

**THE CLOUDS AND EARTH RADIANT ENERGY SYSTEM
(CERES) ABOARD THE TROPICAL RAINFALL
MEASURING MISSION**

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Results from the CERES/TRMM on-board calibration modules show that the instrument maintained its ties to the International Temperature Scale of 1990 within 0.5%. Solar calibrations show that the shortwave channel and the shortwave response of the total channel have precisions of the order of 0.3%. Reflected solar radiation and outgoing longwave fluxes have been compared with results from the ERBE wide field of view radiometers, which have served as a satellite calibration facility for 15 years. CERES has an 812 micron window channel for measuring the effects of greenhouse gases on OLR. The limb-darkening functions LDFs for this channel have been computed using alongtrack scanning data. These LDFs are used to compute window channel fluxes for the Tropics. Maps of window channel fluxes are presented and compared with broadband outgoing longwave fluxes.