



STAFF

Solar Timelines viewer for AFFECTS

Presentation by Vincent Malisse (ROB)





Overview

- **The 5 W's**
- **Goals and Challenges**
- **Technical Jibberish**
- **The Crystal Ball**

START



End





The 5 W's

1. What
2. Why
3. Who
4. Where
5. When

START



End





The 5 W's - What

- STAFF aims to combine timeline data from different sources
 - Tool for forecasters
 - Tool for publications
 - Tool for research
 - ...
- 1 tool for all timelines
- Quicklook, science, predictions

START



End





The 5 W's - What

● Available

- GOES X-Ray
- Lyra EUV
- Sunspot (Ri)
- Radio 10.7 cm flux
- GOES Particles
- ACE Imf
- ACE Solar Wind
- Ak Chambon-La Forêt
- Ak Dourbes
- K Chambon-La-Forêt
- K Dourbes
- Kp

● Upcoming

- Imager based data
- North and South hemisphere sunspot numbers
- Sunspot areas
- Additional Solar Wind and IMF
 - GeoTail
 - IMP-8
 - Wind

START



End





The 5 W's - What

- More detail
 - Info about the datasets
 - Info about each datapoint by “hovering”
- More options
 - Drill down options (zooming)
 - Extensive timerange options
 - Combining timelines

START



End





The 5 W's - Why

- Today someone needs to browse to several websites containing the different datasets
- The plots for those websites are mainly fixed, with little options and little detail

START



End





The 5 W's - Who

- STAFF is developed by Vincent Malisse and Cis Verbeeck
- It is intended for researchers, forecasters or anyone interested in solar activity.

START



End





The 5 W's - Where

- On the web, for everyone available
 - <http://www.staff.oma.be/>
- Ideas, problems, suggestions, ...
 - Staff-viewer-as@oma.be

START



End





The 5 W's - When

- STAFF is available right now
- STAFF is continuously importing new data

START



End





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- **What is STAFF?**
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End





Goals and Challenges

START



End





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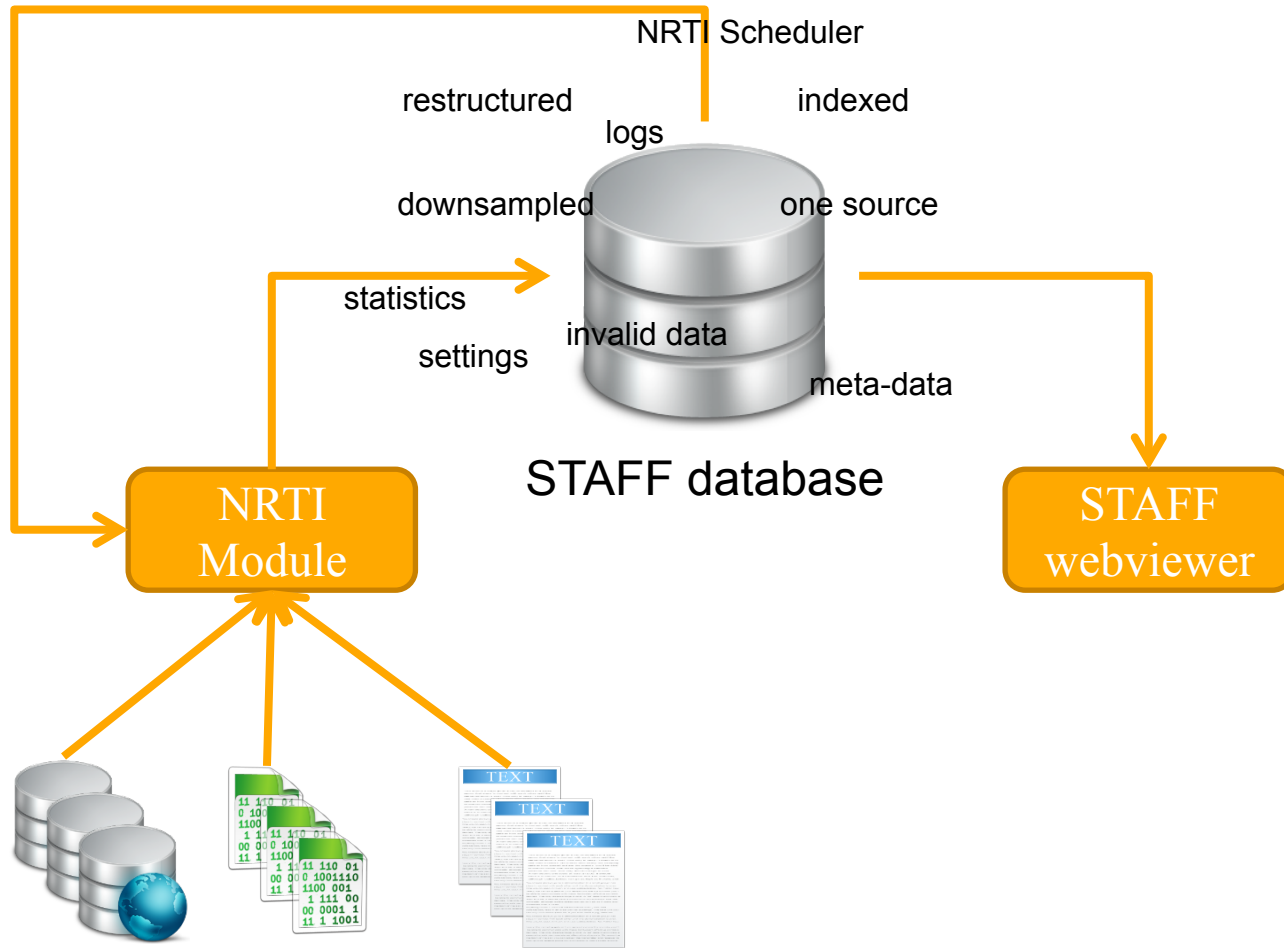


Technical Jibberish

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End





Technical Jibberish

- **Database**

- PostgreSQL database
- Contains timeline data, meta-data and data necessary for the STAFF viewer and the NRTI module to run.

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End





Technical Jibberish

- **NRTI-Module**

- Near Real-Time Import
- Imports data from different datasources
 - Databases
 - Text files
 - FITS files
- Written in java
- Runs every 5 minutes

START



End





Technical Jibberish

- **STAFF viewer**

- Webpage
- Uses JQuery and JQPlot as client-side libraries
- Written in java

START



End





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The Crystal Ball

The future of STAFF



- More data, more timelines
 - SPOCA – timeline data based on images (Active regions/Coronal holes/Quiet Sun).
 - North & South sunspot numbers
 - More timelines from other satellites (Wind, IMP-8, Geotail)
 - VTEC timelines
 - Count timelines (# C, M, X flares, CME's per month)
 - Kp predictions from SRI NASU-NSAU
- Your personalized STAFF
- Triggered alerts
- ...

START



End





STAFF

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End of presentation



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