

**CALLISTO status report #23****To:**

Arnold O. Benz	ETHZ, Switzerland	benz@astro.phys.ethz.ch
P. K. Manoharan D. Nandagopal R. Venkatasubramani A. J. Selvanayagam	NCRA Ooty, India	mano@wm.ncra.tifr.res.in dng@mailhost.tifr.res.in rvs@mailhost.tifr.res.in selvan@mailhost.tifr.res.in
R. Ramesh V. C. Kathiravan	IIA Gauribidanur, Bangalore, India	ramesh@iiap.res.in kathir@iiap.res.in
Alexander Altyntsev Sergey Lesovoi Andrey Maslov	SSRT Badary/Irkutsk Russian Federation	altyntsev@iszf.irk.ru lesovoi@iszf.irk.ru mac88@yandex.ru
Jorge Paez Marco Barrantes	CINESPA, Costa Rica	jorge.paez@cinespa.ucr.ac.cr marco.barrantes@cinespa.ucr.ac.cr
Alejandro Lara Gaudencio Paz Martinez	UNAM, Mexico	alara@geofisica.unam.mx gaupaz@yahoo.es
Kyungsuk Cho SuChang Bong	KASI, Daejeon, South Korea	kscho@kasi.re.kr scbong@kasi.re.kr
Frédéric Clette Christophe Marqué	ROB, Bruxelles Belgium	frederic.clette@oma.be cmarque@oma.be
Hanumant Sawant Joaquim E. R. Costa	INPE, Sao José dos Campos, Brazil	sawant@das.inpe.br jercosta@gmail.com
Ericson Lopez	Ecuador	ericsonl@gmail.com
Girish Kumar Beeharry Rajasekhara Gauribidanur	MRT Bras d'Eau, Poste de Flacq, Mauritius	gkb@uom.ac.mu rajagbd@gmail.com
Usnikh Sukhbaatar S. Demberel D. Batmunkh	RCAG in Khurel Togoot near Ulaanbaatar, Mongolia	sukhbaatar_u@yahoo.com demberel@rcag.ac.mn batmunkh@rcag.ac.mn
P. Gallagher Pietro Zucca	TCD, Ireland	peter.gallagher@tcd.ie pietrozucca83@gmail.com
G. Hallinan	NUIG, Ireland	gregg@it.nuigalway.ie
P. Wright	ERAC, Germany	Erachq@aol.com
Mihai Dumitru EDRO	Melbourne, Australia	cmdumitru@ausec.net
Hans Michlmayr VK6ZT	Perth, Australia	hmichlmayr@bigpond.com
Jim Sky KH6SKY	Ocean View, Hawaii	radiosky@radiosky.com
Karel Jiricka	OSRA, Czech Republic	jiricka@asu.cas.cz

**Cc:**

Andreas James	ETHZ	james@phys.ethz.ch
Peter Messmer	TXCORP, USA	messmer@txcorp.com
N. Gopalswamy	NASA/GSFC, USA	Nat.Gopalswamy@nasa.gov
David Webb	Editor IHY newsletter	david.webb@hanscom.af.mil
J. M. Davila	NASA/ISWI, USA	joseph.m.davila@nasa.gov
B. Thompson	NASA/GSFC, USA	Barbara.J.Thompson@nasa.gov
H. Haubold	UN Office, Vienna	hans.haubold@unvienna.org

**From:**

Christian Monstein	ETHZ	monstein@astro.phys.ethz.ch
--------------------	------	-----------------------------

Remark: replace Ω with @ in the email addresses above.

Actual status

A new Callisto spectrometer was recently handed over and set into operation at OSRA, Czech Republic. Welcome OSRA to our e-Callisto network!

This “Würzburg Riese”, a former radar dish from World War II is now used for solar observations below 1 GHz and is attached to a Callisto spectrometer. An rfi-monitoring report initiated by CRAF is in preparation

Ecuador, Morocco, Canada, Turkey, Egypt, Cuba, Malaysia, Nigeria, Italy and others are still in planning phase. We hope that one or the other of these locations can be set into operation until autumn 2010.

**New features have been included in the Callisto application software V1.09:**

1. All plots (yt, xy, xyt) can also be closed by pressing their opening buttons again
2. Up to 5 real-time light curves can now be stored as ASCII file to produce on-line plots
3. All time axis in xy and xyz plot now show sec instead of sweep-number
4. Automatic load of another frequency program is now possible in scheduler-file
5. Radio-button to switch from digits in dB in xy-plot to ‘quasi’ calibrate xy-display
6. If Callisto detects data loss you will get an error message and the system stops

**New applications and documents:**

1. Frequency generator has got several updates. <http://www.exp-astro.phys.ethz.ch/astro1/Users/cmonstei/instrument/callisto/ecallisto/Fgeni.zip>
2. A new NCR (non conformance report) has been published here: <http://www.exp-astro.phys.ethz.ch/astro1/Users/cmonstei/instrument/callisto/ecallisto/ncr/NCR20100223.pdf>
3. An engineering change request has been published here: [http://www.exp-astro.phys.ethz.ch/astro1/Users/cmonstei/instrument/callisto/ecallisto/ncr/ECR\\_2010-01-01.pdf](http://www.exp-astro.phys.ethz.ch/astro1/Users/cmonstei/instrument/callisto/ecallisto/ncr/ECR_2010-01-01.pdf)
4. I've started a blog here: <http://www.e-callisto.blogspot.com/>

**IMPROTANT NOTE:**

**Due to retirement of my boss Prof. A. Benz, the solar radio astronomy group does not exist anymore. And there is no successor in view. With my very limited resources I'll try to keep data archive, burst list and support for software, hardware and data running as long as possible. As a consequence all web sites have already been moved to another server. Please update your bookmarks accordingly.**

General information about Callisto now here:

<http://www.exp-astro.phys.ethz.ch/astro1/Users/cmonstei/instrument/callisto/index.php>

Technical details about Callisto now here:

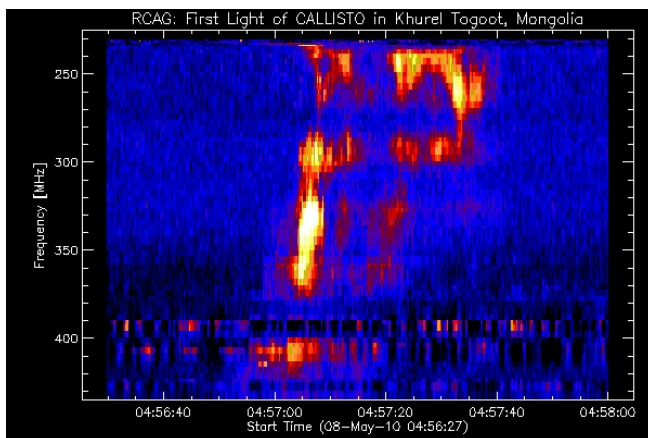
<http://www.exp-astro.phys.ethz.ch/astro1/Users/cmonstei/instrument/callisto/ecallisto/applidocs.htm>

Direct access to the data archive now here:

[http://www.astro1obs.phys.ethz.ch/cgi-bin/showdir?dir=Argos\\_Callisto\\_Phoenix\\_Archive&file=dir.html](http://www.astro1obs.phys.ethz.ch/cgi-bin/showdir?dir=Argos_Callisto_Phoenix_Archive&file=dir.html)

Direct access to the Callisto burst list now here:

<http://www.exp-astro.phys.ethz.ch/astro1/Users/cmonstei/instrument/callisto/Appdocs/FlaresCallistoNetwork.htm>

**1<sup>st</sup> light of Callisto in Mongolia.**

On March 8<sup>th</sup> 2010 we got 1<sup>st</sup> light from Mongolia (Khurel Togoot near Ulaan Baatar), congratulations! We see some type III burst combined with a U-burst. With this event we now have 8 locations which are operating and delivering data to the network.

Other 8 stations worldwide have got a Callisto but unfortunately can not produce useful data for several reasons. It's getting interesting now because the sun is getting more and more active.