

The Many Ways to Access SDO Data

Browsing & EPO

SDO Data Access Website

<http://sdo.gsfc.nasa.gov/data/>

View the latest AIA and HMI images, generate slideshows of AIA or HMI data, and plots of EVE data.

LMSAL Sun Today

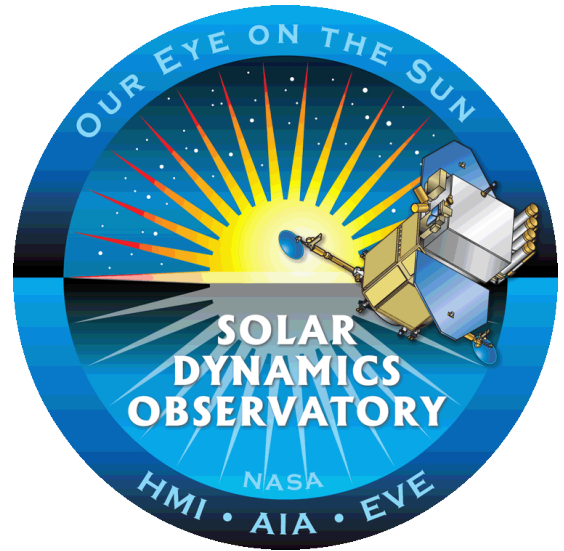
<http://www.lmsal.com/suntoday>

View latest AIA and HMI images

LMSAL iSolSearch

<http://www.lmsal.com/isolsearch>

See location of events & features; view cutout movies of those phenomena.



Space Weather / Near Real Time

Also see "Browsing & EPO"

SDAC Latest Images

<http://umbra.nascom.nasa.gov/images/latest>

The most recent AIA and HMI images in 1k x 1k GIFs with the SOHO false color scheme.

Integrated Space Weather Analysis System (iSWA)

<http://iwsa.ccmc.gsfc.nasa.gov/>

Web application for visualization of space weather data from multiple missions, including all SDO instruments.

AIA "most recent" images

<http://jsoc.stanford.edu/data/aia/synoptic/mostrecent/>

The latest level 1 NRT 1k x 1k FITS image for each filter.

Eve Data

EVE Data Access

http://lasp.colorado.edu/eve/data_access/

Plots & numerical data from EVE

(J)Helioviewer

Applications to browse time series of solar images. Can overlays image series from SOHO & SDO and stream large data sets interactively in real-time. Allows zoom, pan, basic image processing and overlay of events from HEK.

Helioviewer.org (Web Application)

<http://helioviewer.org/>

JHelioviewer (Java Application)

<http://jhelioviewer.org/>

Allows basic image processing and plugin architecture for third-party features.

APIs

<http://helioviewer.org/api/>

Virtual Solar Observatory (VSO)

Search for SDO and other solar physics data based on time, spectral range, physical observable and other parameters.

Web-based search

<http://virtualsolar.org/>

IDL Interface

<http://docs.virtualsolar.org/IDL>

API

<http://virtualsolar.org/API/>

Heliophysics Event Knowledgebase (HEK)

Search catalogs of events and features.

iSolSearch

<http://www.lmsal.com/isolsearch>

Visualization of the event locations

Web-based search

<http://www.lmsal.com/hek/>

IDL & API Documentation

<http://www.lmsal.com/hek/api.html>

LMSAL Cutout Service

Retrieve cutouts of AIA and HMI data, rather than full disk images.

Web-based form

http://www.lmsal.com/get_aia_data/

IDL Interface

http://www.lmsal.com/solarsoft/ssw_service/ssw_service_track_fov_api.html

JSOC DRMS / SUMS

The primary archive for HMI and AIA data; supports complex search parameters for use in helioseismology.

JSOC Quick Search

<http://jsoc.stanford.edu/ajax/data/dataRequest.html>

JSOC "Lookdata" (Advanced Web-based search)

<http://jsoc.stanford.edu/ajax/lookdata.html>

IDL Interface

http://www.lmsal.com/solarsoft/jsoc/ssw_jsoc_routines.html

NetDRMS

<http://vso.stanford.edu/netdrms/>

Low-level access to the HMI/AIA archive for workflow processing; may require a dedicated linux server.

See Also

Marc DeRosa & Greg Slater's Guide to SDO Data Analysis:

<http://www.lmsal.com/sdouserguide.html>

Information about finding SDO data, information about different tools to visualize the data, Frequently Asked Questions, lists of FITS readers that support Rice compressed images and more.

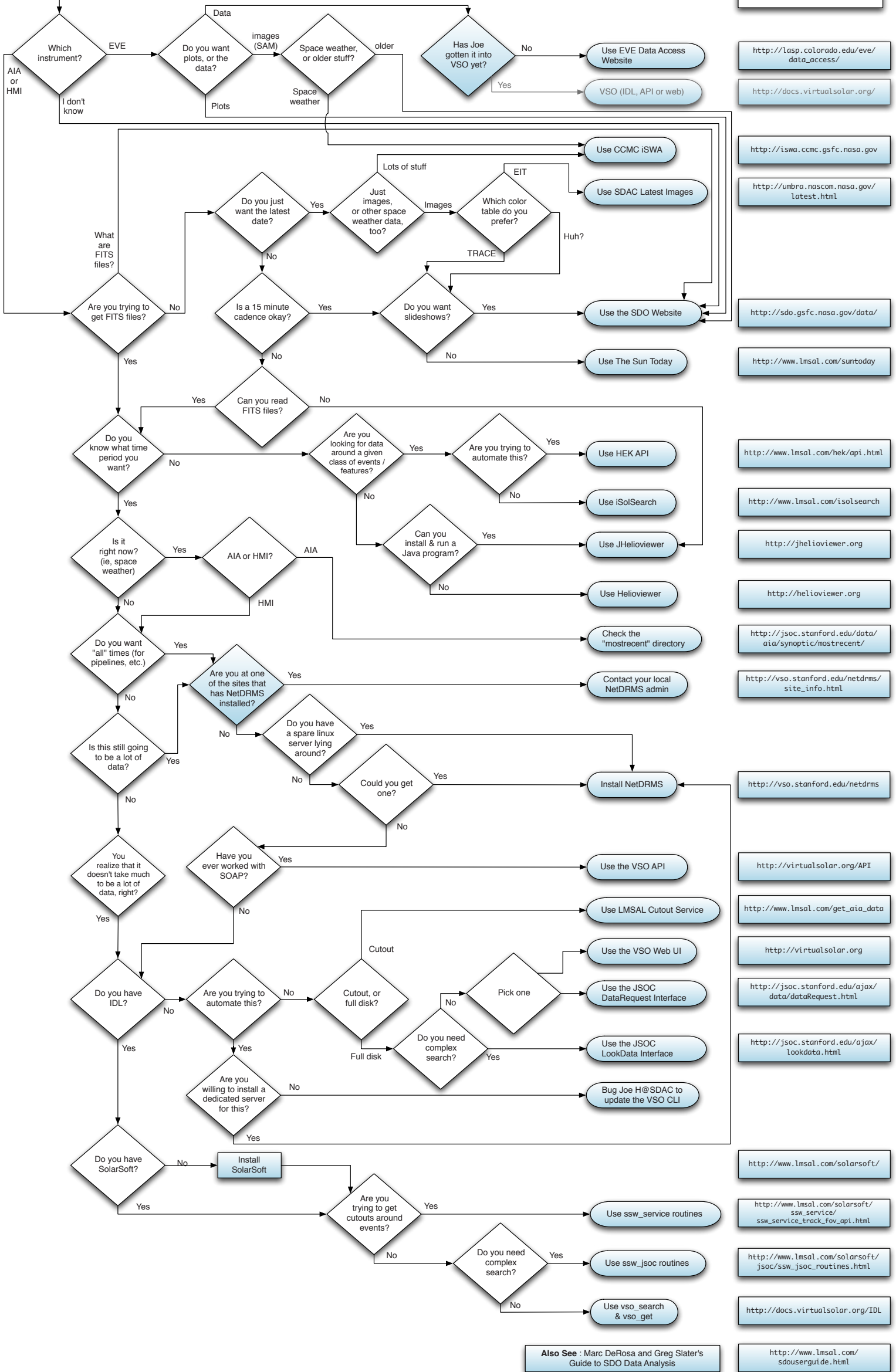
<http://sdo.gsfc.nasa.gov/data/resources.php>

The Many Ways to SDO Data

v.6.2, 2011/02/23

Legend:

- Start
- Clickable Link



Most up-to-date clickable version of this flowchart at:
http://vsol.nascom.nasa.gov/sdo/sdo_flowchart.pdf