



CALLISTO status report/newsletter #84

New station in Grotniki, Poland

On August 30, 2019 a new station has been installed and set into operation in [Grotniki](#), Poland. The antenna is a simple G5RV: 20-10m, covering frequency range from 5 MHz up to 53 MHz. To cope with native frequency range of Callisto (45 MHz - 870) a heterodyne up-converter has been switched in-between antenna and Callisto. Callisto application is a LINUX-version, running on 2nd hand LINUX-computer. Data transfer is not yet automatic due to missing internet-connection. Internet access will be provide later this year via glass fibre. For testing some files have already been uploaded with mobile phone hotspot.



Fig. 1: The antenna [G5RV](#) has been installed between two trees about 4m above ground in east-west direction.

Welcome
Poland on the
e-Callisto
network



New station in Landschlacht, Switzerland

Recently a new station has been installed and set up in [Landschlacht](#), north-east of Switzerland. Instrument has been moved from [Bleien](#) to Landschlacht because I'm getting retired and cannot take care about the instrument at Bleien any-more. In addition, interference level has been increased in Bleien which was another reason to move the instrument to Landschlacht to private properties.



Fig. 2: Preparation of a ditch for the tube carrying the coaxial cable for the [LWA](#). Thanks to Max for all the ground work required for electrical power and rf-cabling. Red tube is carrying two coaxial cables, one per linear polarization from the LWA. Coaxial cable are also used to supply the LWA with dc-power 15 volts.



Fig. 3: Long Wavelength Antenna (LWA) on private property in Landschlacht. Wooden shed in the background hosts 90° quadrature hybrids, power supplies, spectrometers, converters and computer.

Welcome Landschlacht on the e-Callisto network



Fig. 4: Example on how to install a frontend between antenna and Callisto. Here in this example at IRSOL in Switzerland antenna is directly connected to Callisto due to high level of local rfi. But there is enough space in the box to install a low noise amplifier in the future. Congratulations for this nice example to: Mari Gianpaolo, collaboratore tecnico, [IRSOL](http://www.irsol.ch), [gpmari\(at\)irsol.ch](mailto:gpmari@irsol.ch), Istituto Ricerche Solari, Via Patocchi 57, 6605 Locarno Monti. See also the nice cable flanges at the bottom and a similar one at the top. Many thanks, Gianpaolo!



CESRA NEWS

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by J. Huang et al.*

<http://cesra.net/?p=2291>

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PAPERS

Automated Detection of Solar Radio Bursts Using a Statistical Method

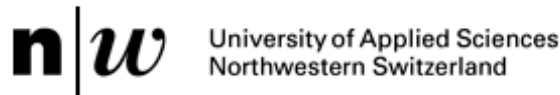
Dayal Singh, K. Sasikumar Raja, Prasad Subramanian, R. Ramesh, Christian Monstein

Solar Phys (2019) 294:112

<https://doi.org/10.1007/s11207-019-1500-0>

[https://link.springer.com/epdf/10.1007/s11207-019-1500-0?author_access_token=PHM4V3f3YwI7O75SWnfAeve4RwlQNchNByi7wbcMAY6gQINqJkyfpX74d2P43gBb2hlY318P2WplFf13O6X2GZgk6PgoaqS-](https://link.springer.com/epdf/10.1007/s11207-019-1500-0?author_access_token=PHM4V3f3YwI7O75SWnfAeve4RwlQNchNByi7wbcMAY6gQINqJkyfpX74d2P43gBb2hlY318P2WplFf13O6X2GZgk6PgoaqS-hxzCWYTw8CnWWkNzjv1W2GmkEKXhYc2xMIL_uXFuVklUuzDfPIkLbw%3D%3D)

[hxzCWYTw8CnWWkNzjv1W2GmkEKXhYc2xMIL_uXFuVklUuzDfPIkLbw%3D%3D](https://link.springer.com/epdf/10.1007/s11207-019-1500-0?author_access_token=PHM4V3f3YwI7O75SWnfAeve4RwlQNchNByi7wbcMAY6gQINqJkyfpX74d2P43gBb2hlY318P2WplFf13O6X2GZgk6PgoaqS-hxzCWYTw8CnWWkNzjv1W2GmkEKXhYc2xMIL_uXFuVklUuzDfPIkLbw%3D%3D)



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.
- 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.



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Christian Monstein
Istituto Ricerche Solari Locarno (IRSOL)
Via Patocchi 57
6605 Locarno Monti
Switzerland
email: [monstein\(at\)irsol.ch](mailto:monstein(at)irsol.ch)