

ARM FOURIER-TRANSFORM SPECTROMETER DATA-ANALYSIS TOOLS

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Objective: To develop and test radiative-transfer models through the analysis of the spectral-radiance and solar-absorption data collected at the ARM sites.

Product: Data-analysis tools specifically tailored to retrieve atmospheric parameters (including cloud optical properties) and temperature and moisture profiles from observational data produced by the atmospheric-emitted-radiance interferometer (AERI), AERI-X, and solar-radiance-transmission interferometer (SORTI) FTIR.

Approach: Radiative-transfer algorithms will be developed and tested to derive atmospheric state parameters from FTIR observations. Techniques will be developed for inferring atmospheric temperature and moisture profiles, trace-gas information, and cloud radiative properties from data acquired with the AERI, AERI-X, and SORTI.

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