

CALLISTO status report/news letter #51

New station commissioned in Kigali/Rwanda

During the **African School on the Impact of the Sun on Ionosphere: Physics and Applications**, organized by ICTP a new Callisto spectrometer and antenna were installed at University of Rwanda, College of Education, Maths & Physics Department in Kigali - Rwanda.

The workshop program and some additional information can be found here:

http://cdsagenda5.ictp.trieste.it/full_display.php?email=0&ida=a13251

These files can be identified with the header "RWANDA_2014*_*_59.fit.gz" in the e-Callisto data archive here: <http://soleil.i4ds.ch/solarradio/callistoQuicklooks/>

Welcome RWANDA on board of the e-Callisto network!



Figure 1 ~ Installation of a broad band logarithmic periodic dipole array (LPDA) and low noise amplifier (LNA) by students in the lawn in front of the college..



Figure 2 ~ Training in operation and maintenance of up to 5 students by the author.

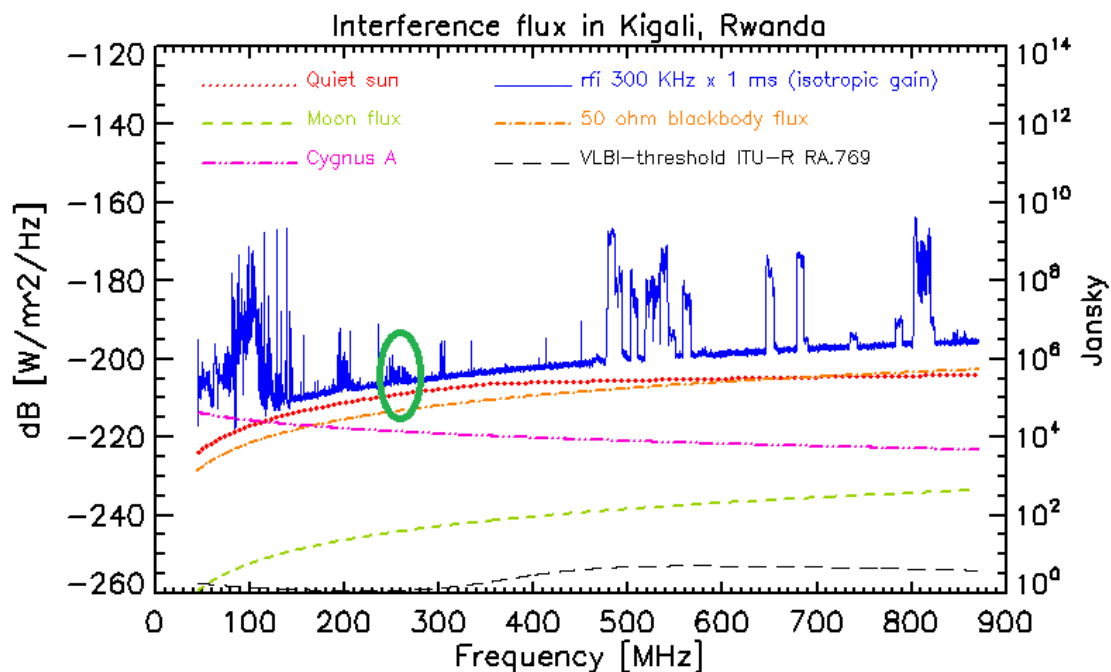
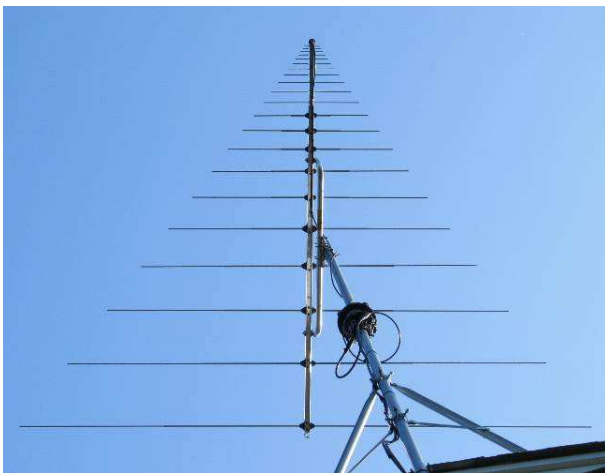


Figure 3 ~ Spectral overview Kigali/Rwanda. Green ellipse shows downlinks from US-military satellites which prove that the system is sensitive to observe solar radio bursts. These transponder signals might be used to qualify the receiver and/or to determine the coherence bandwidth for interplanetary communication.

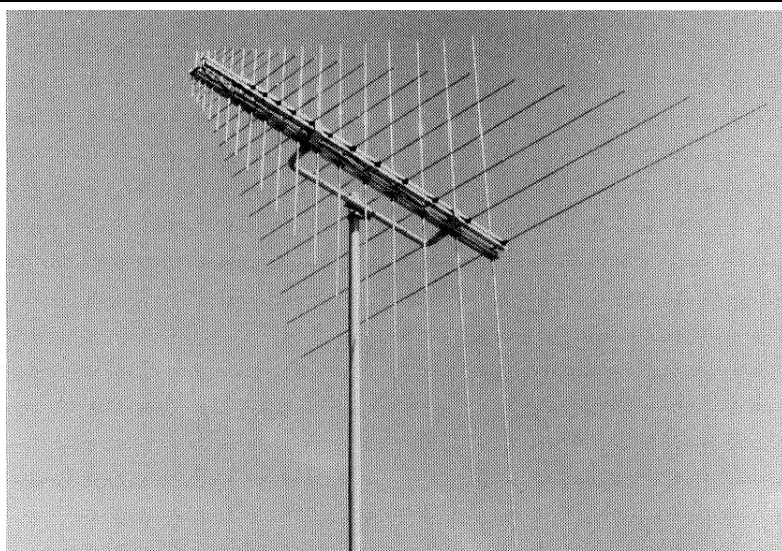
Antennas for Solar Radio Astronomy for HF, VHF and UHF:
<http://www.reeve.com/> Contact: info@reeve.com



CLP5130-1N linear polarized log periodic antenna
 21-element, 50 ~ 1300 MHz
 U-boom support shown; rotator and mast not included



CLP5130-2N linear polarized log periodic antenna
 17-element, 105 ~ 1300 MHz
 Dragonfly mount shown but antenna normally supplied with U-boom support; mast not included



CLP5130-1X
 Cross-polarized log periodic antenna
 18-element, 50 ~ 500 MHz
 U-boom support; mast not included



Long Wavelength Array (LWA)
Cross-polarized, tied-fork dipole antenna
2-element, 10 ~ 90 MHz
Ground mounted, mast included

AOB:

- The domain of the current FTP-server <ftpexchange.imvs.technik.fhnw.ch> at university of applied sciences in Brugg/Windisch will be taken out of service. Those of you who actively send their FITS-files via FTP-Watchdog or with their own tool to this server, they should **now change** the address of the server to the new address <ftpexchange.cs.technik.fhnw.ch> Username and password are still the same.
- CALLISTO or Callisto denotes to the spectrometer itself while e-Callisto denotes to the worldwide network.
- General information and data access here: <http://e-callisto.org/>
- e-Callisto data are hosted at Fachhochschule Nordwestschweiz (University of applied sciences FHNW) in Brugg/Windisch, Switzerland. Process control, user communication and scripts are conducted at institute for Astronomy, ETH Zurich.

Please do **not** respond to the email-address of the list-server, respond instead directly to me (address below).
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On the other hand if you think someone else might be interested in this kind of info, please let me know his/her email-address to be added to the data base.

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