

The SOLARNET Solar Virtual Observatory

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1. The SOLARNET project

The high-resolution Solar Physics Network (SOLARNET) brings together and integrates the major European research infrastructures in the field of high-resolution solar physics, in order to promote their coordinated use and development. On the left we show some sample data from GREGOR and IBIS

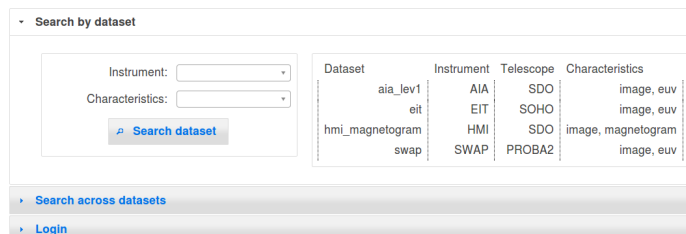
In order to make the produced data and meta-data the most important European ground-based high resolution solar instruments easily available a Solar Virtual Observatory (SVO) prototype is in development at the Royal Observatory of Belgium.

2. Meta-data standard

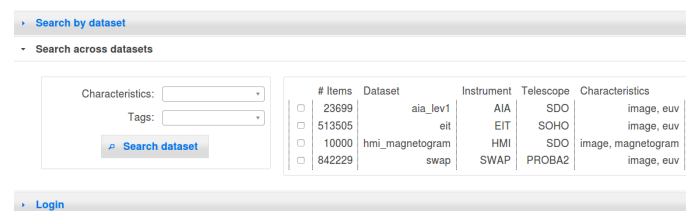
Efforts are being made to make the meta-data produced by the different telescopes as uniform as possible by using the most generally accepted standards available. (e.g. FITS standards such as the World Coordinate System)

3. The idea of a new Solar Virtual Observatory

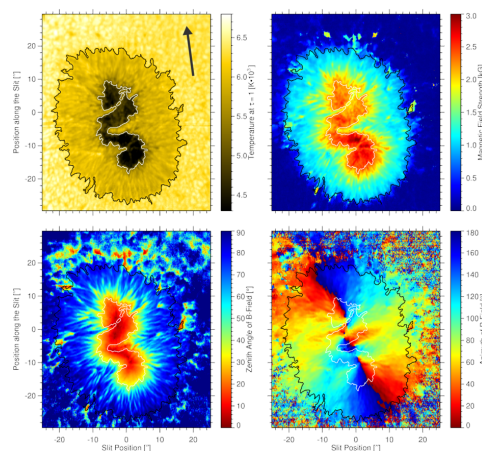
The design idea for the SVO is to have one searchable database of all the meta-data, allowing for cross database searches. The data will be made available through the Representational state transfer (REST) protocol making it accessible trough the SVO web app, IDL, python and other means.



Screenshot 1 of the SVO prototype



Screenshot 2 of the SVO prototype



First result of the 1.5 m GREGOR telescope



VTT - Tenerife



THEMIS - Tenerife



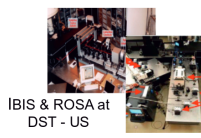
SST - La Palma



GREGOR - Tenerife



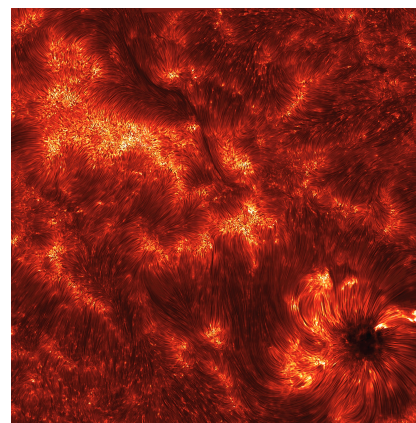
DST



IBIS & ROSA at DST - US



DB repositories: SDC Europe / BE-WISSDOM / GSC-SDO



IBIS mosaic of AR NAOO 11092
Credit: K. Reardon (OAA, INAF)