

SORCE Solar Irradiance Data Products and the LASP Interactive Solar Irradiance Data Center (LISIRD)

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The Laboratory for Atmospheric and Space Physics (LASP) at the University of Colorado manages the Solar Radiation and Climate Experiment (SORCE) Science Data System. This data processing system routinely produces Total Solar Irradiance (TSI) and Spectral Solar Irradiance (SSI) data products, which are formulated using measurements from the four primary instruments on board the SORCE spacecraft along with calibration data and other ancillary information to correct for all known instrumental and operational factors. The TIM instrument provides measurements of the TSI, whereas the SIM, SOLSTICE, and XPS instruments collectively provide measurements of the solar irradiance spectrum from 1 nm to 2400 nm (excluding 31-115 nm). "Level 3" data products (time-averaged over daily and six-hourly periods and spectrally re-sampled onto uniform wavelength scales) are routinely produced and delivered to the public via the SORCE web site (<http://lasp.colorado.edu/home/sorce/data/>), and are archived at the Goddard Earth Sciences (GES) Data and Information Services Center (DISC). The SORCE data are also available from the LASP Interactive Solar Irradiance Data Center (LISIRD) web site (<http://lasp.colorado.edu/lisird/>) which provides interactive access to over 25 years of LASP's solar irradiance measurements and is evolving to become the ultimate source of solar irradiance data products. The data are also available to computer programs via the LaTiS Server (which powers LISIRD). This poster provides an overview of the SORCE solar irradiance data products and other related data that are now directly available from LaTiS using a new IDL reader.