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OSIRIS on Odin: The End of an Era

OSIRIS is a Canadian spectrometer that was launched on the Swedish Odin satellite in 2001 for a two-year mission to explore the composition and coupling of the stratosphere and mesosphere. OSIRIS was designed to measure the spectra of scattered sunlight from the ultra-violet to the near-infrared to derive vertical profiles of trace gases and aerosols, a largely untested technique at the time. Almost 25 years later, the mission is nearing its end; at the time of writing, orbital projections show rapid descent is imminent. This talk will highlight several key scientific results of the OSIRIS mission, and discuss challenges in the production of the official data products over the past few years due to operational constraints toward of the end of the satellite lifetime.

Topic

Current and past limb and occultation instruments: algorithms, products, validation

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