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## CALLISTO status report #27

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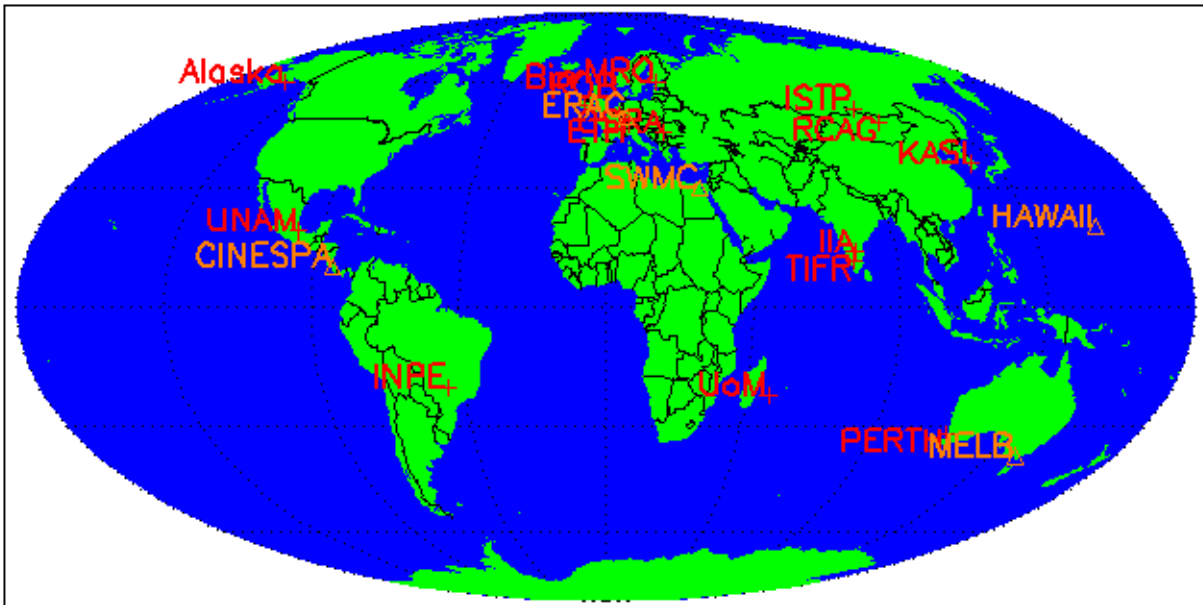
**From:**

Christian Monstein	ETH Zürich Switzerland	monstein@astro.phys.ethz.ch
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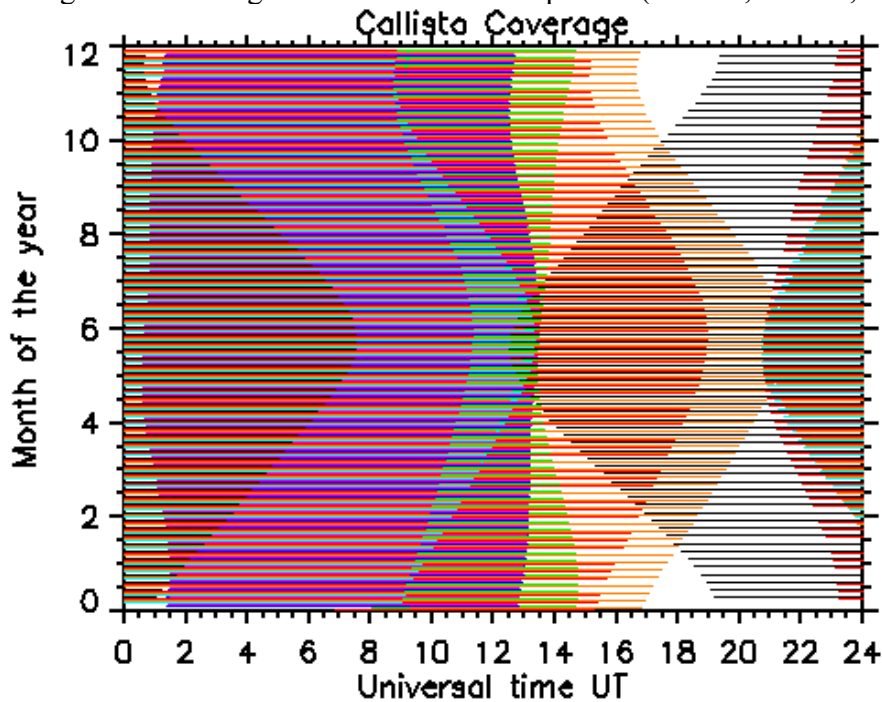
Remark: replace Ω with @ in the email addresses above.

If you do not want to receive this status-report just send me an email that I can take out your email of my list.  
 On the other hand, if you know of someone who might be interested just send me the email of that person.

Current distribution of spectrometers in the e-Callisto network:

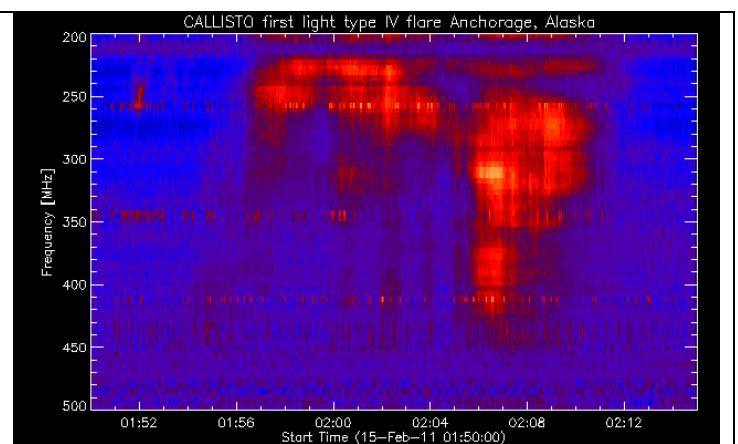


Coverage in Pacific region still needs to be improved (Canada, Hawaii, New Zealand, Peru, Ecuador, etc.)



Location	Instruments	Present status
Bleien, Switzerland	4	Operational
Freienbach, Switzerland	1	Operational
Ooty, India	2	Operational
Gauribidanur, India	1	Operational
Badary, Russian Federation	1	Operational
Daejeon, South Korea	2	Operational
Humain, Belgium	2	Operational
Poste de Flacq, Mauritius	3	Operational
Ulaan Baatar, Mongolia	1	Operational
Birr castle, Ireland	2	Operational
Perth, Australia	1	Operational
Ondrejov, Czech Republic	1	Operational
Anchorage, Alaska	2	Operational
Metsähovi, Finland	1	Operational
Hawaii	1	Lost contact, no data
Mannheim, Germany	1	Lost contact, no data
Melbourne, Australia	1	Lost contact, no data
Cachoeira Paulista, Brazil	2	Lost contact, no data
Costa Rica	1	Lost contact, no data
Mexico	1	Lost contact, no data
Cairo, Egypt	1	Not yet in operation, no data
Selangor, Malaysia	1	Not yet in operation, no data
<b>Total locations:</b>	<b>22</b>	
<b>Total instruments:</b>	<b>33</b>	
<b>Percentage of active locations:</b>	<b>63%</b>	

### Anchorage Alaska welcome on board of the e-Callisto network



Left: Logarithmic-periodic antenna mounted on top of the roof. Picture: Whitham D. Reeve, Anchorage.  
 Right: 1<sup>st</sup> light of Anchorage system, part of a long lasting type IV flare.

**Planned new installations for a Callisto**

Almaty Kazakhstan end of May 2011

Malaysia mid of July 2011

**New instrument in negotiation phase**

Kenya, Peru, Ecuador, India, Turkey, Slovakia, Scotland, Russia

Probably not all requests can be satisfied. Priority has the scientific aspect to have all longitudes on board to cover 24h of observation including some redundancy with respect to time of observation, frequency of observation and interference level. And, a minimum of funding is needed to procure an antenna, a low noise preamplifier, a PC, some cables, adapters etc.

**Callisto blog with some nice pictures here:**

<http://www.e-callisto.blogspot.com/>

**Access to Callisto documentation and data here:**

<http://soleil.i4ds.ch/solarradio/>

**Article about Callisto at ETH Zürich (German language)**

[http://www.ethlife.ethz.ch/archive\\_articles/100809\\_Messgeraete\\_cho](http://www.ethlife.ethz.ch/archive_articles/100809_Messgeraete_cho)

**Article in CRAF newsletter No. 21 2010 (pages 4-6), Radio-spectrometer network e-Callisto:**

[http://www.astro.phys.ethz.ch/astro1/Users/cmonstei/papers/CRAF\\_21\\_8p.A4\\_12August.pdf](http://www.astro.phys.ethz.ch/astro1/Users/cmonstei/papers/CRAF_21_8p.A4_12August.pdf)

**Article in Nature News: Global Solar Observatory Flares Into Life (N. Nosengo):**

<http://www.nature.com/news/2011/110217/full/news.2011.97.html>

**New software version V1.13a available here:**

[http://www.exp-astro.phys.ethz.ch/astro1/Users/cmonstei/instrument/callisto/ecallisto/callisto\\_V113a.zip](http://www.exp-astro.phys.ethz.ch/astro1/Users/cmonstei/instrument/callisto/ecallisto/callisto_V113a.zip)

This new version 1.13a is available as a preliminary version. It is designed such that it can cope with standard Callisto (8 bit and tuner CD1316LS/IV) as well as with the HAM-version (10 bit tuner CD1316LS/IHP-3 and CD1316LS/LV-3 and CD1316LK/GIH). It automatically detects the Callisto type and switches all parameter accordingly. After 10 years of operation, many badly coded lines in the application software have been detected and improved.

**Linux:**

[http://www.metsahovi.fi/callisto/e-Callisto\\_for\\_Unix/](http://www.metsahovi.fi/callisto/e-Callisto_for_Unix/)

Open source Linux version of Callisto application has been supplied by Metsähovi observatory, Finland. Due to lack of manpower, no support by ETH.

**Hints & Tricks:**

A very good idea came from Whitham D. Reeve Anchorage. He found a convenient tool (free of charge for private users) to automatically upload FIT-files to our exchange FTP-server. This tool is much easier to handle than any individual PERL-script. Tool available here:

<http://toolsandmore.de/Central/Produkte/Software/Internet/Webmaster/FTP-Watchdog/>

For username and password please ask me via email, I do not want to publish them here.

**Kits for students and hobbyists:**

The German publisher FUNKAMATEUR in Berlin is sold out, no more components or PCBs available.

Beginning of April a new series of 10 instruments Callisto will be produced by apprentices of the Physics Department of ETH. It will be a new version due to change in tuner type. The previous tuner CD1316LS/IV is no more available on the market. Now a new type CD1316LS/IV-3 will be used instead.

**Links to web-presentations of Callisto data:**

1. Humain, Belgium: <http://sidc.be/humain/survey.php>
2. Metsähovi, Finland: <http://www.metsahovi.fi/callisto-gallery>
3. Birr, Ireland: <http://www.rosseobservatory.ie/>

If you know about other Callisto related web-presentations, please let me know.

**My own business:**

I still have 3 up-converters on stock for 280.00€ including low noise pre-amplifier, power supply and shipping cost.

- Input frequency range: 20 – 90 MHz (band pass filtered)
- Output frequency range 220 – 290 MHz (fits into the input range of Callisto)

Two more could be manufactured if there is enough interest from the observer side.