



SORCE Data Product Use of HDF5

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The Solar Radiation and Climate Experiment

- Launched January 27, 2003
- 4 sensors measure incident solar radiation:
 - Total Irradiance Monitor (TIM)
 - Solar Irradiance Monitor (SIM)
 - Solar Spectral Irradiance Comparison Experiment (SOLSTICE)
 - *Soft X-ray Ultraviolet Photometer System (XPS)*
- 4 Level 3 data products in HDF5:
 - Daily and 6-Hourly averaged solar spectral irradiances
 - Daily and 6-Hourly averaged total solar irradiances
- Data Producer, Mission Operations and Science Analysis and Validation:
 - Laboratory for Atmospheric and Space Physics (LASP), Boulder CO



SORCE Data Products

- Tabular datasets use HDF5 compound data type
 - 4 tables per solar spectral irradiance files
 - 1 table per total solar irradiance files
- Data readable with:
 - NCSA HDF5 libraries and H5lite libraries
 - NCSA HDF5 command line utilities (h5dump, h5ls, ...)
 - NCSA HDFView graphical data browser
 - IDL HDF5 support works (H5_BROWSER, HDF5 wrapper calls)
- Others?



Where to Obtain?

- Goddard Earth Sciences Distributed Active Archive Center (GES DAAC)
 - Online Search and Order System:
<http://daac.gsfc.nasa.gov/data>
 - Datapool (anonymous ftp access):
<ftp://g0dps01u.ecs.nasa.gov>
 - Earth Observing System Data Gateway (EDG):
<http://eos.nasa.gov/imswelcome>
- DAAC Contact: help@daac.gsfc.nasa.gov