

# The New LISIRD Interactive Solar Irradiance Datacenter (LISIRD)

Tom Baltzer, Anne Wilson, Doug Lindholm, Martin A. Snow, Don Woodraska, Stéphane Béland, Chris Pankratz, and the LASP Web Team  
Laboratory for Atmospheric and Space Physics (LASP), Boulder, Colorado

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<http://lasp.colorado.edu/lisird>

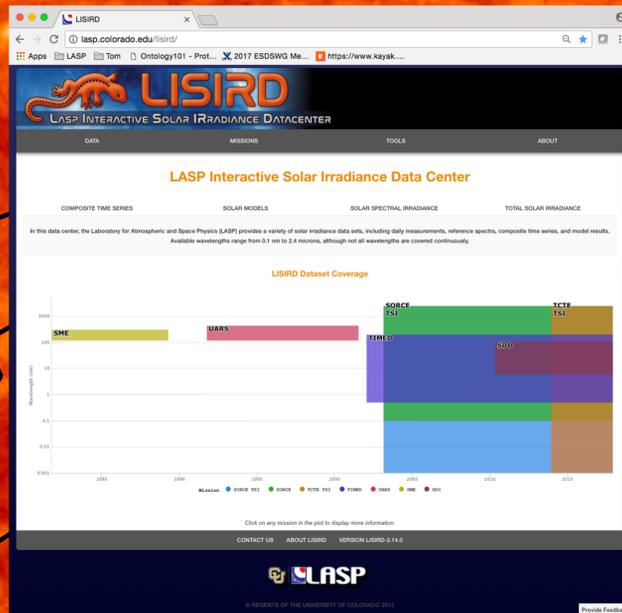
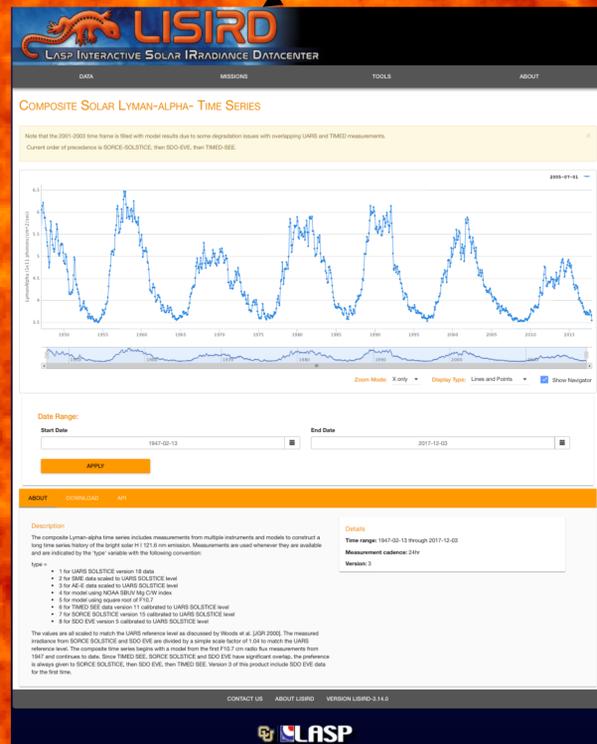
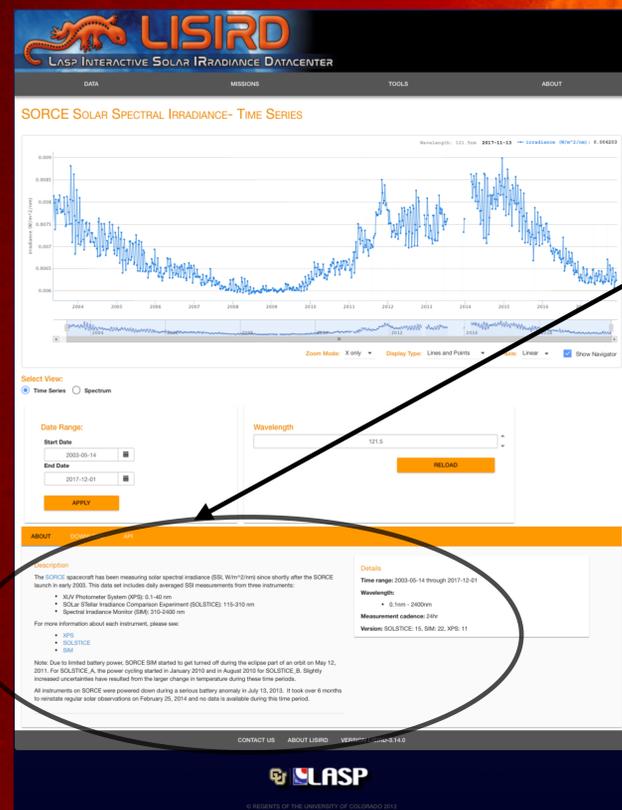
# SOLAR

# DATA!

21 SSI datasets with time series and spectrum views  
Metadata contained in triple store for eased adding, updating and cross-walking  
6 Composite datasets

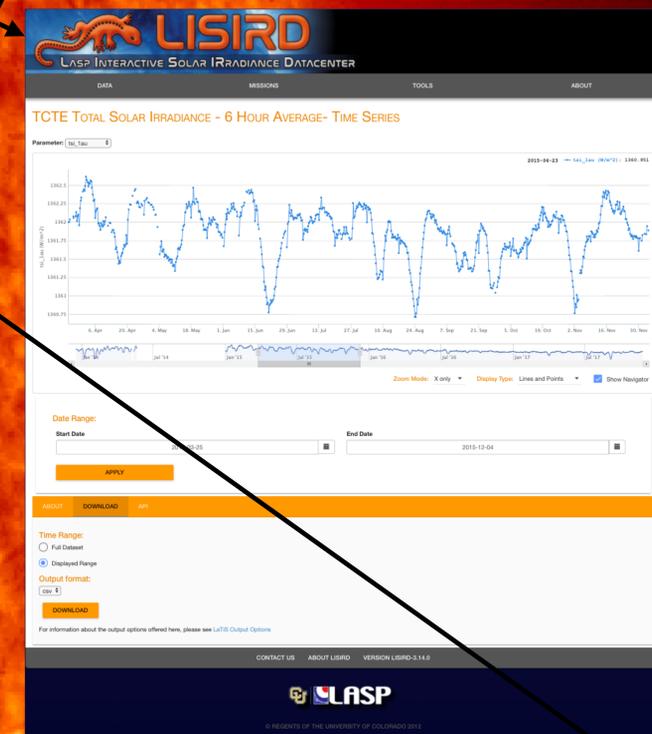
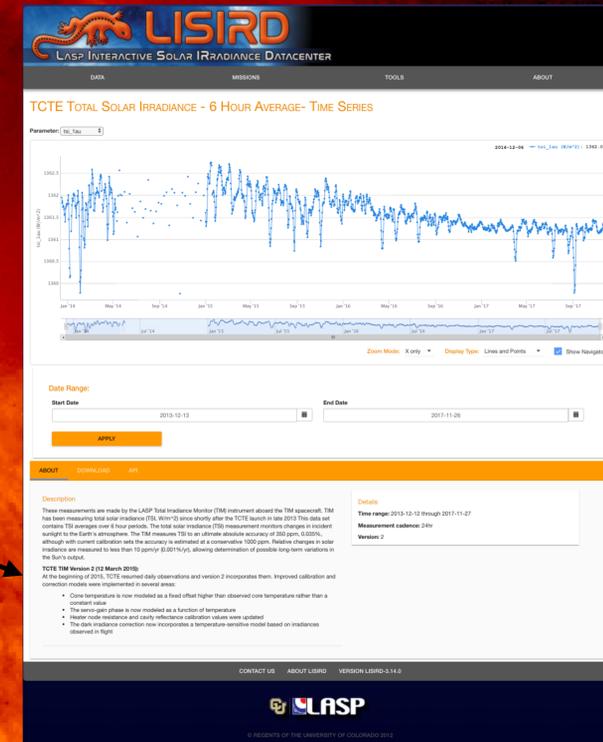
8 TSI datasets with time series views  
Improved plot interaction  
Selectable download times  
Easier to add new datasets

41 total datasets (and growing!) available through browse, search & filter UI



ALL LISIRD DATASETS

Start Date	End Date	Dataset	Parameters	Data Cadence	Wavelength Coverage (nm)
2002-01-02	2017-12-02	TIMED SEE SPS Clusters - Level 2a	Cluster 7 Daily Median Irradiance (W/m <sup>2</sup> ) Cluster 8 Daily Median Irradiance (W/m <sup>2</sup> )	url	-
1982-01-01	2016-12-31	SOL2 SSI Daily Averages	Irradiance (W/m <sup>2</sup> ) wavelength (nm)	24hr	115 - 10000
2010-04-30	2017-12-03	SDO EVE Bands	AA, A24 M15G, A2	24hr	-
2010-04-30	2017-12-03	SDO EVE Clusters	cluster116 cluster17	24hr	-
1982-01-01	2016-12-31	SOL2 SSI Monthly Averages	wavelength (nm) Irradiance (W/m <sup>2</sup> )	31 Days	115 - 10000
2010-04-30	2017-12-03	SDO EVE Solar Spectral Irradiance - Level 3	Irradiance Wavelength	24hr	6 - 105
1991-10-07	2001-07-16	LARS SOLAR SPECTRAL IRRADIANCE	Spectral Irradiance (W/m <sup>2</sup> nm) LARS Mission Day (days since 1981-08-11)	24hr	115 - 425
1947-02-13	2017-12-03	Prediction Radio Flux (observed)	F10.7 (predicted) (solar flux unit (SFU))	-	-
1947-02-13	2017-12-03	Composite Solar Lyman-alpha	Time (YearDaysYear/yyyyDDDD) Source of the data	24hr	121.6 - 121.6
1947-02-14	2016-10-17	FSM Daily	FSM	24hr	-
2003-02-25	2017-12-04	SORCE Total Solar Irradiance - Daily Average	State of Average Data: Time, 1 sigma (level) Instrument Precision at Earth distance, 1 sigma (level)	24hr	-
2013-12-12	2017-11-07	TCTE Total Solar Irradiance - 6 Hour Average	Total Solar Irradiance (TSI) at 1 AU (W/m <sup>2</sup> ) Total Solar Irradiance at Earth distance (W/m <sup>2</sup> )	24hr	-
1981-10-08	1989-04-13	SME Solar Spectral Irradiance - Daily Average	Spectral Irradiance (W/m <sup>2</sup> nm) SME Mission Day (days since 1981-10-05)	24hr	115.5 - 302.5
2002-01-21	2017-11-27	TIMED SEE SPS Clusters - Level 2	Time of observation Cluster 7 (AUN/C 17 D-21.0) Irradiance (W/m <sup>2</sup> )	24hr	-



The University of Colorado at Boulder's Laboratory for Atmospheric and Space Physics (LASP) has a long history of providing state of the art solar instrumentation and datasets to the community. In 2005, LASP created a web interface called LISIRD which provided plotting of and access to a number of Solar Irradiance measured and modeled datasets, and it has been used extensively by members of the community both within and outside of LASP. In September of 2017, the LASP Web Team released a new and improved version of LISIRD for use by anyone interested in viewing and downloading the datasets it serves.