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VARIABLE STAR IN CEPHEUS

R. Persson, Hindas, Sweden, reports that a USNO-B1.0 star located at $\alpha = 22^{h}53^{m}33^{s}.28$, $\delta = +62^{o}32'23''.1$ (equinox 2000.0; blue mag 20.2, red mag 15.7) was not visible on a red Palomar Sky Survey plate from 1953 October, but it is present on digitized Palomar Sky Survey plates taken on 1991 Sept. 2 (red, mag $\sim$ 15.7) and 1984 Aug. 28 (Quick-V). B. Reipurth, University of Hawaii (UH); and C. Aspin, Gemini Observatory, report that an R-band CCD image obtained at the UH 2.2-m telescope on 2004 Oct. 9 shows that this star (at $R \sim 17.3$) is located at the apex of what appears to be an outflow cavity in a small dark cloud and is apparently identical with the bright infrared source 2MASS 22533325+6232235 (K = 8.20). A GMOS spectrum (resolution 6200), obtained on Nov. 6 at the Gemini-N telescope, shows deep and wide Hα and Na absorption lines on a red continuum. Thus, the variable appears to be a new highly reddened FU-Ori-type object that has erupted sometime during the past 50 years.

2004 November 19 *Daniel W. E. Green*