CALLISTO status report/newsletter #88

I, as the current PI of e-Callisto, am retired now from ETH Zurich but still busy as a 'free lancer' to hand over the Bleien radio telescopes. As I have now more time left, I restarted the e-Callisto burst list here: http://soleil.i4ds.ch/solarradio/data/BurstLists/2010-yyyy_Monstein/
Let me know if you find mistakes or if I overlooked a burst from your station.

Dr. K. Sasikumar Raja has kindly written a document with the title 'e-Callisto Network' which you can access from here: http://www.e-callisto.org/GeneralDocuments/e-CALLISTO%20Network.pdf

Callisto instruments are now registered at ITU here: https://www.itu.int/pub/R-REP-RS.2456-2019 and here: https://www.itu.int/dms_pub/itu-r/opb/rep/R-REP-RS.2456-2019-PDF-E.pdf

A new instrument has been installed and configured in Sigüenza, Spain. Longitude -2.641°, latitude 41.066° at altitude 1040 m asl. File ID is SPAIN-SIGUENZA

Fig. 1: New antenna installation (LPDA) in Sigüenza, Spain.

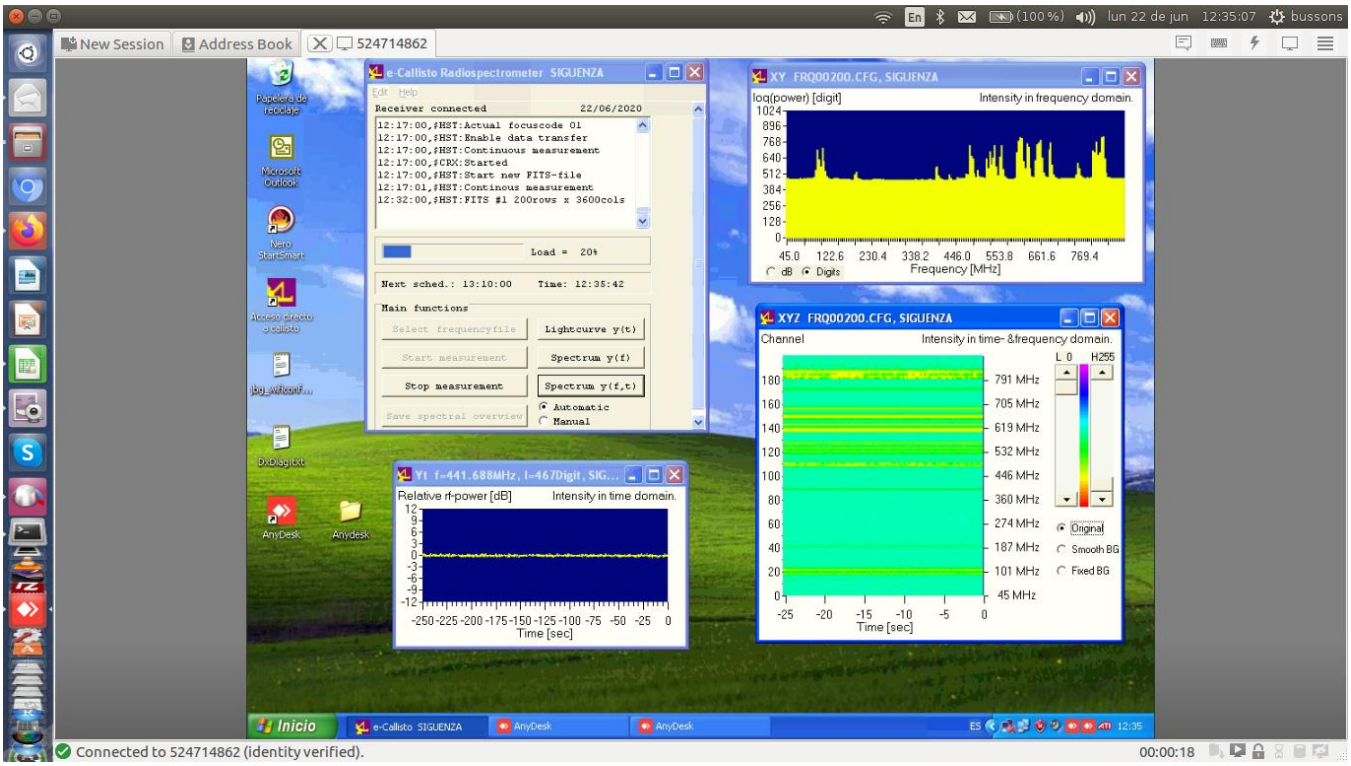

Fig. 2: Desktop Callisto Sigüenza with all plot windows open. Some rfi above 500 MHz.

Welcome on board of the e-Callisto network

New equipment at ASSA in Australia

After an exciting week of ASSA ordering a couple of additional Callisto, I thought that I'd better finish off the second LWA prototype to a point where I could leave it out in the paddock at Middleton for some wind tests. Being the start of spring, we generally get some good storms come through from the south-west. The wind velocity is generally sufficient (>25m/s) to bowl over some heavy garden benches and anything else that isn't tied down. I've placed the LWA down the hill where it should be open to anything generated from the Indian Ocean from south to west. The next door neighbour's shed should slow down or stop any projectiles, if it comes to that.
We can also now begin to do some electrical tests using the RF hardware we already have. That way, when the two receivers arrive there shouldn't be too many impediments to trying out the real thing.

Regards

Peter Gray

Fig. 3: Frontend-electronics (FEE) at ASSA in Australia.

Fig.4: FEE fitted to the dipoles at ASSA.

News from Malaysia

Fig. 5: The guy in white shirt is Amir (who is a undergraduate Final Year Project student) and the person in black shirt is Shazwan (who is a masters student majoring in solar radio astronomy). Shazwan is the main author of our article that was sent to Solar Physics recently (the title is: SOLAR RADIO BURSTS EMISSION STUDY BY INVESTIGATING THEIR MAGNETIC FIELD LINE RELATIONS).

CESRA NEWS

Fast CME caused by the eruption of a quiescent prominence
by V. Grechnev and I. Kuzmenko
http://www.astro.gla.ac.uk/users/eduard/cesra/?p=2584

First radio evidence of impulsive heating contribution to the quiet solar corona
by Surajit Mondal et al
http://www.astro.gla.ac.uk/users/eduard/cesra/?p=2611

Density and magnetic field turbulence in solar flares estimated from radio zebra observations
by M. Karlicky and L. Yasnov
http://www.astro.gla.ac.uk/users/eduard/cesra/?p=2621

Observations of fragmented energy release during solar flare emission
by R. Ramesh et al.*
http://www.astro.gla.ac.uk/users/eduard/cesra/?p=2650

Radio echo in the turbulent corona and
simulations of solar drift-pair radio bursts observed with LOFAR
by Kuznetsov et al
http://www.astro.gla.ac.uk/users/eduard/cesra/?p=2666

Polarisation and source structure of solar stationary type IV radio bursts
by C. Salas-Matamoros and L. Klein
http://www.astro.gla.ac.uk/users/eduard/cesra/?p=2677

Microwave Spectral Imaging of an Erupting Magnetic Flux Rope During a Large Solar Flare
by B. Chen et al.*
http://www.astro.gla.ac.uk/users/eduard/cesra/?p=2682

Papers:

Solar Radio Observation Using CALLISTO at the USO/PRL, Udaipur
https://ieeexplore.ieee.org/document/9118669
http://arxiv.org/abs/2007.01655

AOB

- IRSOL is meant as the new core-station of the e-Callisto network, once the instruments at ETH Zurich will be shut down due to retirement of the PI.
- KASI uploads now FIT files in real-time to the archive
- 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 University of Applied Sciences, Institute for Data Science FHNW in Brugg/Windisch, Switzerland. Additionally, data are available at ESA site here: SSA Space Weather Portal (http://swe.ssa.esa.int/).
- In case you (as the responsible person for operating and maintenance of Callisto) are leaving the institute or, if you are retiring, please send me name and email address of the successor.

Please do **NOT** respond to the email-address of the list-server, it is a computer/robot.
Respond instead directly to me at: cmonstein(at)swissonline.ch or monstein(at)irsol.ch

If you do not want to receive this newsletter, please send me an email and I will take your address out of the database. 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 database.

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