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(153591) 2001 SN_{263}

M. C. Nolan and E. S. Howell, Arecibo Observatory; L. A. M. Benner, S. J. Ostro, and J. D. Giorgini, Jet Propulsion Laboratory; M. W. Busch, California Institute of Technology; L. M. Carter and R. F. Anderson, Smithsonian Institution; C. Magri, University of Maine at Farmington; D. B. Campbell and J. L. Margot, Cornell University; R. J. Vervack, Jr., Applied Physics Laboratory, Johns Hopkins University; and M. K. Shepard, Bloomsburg University, report that Arecibo radar delay-Doppler images (2380 MHz, 12.6 cm), obtained on 2008 Feb. 12 and 13, show that minor planet (153591) is a triple system. Based on range extents at 75-m resolution, preliminary estimates of average diameters are 2 km, 1 km, and 400 m for the three components. The orbital separation for the larger two components is at least 10 km.

COMETS C/2007 Y3–Y9 (SOHO)

Further to *IAUC* 8920, additional near-sun comets have been found on SOHO website images; all were Kreutz sungrazers except for Marsden-group member C/2007 Y4 and Meyer-group member C/2007 Y8 — both of which were small and stellar in appearance, reaching mag $\sim$ 6.5 (though the latter object brightened extremely fast in the first hour or two of visibility and became noticeably larger in that time — atypical for Meyer-group objects). K. Battams suggested the identity of C/2007 Y4 with C/2002 R4 (cf. *MPEC* 2002-S35; *IAUC* 7984), and B. G. Marsden published a linked orbit on *MPEC* 2008-B49 that suggests an approach to within 0.063 AU of the earth on 1997 June 14.7 (T = 1997 May 15.2). C/2007 Y3 was quite diffuse and small (mag $\sim$ 7.5). C/2007 Y5 was quite bright (mag $\sim$ 5.5) and teardrop-shaped (with a hint of a stubby tail). C/2007 Y6 was very diffuse (mag $\sim$ 8) with a hint of a tail. C/2007 Y7 was tiny and a little diffuse (mag $\sim$ 8.5). C/2007 Y9 was quite diffuse, only reaching mag 7.5.

Comet	2007	UT	α_{2000}	δ_{2000}	Inst.	F	*MPEC*
C/2007 Y3	Dec.	21.104	$17^h58^m.9$	$-25°14'$	C2	SY	2008-B49
C/2007 Y4		21.754	18 03.4	-24 07	C2	RK	2008-B49
C/2007 Y5		22.571	18 13.9	-28 25	C3	AK	2008-B49
C/2007 Y6		26.338	18 23.2	-25 00	C2	SY	2008-B49
C/2007 Y7		26.688	18 25.0	-24 47	C2	HS	2008-B49
C/2007 Y8		28.079	18 25.6	-22 10	C2	RK	2008-B61
C/2007 Y9		28.638	18 37.4	-26 06	C3	RM	2008-B61

2008 February 13 *Daniel W. E. Green*