

# CALLISTO status report/newsletter #54

## 1st light from Callisto in Karachi, Pakistan:

Recently a new Callisto solar radio spectrometer has been set into operation at the Space Weather Monitoring Division, Geomagnetic Research Group of the Space and Upper Atmosphere Research Commission (SUPARCO) in Karachi, Pakistan. The instrument is hosted and operated by Muneeza Muhammad Ali. First observations have been conducted and data will soon arrive at the archive of the e-Callisto archive. The situation regarding rfi is quite good, no strong transmitters which produce cross-modulation in the receiver.

2nd light Callisto from SUPARCO Pakistan

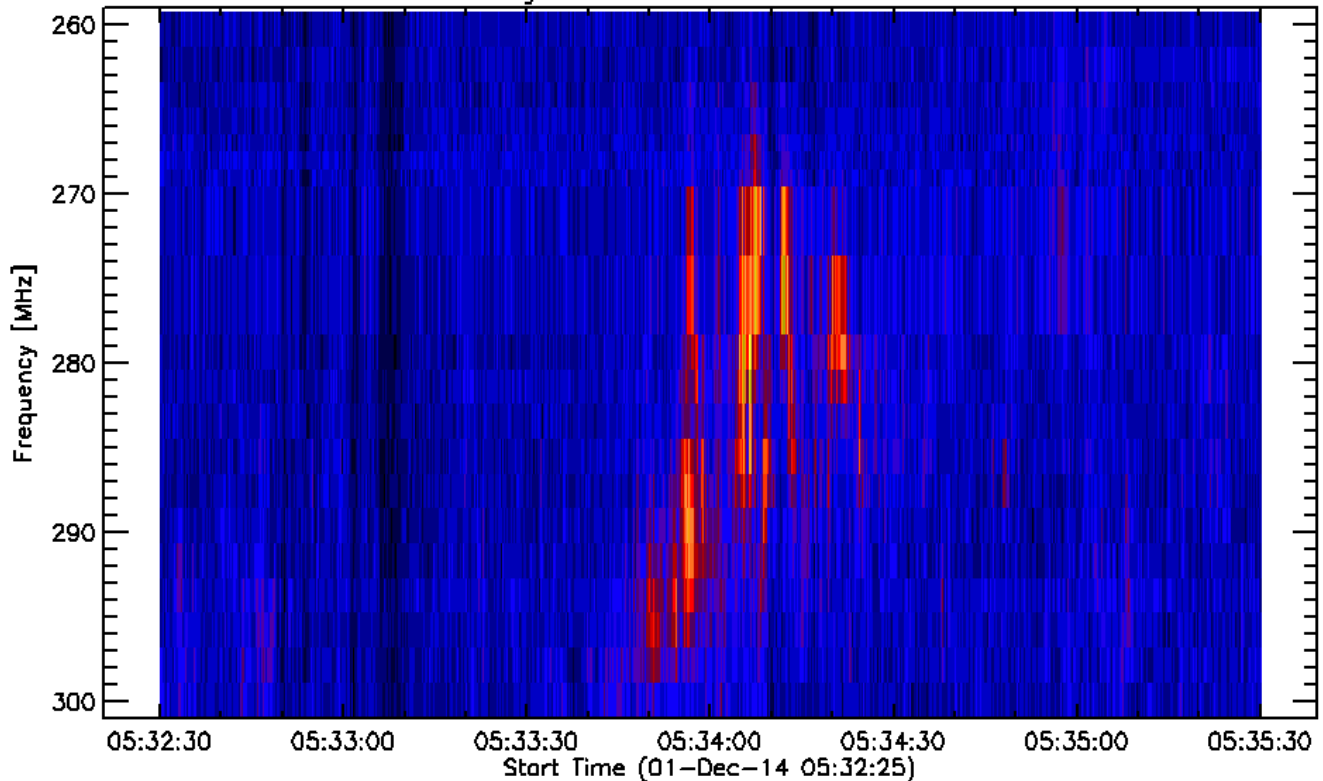


Fig. 1: 1st light Callisto Karachi, Pakistan with a vertical LPDA and Callisto. A typical noise storm or type I solar radio burst.

**Congratulations and welcome on board of the e-Callisto network**



Fig. 2: Backend of the Callisto instrument inside the observatory



Fig. 3: Assembling of the logarithmic periodic dipole array LPDA at SUPARCO in Pakistan.



Fig 4: Installation of the LPDA on the roof of the observatory. The focal plane unit containing low noise amplifier was produced by W. Reeve in Anchorage, Alaska/USA.



**United Nations / Japan Workshop on Space Weather  
“Science and Data Products from ISWI Instruments”  
Fukuoka, Japan, 2-6 March 2015**

Please note that the final dead line for registering for "2015 UN/Japan Workshop on Space Weather" is 07 December 2014 -- tomorrow.

This dead line is especially critical for those seeking travel support from the UN; it is less critical for those who are participating in this workshop with other sources of funding.

This workshop seeks to bring together the best and the brightest in the field of space weather to exchange notes and establish professional/personal ties.

Space weather research requires both ground-based and space-based observation. Effective ground-based observation requires observatories on land mass throughout the world -- therefore the participation of developing nations is essential for effective prosecution of this research. In this vein, the United Nations is organizing this workshop on space weather research and education. ICSWSE of Kyushu University is hosting it.

The UN is providing limited travel support for qualified applicants but for obvious reasons the priority goes to applicants from developing nations. If you know a qualified applicant but who has not yet registered, please pick up the phone and call her/him/them. The dead line is only hours away.

The registration site is this:

<http://www.oosa.unvienna.org/oosa/en/SAP/act2015/japan/index.html>

It is maintained by the United Nations Office for Outer Space Affairs (UNOOSA), based in Vienna, Austria.

Sincerely,  
George Maeda,  
on behalf of the LOC.

**Another light from Callisto in Ulaan Baatar, Mongolia:**

A second Callisto solar radio spectrometer has been set into operation in a Mongolian desert.



Fig. 5: Logarithmic periodic dipole array LPDA in front of an optical observatory in Mongolia.

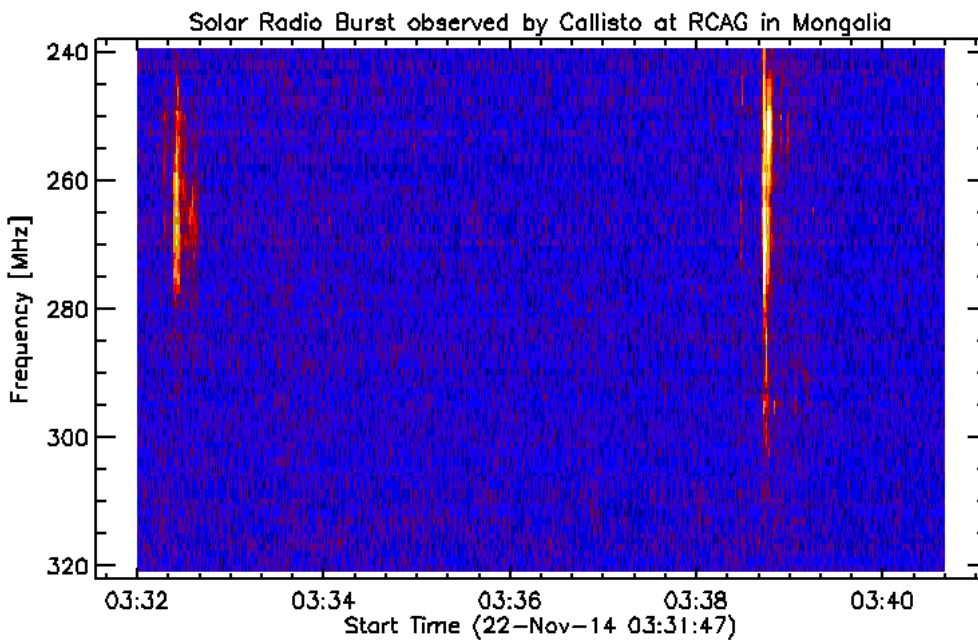


Fig. 6: Recent solar radio bursts reported by NOAA event 2600-2610 observed by Callisto in Mongolia.

**AOB:**

- Hardware to translate two linear polarizations into two circular polarizations (RHCP and LHCP) for the Long Wavelength Antenna (LWA) is available here: [http://www.reeve.com/RadioScience/Antennas/ActiveCrossed-Dipole/LWA\\_PowerCoupler.htm](http://www.reeve.com/RadioScience/Antennas/ActiveCrossed-Dipole/LWA_PowerCoupler.htm)
- 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/>
- Callisto software does operate also under Win 8.1
- 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.

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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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