Remote Sensing of Clouds and the Atmosphere XIV

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Abstract: The proceedings contain 47 papers. The topics discussed include: CLIM: A cloud imager to provide sounders with agile sighting; three-dimensional effects and shortwave cloud radiative forcing associated with shallow cumuli over the central North America; a preliminary classification of cirrus clouds over São Paulo city by systematic lidar observations and comparison with CALIPSO and AERONET data; evaluation of the height assignment of semi-transparent clouds using simulated Meteosat spectral radiances; development of a geomagnetic storm correction to the international reference ionosphere model E-region electron densities using TIMED/SABER observations; temperature and aerosol soundings in the middle atmosphere at different mid- and high-latitude lidar stations during day and night; and infrared radiative transfer model for aerosol clouds: implications to remote sensing by ground-based and airborne sensors.

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