



Integrating High Resolution Solar Physics

The SDO and SVO datacenters

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3rd-SOLARNET Forum for telescopes and databases
15/11/2021

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Virtual Access from BE-WISSDOM

- BE-WISSDOM hosts the SDO data center and the Solar Virtual Observatory (SVO)
 - The SDO data center provides easy access to AIA and HMI data from the SDO satellite
 - URL: <http://sdoatsidc.oma.be/>
 - The SVO lets you cross-search and download data from satellite and ground based solar observatories and search for data based on Solar events.
 - This helps researchers to discover and access solar datasets from synoptic observations as well as data taken during short observation campaigns
 - URL: <https://solarnet.oma.be/>

The SDO data center

- The SDO data center provides:
 - 4k by 4k AIA and HMI data through our Web interface, IDL and Python
 - The latest 24h AIA quick look data in movie format
 - A 1 hour synoptic set of AIA and HMI data through ftp
 - A 2 min synoptic set of 1k by 1k AIA 94Å and 211Å data through ftp

AIA Lev1 | **HMI Continuum** | HMI Magnetogram | HMI Magnetogram AR Patch

Select search criteria

Start date: 2010-03-29 00:00:00

End date: 2010-05-15 00:00:00

Cadence: [] second(s)

Best quality: [?]

Wavelengths: 94Å, 131Å, 171Å, 193Å

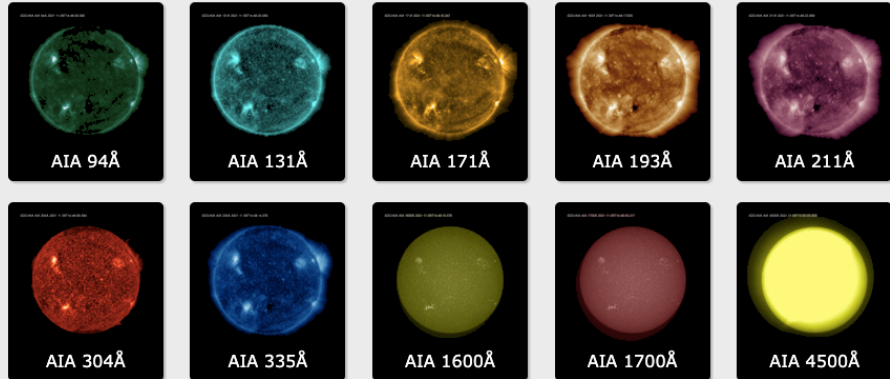
[Search data](#)

Search results

Date	Wavelength	Quality
<input type="checkbox"/> 2010-05-12 23:59:59	1600.0	0
<input type="checkbox"/> 2010-05-13 00:00:00	193.0	0
<input type="checkbox"/> 2010-05-13 00:00:02	94.0	0
<input type="checkbox"/> 2010-05-13 00:00:03	335.0	0
<input type="checkbox"/> 2010-05-13 00:00:05	171.0	0
<input type="checkbox"/> 2010-05-13 00:00:06	211.0	0
<input type="checkbox"/> 2010-05-13 00:00:08	304.0	0
<input type="checkbox"/> 2010-05-13 00:00:09	131.0	0
<input type="checkbox"/> 2010-05-13 00:00:11	1600.0	0
<input type="checkbox"/> 2010-05-13 00:00:12	193.0	0
<input type="checkbox"/> 2010-05-13 00:00:14	94.0	0
<input type="checkbox"/> 2010-05-13 00:00:15	335.0	0

[Export data](#) | [Export keywords](#)

Latest SDO/AIA images in near real time.

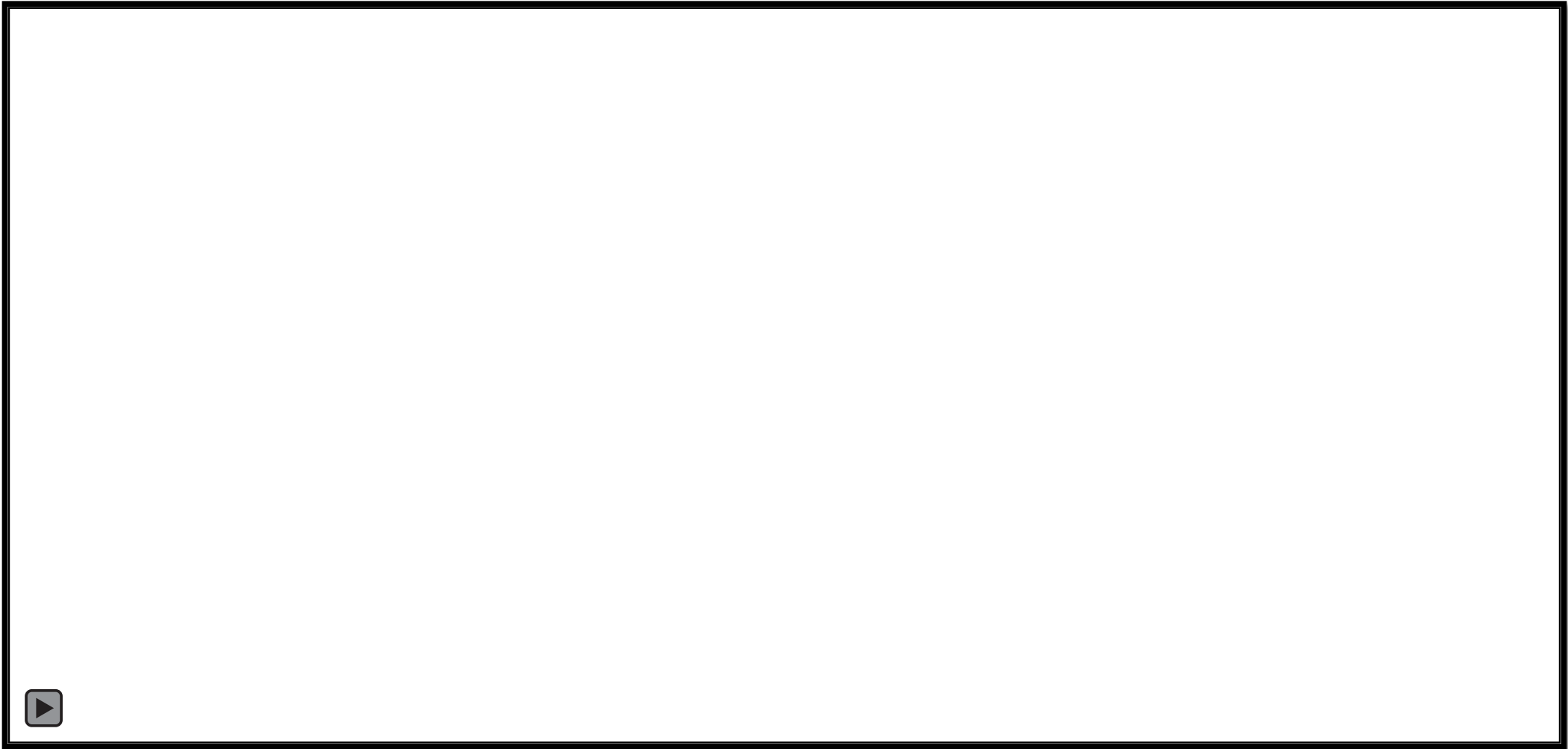


AIA 94Å | AIA 131Å | AIA 171Å | AIA 193Å | AIA 211Å

AIA 304Å | AIA 335Å | AIA 1600Å | AIA 1700Å | AIA 4500Å



SVO: Dataset specific searches and quick-look



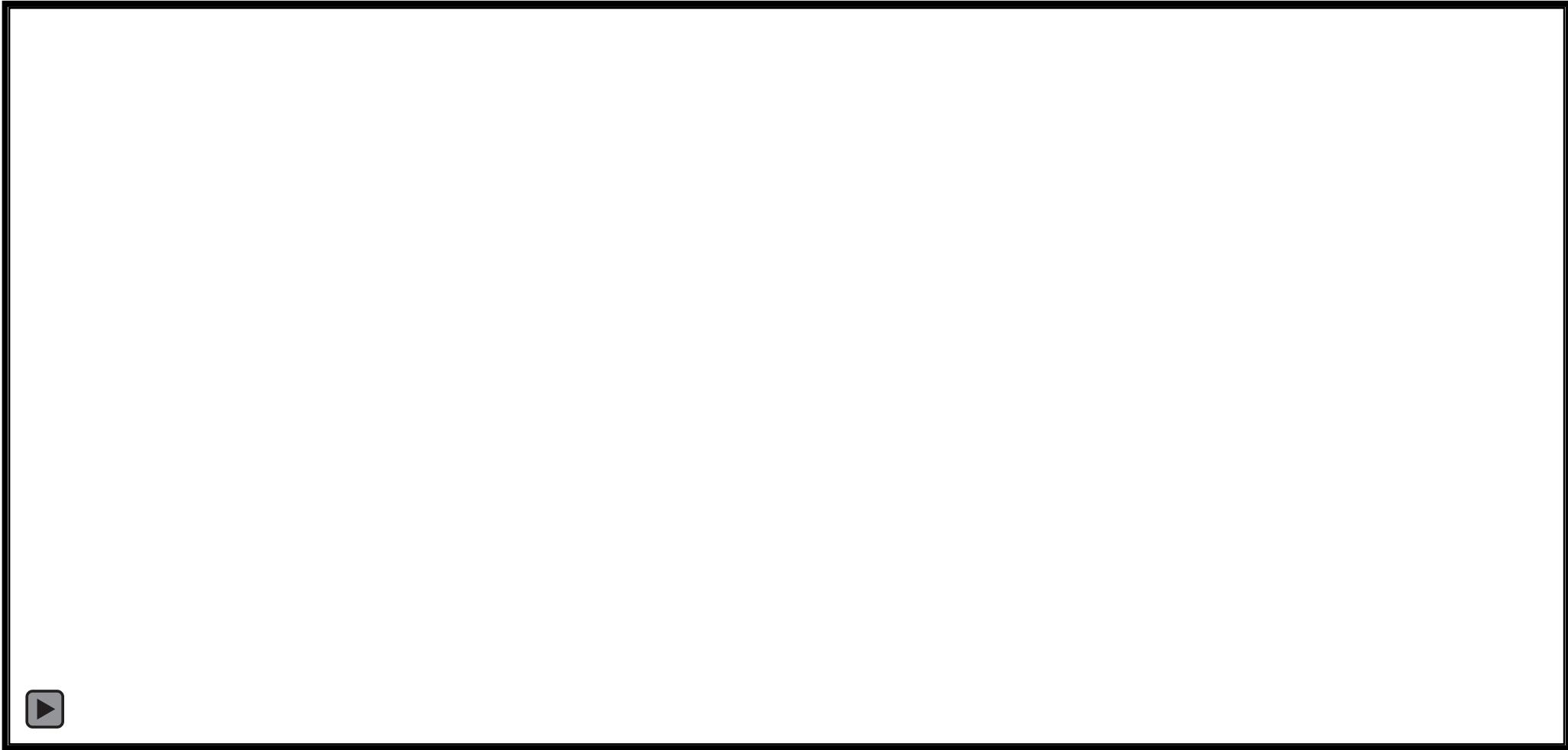
SVO: Cross data searches



SVO: Search by solar events



SVO: Data selection



Thank you
For your attention