

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)
 URL <http://cfa-www.harvard.edu/iau/cbat.html> ISSN 0081-0304
 Phone 617-495-7440/7244/7444 (for emergency use only)

V476 SCUTI

R. B. Perry, Langley Research Center, NASA; C. C. Venturini, R. J. Rudy, S. Mazuk, and D. K. Lynch, The Aerospace Corporation; R. C. Puetter, University of California at San Diego; and B. Walp, Lick Observatory, report 0.47- to 2.5- μm spectroscopy of V476 Sct (cf. *IAUC* 8607, 8612) using the Lick 3.0-m telescope (+ VNIRIS) at Nov. 15.108 UT. The nova is still quite early in its spectral development, showing structured emission in the lines of C I, N I, and Fe II with FWHM of 1600 km/s. He I lines are just emerging and are still very weak. The strongest lines in the visible and infrared spectrum are from O I, and these are produced almost completely by Ly β fluorescence. The strong red continuum strongly suggests thermal emission from dust, despite the fact that the optical light curve is monotonically decreasing with time. The reddening indicated by the O I lines is $E(B - V) = 2.0$.

COMETS C/2005 T6, T7, T8, W4, W5 (SOHO)

Additional comets have been found on SOHO website images (cf. *IAUC* 8631); all were Kreutz sungrazers except for C/2005 W4 (a Kracht-group object that appeared stellar with no tail in C2 and C3 images, peaking at mag 6.6 on Nov. 23.396 UT at $6.1R_{\odot}$ in C2) and C/2005 W5 (a Marsden-group object that also was stellar in appearance with no tail in all images, peaking at mag 7.1 on Nov. 29.854 at $5.1R_{\odot}$ in C2). The Kreutz objects were tiny, stellar, and too faint for photometry in C3 images, but very faint and diffuse in C2 images.

Comet	2005	UT	α_{2000}	δ_{2000}	Inst.	F	MPEC
C/2005 T6	Oct.	1.596	12 ^h 09 ^m .4	- 4 ^o 42'	C3/2	HS	2005-X11
C/2005 T7		4.513	12 27.1	- 5 33	C3/2	BZ	2005-X11
C/2005 T8		6.613	12 34.8	- 6 17	C3/2	HS	2005-X11
C/2005 W4	Nov.	23.344	15 51.1	-19 42	C2/3	BZ	2005-X14
C/2005 W5		29.314	16 27.1	-22 59	C2/3	HS	2005-X14

It seems likely that C/2005 W4 is a return of C/2000 O3 (cf. *MPEC* 2000-Q09), a suggestion made by S. Hönig before the observations on *MPEC* 2005-X14 were available, where an orbital linkage by B. G. Marsden ($P = 5.32$ yr) is published. Comet C/2005 W5 has not been satisfactorily linked to a Marsden-group candidate at its previous perihelion passage, although potential fits to the various 1999 members seem preferable to those involving the comets of Feb. 2000 (cf. *MPEC* 2005-W07).