



LASP Interactive Solar IRradiance Datacenter (LISIRD)

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The LASP Interactive Solar IRradiance Datacenter (LISIRD), <http://lasp.colorado.edu/lisird/>, is a website where researchers can discover, analyze, and download solar data from a variety of space missions, instruments, models, and laboratories. LISIRD currently provides over 75 datasets with many data types, including solar spectral irradiance, total solar irradiance, and sunspot number.

LISIRD focuses on making heliophysics research as effortless as possible by making solar data openly available and easy to analyze. On the LISIRD website, researchers can interact with data visualization charts by zooming into areas of interest, by examining data in both time series and spectral views, and by plotting different parameters of a dataset. Many researchers also prefer to use their own data analysis tools, so LISIRD makes it simple to download the data in a variety of file formats as well as to perform a number of operations such as removing or replacing missing values, reformatting time variables, and narrowing the time/spectral range of downloaded data. All of these download capabilities are available through an API for direct use in software programs as well.

This presentation will demonstrate the key features of LISIRD, provide details of the datasets it serves, and outline future plans for improvement and growth.