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IAU Minor Planet Center

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MPEC 2010-A35 : 2010 AL2

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M.P.E.C. 2010-A35

Issued 2010 Jan. 8, 17:45 UT

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2010 AL2

Observations:

K10A02L*	C2010	01	07.27253	06	59	17.76	+24	22	13.2	19.6	EA035704
K10A02L	C2010	01	07.28523	06	59	31.45	+24	25	20.4	19.8	EA035704
K10A02L	C2010	01	07.29806	06	59	45.44	+24	28	29.3	19.2	EA035704
K10A02L	C2010	01	07.31080	06	59	59.29	+24	31	35.5	19.8	EA035704
K10A02L	C2010	01	08.23800	07	20	14.53	+28	27	12.5	19.6	V EA035G96
K10A02L	C2010	01	08.23942	07	20	16.40	+28	27	35.3	19.5	V EA035G96
K10A02L	C2010	01	08.24083	07	20	18.27	+28	27	57.6	19.6	V EA035G96
K10A02L	C2010	01	08.24228	07	20	20.22	+28	28	21.1	19.5	V EA035G96
K10A02L	]C2010	01	08.29771807	21	33.93	+28	43	05.7	18.9	C EA035695	
K10A02L	]C2010	01	08.29832107	21	34.72	+28	43	15.1	19.6	C EA035695	
K10A02L	]C2010	01	08.29892207	21	35.51	+28	43	24.7	20.2	C EA035695	
K10A02L	C2010	01	08.34556	07	22	37.48	+28	55	38.5	19.4	R EA035854
K10A02L	C2010	01	08.35217	07	22	46.37	+28	57	20.9	19.3	R EA035854
K10A02L	C2010	01	08.35549	07	22	50.90	+28	58	13.4	19.7	R EA035854

Observer details:

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

[704 Lincoln Laboratory ETS, New Mexico.](#) Observers M. Blythe, G. Spitz, R. Brungard, J. Paige, P. Festler. 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.

[G96 Mt. Lemmon Survey.](#) Observer A. Boattini. Measurers J. D. Ahern, E. C. Beshore, A. Boattini, G. J. Garrard, A. R. Gibbs, A. D. Grauer, R. E. Hill, R. A. Kowalski, S. M. Larson, R. H. McNaught. 1.5-m reflector + CCD.

Orbital elements:

2010 AL2 Earth [MOID](#) = 0.0285 AU
 Epoch 2010 Jan. 4.0 TT = JDT 2455200.5 MPC
 M 351.21679 (2000.0) P Q
 n 0.42447000 Peri. 20.73280 -0.59774253 -0.79181049
 a 1.7534957 Node 106.18409 +0.71591381 -0.59764057
 e 0.4305151 Incl. 7.50636 +0.36079258 -0.12594403
 P 2.32 H 26.5 G 0.15 U 7

Residuals in seconds of arc

100107	704	0.3+	0.3-	100108	G96	0.1-	0.1+	100108	695	0.2-	0.2-
100107	704	0.6-	0.0	100108	G96	0.1-	0.1-	100108	854	0.4-	0.6+
100107	704	0.3+	0.4+	100108	G96	0.3+	0.1+	100108	854	0.2-	0.4-
100107	704	0.0	0.1-	100108	695	0.0	0.1-	100108	854	0.7+	0.2+
100108	G96	0.1+	0.1+	100108	695	0.1-	0.3-				

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- International Comet Quarterly*
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Ephemeris:

Date	A. (2000)	Decl.	Delta	r	Elong.	Phase	V
2010 01 04	06 11.24	+13 15.0	0.0434	1.025	165.4	14.0	20.5
2010 01 06	06 37.07	+19 31.2	0.0375	1.020	172.4	7.3	19.9
2010 01 08	07 14.59	+27 25.7	0.0329	1.016	174.9	5.0	19.5
2010 01 10	08 09.42	+36 14.7	0.0301	1.012	162.7	16.8	19.8
2010 01 12	09 24.58	+43 43.2	0.0296	1.009	148.1	31.0	20.2
2010 01 14	10 50.11	+47 19.8	0.0315	1.006	134.2	44.5	20.7
2010 01 16	12 05.27	+47 02.4	0.0353	1.003	123.0	55.4	21.3
2010 01 18	13 00.13	+44 46.8	0.0404	1.001	114.6	63.3	21.8
2010 01 20	13 37.74	+42 04.3	0.0465	1.000	108.7	68.7	22.3
2010 01 22	14 03.75	+39 32.7	0.0530	0.999	104.7	72.4	22.7
2010 01 24	14 22.29	+37 21.9	0.0600	0.998	101.9	74.7	23.0

Timothy B. Spahr

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