

CALLISTO status report #32

New location in India operational:

Since November 23th 2011 University of Pune is operational. The instrument was deployed during a well organized workshop under the title ‘Solar Radio Workshop’ held at University facilities in Ganeshkind, Pune, India. About 50 young people from India, Sri Lanka, Mexico, USA and Switzerland participated during several talks and two workshops. One workshop was dedicated to the installation of Callisto, the other for training SSWIDL. Travel cost was supported through a ‘Teaching Stay Grant’ by Swiss Society of Astronomy and Astrophysics SSAA.

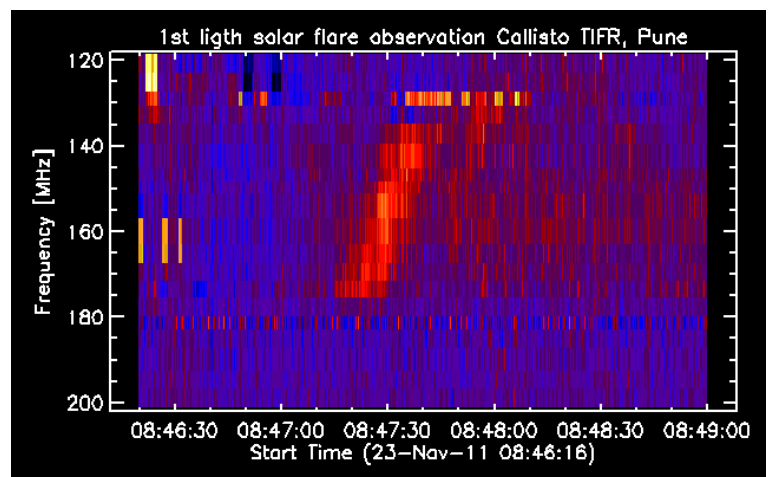


Fig. 1: Left: Subramaniam Ananthakrishnan (Pune) and Rajmal Jain (Ahmedabad) discussing the logarithmic-periodic antenna on top of the roof of the institute. It was manufactured by Somamshu Udyam out of standard aluminium profiles procured from a local store. The antenna is pointing to an average position of the sun transit. This (small) antenna covers 100 MHz – 1000 MHz. Another log-per covering 30 MHz -950 MHz is ready to be installed. The present design after Ashish Rojatkar shows a very good reflection coefficient s_{11} over the whole band. The low noise 20 dB preamplifier is mounted on top of the antenna.

Fig. 2: Right 1st light at Pune, the first harmonic of low frequency type II solar radio burst.

Welcome Pune on the e-Callisto network!



Fig. 3: Antenna instructions by the author



Fig. 4: more instructions close to the 4.5m dish



Fig. 5: Visit at GMRT (45 m dish < 1'500 MHz)



Fig. 6: Training related to Callisto software

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Three other stations are currently preparing their installation:

1. Nairobi/Kenya
2. Ahmedabad/India
3. Katubedda, Moratuwa, Sri Lanka

Whitham Reeve, Anchorage/Alaska started a small series of Callisto instruments which are 100% compatible to the ETH-version (except power connector). If anyone needs additional instruments, this is the URL with complete ordering information:

<http://www.reeve.com/Solar/e-CALLISTO/e-callistoOrderInfo.htm>



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eC03 (Badary Siberia) has been successfully repaired after a heavy lightning stroke. All integrated circuits had to be replaced while the tuner CD1316IL/V survived.

The latest documents describing hardware manufacturing of Callisto here:

<http://www.reeve.com/Documents/CALLISTO/CALLISTOSoftwareSetup.pdf>

And latest guide for software installation/configuration here:

<http://www.reeve.com/Documents/CALLISTO/CALLISTOConstruction.pdf>

Both documents are much more detailed than the Callisto-internal pocket guide.

Relevant Callisto-related links can be found here:

<http://e-callisto.org/>

Direct access to all Callisto data available here:

<http://soleil.i4ds.ch/solarradio/callistoQuicklooks/>

Callisto application V1.15 has been released recently here:

http://www.astro.phys.ethz.ch/astro1/Users/cmonstei/instrument/callisto/ecallisto/Callisto_V115.zip

The function Help→Info has been updated. You have now direct access to the latest version of documentation via the web (internet connection necessary). In addition you may directly open the folder of Callisto to access configuration and frequency files. Now the actual date is displayed on the application instead of static text 'Label2'.

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