CALLISTO status report/newsletter #98

New instrument at Erzurum, Turkey

Fig. 1: Logarithmic periodic dipole array (LPDA), suffering from winter-weather conditions. The current location of the antenna is on a mountain at an altitude of 3100 meters in Erzurum, far from the city center in turkey. Image: Dr. Onur Satir

Welcome Turkey on the e-Callisto network

Then, there is another new instrument in Kiel, Germany which is operated by Helge Wyrowski.

Welcome Kiel/Germany on the e-Callisto network

And a 3rd new station in Siuntio, Finland which is operated by Juha Kallunki.

Welcome Siuntio/Finland on the e-Callisto network

Recent events, worth to be mentioned

22.09.2023 XRT 1st light at NASA-GSFC
30.10.2023 Finally, upload of FIT-files from EgSA to FTP-server successful
02.11.2023 1st time 81 instruments active since 2006
05.11.2023 New station Germany-Kiel operated by Helge Wyrowski
14.11.2023 Turkey on-line 3100 m Erzurum.
08:12.2023 Ethiopia data upload back in operation, LNA not operational
14.12.2023 Bright type IV from Montevideo, Uruguay at 17:22-18:04
14.11.2023 Update rfi catalogue here: https://e-callisto.org/GeneralDocuments/BurstCatalog.pdf
28.12.2023 Python autoscheduler for LINUX systems available
05-09.02.2024 ISWI-steering committee meeting at UN in Vienna plus instrument exhibition

Announcement

In the following 2 weeks the main-server for Callisto-data at university of Applied Sciences at FHNW in Brugg/Windisch will be replaced by a new system. I'm currently testing the new one. You may expect that services in worst case will not be available for a few hours. But we do not expect any data loss. Once the new server is working properly, we will change all websites from http to https (secure).

e-Callisto burst statistics January 2024

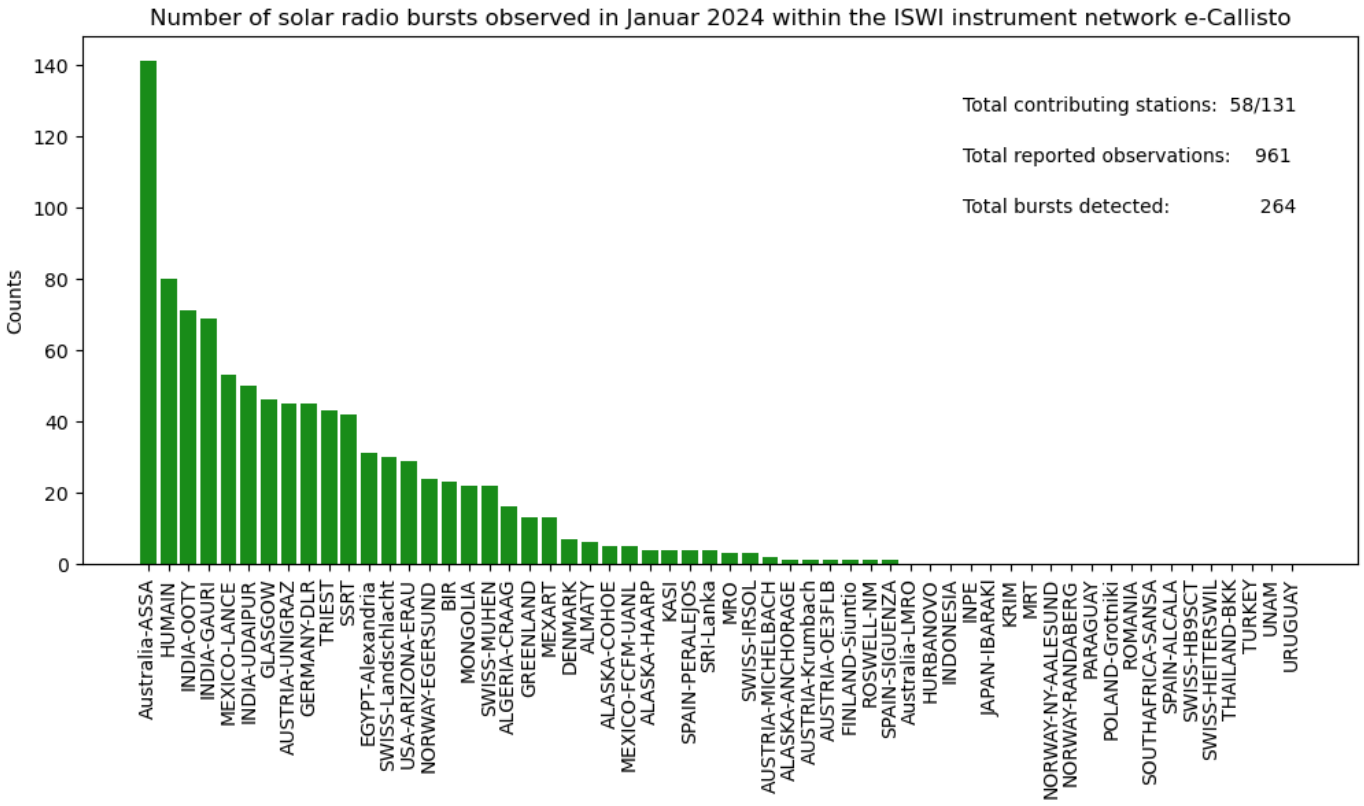

Fig. 7: Compilation of all visually detected bursts from all Callisto-stations which provide data to the e-Callisto network. There are clear ‘winners’ of the January-‘competition’, Australia-ASSA, HUMAIN and OOTY. Still eagerly looking for an AI-solution to automatically generate a burst-list and to save many hours day by day to perform this rather boring job, visual inspection of thousands of FIT-files.

Last 4 burst-plots are always available here: **https://e-callisto.org/Data/data.html**

CESRA NEWS

A New 6-15 GHz Solar Radio Observation System, by Lei Zhang et al.
https://www.astro.gla.ac.uk/users/eduard/cesra/?p=3653

Deciphering Faint Gyrosynchrotron Emission from a Coronal Mass Ejection Using Spectropolarimetric Radio Imaging by Devojyoti Kansabanik, Surajit Mondal and Divya Oberoi
https://www.astro.gla.ac.uk/users/eduard/cesra/?p=3666

Separating the effects of earthside and far side solar events by Silja Pohjolainen et al.
https://www.astro.gla.ac.uk/users/eduard/cesra/?p=3681

Anisotropic density turbulence variation from the low corona to 1 au as deduced from solar radio observations by E. Kontar et al.
https://www.astro.gla.ac.uk/users/eduard/cesra/?p=3691

The physics of solar spectral imaging observations in dm-cm wavelengths and space weather by Tan et al.
https://www.astro.gla.ac.uk/users/eduard/cesra/?p=3715

An Interactive Visual Tool for the Anisotropic Scattering of Solar Radio Bursts by Daniel L. Clarkson et al
https://www.astro.gla.ac.uk/users/eduard/cesra/?p=3723

Weak Solar Radio Bursts from the Solar Wind Acceleration Region Observed by the Parker Solar Probe and Its Probable Emission Mechanism by Ling Chen et al.
https://www.astro.gla.ac.uk/users/eduard/cesra/?p=3732

AOB

- If you have some stuff to present to the Callisto community, please let me know
- To avoid strange issues with Windows computers, disable disc caching. Otherwise configurations files might not be updated in Callisto with the latest information
- CALLISTO or Callisto denotes to the spectrometer itself while e-Callisto denotes to the worldwide network.
- General information and data access here: https://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: ESA Space Weather Portal (https://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.

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