## Central Bureau for Astronomical Telegrams INTERNATIONAL ASTRONOMICAL UNION

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## COMET C/2009 E1 (ITAGAKI)

M. Kusiak, Astronomical Observatory, Jagiellonian University, reports that this comet is apparently visible in SOHO SWAN ultraviolet images (additional details are given on *CBET* 1721). Visual total-magnitude and coma-diameter estimates: Mar. 14.85 UT, 9.6, 4'.5 (J. J. Gonzalez, Leon, Spain, 0.20-m reflector; zodiacal light); 15.103, 10:, 3' (A. Hale, Cloudcroft, NM, U.S.A., 41-cm reflector; clouds; small condensed area within a diffuse coma); 15.95, 9.6, 3'.5 (M. Goiato, Araçatuba, Brazil, 22-cm reflector).

Further to IAUC 9026, additional astrometry has been published by B. G. Marsden on MPEC 2009-E69, together with the following preliminary parabolic orbital elements and an ephemeris.

## COMETS C/2008 W2, C/2008 W3, C/2008 W4, C/2008 W5 (SOHO)

Further to IAUC 9024, additional Kreutz sungrazers have been found on SOHO website images, with their "discovery" observations tabulated below. C/2008 W2 was tiny and condensed (mag  $\sim$  7.5). C/2008 W3 was stellar in appearance (mag  $\sim$  7–7.5) in C3 images, and quite condensed in C2 images. C/2008 W4 was tiny and stellar in appearance (mag  $\sim$  8). C/2008 W5 was stellar in appearance (mag  $\sim$  6.5) in C3 images, and fairly condensed with a very short, diffuse tail in C2 images.

Comet	2008 UT	$\alpha_{2000}$	$\delta_{2000}$	Inst.	$\mathbf{F}$	MPEC
C/2008 W2	Nov. 16.317	$15^{^{\mathrm{h}}}\!25^{^{\mathrm{m}}}\!5$	$-20^{\circ}29^{'}$	C2	$_{ m JR}$	2009-C47
C/2008 W3	23.388	$15\ 49.0$	$-23\ 40$	C3/2	AK	2009-C47
C'/2008 W4	23.521	15  56.0	$-21\ 11$	C2	$_{\mathrm{HS}}$	2009-C56
C/2008~W5	23.888	$15\ 51.2$	$-23\ 46$	C3/2	JR	2009-C56

## DONATIONS TO THE CENTRAL BUREAU

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