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# MPEC 2021-X231 : 2021 XK6

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2021 XK6

### Observations:

K21X06K*	C2021	12	14.57629612	18	39.89	+78	25	21.4	18.04oVEX231T08	
K21X06K	C2021	12	14.57953612	18	25.62	+78	24	54.4	18.20oVEX231T08	
K21X06K	C2021	12	14.58508412	18	01.21	+78	24	08.4	18.14oVEX231T08	
K21X06K	C2021	12	14.59517412	17	16.11	+78	22	43.5	18.12oVEX231T08	
K21X06K	C2021	12	14.68568412	11	12.13	+78	06	32.6	18.2 GVEX231900	
K21X06K	C2021	12	14.69181612	10	46.45	+78	05	38.1	18.1 GVEX231900	
K21X06K	C2021	12	14.69794812	10	20.70	+78	04	43.7	18.1 GVEX231900	
K21X06K	C2021	12	14.70380	12	09	57.39	+78	03	45.8	18.1 RrEX231P93
K21X06K	C2021	12	14.70408112	09	54.77	+78	03	47.6	17.8 GVEX231900	
K21X06K	C2021	12	14.70593	12	09	48.41	+78	03	26.9	18.2 RrEX231P93
K21X06K	C2021	12	14.70702	12	09	43.85	+78	03	17.1	18.2 RrEX231P93
K21X06K	KC2021	12	14.70927112	08	31.40	+77	59	45.9	18.1 G EX231C95	
K21X06K	KC2021	12	14.71291112	08	17.73	+77	59	09.2	17.4 G EX231C95	
K21X06K	KC2021	12	14.71653412	08	03.90	+77	58	31.1	17.4 G EX231C95	
K21X06K	KC2021	12	14.71989612	07	51.48	+77	57	56.3	16.8 G EX231C95	
K21X06K	KC2021	12	14.72299812	07	39.24	+77	57	24.0	16.6 G EX231C95	
K21X06K	KC2021	12	14.83274612	00	44.59	+77	38	13.4	18.9 GVEX231Z33	
K21X06K	KC2021	12	14.85627111	59	17.98	+77	34	06.7	18.6 GVEX231Z33	
K21X06K	KC2021	12	14.86141511	58	58.62	+77	33	13.5	18.5 GVEX231Z33	
K21X06K	KC2021	12	14.86655811	58	39.87	+77	32	19.5	VEX231Z33	
K21X06K	KC2021	12	14.86755811	58	31.52	+77	32	31.1	17.9 GVEX231Z80	
K21X06K	KC2021	12	14.87235111	58	13.41	+77	31	40.1	17.7 GVEX231Z80	
K21X06K	KC2021	12	14.87733911	57	54.84	+77	30	47.2	VEX231Z80	
K21X06K	KC2021	12	14.91365911	55	47.12	+77	24	43.7	18.0 GXEX231595	
K21X06K	IC2021	12	14.91799111	55	30.23	+77	23	57.3	XEX231595	
K21X06K	KC2021	12	14.92171	11	55	14.67	+77	22	42.1	18.6 GXEX231J57
K21X06K	KC2021	12	14.92214411	55	14.58	+77	23	13.9	18.0 GXEX231595	
K21X06K	KC2021	12	14.92843811	54	50.99	+77	22	07.6	18.4 GVEX231L01	
K21X06K	KC2021	12	14.92869	11	54	48.60	+77	21	28.6	18.4 GXEX231J57
K21X06K	KC2021	12	14.93050911	54	42.96	+77	21	45.5	18.4 GVEX231L01	
K21X06K	KC2021	12	14.93154711	54	39.04	+77	21	34.6	18.3 GVEX231L01	
K21X06K	KC2021	12	14.93258511	54	35.06	+77	21	23.7	18.3 GVEX231L01	
K21X06K	KC2021	12	14.93388011	54	29.99	+77	21	10.0	18.3 GVEX231L01	
K21X06K	KC2021	12	14.93551	11	54	23.02	+77	20	15.8	18.4 GXEX231J57
K21X06K	KC2021	12	15.05195011	46	47.85	+76	58	51.0	18.6 GVEX231Z99	
K21X06K	KC2021	12	15.05509111	46	35.68	+76	58	14.8	18.9 GVEX231Z99	
K21X06K	KC2021	12	15.05828311	46	23.44	+76	57	37.8	18.8 GVEX231Z99	
K21X06K	KC2021	12	15.06112411	46	12.35	+76	57	05.2	18.5 GVEX231Z99	
K21X06K	C2021	12	15.51938	11	18	50.94	+75	08	01.0	17.1 RrEX231P93
K21X06K	C2021	12	15.52021	11	18	48.28	+75	07	48.6	17.3 RrEX231P93
K21X06K	C2021	12	15.52105	11	18	45.54	+75	07	36.3	17.1 RrEX231P93
K21X06K	C2021	12	15.52194	11	18	42.70	+75	07	23.0	17.2 RrEX231P93
K21X06K	C2021	12	15.57103611	16	04.05	+74	55	18.4	17.6 GVEX231900	
K21X06K	C2021	12	15.57471411	15	51.99	+74	54	23.0	17.3 GVEX231900	
K21X06K	C2021	12	15.57839111	15	40.18	+74	53	27.5	17.8 GVEX231900	
K21X06K	KC2021	12	15.77146211	04	39.74	+73	56	50.6	17.6 GXEX231958	
K21X06K	KC2021	12	15.77536411	04	28.53	+73	55	42.7	18.0 GXEX231958	
K21X06K	KC2021	12	15.77918511	04	17.49	+73	54	35.5	17.8 GXEX231958	

Observer details:  
595 Farra d'Isonzo. Observer E. Pettarin. 0.40-m f/5.15 reflector + CCD.

900 Moriyama. Observer Y. Ikari. 0.26-m f/7.0 reflector + CCD.  
 958 Observatoire de Dax. Observers P. Dupouy, J. B. de Vanssay. Measurer P. Dupouy. 0.43-m f/2.7 reflector + CCD.  
 C95 SATINO Remote Observatory, Haute Provence. Observer J. Jahn. 0.60-m f/3.2 Newtonian reflector + CCD.  
 357 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.  
 P93 Space Tracking and Communications Center, JAXA. Observers T. Fujiwara, M. Hagino. 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.  
 Z33 6ROADS Observatory 2, Nerpio. Observers R. Reszelewski, M. Zolnowski, M. Gedek, K. Zukowski, T. Santana-Ros. Measurer R. Reszelewski. 0.4-m f/8 reflector + CCD.  
 Z80 Northolt Branch Observatory. Observer G. Wells. Measurers G. Wells, D. Bamberger. 0.25-m f/8.0 Ritchey-Chretien + CCD.  
 Z99 Clixby Observatory, Cleethorpes. Observer A. Mickleburgh. 0.36-m f/8 Schmidt-Cassegrain + CCD.

Orbital elements:

2021 XK6 Earth MOID = 0.0168 AU  
 Epoch 2022 Jan. 21.0 TT = JDT 2459600.5 Veres  
 M 18.63416 (2000.0) P Q  
 n 0.56151684 Peri. 178.16790 +0.04170757 -0.93288466  
 a 1.4551045 Node 269.32038 +0.91207372 +0.18173039  
 e 0.3125876 Incl. 20.96376 +0.40789952 -0.31096668  
 P 1.76 H 22.75 G 0.15 U 8

Residuals in seconds of arc

211214 T08	0.5-	0.3+	211214 Z33	0.1-	0.0	211214 L01	0.4-	0.0
211214 T08	0.1-	0.1+	211214 Z33	0.4+	0.5-	211214 J57	0.1-	0.5-
211214 T08	0.6+	0.2+	211214 Z33	0.8-	0.2+	211215 Z99	0.0	0.1-
211214 T08	0.0	0.1+	211214 Z33	0.0	0.1+	211215 Z99	0.0	0.0
211214 900	0.2-	0.5-	211214 Z80	0.2-	0.4+	211215 Z99	0.5+	0.1-
211214 900	0.4-	0.7-	211214 Z80	0.6-	0.1+	211215 Z99	0.2+	0.3+
211214 900	0.5-	0.5-	211214 Z80	0.0	0.0	211215 P93	0.2+	0.1+
211214 P93	0.6+	0.1-	211214 595	0.6+	0.5+	211215 P93	0.2+	0.0
211214 900	1.0-	1.6-	211214 595	0.6-	0.3-	211215 P93	0.1+	0.1+
211214 P93	0.4+	0.1+	211214 J57	0.3-	0.6-	211215 P93	0.1+	0.0
211214 P93	0.5+	0.2+	211214 595	0.1+	0.1+	211215 900	0.8-	0.7-
211214 C95	0.3-	0.2-	211214 L01	0.1+	0.0	211215 900	0.9-	0.9-
211214 C95	0.1+	0.6+	211214 J57	0.1-	0.1-	211215 900	0.0	1.2-
211214 C95	0.2-	0.2-	211214 L01	0.2-	0.2-	211215 958	0.5-	0.4+
211214 C95	0.7+	0.4-	211214 L01	0.1-	0.2-	211215 958	0.1-	0.7+
211214 C95	0.9-	0.7-	211214 L01	0.1-	0.1-	211215 958	0.0	0.3+

Ephemeris:

2021 XK6 a,e,i = 1.46, 0.31, 21 q = 1.0003  
 Date TT R. A. (2000) Decl. Delta r Elong. Phase V  
 2021 11 15 19 11 07.5 +72 07 43 0.2378 1.0503 98.3 68.7 22.2  
 ...  
 2021 11 30 18 31 09.0 +74 17 45 0.1427 1.0162 98.1 73.9 21.1  
 ...  
 2021 12 08 17 25 11.2 +78 00 23 0.08897 1.0055 100.8 74.2 20.1  
 ...  
 2021 12 14 12 59 28.8 +79 35 16 0.04929 1.0013 108.7 68.6 18.6  
 2021 12 15 11 49 34.9 +77 09 34 0.04310 1.0009 111.5 66.2 18.3  
 2021 12 16 10 52 56.6 +72 49 21 0.03721 1.0006 115.2 62.9 17.8  
 ...  
 2021 12 22 08 36 53.4 -07 27 30 0.02574 1.0007 130.8 48.1 16.6  
 ...  
 2021 12 30 07 55 21.5 -48 35 41 0.07299 1.0060 106.0 70.0 19.5  
 ...  
 2022 01 14 07 31 29.6 -57 29 41 0.1732 1.0310 101.1 69.4 21.4

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