

Solar Flare Catalog Download App

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This tool can be used to request, visualize and download a list of solar flare events. These events have been registered starting from GOES soft-X solar signal (NASA) and using a new detection algorithm.

Select a date range. Please notice that only data from 1986-2020 are available.

Start Date

End Date

0%

Select a format for the output file

☒ CSV ☐ XLSX ☐ DAT

Choose an output folder:

How to acknowledge

This tool accompanies the article "A new catalog of solar flare events from soft x-ray GOES signal in the period 1986-2020" by N. Plutino et al. If you download data using this software please acknowledge the authors by citing the paper.

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Welcome in this guide on how to use the Solar Flare Catalog Download App

To run this Python Script you need the following packages:

- [Pandas](#)
- [PySimpleGui](#)

You can click on the items listed above to obtain details on how to install these packages

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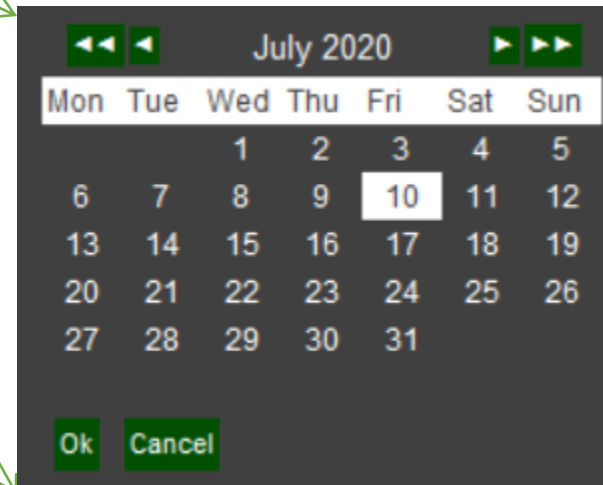
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Select dates

- The first step is to select a date range. To fill *Start Date* and *End Date* entries you can:
- 1) type dates by keyboard following the format (yyyy-mm-dd) (e.g. 2020-03-01 for the 1st March 2020)
 - 2) make use of the Calendar Widget by pressing the *Select* button.



You can navigate between months using the button



To navigate between years use the button



The selected date will be highlighted in white. Press *Ok* to save the selection


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Import and view data

Once you have selected the time range you can click the *Import* button, a bar will show when import is finished



View and *Save* buttons are now unlocked

You can use the *View* button to look at data without creating a local copy on your computer

List of solar flares

| singleID | multipleID | tstart | tpeak | tend | fclass | BG_flux | peak_flux | flux_integral |
|----------|------------|---------------------|---------------------|---------------------|--------|------------|------------|---------------|
| 332895 | 221312 | 2020-07-11 10:11:52 | 2020-07-11 10:23:16 | 2020-07-11 10:35:28 | A3.3 | 1.2358e-08 | 3.2973e-08 | 3.2683e-05 |
| 332896 | 221316 | 2020-07-14 06:46:52 | 2020-07-14 06:53:52 | 2020-07-14 06:56:40 | A4.4 | 1.2492e-08 | 4.3858e-08 | 1.6621e-05 |
| 332897 | 221319 | 2020-07-16 11:01:52 | 2020-07-16 11:14:40 | 2020-07-16 11:23:28 | A5.4 | 3.1263e-08 | 5.3891e-08 | 5.6854e-05 |

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Select a format for the output file

☒ CSV ☐ XLSX ☐ DAT 1

Choose an output folder: 2

3

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Save data

Select a format for the output file and a destination on your computer with the *Select* button, then click on the *Save* button

How to acknowledge

If you use data obtained with this App please acknowledge the authors of the paper «A new catalog of solar flare events from soft x-ray GOES signal in the period 1986-2020» (N. Plutino et al., 2022)