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V574 PUPPIS

D. K. Lynch, R. J. Rudy, T. R. Prater, A. M. Gilbert, and S. Mazuk, The Aerospace Corporation; R. B. Perry, Langley Research Center, NASA; and R. C. Puetter, University of California, San Diego; report 0.47- to 2.5-μm spectroscopy of V574 Pup (cf. *IAUC* 8443, 8445, 8643) on 2007 Dec. 15 UT using VNIRIS on the Lick 3-m telescope. The object is a super-soft x-ray source, and it continues in its coronal phase. Emission lines of [S IX] 1.252 μm, [Ca VIII] 2.3 μm, [Fe X] 637.5-nm, and [Fe XI] 789.2-nm were seen. He II 1.02 μm was stronger than He I 1.0830 μm. The [S III] and [O III] lines were weak.

COMET 8P/TUTTLE

D. Schleicher, Lowell Observatory; and L. Woodney, California State University, San Bernardino, obtained narrowband imaging of comet 8P on Dec. 15 and 16 using the Hall 1.1-m telescope at Lowell Observatory. Following the removal of a mean radial profile, a series of successive spiral arcs are seen in the sunward hemisphere for each of the brighter gas species (i.e., CN, C_3, and C_2). With over 8 hr of imaging per night, along with 4 hr on Dec. 14 (see *IAUC* 8903), they find a nucleus rotation period of $\sim$ 5.71 hr (estimated uncertainty 0.04 hr) based on 14 pairs of matching CN images from various rotational cycles. A single source appears to produce most, if not all, of the coma morphology.

COMET C/2007 T5 (GIBBS)

Improved elliptical orbital elements for this comet (cf. *IAUC* 8880) from *MPEC* 2007-Y07.

Epoch = 2008 May 14.0 TT

$$\begin{array}{llll} T = 2008\text{ May }24.1765\text{ TT} & \omega = 34^\circ.4057 & & \\ e = 0.913398 & \Omega = 109.8429 & \Big\} 2000.0 & \\ q = 4.049340\text{ AU} & i = 45.6151 & & \end{array}$$

COMETS 194P/LINEAR AND 195P/HILL

Comet P/2007 W2 = P/2000 B3 (cf. *IAUC* 8900) has been assigned the permanent number 194P, and comet P/2006 W4 = P/1993 D1 (cf. *IAUC* 8779, 8902, 8903) has been assigned the permanent number 195P (cf. *MPC* 61390).

2007 December 23 *Daniel W. E. Green*