Royal Observatory of Belgium

The Solar Weather Browser

B. Nicula, D. Berghmans, R. Van der Linden

SWB

SIDC

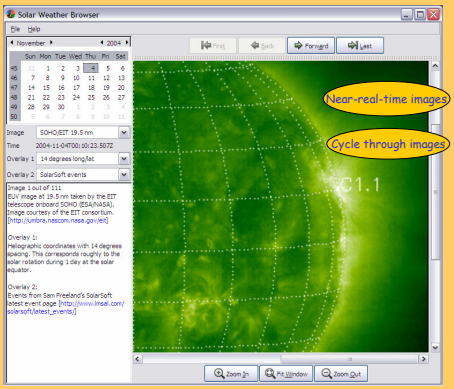
http://sidc.oma.be/SWB

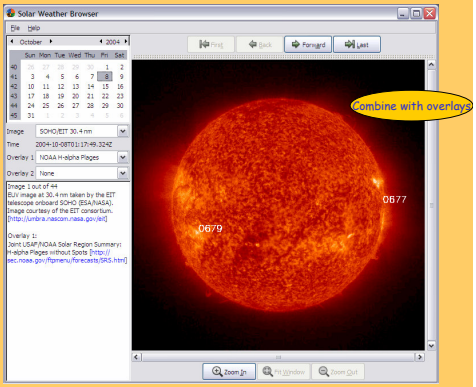
The Solar Weather Browser is a client/server tool for easy visualization of solar images in combination with any context information that can be overlaid on the images.

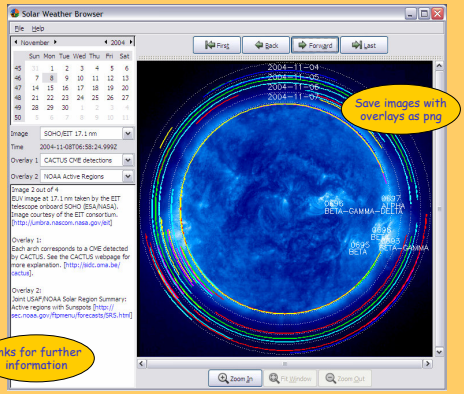
The server side preprocesses a wide variety of solar images and context data into a highly compressed format that is accessed by the client side on the user machine.

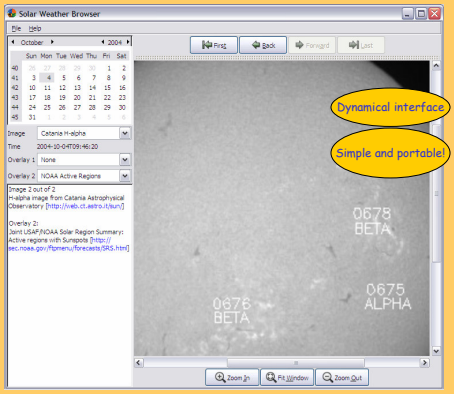
On the client side the user can interactively combine background images with overlays. This allows an enormous number of image/overlays combinations (currently on the order of 1000).

The SWB is an open-source development, readily downloadable for all major platforms.









Live demonstration of the Solar Weather Browser will be projected here.

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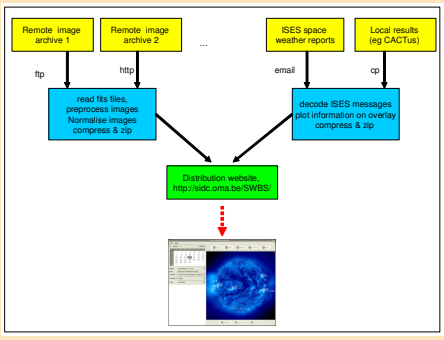
Technical details

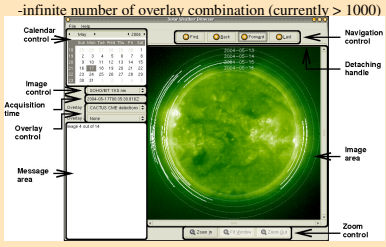
1. Server

Server written in IDL collects and processes data from a variety of sources and makes them available to a web server



2. Client-side: user interface

Client written in C using cross-platform libraries (GTK2, libxml2, zlib, etc) retrieves, colorizes and combines the images
-high compression of images
-cached operation (download only once)
-infinite number of overlay combination (currently > 1000)



3. Download and user support web pages

http://sidc.oma.be/SWB