

# Measuring the Spectral Expression of Carbon Dioxide in the Solar Reflected Spectrum with AVIRIS

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AVIRIS measures the solar reflected spectrum from 400 to 2500 nm at 10 nm intervals. The effects of molecules and particles of the Earth's atmosphere are present in every spectrum measured by AVIRIS. In the 1600 and 2000 nm in the solar reflected spectrum. AVIRIS spectra from a range of surface environments are analyzed to assess the expression of carbon dioxide and explore the possibility of retrieving carbon dioxide abundance from AVIRIS measurement.