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Central Bureau for Astronomical Telegrams
INTERNATIONAL ASTRONOMICAL UNION
Mailstop 18, Smithsonian Astrophysical Observatory, Cambridge, MA 02138, U.S.A.
IAUSUBS@CFA.HARVARD.EDU or FAX 617-495-7231 (subscriptions)
CBAT@CFA.HARVARD.EDU (science)
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COMET P/2007 A1 (LOVAS)

Comet P/1986 W1 (= 1986 XIII = 1986p; cf. *IAUC* 4276) has been accidentally rediscovered on Catalina Sky Survey images taken with the 0.68-m Schmidt telescope on Jan. 9 by R. A. Kowalski, the comet appearing diffuse with a slightly condensed core $\approx 1'$ in diameter, and a more intense core $\approx 20''$ in diameter. Confirming CCD frames in good seeing by E. J. Christensen with the Mt. Lemmon 1.5-m reflector on the same night show a moderately condensed $10''$ coma with a diffuse tail extending $30''$ toward p.a. $\sim 75^\circ$, while his images on Jan. 10 display a moderately condensed $10''$ inner coma surrounded by a faint $30''$ outer coma (the latter being elongated toward p.a. 60°). Following posting on the Minor Planet Center's 'NEOCP' website, additional astrometry below was reported by G. Hug, B. Twarog, and D. Tibbets (Eskridge, KS, 0.7-m reflector; object diffuse) and by J. E. McGaha (Tucson, AZ, 0.30-m reflector). The indicated correction to the prediction by S. Nakano in the *2006 Comet Handbook* (and *NK* 946) is ΔT = +18.6 days.

2007	UT	α_{2000}	δ_{2000}	Mag.	*Observer*
Jan.	9.07080	$22^h53^m11^s.96$	$-5^\circ45'10''.9$	16.8	Kowalski
	9.07407	22 53 12.66	−5 45 07.5	16.4	"
	9.07734	22 53 13.28	−5 45 04.2	16.8	"
	9.08061	22 53 13.78	−5 45 01.2	18.3	"
	9.09382	22 53 16.28	−5 44 45.3	17.0	Christensen
	9.09470	22 53 16.42	−5 44 44.3		"
	9.09558	22 53 16.60	−5 44 43.5		"
	9.09647	22 53 16.74	−5 44 42.0		"
	10.07002	22 56 24.14	−5 25 43.1	17.3	"
	10.07782	22 56 25.67	−5 25 34.3		"
	10.08178	22 56 26.46	−5 25 29.2		"
	10.10260	22 56 30.40	−5 25 05.4	18.6	Hug
	10.10699	22 56 31.20	−5 25 00.8	18.7	"
	10.11151	22 56 32.06	−5 24 56.5	19.1	"
	10.12584	22 56 34.79	−5 24 37.4	18.8	McGaha
	10.13161	22 56 35.92	−5 24 30.3	19.1	"
	10.13738	22 56 37.10	−5 24 23.9	18.8	"

2007 January 10 *Daniel W. E. Green*