



The NASA/GEWEX Surface Radiation Budget Version 3.0: Results And Analysis

P.W. Stackhouse (1), S.K. Gupta (2), S.J. Cox (2), J.C. Mikovitz (2), and T. Zhang (2)

(1) NASA Langley Research Center, Atmospheric Science/Climate Sciences Branch, Hampton, VA, United States (paul.w.stackhouse@nasa.gov), (2) SSAI, Hampton, VA, United States

The NASA/GEWEX Surface Radiation Budget project produces 3-hourly longwave and shortwave radiative fluxes on a 1x1 degree grid, using ISCCP clouds and radiances, GEOS-4 meteorology, and other inputs. Upward and downward fluxes at the surface and top of atmosphere are produced, as well as many other parameters, including aerosol and cloud radiative forcings. The current release, Version 3.0, covers the period from July 1983 through June 2007. This data is available to the community at 3-hourly, daily, monthly, and monthly 3-hourly resolutions at gewex-srb.larc.nasa.gov.

Here we present the latest validation results of SRB Version 3.0 against BSRN and other surface data, comparisons with other satellite radiation products, and analysis of variability over the 1983-2007 time frame.