Whole Earth Telescope Observations of EC14012-1446

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EC14012-1446 is a hydrogen atmosphere (DA) white dwarf pulsator. Its rich pulsation spectrum displays a multitude of excited modes with complex multiplet structure, in addition to numerous combination frequencies. We chose EC14012 as the primary target for XCOV26 (April 2008) with the goal of using its multiple frequencies and nonlinear pulse shapes to determine its convective parameters as part of our long term project to map convection across the DA and DB insbility strips. We obtained over 300 hrs of nearly continuous high speed photometry. The Fourier transform of the data set contains power between 1000 to 4000μHz, with the dominant peak at 1633 μHz. We find 24 independent frequencies distributed in 14 modes. In the following, we present our ongoing analysis of the pulsation spectrum and our progress in determining the convective parameters of EC14012-1446.