

This pdf circulated in
Volume 3, Number 93,
on 26 Oct. 2011.



ETH

Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

CALLISTO status report #31

Two new locations operational:

Since October the SWMC (Space Weather Monitoring Centre) at the Helwan University, south of Cairo in Egypt is operational. Installation/configuration and education of local people was supported by a 'Teaching Stay Grant' provided by the North-South Centre of ETH Zürich.

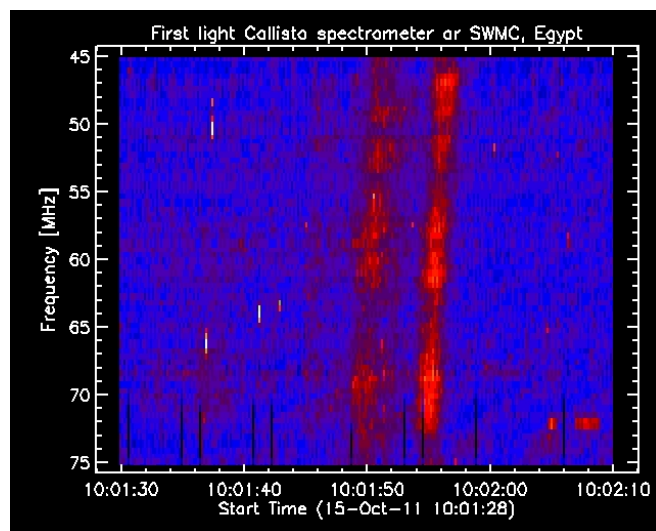
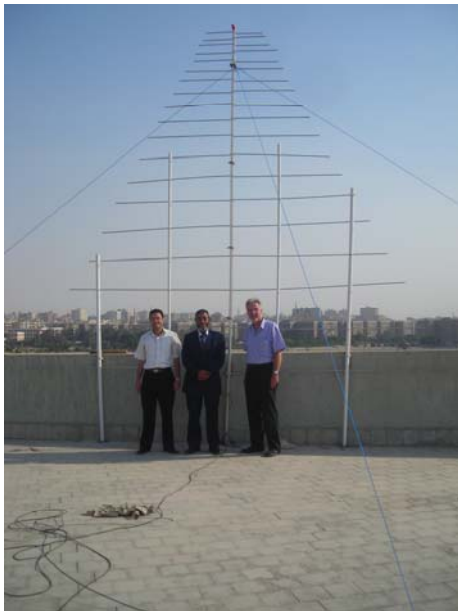


Fig. 1: Left: Logarithmic-periodic antenna on top of the roof of the institute. It was built from aluminium profiles from local stores with support from local people. Height of the antenna is 6m, the longest dipoles covering 20 MHz have about 6m. The preamplifier is a ZX60-33LN+ from Mini Circuits. Antenna cable (HX-50) is 30m long down to Callisto. In front of the antenna: Director SWMC Dr. Ayman M. Mahrous, Ahmed Salah (antenna installation) and the author Christian Monstein.

Right 1st light at SWMC, a type III burst from 20111511 at 10:01UT.



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Another Callisto spectrometer has been sent to Crimean Astrophysical Observatory in Simpheropol, Ukraine beginning of July 2011. Since October 20th FIT-files are sporadically available on our data archive. The small range of observation allows high resolution in time and frequency range. This is ideal to study type I solar radio bursts.

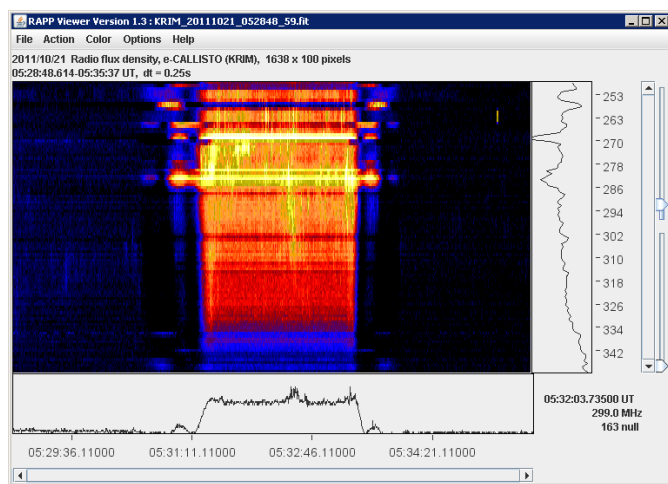


Fig. 2: Left: Phased array of 16 elements (4x4) with total size of 3.5x3.5 meter. Every element consists of 7 dipoles each. The frequency range is 250-350 MHz; the beam pattern is of order of 11°. The aerial is fixed on a parallactic mount with an electric drive to track the sun from 5 UT up to 13 UT. Preamplifier is a ZX60-33LN+ having a gain of 20 dB (placed in antenna box). Coaxial cable is 40 meters long with a loss of about 4 dB.

Right: Driftscan through the sun with some type I flares.



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Next two workshops are planned:

1. In Nairobi, Kenya from 07.11.2011 till 12.11.2011, contact person Paul Baki, paulbaki(at)gmail.com
2. In Pune/India from 23.11.2011 till 25.11.2011, contact person: Subramaniam Ananthakrishnan, subra.anan(at)gmail.com

A new description of the e-Callisto network has been released on our website here:

<http://www.exp-astro.phys.ethz.ch/astro1/Users/cmonstei/instrument/callisto/Appdocs/The%20e-Callisto-Network.pdf>

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/>

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