



IAU Minor Planet Center

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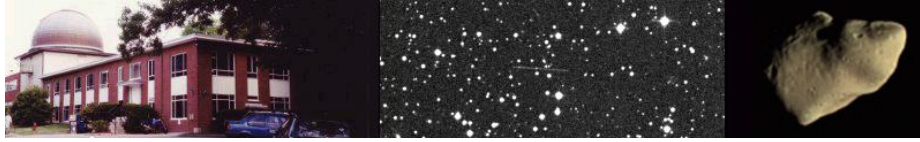
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MPEC 2011-B54 : 2011 BF24

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[Read MPEC 2011-B53](#)



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M.P.E.C. 2011-B54

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2011 BF24

Observations:

K11B24F*	C2011	01	28.40309	09	50	40.77	+08	20	59.1	20.7	VrEB054G96
K11B24F	C2011	01	28.41059	09	50	42.79	+08	19	13.7	20.4	VrEB054G96
K11B24F	C2011	01	28.42559	09	50	46.82	+08	15	41.3	20.6	VrEB054G96
K11B24F	C2011	01	28.46817	09	50	58.23	+08	05	30.6	20.1	RoEB054H01
K11B24F	JC2011	01	28.47443	09	51	00.43	+08	04	07.4	20.3	VoEB054695
K11B24F	C2011	01	28.47521	09	51	00.24	+08	03	49.9	20.2	RoEB054H01
K11B24F	JC2011	01	28.47535	09	51	00.69	+08	03	54.6	20.4	VoEB054695
K11B24F	JC2011	01	28.47609	09	51	00.91	+08	03	43.9	20.6	VoEB054695
K11B24F	C2011	01	28.48153	09	51	02.05	+08	02	19.2	20.1	RoEB054H01
K11B24F	C2011	01	28.48895	09	51	04.18	+08	00	32.6	20.5	RoEB054H01

Observer details:

[695 Kitt Peak](#). Observers M. Trueblood, L. Lebofsky, R. Crawford. [Measurer R. Crawford](#). 2.1-m f/7.7 Ritchey-Chretien + CCD.
[G96 Mt. Lemmon Survey](#). Observer R. A. Kowalski. Measurers J. D. Ahern, E. C. Beshore, A. Boattini, G. J. Garradd, A. R. Gibbs, A. D. Grauer, R. E. Hill, R. A. Kowalski, S. M. Larson, R. H. McNaught. 1.5-m reflector + CCD.
[H01 Magdalena Ridge Observatory, Socorro](#). Observer W. H. Ryan. 2.4-m f/8.9 reflector + CCD.

Orbital elements:

2011 BF24										Earth MOID = 0.0246 AU	
Epoch 2011 Feb. 8.0 TT = JDT 2455600.5										MPC	
M	335.63009							P		Q	
n	0.60801744	Peri.	244.36367					-0.97276125		+0.20497788	
a	1.3799352	Node	307.27721					-0.13167810		-0.87296094	
e	0.3587542	Incl.	7.81936					-0.19077848		-0.44263220	
P	1.62	H	26.0			G		0.15		U	7
Residuals in seconds of arc											
110128	G96	0.0	0.1-	110128	695	0.0	0.2-	110128	H01	0.1+	0.1-
110128	G96	0.1+	0.2+	110128	H01	0.2+	0.0	110128	H01	0.3-	0.1-
110128	G96	0.2-	0.2-	110128	695	0.0	0.2+				
110128	H01	0.2+	0.0	110128	695	0.1+	0.1+				

Ephemeris:

2011 BF24										a,e,i = 1.38, 0.36, 8		q = 0.8849	
Date	TT	R. A.	(2000)	Decl.	Delta	r	Elong.	Phase	V				
2010	12	29	08	51	41.2	+34	35	23	0.2459	1.1977	147.3	26.3	24.5

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...	2011	01	13	09	10	36.6	+30	55	05	0.1404	1.1140	156.9	20.2	23.0
...	2011	01	21	09	24	45.6	+24	46	58	0.09082	1.0709	162.2	16.3	21.8
...	2011	01	27	09	43	47.7	+13	11	39	0.05758	1.0398	162.7	16.3	20.8
...	2011	01	28	09	48	34.6	+09	53	11	0.05261	1.0347	161.3	17.8	20.6
...	2011	01	29	09	54	08.4	+05	54	40	0.04789	1.0297	159.0	20.1	20.5
...	2011	02	04	11	04	57.2	-38	52	22	0.03098	1.0008	118.3	60.1	20.6
...	2011	02	12	17	53	27.2	-69	18	30	0.05489	0.9656	65.6	111.4	23.9
...	2011	02	27	20	17	55.4	-52	59	59	0.1361	0.9141	52.7	120.5	26.4

Sonia Keys

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