The SDO Data Center

Solar Dynamics Observatory (SDO)

At

The Royal Observatory of Belgium.

The Solar Dynamics Observatory satellite

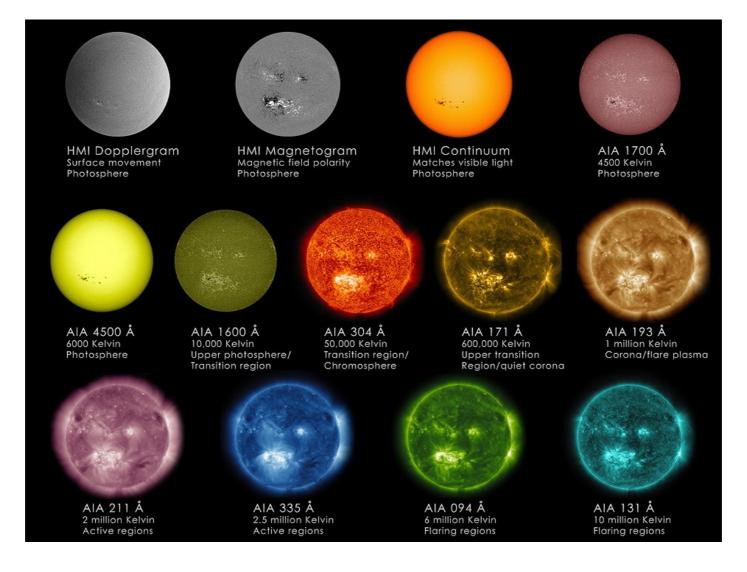
- Launched on February 11, 2010
- Geosynchronous orbit Can take data continuous
- Instruments:
 - □Atmospheric Imaging Assembly (AIA)
 - 4k by 4k for science purposes
 - 1k by 1k for Space Weather forecasting
 - Helioseismic and Magnetic Imager (HMI)
 - ☐ Extreme Ultraviolet Variability Experiment (EVE)
- The satellite sends down about 1.5 terabytes of data per day



CREDIT: NASA

The Solar Dynamics Observatory

data

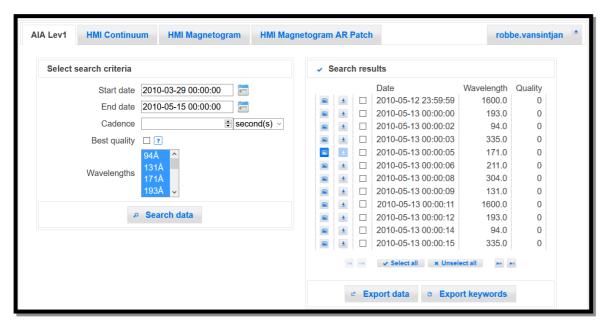


SDO Data Center at ROB

- We acquire SDO-AIA and SDO-HMI data from the Center for Astrophysics located in Harvard and provision the data in Europe
- Since 2015 our goal is to efficient provision of data on demand rather than on the latest available data.
- Data access overview: http://sdo.oma.be/
 - ☐ Web Application
 - ☐1 hour AIA and HMI synopic data by ftp
 - □2 minutes AIA synoptic data by ftp
 - □NASAs Virtual Solar Observatory
 - IDL SolarSoft
 - Python SunPy

SDO data access

Web Application - SDO Wizard



ESA's Space Weather Portal



Latest 1k by 1k quick view data

Dedicated webpage



JHelioviewer - Explore the Sun

