

# TIMED SEE Flare Catalog Released!

## TIMED-SEE Flare Catalog

This page is a catalog of flare events observed by [TIMED-SEE](#). Each row contains [NOAA SEC](#) flare information from the daily edited event reports for periods when TIMED-SEE was observing the sun anywhere between the start and stop times of these events. Events have been filtered to exclude periods when no appreciable increases were detected by SEE. Catalog last updated on Wed Sep 26 16:47:09 2007. An [excel-compatible CSV file](#) is also available.

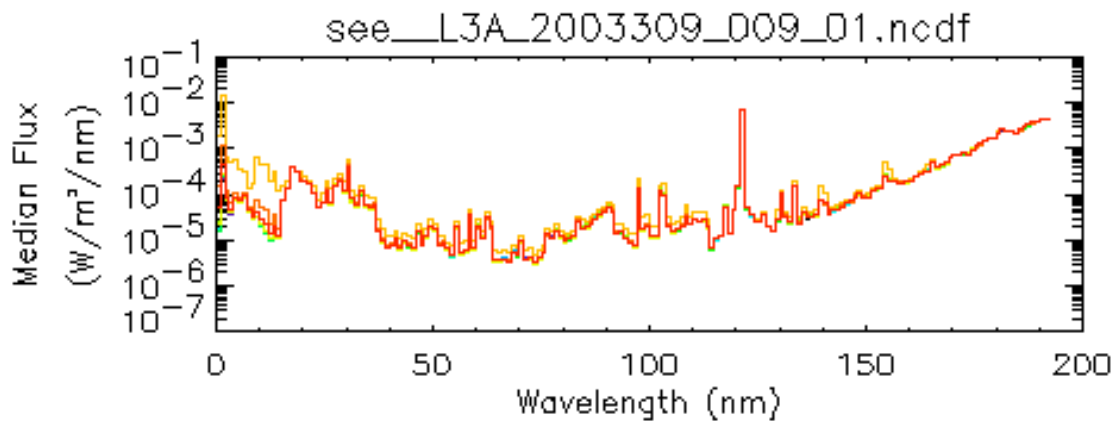
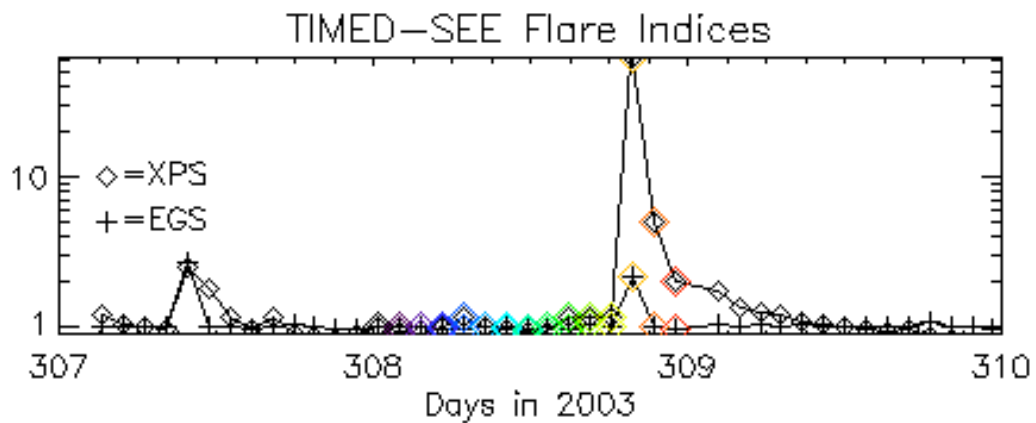
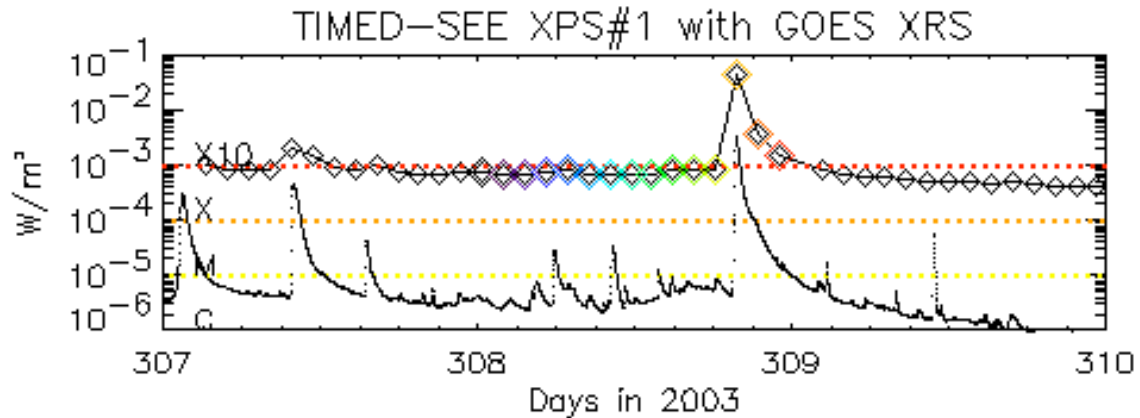
[Show/hide](#) column descriptions. Columns can be sorted by clicking on the column headings.

A comprehensive list of [SEE data products](#) are available for download.

Year/Doy mo-dd	start hhmm	peak	stop	Class	Solar Longitude (deg)	Solar Latitude (deg)	Region	Event	SEE-XPS Index ▲	SEE-EGS Index	SEE obs (seconds after peak)	SEE data	Plot
2003/308 11-04	1929	1953	2006	X 17.4	19	-83	0486	8080	61.11	2.13	-282	<a href="#">Level 3A data</a>	<a href="#">Plot SEE L3A</a>
2003/301 10-28	0951	1110	1124	X 17.2	-16	-8	0486	5120	30.77	2.37	454	<a href="#">Level 3A data</a>	<a href="#">Plot SEE L3A</a>
2005/020 01-20	0636	0701	0726	X 7.1	14	61	0720	4270	24.53	1.28	-79	<a href="#">Level 3A data</a>	<a href="#">Plot SEE L3A</a>
2005/256 09-13	1919	1927	2057	X 1.5	-9	-10	0808	9710	15.06	1.41	2944	<a href="#">Level 3A data</a>	<a href="#">Plot SEE L3A</a>
2003/306	1703	1725	1739	X 8.3	14	-56	0486	7360	15.00	1.42	694	<a href="#">Level 3A data</a>	<a href="#">Plot SEE L3A</a>

The first version of the TIMED SEE flare catalog has been released and can be found at [http://lasp.colorado.edu/see/see\\_flare\\_catalog.html](http://lasp.colorado.edu/see/see_flare_catalog.html). This catalog lists the solar flares that TIMED SEE has observed so far over its 6 years on orbit. Due to SEE's three percent duty cycle (only three minutes of observations every 96-minute orbit), it was originally expected that SEE would only observe about 1-2 GOES X-Class flares per year. SEE actually has measured the irradiance change for almost 100 flares to date, including observations during both the impulsive and gradual phases of the flares. SEE provides unique flare measurements over the entire vacuum ultraviolet (VUV) range from 0.1-193 nm at once, giving a complete spectral picture of the simultaneous increases of emissions formed throughout the solar atmosphere. These emissions range from the hot coronal X-ray ultraviolet (XUV, 0.1-10 nm), to the extreme ultraviolet (EUV, 10-120 nm) emissions that come from the cool corona and transition region, to the far ultraviolet (FUV, 121-193 nm) which are formed mainly in the chromosphere and upper photosphere.

The new TIMED SEE flare catalog provides easy access for those wanting to use the SEE flare observational data. Columns can be sorted to facilitate finding flares on a certain day or time period, or flares that were observed by SEE during the gradual phase (large SEE-XPS index) or the impulsive phase (large SEE-EGS index). Once the particular flare is found, links are also provided to quickly plot the data or to immediately download the SEE L3A data to your computer. Using other databases, further details about each flare are given, such as the start, peak, and stop time of the flare, the latitude and longitude of where the flare occurred on the solar disk, and also the NOAA active region and event number from the NOAA SEC event reports. All of the information available in the table can be downloaded as an excel-compatible CSV file.



Some references that discuss flares from TIMED SEE include:

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