

Simultaneous Cassini VIMS/UVIS and ground-based observations during the 2013 auroral campaign

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Abstract

During April and May 2013 there was a large and unprecedented co-ordinated campaign of observations using observatoins of Saturn's aurora, using Cassini instruments, the Cassini spacecraft, the Hubble Space Telescope, Keck telescope, NASA IRTF and the Very Large Telescope.

Here, we present the analysis of the Cassini VIMS and UVIS observations obtained during this period that were simultenous in space and time, enabling the study of the energy balance of the upper atmosphere of Saturn. We cross-correlate the properties of H3+ derived from Cassini VIMS observations to those derived using Keck NIRSPEC observations.