

0.20-m $f/10$ Schmidt-Cassegrain + CCD + $f/6.3$ focal reducer
UCAC-4

(125), 3, 1, 0; (148), 3, 1, 0; (412), 3, 1, 0; (531), 3, 1, 0; (691), 3, 1, 0; (950), 3, 1, 0; (1051), 3, 1, 0; (1108), 3, 1, 0; (1461), 3, 1, 0; (1575), 3, 1, 0; (1727), 3, 1, 0; (1765), 3, 1, 0; (2291), 6, 2, 1; (2408), 3, 1, 0; (2443), 3, 1, 0; (2965), 3, 1, 0; (4332), 3, 1, 0; (5619), 3, 1, 0; (136472), 6, 2, 4; [63, 19, 0*, 2016/06/27–2016/07/24]

Z80 Northolt Branch Observatory

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Observer G. Wells

Measurers G. Wells, D. Bamberger

0.15-m $f/10$ reflector + CCD + $f/6.3$ focal reducer

UCAC-4, USNO-B1.0

2003 VC₃, 3, 1, 0; 2011 BX₁₈, 10, 1, 0; 2016 LZ₁₀, 3, 1, 0; 2016 NA₁, 3, 1, 0; (771), 18, 1, 0; (3313), 10, 1, 0; (8653), 4, 1, 0; (10150), 5, 1, 0; (11008), 5, 1, 0; (12115), 5, 1, 0; (12525), 5, 1, 0; (17361), 4, 1, 0; (19560), 6, 1, 0; (22978), 15, 1, 0; (23721), 8, 1, 0; (24445), 2, 1, 0; (34817), 9, 1, 0; (36030), 3, 1, 0; (42367), 2, 1, 0; (46818), 14, 1, 0; (49016), 3, 1, 0; (59901), 5, 1, 0; (73924), 2, 1, 0; (154244), 21, 2, 2; (215442), 11, 1, 0; (331471), 10, 1, 0; (452389), 9, 1, 0; (468448), 5, 1, 0; (468452), 2, 1, 0; [202, 29, 0*, 2016/07/01–2016/08/10]

Z81 Observatorio Estrella de Mar

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0.28-m Schmidt-Cassegrain + CCD + $f/6.3$ focal reducer

UCAC-4

(432036), 3, 1, 0; [3, 1, 0*, 2016/08/04–2016/08/05]

Z95 Astronomia Para Todos Remote Observatory

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0.35-m Schmidt-Cassegrain + CCD

USNO-A2.0

(68350), 3, 1, 0; [3, 1, 0*, 2016/07/06]

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MPCADO (entirely automated processing on MPC computer ADONIS)

MPCALB (entirely automated processing on MPC computer ALBERT)

MPCAPO (entirely automated processing on MPC computer APOLLO)

MPCLINUX (entirely automated processing on MPC Linux cluster)

MPCMEL (entirely automated processing on MPC computer MELETE)

C/2010 U3 (Boattini)

Epoch 2019 Mar. 18.0 TT = JDT 2458560.5

T 2019 Feb. 26.64610 TT

MPCW

q		(2000.0)	P	Q
z	+0.0001999	ω 88.08649	-0.36204866	-0.74305600
	± 0.0000010	Ω 43.06727	+0.07255634	-0.62443409
e	0.9983118	i 55.51182	+0.92933113	-0.24072774

From 478 observations 2009 Sept. 16–2016 Aug. 10, mean residual 0".6.

C/2011 J2 (LINEAR)

Epoch 2013 Dec. 14.0 TT = JDT 2456640.5

T 2013 Dec. 25.29205 TT

MPCW

q		(2000.0)	P	Q
z	-0.0001501	ω 85.29283	+0.07042157	+0.97005811
	± 0.0000000	Ω 163.94719	+0.16358638	-0.24109392
e	1.0005168	i 122.79880	+0.98401235	-0.02934245

From 6070 observations 2011 Mar. 10–2016 Aug. 14, mean residual 0".5.

C/2011 KP₃₆ (Spacewatch)

Epoch 2016 May 12.0 TT = JDT 2457520.5

T 2016 May 26.89845 TT

MPCW

q		(2000.0)	P	Q
z	+0.0260355	ω 180.59800	+0.99445362	+0.09830450
	± 0.0000000	Ω 173.40035	-0.09509611	+0.99227961
e	0.8728608	i 18.98677	-0.04493023	+0.07561354

From 1656 observations 2011 May 21–2016 Aug. 14, mean residual 0".4.

C/2012 F3 (PANSTARRS)

Epoch 2015 Apr. 8.0 TT = JDT 2457120.5

T 2015 Apr. 6.67508 TT

MPCW

q		(2000.0)	P	Q
z	-0.0005279	ω 104.01941	-0.01881041	+0.99845754
	± 0.0000002	Ω 164.61402	-0.97640537	-0.00710329
e	1.0018249	i 11.35474	-0.21512490	-0.05506432

From 1457 observations 2012 Jan. 19–2016 Aug. 12, mean residual 0".6.

C/2012 K1 (PANSTARRS)

Epoch 2014 Aug. 11.0 TT = JDT 2456880.5

T 2014 Aug. 27.65590 TT

MPCW

q		(2000.0)	P	Q
z	-0.0001516	ω 203.10582	-0.47153246	+0.78070426
		Ω 317.73815	+0.87390765	+0.47595515
e	1.0001599	i 142.42838	+0.11807858	-0.40492907

From 7516 observations 2012 May 14–2016 Aug. 7, mean residual 0".7.

Nongravitational parameters $A_1 = +1.85$, $A_2 = +0.0735$.