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MPEC 2021-X108 : 2021 XH2

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2021 XH2

Observations:

K21X02H*	C2021	12	02.57947409	14	13.69	+74	02	06.0	19.14oVEX108T08	
K21X02H	C2021	12	02.58234709	14	16.04	+74	02	09.8	18.98oVEX108T08	
K21X02H	C2021	12	02.58557709	14	18.84	+74	02	12.6	19.04oVEX108T08	
K21X02H	C2021	12	02.59350609	14	26.29	+74	02	23.4	19.05oVEX108T08	
K21X02H	hC2021	12	02.76211309	17	05.11	+74	05	23.6	19.0 GVEX108J95	
K21X02H	KC2021	12	02.78982409	17	31.87	+74	06	00.2	18.7 GVEX108J95	
K21X02H	hC2021	12	02.79278709	17	34.58	+74	06	04.0	19.3 GVEX108J95	
K21X02H	KC2021	12	02.88097709	19	00.50	+74	08	03.7	19.3 GVEX108S87	
K21X02H	KC2021	12	02.88169409	19	01.19	+74	08	04.4	19.1 GVEX108S87	
K21X02H	KC2021	12	02.88241109	19	01.91	+74	08	05.6	19.1 GVEX108S87	
K21X02H	KC2021	12	02.890609	09	19	09.24	+74	08	16.8	19.1 RVEX108B15
K21X02H	KC2021	12	02.89179	09	19	10.38	+74	08	18.6	19.1 RVEX108B15
K21X02H	KC2021	12	02.89288	09	19	11.43	+74	08	20.2	19.0 RVEX108B15
K21X02H	KC2021	12	02.89426	09	19	12.75	+74	08	21.8	19.0 RVEX108B15
K21X02H	1C2021	12	02.89668	09	19	15.22	+74	08	24.9	20.4 VVEX108033
K21X02H	1C2021	12	02.89697	09	19	15.45	+74	08	25.4	20.4 VVEX108033
K21X02H	1C2021	12	02.89725	09	19	15.77	+74	08	25.7	20.3 VVEX108033
K21X02H	KC2021	12	03.05051	09	21	42.79	+74	11	45.0	19.1 GVEX108I93
K21X02H	KC2021	12	03.05588	09	21	47.97	+74	11	52.0	19.6 GVEX108I93
K21X02H	KC2021	12	03.06107	09	21	52.93	+74	11	58.7	19.4 GVEX108I93
K21X02H	1C2021	12	03.22673	09	24	30.17	+74	15	17.1	20.1 VVEX108033
K21X02H	1C2021	12	03.22702	09	24	30.31	+74	15	17.2	20.0 VVEX108033
K21X02H	1C2021	12	03.22730	09	24	30.61	+74	15	17.9	20.0 VVEX108033
K21X02H	1C2021	12	03.22774	09	24	31.05	+74	15	18.3	20.4 VVEX108033
K21X02H	mC2021	12	03.43602609	28	01.02	+74	19	23.5	19.34GVEX108I52	
K21X02H	mC2021	12	03.43837609	28	03.38	+74	19	26.4	19.35GVEX108I52	
K21X02H	mC2021	12	03.44072509	28	05.70	+74	19	28.7	VEX108I52	
K21X02H	mC2021	12	03.44308609	28	07.90	+74	19	31.9	19.58GVEX108I52	
K21X02H	1C2021	12	03.76852	09	33	38.19	+74	24	53.2	20.8 VVEX108033
K21X02H	1C2021	12	03.76881	09	33	38.54	+74	24	53.2	20.2 VVEX108033
K21X02H	1C2021	12	03.80964	09	34	21.07	+74	25	38.1	20.5 VVEX108033
K21X02H	1C2021	12	03.80992	09	34	21.47	+74	25	38.5	20.6 VVEX108033
K21X02H	1C2021	12	03.81021	09	34	21.84	+74	25	38.7	20.5 VVEX108033
K21X02H	KC2021	12	03.83872509	34	51.91	+74	26	09.3	19.8 GVEX108I04	
K21X02H	KC2021	12	03.85376209	35	07.77	+74	26	26.5	VEX108I04	
K21X02H	KC2021	12	03.87256109	35	27.52	+74	26	47.0	19.9 GVEX108I04	
K21X02H	KC2021	12	03.87536	09	35	30.23	+74	26	47.2	19.4 GVEX108J57
K21X02H	KC2021	12	03.89766	09	35	53.41	+74	27	12.6	18.6 GVEX108J57
K21X02H	KC2021	12	03.92000	09	36	16.91	+74	27	36.4	19.5 GVEX108J57
K21X02H	KC2021	12	03.98317909	37	21.96	+74	28	50.6	19.5 GVEX108L01	
K21X02H	KC2021	12	03.98474009	37	23.63	+74	28	52.4	19.6 GVEX108L01	
K21X02H	KC2021	12	03.98630109	37	25.22	+74	28	54.2	19.5 GVEX108L01	
K21X02H	KC2021	12	03.98786209	37	26.75	+74	28	55.9	19.6 GVEX108L01	
K21X02H	KC2021	12	03.98942309	37	28.43	+74	28	57.3	19.6 GVEX108L01	

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.
104 San Marcello Pistoiese. Observers P. Bacci, M. Maestripieri. Measurers P. Bacci, L. Tesi, G. Fagioli. 0.60-m reflector + CCD.

587 Sormano, Observer E. Colzani. Measurer P. Sicoli. 0.5-m f/6.8 reflector + CCD.
B15 Inastars Observatory, Potsdam (since 2006), Observer B. Thinius. 0.36-m f/5.6 Schmidt-Cassegrain + CCD.
 I52 Steward Observatory, Mt. Lemmon Station. 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. Wierzos.
 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.
J95 Great Shefford, Observer P. Birtwhistle. 0.41-m f/6.3 Schmidt-Cassegrain + CCD.
 L01 Visnjan Observatory, Tican. Observers K. Korlevic, M. Himelreich. Measurer K. Korlevic. 1.0-m f/2.9 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.

Orbital elements:

2021 XH2 Earth MOID = 0.1522 AU
 Epoch 2022 Jan. 21.0 TT = JDT 2459600.5 Veres
 M 356.02004 (2000.0) P Q
 n 0.29546494 Peri. 214.85927 -0.95090444 -0.20815673
 a 2.2325374 Node 311.39894 +0.30391763 -0.76779416
 e 0.6814125 Incl. 17.77704 -0.05843655 -0.60593969
 P 3.34 H 19.74 G 0.15 U 9

Residuals in seconds of arc

211202 T08	1.1+	0.3+	211202 033	0.1-	0.2+	211203 033	0.6-	0.1+
211202 T08	0.1+	0.3+	211202 033	0.1+	0.1+	211203 033	0.2-	0.2+
211202 T08	0.3-	1.2-	211203 I93	0.3-	0.1-	211203 033	0.1+	0.1+
211202 T08	1.0+	0.9-	211203 I93	0.0	0.1+	211203 104	0.5-	0.2-
211202 J95	0.1+	0.4-	211203 I93	0.1+	0.1+	211203 104	0.1+	0.1+
211202 J95	0.1+	0.1-	211203 033	0.5+	0.0	211203 104	0.7+	0.4-
211202 J95	0.6-	0.2-	211203 033	0.1-	0.2-	211203 J57	0.1+	0.1+
211202 587	0.0	0.4+	211203 033	0.0	0.1+	211203 J57	0.6-	0.6+
211202 587	0.0	0.1+	211203 033	0.1+	0.0	211203 J57	0.1-	0.6-
211202 587	0.2+	0.3+	211203 I52	0.2-	0.0	211203 L01	0.1-	0.1+
211202 B15	0.5-	0.3-	211203 I52	0.1+	0.2+	211203 L01	0.1+	0.3+
211202 B15	0.1-	0.1+	211203 I52	0.2+	0.3-	211203 L01	0.0	0.4+
211202 B15	0.1-	0.2+	211203 I52	0.1-	0.1+	211203 L01	0.3-	0.4+
211202 B15	0.1-	0.1-	211203 033	0.2-	0.6+	211203 L01	0.0	0.1+
211202 033	0.1+	0.1+	211203 033	0.0	0.3+			

Ephemeris:

2021 XH2 a,e,i = 2.23, 0.68, 18 q = 0.7113
 Date TT R. A. (2000) Decl. Delta r Elong. Phase V
 2021 11 04 06 12 00.5 +60 15 43 0.7289 1.5011 120.7 34.6 21.4
 ...
 2021 11 19 07 08 41.1 +67 15 58 0.5299 1.3448 121.7 38.7 20.5
 ...
 2021 11 27 08 05 36.6 +71 28 10 0.4345 1.2597 119.7 42.9 20.1
 ...
 2021 12 03 09 20 50.0 +74 10 37 0.3681 1.1955 116.3 47.7 19.8
 2021 12 04 09 37 34.8 +74 29 04 0.3576 1.1848 115.6 48.6 19.7
 2021 12 05 09 55 40.0 +74 43 10 0.3471 1.1740 114.8 49.7 19.6
 ...
 2021 12 11 12 04 04.5 +73 41 35 0.2881 1.1099 108.4 57.3 19.3
 ...
 2021 12 19 14 27 35.1 +62 25 38 0.2225 1.0256 94.5 73.0 19.1
 ...
 2022 01 03 16 18 23.9 +12 20 56 0.1915 0.8778 51.8 118.4 20.6

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