrain + CCD.
- B49 Paus Observatory, Sabadell. Observer J. Camarasa. 0.30-m f/4.0 reflector + CCD.
- C77 Bernezzo Observatory. Observer A. Mantero. 0.25-m f/4.0 reflector + 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. Observers M. Urbanik, S. Urbanik. Measurer M. Urbanik. 0.40-m f/4.5 Corrected Dall-Kirkham + CCD.
- G34 Oberfrauendorf. Observer T. Felber. 0.35-m f/6.3 Schmidt-Cassegrain + CCD.
- G96 Mt. Lemmon Survey. 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, F. C. Shelly, K. W. Wierzchos. 1.5-m reflector + 10K CCD.
- H21 Astronomical Research Observatory, Westfield. Observer R. Holmes. Measurers T. Linder, R. Holmes, L. Horn. 0.76-m f/3.0 astrograph + CCD.
- I52 Steward Observatory, Mt. Lemmon Station. Observer 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, F. C. Shelly, K. W. Wierzchos.
- I93 St Pardon de Conques. Observer F. Losse. 0.40-m f/3.7 reflector + 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.
- L01 Visnjan Observatory, Tican. Observer K. Korlevic. 1.0-m f/2.9 reflector + CCD.

Orbital elements:

2021 VN2				Earth MOID = 0.0066 AU	
Epoch 2021 July 5.0 TT = JDT 2459400.5				Veres	
M 327.39183	(2000.0)	P	Q		
n 0.39274998	Peri. 308.00434	+0.97663088	+0.18476914		
a 1.8466812	Node 41.67540	-0.10520439	+0.85640866		
e 0.5267944	Incl. 9.50368	-0.18741440	+0.48210432		
P 2.51	H 25.31	G 0.15	U 7		

Residuals in seconds of arc

211105 G96	0.2+	0.2-	211106 958	0.2+	0.3+	211106 A17	0.3-	0.0
211105 G96	0.1-	0.1+	211106 204	0.1-	0.1+	211106 A17	0.1-	0.1-
211105 G96	0.1-	0.0	211106 958	0.8+	0.4-	211106 G34	0.7+	0.2-
211105 I52	0.1-	0.0	211106 204	0.1-	0.3+	211106 G34	0.2+	0.1+
211105 I52	0.0	0.1+	211106 204	0.1+	0.0	211106 G34	0.4-	0.2-
211105 I52	0.1+	0.1+	211106 C95	0.3+	0.3+	211106 246	0.2+	0.0
211105 I52	0.1-	0.0	211106 C95	0.1-	0.1-	211106 246	0.0	0.8+
211105 I93	0.0	0.1+	211106 C95	0.4-	0.8-	211106 246	0.6+	0.2+
211105 I93	0.4-	0.2+	211106 L01	0.6-	0.2+	211106 246	0.5+	0.3+
211105 I93	0.1+	0.2-	211106 L01	0.2+	0.3-	211106 246	0.1+	0.4-
211105 C77	0.1-	0.3+	211106 L01	0.4-	0.3+	211106 J57	0.3-	0.8+
211105 C77	0.1+	0.4+	211106 L01	0.0	0.7-	211106 G02	1.4-	0.3+
211105 C77	0.4+	0.2+	211106 H21	0.2+	0.3-	211106 G02	0.6-	0.0
211105 595	0.1+	0.2-	211106 H21	0.2+	0.2-	211106 J57	0.7+	0.5+
211105 595	0.7+	0.1+	211106 H21	0.3+	0.1-	211106 G02	0.2-	0.4-
211105 595	0.0	0.2+	211106 H21	0.3+	0.3-	211106 B49	0.9+	0.5-
211105 595	0.1+	0.4-	211106 A17	0.5-	0.2+	211106 B49	0.4+	0.4+
211106 958	0.1-	0.6-	211106 A17	0.6-	0.0			

Ephemeris:

2021 VN2		a,e,i = 1.85, 0.53, 10			q = 0.8739			
Date	TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	V
2021 10 08		14 59 32.1	-45 21 54	0.1815	0.8883	48.1	123.2	26.4
...								
2021 10 23		14 39 36.8	-50 09 26	0.06874	0.9435	40.2	137.1	25.9
...								
2021 10 31		10 16 04.4	-52 15 21	0.01366	0.9864	61.4	117.9	20.6
...								
2021 11 06		04 24 36.0	+34 55 32	0.03639	1.0232	150.5	28.5	19.4
2021 11 07		04 15 11.8	+36 52 04	0.04352	1.0297	151.7	27.1	19.8
2021 11 08		04 08 05.7	+38 13 07	0.05074	1.0362	152.6	26.1	20.1
...								
2021 11 14		03 46 27.8	+41 34 09	0.09517	1.0769	155.7	22.2	21.4
...								
2021 11 22		03 35 53.5	+42 22 29	0.1571	1.1345	157.5	19.5	22.5
...								
2021 12 07		03 31 25.8	+41 27 03	0.2852	1.2486	154.4	19.9	24.1

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