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MPEC 2012-L35 : 2012 LF4

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M.P.E.C. 2012-L35

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2012 LF4

Observations:

K12L04F*	C2012	06	12.33513	17	26	13.70	-03	02	33.2	18.5	VrEL035703
K12L04F	C2012	06	12.34196	17	26	14.89	-03	01	11.0	18.4	VrEL035703
K12L04F	C2012	06	12.34882	17	26	15.75	-02	59	48.8	19.1	VrEL035703
K12L04F	C2012	06	12.35554	17	26	16.69	-02	58	27.5	19.1	VrEL035703
K12L04F	KC2012	06	12.89492	17	28	17.95	-01	07	35.5		tEL035204
K12L04F	KC2012	06	12.90265	17	28	19.30	-01	05	56.3		tEL035204
K12L04F	KC2012	06	12.91102	17	28	20.74	-01	04	09.4	18.8	RtEL035204
K12L04F	KC2012	06	12.96457	17	28	31.04	-00	52	38.3	18.9	VvEL035193
K12L04F	KC2012	06	12.97461	17	28	32.76	-00	50	28.9	19.3	VvEL035193
K12L04F	KC2012	06	12.98594	17	28	34.63	-00	48	02.8	19.3	VvEL035193
K12L04F	KC2012	06	13.09209	17	29	02.86	-00	21	17.8	19.0	uEL035821
K12L04F	KC2012	06	13.09399	17	29	03.21	-00	20	53.1	19.2	uEL035821
K12L04F	KC2012	06	13.09588	17	29	03.54	-00	20	27.6	19.4	uEL035821
K12L04F	C2012	06	13.24119	17	29	34.59	+00	08	10.9	18.7	RoEL035H01
K12L04F	C2012	06	13.24869	17	29	35.84	+00	09	50.8	18.8	RoEL035H01
K12L04F	C2012	06	13.25804	17	29	37.39	+00	11	55.4	18.8	RoEL035H01
K12L04F	C2012	06	13.26417	17	29	38.40	+00	13	17.2	18.8	RoEL035H01
K12L04F	JC2012	06	13.28437	17	29	42.56	+00	17	52.9	19.1	VcEL035695
K12L04F	JC2012	06	13.28552	17	29	42.75	+00	18	08.3	18.8	VcEL035695
K12L04F	JC2012	06	13.28647	17	29	42.91	+00	18	20.6	19.0	VcEL035695
K12L04F	KC2012	06	13.28652717	29	38.81	+00	18	01.4		19.2	VrEL035H21
K12L04F	JC2012	06	13.28743	17	29	43.06	+00	18	33.9	19.0	VcEL035695
K12L04F	KC2012	06	13.28952117	29	39.32	+00	18	41.3		19.3	VrEL035H21
K12L04F	KC2012	06	13.29251117	29	39.83	+00	19	21.4		19.2	VrEL035H21
K12L04F	KC2012	06	13.29529917	29	40.30	+00	19	59.2		19.3	VrEL035H21
K12L04F	KC2012	06	13.33421	17	29	48.14	+00	28	43.2	18.7	RuEL035H36
K12L04F	KC2012	06	13.33889	17	29	48.98	+00	29	46.5	18.6	RuEL035H36
K12L04F	KC2012	06	13.34440	17	29	49.96	+00	30	59.5	19.3	RuEL035H36

Observer details:

[204 Schiaparelli Observatory](#). Observer L. Buzzi. 0.38-m f/6.8 reflector + CCD.

[695 Kitt Peak](#). Observers M. Trueblood, K. Mighell, P. Romero, R. Crawford. Measurer R. Crawford. 2.1-m f/7.7 Ritchey-Chretien + CCD.

[703 Catalina Sky Survey](#). Observer A. Boattini. Measurers A. Boattini, E. J. Christensen, A. R. Gibbs, A. D. Grauer, R. E. Hill, R. A. Kowalski, S. M. Larson, R. H. McNaught. 0.68-m Schmidt + CCD.

821 Cordoba-Bosque Alegre. Observers C. Colazo, P. Guzzo, N. Muguero, C. Bellitti, G. Fassetta. Measurer C. Colazo. 1.54-m f/4.8 reflector

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+ CCD.
H01 Magdalena Ridge Observatory, Socorro. Observer W. H. Ryan. 2.4-m f/8.9 reflector + CCD.
 H21 Astronomical Research Observatory, Westfield. Observer R. Holmes. Measurers L. Buzzi, H. Devore, S. Foglia, T. Vorobjov. 0.61-m f/4.0 astrograph + CCD.
H36 Sandlot Observatory, Scranton. Observer G. Hug. 0.56-m reflector + CCD.
 I93 St Pardon de Conques. Observer F. Losse. 0.40-m f/5.0 reflector + CCD.

Orbital elements:

2012 LF4 Earth [MOID](#) = 0.0351 AU
 Epoch 2012 Mar. 14.0 TT = JDT 2456000.5 MPC
 M 258.51997 (2000.0) P Q
 n 0.68756798 Peri. 72.96398 +0.81877670 +0.56581533
 a 1.2713319 Node 252.47581 -0.55787148 +0.74411148
 e 0.2609689 Incl. 5.85342 -0.13558806 +0.35517758
 P 1.43 H 24.4 G 0.15 U 7

Residuals in seconds of arc

120612 703	1.3-	0.3-	120613 821	0.4-	0.3-	120613 H21	0.1+	0.2-
120612 703	1.9+	0.0	120613 821	0.1+	0.4-	120613 695	0.2+	0.3+
120612 703	0.0	0.1-	120613 821	0.3+	0.3+	120613 H21	0.1+	0.4-
120612 703	0.5-	0.4+	120613 H01	0.0	0.1+	120613 H21	0.1+	0.3-
120612 204	0.2-	0.3-	120613 H01	0.0	0.1+	120613 H21	0.0	0.1+
120612 204	0.1+	0.1+	120613 H01	0.0	0.0	120613 H36	0.7-	0.2+
120612 204	0.3+	0.1-	120613 H01	0.0	0.1+	120613 H36	0.3-	0.5+
120612 I93	0.5-	0.2+	120613 695	0.2+	0.3+	120613 H36	0.1-	0.7-
120612 I93	0.2+	0.2+	120613 695	0.3+	0.3+			
120612 I93	0.0	0.0	120613 695	0.3+	0.1-			

Ephemeris:

2012 LF4 a,e,i = 1.27, 0.26, 6 q = 0.9396

Date	TT	R.	A.	(2000)	Decl.	Delta	r	Elong.	Phase	V
2012 05 14		16	46	08.6	-33 00 17	0.1813	1.1794	156.7	19.8	22.0
...										
2012 05 29		16	59	11.2	-26 51 48	0.1058	1.1181	170.5	8.6	20.4
...										
2012 06 06		17	10	19.8	-17 57 30	0.07205	1.0865	174.4	5.2	19.3
...										
2012 06 12		17	25	07.9	-04 06 36	0.05085	1.0637	160.9	18.2	19.0
2012 06 13		17	28	36.7	-00 43 01	0.04787	1.0600	157.5	21.5	19.0
2012 06 14		17	32	31.3	+03 05 31	0.04511	1.0563	153.6	25.3	19.0
...										
2012 06 20		18	11	25.4	+35 10 01	0.03533	1.0350	121.3	57.1	19.3
...										
2012 06 28		21	30	39.9	+73 08 40	0.04550	1.0089	79.0	98.5	21.3
...										
2012 07 13		03	26	07.3	+63 34 24	0.09526	0.9691	57.8	117.5	23.9

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