

MPEC 2008-Y30 : 2008 YK2

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M.P.E.C. 2008-Y30

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2008 YK2

Observations:

K08Y02K*	C2008	12	20.32714	07	41	32.05	+22	01	20.8	18.1	EY030704
K08Y02K	C2008	12	20.34005	07	41	33.28	+22	02	32.0	18.2	EY030704
K08Y02K	C2008	12	20.35295	07	41	34.61	+22	03	39.9	18.2	EY030704
K08Y02K	C2008	12	20.36586	07	41	35.85	+22	04	49.6	18.2	EY030704
K08Y02K	C2008	12	20.37872	07	41	37.15	+22	05	59.0	18.2	EY030704
K08Y02K	C2008	12	20.94770	07	42	41.46	+22	57	31.9	17.7	R EY030235
K08Y02K	C2008	12	20.95540	07	42	42.25	+22	58	14.0	18.3	R EY030235
K08Y02K	C2008	12	20.96339	07	42	43.08	+22	58	58.7	17.9	R EY030235
K08Y02K	C2008	12	20.96699	07	42	43.49	+22	59	16.7	17.9	V EY030A74
K08Y02K	C2008	12	20.96917	07	42	43.62	+22	59	31.6	18.4	V EY030595
K08Y02K	C2008	12	20.97406	07	42	44.23	+22	59	58.3	18.2	V EY030595
K08Y02K	C2008	12	20.97529	07	42	44.35	+23	00	02.8	18.1	V EY030A74
K08Y02K	C2008	12	20.98011	07	42	44.82	+23	00	31.7		EY030595
K08Y02K	C2008	12	20.98323	07	42	45.18	+23	00	47.1	17.6	V EY030A74
K08Y02K	C2008	12	21.00165	07	42	47.08	+23	02	28.9	18.1	V EY030A74
K08Y02K	C2008	12	21.00381	07	42	47.43	+23	02	40.4	17.9	V EY030A74
K08Y02K	C2008	12	21.00562	07	42	47.57	+23	02	52.2	16.8	V EY030A74
K08Y02K	C2008	12	21.00682	07	42	48.07	+23	03	03.1	17.7	C EY030493
K08Y02K	C2008	12	21.00807	07	42	48.20	+23	03	10.1	17.6	C EY030493
K08Y02K	C2008	12	21.00932	07	42	48.33	+23	03	17.1	17.7	C EY030493
K08Y02K	C2008	12	21.18914407	43	09.71	+23	19	54.6	17.9	R EY030648	
K08Y02K	C2008	12	21.19532407	43	10.40	+23	20	29.4	17.9	R EY030648	
K08Y02K	C2008	12	21.20201407	43	11.12	+23	21	06.9	18.2	R EY030648	
K08Y02K	C2008	12	21.22295	07	43	10.35	+23	23	01.6	17.9	V EY030J75
K08Y02K	C2008	12	21.23619	07	43	11.77	+23	24	14.5	17.9	V EY030J75
K08Y02K	C2008	12	21.24937	07	43	13.22	+23	25	28.0	17.9	V EY030J75
K08Y02K	C2008	12	21.26603	07	43	17.85	+23	27	07.1	18.7	R EY030854
K08Y02K	C2008	12	21.26699	07	43	18.02	+23	27	12.9	18.5	R EY030854
K08Y02K	C2008	12	21.26890	07	43	18.25	+23	27	23.6	18.7	R EY030854
K08Y02K	C2008	12	21.27652	07	43	18.89	+23	28	05.8	18.2	R EY030H01
K08Y02K	C2008	12	21.27855	07	43	19.10	+23	28	17.2	18.2	R EY030H01
K08Y02K	C2008	12	21.28285	07	43	19.55	+23	28	41.4	18.1	R EY030H01
K08Y02K	C2008	12	21.28610	07	43	19.89	+23	28	59.7	18.1	R EY030H01
K08Y02K	C2008	12	21.28902	07	43	20.19	+23	29	16.1	18.1	R EY030H01

K08Y02K	C2008	12	21.31513	07	43	22.86	+23	31	43.8	17.8	EY030704
K08Y02K	C2008	12	21.32799	07	43	24.18	+23	32	56.4	18.1	EY030704
K08Y02K	C2008	12	21.34083	07	43	25.47	+23	34	09.4	18.3	EY030704
K08Y02K	C2008	12	21.35408	07	43	26.90	+23	35	25.4	19.1	EY030704
K08Y02K	C2008	12	21.36696	07	43	28.12	+23	36	35.1	18.2	EY030704
K08Y02K	C2008	12	21.91926	07	44	33.14	+24	28	46.0		EY030587
K08Y02K	C2008	12	21.92109	07	44	33.34	+24	28	59.7	17.9	R EY030587
K08Y02K	C2008	12	21.92259	07	44	33.51	+24	29	08.1	17.6	R EY030587
K08Y02K	C2008	12	21.94008	07	44	35.33	+24	30	49.5	17.7	R EY030473
K08Y02K	C2008	12	21.94051	07	44	35.38	+24	30	52.0	17.7	R EY030473
K08Y02K	C2008	12	21.97764	07	44	39.48	+24	34	26.9		EY030204
K08Y02K	C2008	12	21.98178	07	44	39.95	+24	34	50.8		EY030204
K08Y02K	C2008	12	21.98588	07	44	40.39	+24	35	14.7	17.4	R EY030204
K08Y02K	%C2008	12	22.34884	07	45	22.80	+25	10	33.5	17.5	R EY030H06
K08Y02K	%C2008	12	22.35534	07	45	23.47	+25	11	11.6	17.5	R EY030H06
K08Y02K	%C2008	12	22.35804	07	45	23.79	+25	11	27.7	17.8	R EY030H06
K08Y02K	C2008	12	22.64103	07	45	58.24	+25	39	16.8		EY030900
K08Y02K	C2008	12	22.65039	07	45	59.12	+25	40	11.2		EY030900
K08Y02K	C2008	12	22.65597	07	45	59.77	+25	40	45.1		EY030900
K08Y02K	C2008	12	22.65978	07	46	00.14	+25	41	07.3	17.9	V EY030900

Observer details:

204 Schiaparelli Observatory. Observer L. Buzzi. 0.60-m f/4.64 reflector + CCD.

235 CAST Observatory, Talmassons. Observer R. Ligustri. 0.35-m f/5 reflector + CCD.

473 Remanzacco. Observers L. Donato, M. Gonano, V. Gonano, E. Guido, V. Santini, G. Sostero. 0.45-m f/4.4 Newtonian reflector + CCD.

493 Calar Alto. Observer F. Hormuth. 1.23-m reflector + CCD.

587 Sormano. Observers F. Manca, A. Testa. Measurer F. Manca. 0.5-m f/6.8 reflector + CCD.

595 Farra d'Isonzo. Observers L. Bittesini, E. Pettarin, F. Piani. Measurer E. Pettarin. 0.30-m f/4.5 reflector + CCD.

648 Winer Observatory, Sonoita. Observers M. Trueblood, R. Crawford. Measurer R. Crawford. 0.5-m f/4.5 Newtonian reflector + CCD.

704 Lincoln Laboratory ETS, New Mexico. Observers M. Bezpalko, D. Torres, R. Kracke, G. Spitz, J. Kistler. Measurers J. Stuart, S. Scruggs. 1.0-m f/2.15 reflector + CCD.

854 Sabino Canyon Observatory, Tucson. Observer J. E. McGaha. 0.36-m f/10.0 Schmidt-Cassegrain + CCD.

900 Moriyama. Observer Y. Ikari. 0.26-m f/7.0 reflector + CCD.

A74 Bergen-Enkheim Observatory. Observer U. Suessenberger. 0.4-m f/4 Newtonian reflector.

H01 Magdalen Ridge Observatory, Socorro. Observer W. H. Ryan. 2.4-m f/8.9 reflector + CCD.

H06 RAS Observatory, Mayhill. Observers E. Guido, G. Sostero, P. Camilleri. 0.25-m f/3.4 reflector + CCD.

J75 OAM Observatory, La Sagra. Observers S. Sanchez, J. Nomen, R. Stoss, W. K. Y. Yeung, J. Rodriguez, A. Cikota, S. Cikota. 0.45-m f/2.8 reflector + CCD.

Orbital elements:

2008 YK2										Earth MOID = 0.2304 AU
Epoch 2008 Nov. 30.0 TT = JDT 2454800.5										MPC
M 339.16894			(2000.0)		P				Q	
n 0.29579529	Peri.		47.62964		-0.71016582				-0.55513386	
a 2.2308749	Node		93.92554		+0.44750315				-0.83073184	
e 0.4988085	Incl.		25.72298		+0.54351213				-0.04136426	
P 3.33	H	19.4		G	0.15			U	8	

Residuals in seconds of arc

081220 704	0.4+	0.7-	081221 493	0.0	0.4-	081221 704	0.7-	1.3+
081220 704	0.3-	1.0+	081221 493	0.0	0.3-	081221 704	0.3+	2.7+
081220 704	0.5+	0.5-	081221 648	0.0	0.8+	081221 704	1.1-	0.0
081220 704	0.0	0.2-	081221 648	0.2+	0.7+	081221 587	0.2-	2.6-
081220 704	0.4+	0.0	081221 648	0.1+	0.5+	081221 587	0.2-	0.5+

081220 235	0.2+	0.2-	081221 J75	0.3-	0.5-	081221 587	0.1-	0.2+
081220 235	0.1+	0.8-	081221 J75	0.2-	0.9-	081221 473	0.0	0.1-
081220 235	0.1+	0.4-	081221 J75	0.1+	0.4-	081221 473	0.0	0.0
081220 A74	0.1-	0.1-	081221 854	1.0-	0.1-	081221 204	0.4-	0.1-
081220 595	0.6-	0.4+	081221 854	0.0	0.3+	081221 204	0.1-	0.2-
081220 595	0.8+	0.0	081221 854	0.4+	0.2+	081221 204	0.1-	0.0
081220 A74	0.2-	0.1-	081221 H01	0.1-	0.1-	081222 H06	0.2+	0.5-
081220 595	0.3+	0.2-	081221 H01	0.1-	0.1-	081222 H06	0.1-	0.5-
081220 A74	0.2-	0.2+	081221 H01	0.1-	0.1-	081222 H06	0.4+	0.3-
081221 A74	0.5-	0.2-	081221 H01	0.1-	0.1-	081222 900	1.5+	1.1+
081221 A74	1.2+	0.6-	081221 H01	0.1-	0.2-	081222 900	0.4-	0.3-
081221 A74	0.6+	1.1+	081221 704	0.3-	0.3+	081222 900	0.2+	0.4+
081221 493	0.0	0.4-	081221 704	0.3-	0.5+	081222 900	0.4-	0.1-

Ephemeris:

2008 YK2

a,e,i = 2.23, 0.50, 26

q = 1.1181

Date	TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	V
2008 12 20		07 40.93	+21 32.4	0.291	1.254	155.0	19.4	18.2
2008 12 30		08 03.66	+39 26.6	0.243	1.208	155.5	19.7	17.7
2009 01 09		08 47.38	+60 22.3	0.235	1.171	138.9	33.5	18.0
2009 01 19		10 42.59	+75 43.3	0.263	1.142	121.0	47.6	18.6
2009 01 29		14 21.88	+78 49.4	0.311	1.124	108.8	56.0	19.2
2009 02 08		16 12.71	+75 05.2	0.364	1.118	101.6	59.8	19.6
2009 02 18		16 46.07	+71 30.1	0.415	1.123	97.9	60.6	19.9
2009 02 28		16 51.95	+68 49.6	0.460	1.140	96.8	59.6	20.1
2009 03 10		16 43.83	+66 40.1	0.498	1.168	97.5	57.5	20.3
2009 03 20		16 26.55	+64 33.7	0.529	1.205	99.8	54.5	20.4
2009 03 30		16 02.90	+62 01.9	0.556	1.250	103.3	51.1	20.5
2009 04 09		15 36.42	+58 36.6	0.580	1.301	107.7	47.2	20.6
2009 04 19		15 11.04	+54 01.6	0.606	1.357	112.5	43.1	20.6
2009 04 29		14 49.72	+48 15.7	0.639	1.418	117.1	39.2	20.7
2009 05 09		14 34.07	+41 35.0	0.684	1.480	120.7	35.9	20.9
2009 05 19		14 24.12	+34 27.8	0.743	1.545	122.7	33.5	21.1
2009 05 29		14 19.19	+27 22.0	0.820	1.611	122.6	32.0	21.4
2009 06 08		14 18.46	+20 39.5	0.915	1.677	120.6	31.4	21.7
2009 06 18		14 21.05	+14 32.8	1.027	1.743	117.2	31.2	22.0

Timothy B. Spahr

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