



CERES Product Type Details

- **ERBE Like:** Simplest processing mode. Unsophisticated cloud detection and angular directional models. Consistent with earlier ERBE processing to maintain consistency.
- **CERES Clouds and TOA/SFC Fluxes:** Focus on Top-of-Atmosphere (TOA) radiation, includes parameterized models for surface radiation estimation. Cloud detection using multi-spectral VIRS/MODIS imager. Vastly improved angular distribution models allowing cloud property dependent anisotropy. Time-space averaging includes 1hourly geostationary radiance data to improve diurnal cycle modeling between CERES Flux measurements.
- **CERES Clouds and Computed Flux Profiles:** Radiative transfer code used to calculate in-atmosphere as well as surface fluxes. Treatment of clouds using VIRS/MODIS retrieved cloud properties, multi-constituent aerosols with satellite retrieved optical depths, scene and spectrally dependent surface boundary conditions. Time-space averaging using geostationary based cloud properties and grid scale radiative transfer.

