





## 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 where 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: <a href="http://cdsagenda5.ictp.trieste.it/full\_display.php?email=0&ida=a13251">http://cdsagenda5.ictp.trieste.it/full\_display.php?email=0&ida=a13251</a>

There files can be identified with the header "RWANDA\_2014\*\_\*\_59.fit.gz" in the e-Callisto data archive here: <a href="http://soleil.i4ds.ch/solarradio/callistoQuicklooks/">http://soleil.i4ds.ch/solarradio/callistoQuicklooks/</a>

#### 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..

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

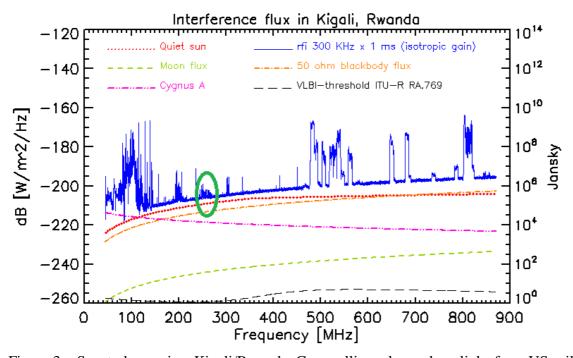


Figure 3 ~ Spectral overview Kigali/Rwanda. Green ellipse shows downlinks from US-military satellites which prove that the system is sensitive to observe solar radio bursts. These transponder signals might be used to qualify the receiver and/or to determine the coherence bandwidth for interplanetary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

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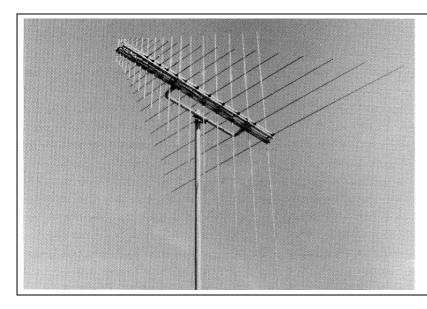
# Antennas for Solar Radio Astronomy for HF, VHF and UHF: <a href="http://www.reeve.com/">http://www.reeve.com/</a> Contact: info@reeve.com



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



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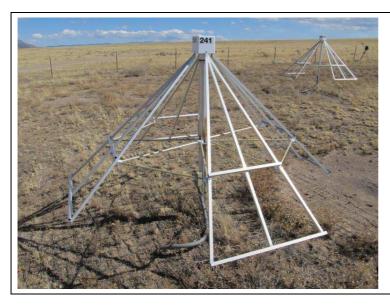
CLP5130-1X Cross-polarized log periodic antenna 18-element, 50 ~ 500 MHz U-boom support; mast not included



Swiss Federal Institute of Technology Zurich







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 <a href="ftpexchange.imvs.technik.fhnw.ch">ftpexchange.imvs.technik.fhnw.ch</a> 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 <a href="mailto:now change">now change</a> the adress of the server to the new address <a href="ftpexchange.cs.technik.fhnw.ch">ftpexchange.cs.technik.fhnw.ch</a> 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). If you do not want to receive this news-letter please send me an email and I'll take your address out of the data base. 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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