Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

# CALLISTO status report #35

**Data archive and QuickViews back on-line:**

We are very happy to announce that the Callisto/Phoenix data archive as well as the generation of QuickViews is back on-line. Specialists from technical high school FHNW finally managed to get all necessary tools installed and configured (UNIX, Python, PERL, SSWIDL etc.) to provide data and QuickViews on this website:
http://soleil.i4ds.ch/solarradio/callistoQuicklooks/

**rfi-survey Spain**

In the meantime we had arranged an rfi-monitoring and observing-site survey between University of Alcalá, University of Murcia and ETH. The plan was to find a possible observation site for solar radio observations and outreach. Finally we found an extreme radio quiet area in a natural valley near Peralejos.

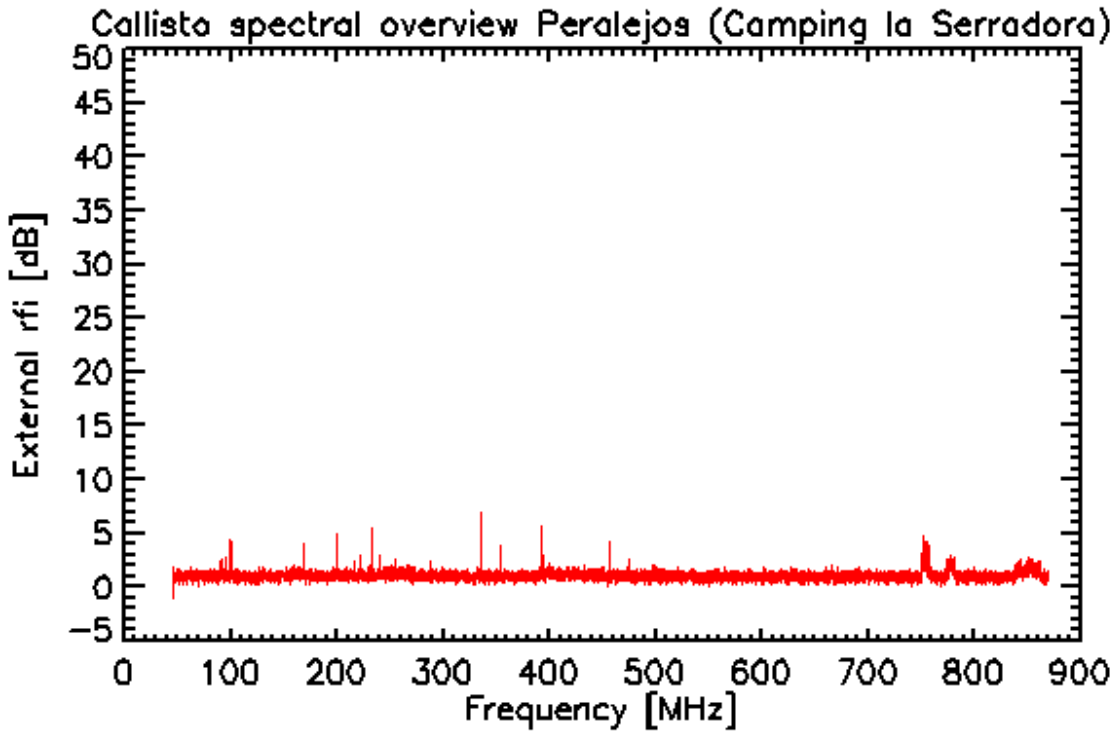


Fig. 1: Radio quiet area in Peralejos, Spain. No external interference above 6dB of receiver noise-level. This location is perfect for radio-astronomy.

## Recent papers/articles

No. 174, A Shocking Type II, by Hazel Bain, Säm Krucker, and Lindsay Glesener: Global coronal waves getting sorted out, see http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/A_Shocking_Type_II.

## AOB

Phoenix-3, the FFT-spectrometer 1 GHz – 5 GHz in two polarizations is operating again. Latest burst observations look promising:

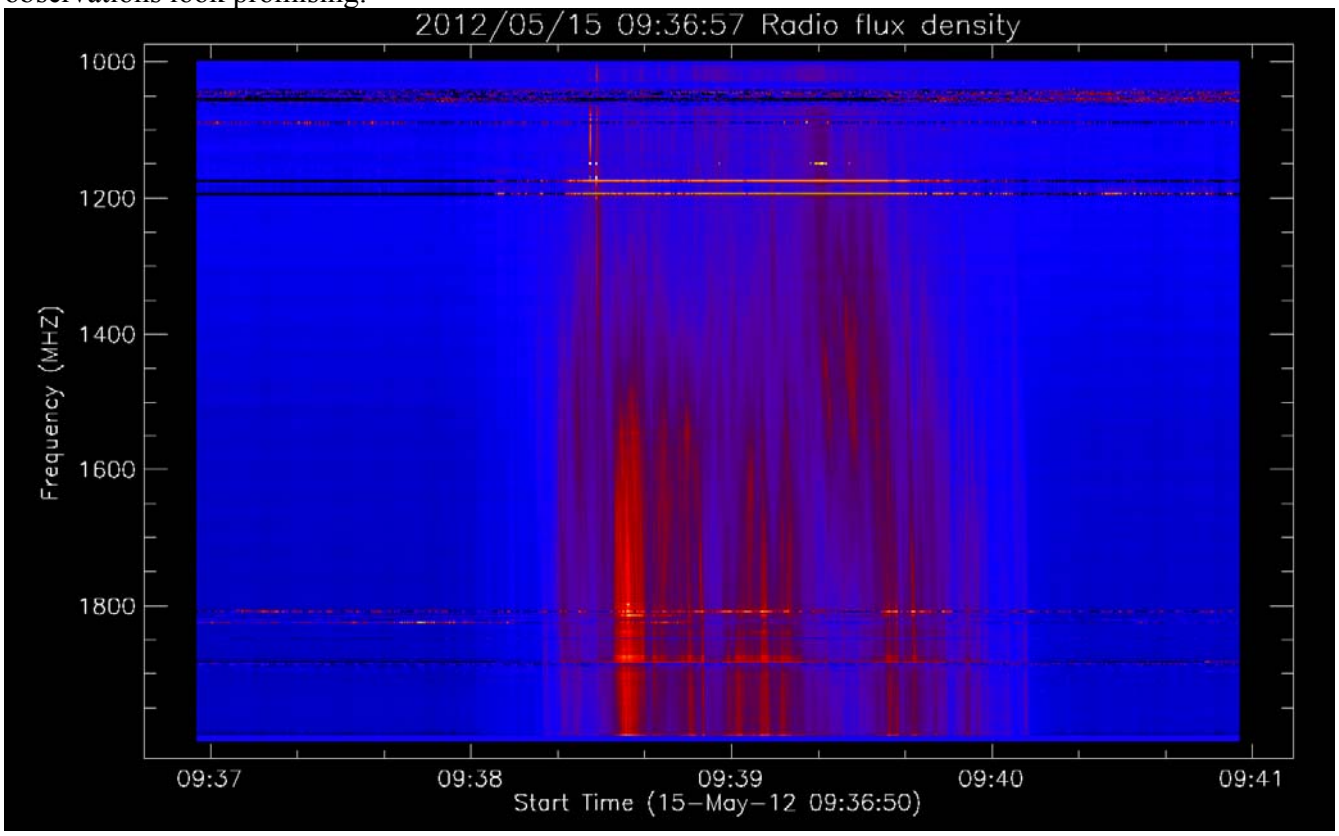


Fig. 2: Phoenix-3 FFT-spectrometer. Solar burst in L-band interfering with mobile phones at 1800 MHz.

New version of Callisto application is available as version 1.16 here:
http://www.astro.phys.ethz.ch/astro1/Users/cmonstei/instrument/callisto/ecallisto/applidocs.htm
Some minor software bugs have been eliminated.

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There will be the 21st national Solar Physics Meeting 18 - 22 June 2012 in Stará Turá, Slovakia. Brief information in English can be found here:
http://www.suh.sk/index.php?option=com_content&view=section&layout=blog&id=20&Itemid=137&limitstart=11

**Request for spectral overviews**

I'd like to prepare a catalog about the world-wide level of interference. With our network we are in a very comfortable situation to cover almost the whole planet. I beg you to do the following before sun-rise and/or after sun-set:

1. Change Callisto to manual mode and press the button 'Save Spectral Overview' under normal condition while the antenna is connected to the preamplifier. Repeat it 2 or 3 times at slightly different times of the day.
2. If possible do the same again while the antenna is replaced by a 50Ω resistor. Repeat it 2 or 3 times at slightly different times of the day.
3. Rename the files in a way that I can recognize which files have seen the 50Ω reference resistor.
4. Write some comment whether you operate with or without preamplifier and whether you operate with your 'normal' antenna or with an omni-directional antenna.
5. Send all files with comments to me: monstein@astro.phys.ethz.ch

Those who have more than one Callisto may repeat the monitoring process for all instruments.
This allows me to determine the external interference level. If you cannot attach a 50Ω resistor then I'll subtract a 3rd order polynomial background. Out of that I'll produce a document which I then will provide to you and to CRAF. Each author of a providing location will be mentioned as author in the final paper.


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