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INTERNATIONAL ASTRONOMICAL UNION

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SUPERNOVAE 2005ma, 2005mb, 2005mc, 2005md, 2005me

Additional supernovae have been discovered on unfiltered CCD images: 2005ma and 2005mb by T. Puckett (cf. *IAUC* 8646; with T. Orff for 2005ma and with T. Ceravolo for 2005mb); 2005mc by the Tsinghua Center for Astrophysics (THCA) Supernova Survey [F.-Y. Bian, Y.-Q. Lou, X.-F. Wang, and Y. Yang, THCA, Tsinghua University, Beijing; and Y.-L. Qiu, National Astronomical Observatories of China (NAOC)] with the 0.8-m THCA-NAOC Telescope (TNT); 2005md by W. Li (LOSS/KAIT; cf. *IAUC* 8646); and 2005me by L. A. G. Monard (cf. *IAUC* 8581).

SN	2005 UT	α_{2000}	δ_{2000}	Mag.	Offset
2005ma	Dec. 24.21	4 ^h 49 ^m 53.91 ^s	-10°45'23.4"	17.9	1''9 W, 7''2 S
2005mb	Dec. 21.46	13 05 52.46	+41 42 59.0	19.3	5''5 E, 20''2 S
2005mc	Dec. 23.73	8 27 06.36	+21 38 45.6	17	4''8 E, 3''2 N
2005md	Dec. 25.35	6 47 19.11	+33 34 24.9	18.1	21''8 E, 22''9 N
2005me	Dec. 23.78	1 30 09.22	-42 41 07.0	17.5	41'' E, 3'' N

Additional magnitudes for 2005ma in MCG -02-13-13: Dec. 3, [19.3 (Puckett); 25.20 UT, 17.3 (J. Newton, Portal, AZ, 0.35-m reflector)]. Nothing was present at the location of 2005ma on numerous images taken by Puckett during 2000-2005 (limiting magnitudes ranging from 18.0 to 20.0). SN 2005ma has a spectrum similar to that of the type-II_n supernova 1997ab one year after discovery (cf. *CBET* 334). Additional magnitudes for 2005mb in NGC 4963: Dec. 5, [19.6 (Puckett); 22.41, 19.3 (Puckett); 24.71, $R = 19.5$ (H. Naito, Nishi-Harima Astronomical Observatory, 2.0-m Nayuta telescope). A measurement of Naito's image by S. Kouzuma and H. Yamaoka, Kyushu University, yields position end figures 52°315', 59''43 (rms residuals $\sim 0''2$) for 2005mb. Yamaoka adds that a Digitized Sky Survey (DSS) image taken on 1990 Jan. 25 shows nothing at the position of 2005mb (limiting red mag ~ 20.5). Nothing was visible at the location of 2005mb on images taken by Puckett on numerous dates during 1998-2005 (limiting mag ranging from 18.7 to 20.2). Additional magnitudes for SN 2005mc in UGC 4414: Nov. 29, [18.5 (TNT); Dec. 5.43, [19.5 (Li, KAIT); 24 (in poor seeing) and 25.63, 16.5 (TNT)]. SN 2005mc is a type-Ia supernova (cf. *CBETs* 334, 338). Additional magnitudes for SN 2005md in NGC 2274: Dec. 10.40, [19.5 (KAIT); 25.86, 18.0 (X.-F. Wang and F.-Y. Bian, 0.8-m THCA-NAOC telescope, Xing-long Station)]. Additional magnitudes for SN 2005me in ESO 244-31: Dec. 2.93, [18.7; 23.806, 17.5; 26.760, 17.6. SN 2005me is not visible on the DSS (limiting red mag 20.5).