



Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

CALLISTO status report/news letter #41

New Callisto set into operation in Roztoky, East-Slovakia:

In week 18 a new Callisto spectrometer has been set into operation at the observatory of Roztoky (Hvezdáreň Roztoky) in the eastern part of Slovakia, close to Ukraine and Poland.

Longitude: 21° 29' 31" East

Latitude: 49° 23' 48" North

Roztoky is a very remote area, nevertheless FM- and TV-transmitters on nearby mountains produce a lot of rfi in the spectrum which is intended to observe solar radio bursts.

Responsible person: Daniel Baludansky bdaniel@post.sk

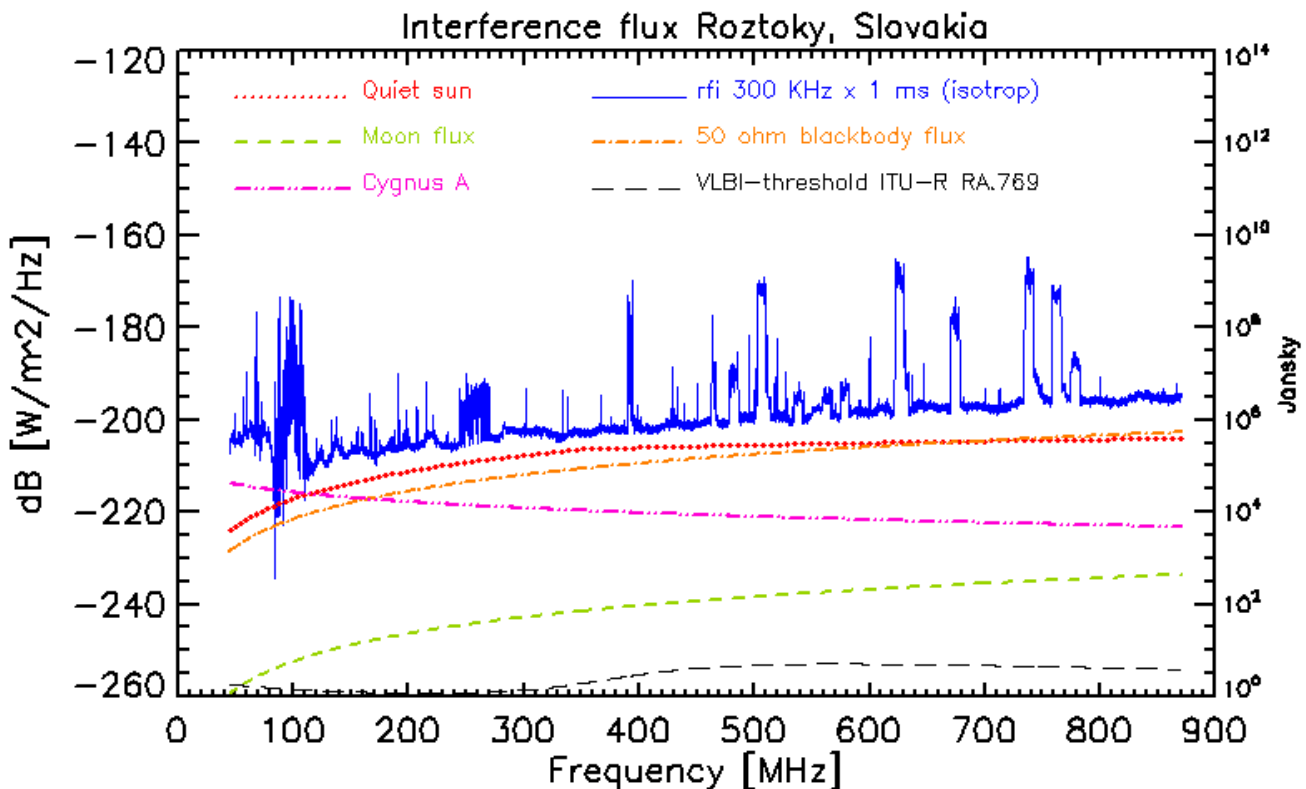


Fig. 1: Low frequency spectrum taken with CLP-5130 log-per antenna, a low noise preamplifier from Mini Circuits and Callisto eC66. Negative peaks below 100 MHz denote to saturated channels due to strong FM-transmitters. For comparison a few astronomical radio sources are shown. With an additional antenna gain of about 10 dB it would be possible to observe quiet sun.



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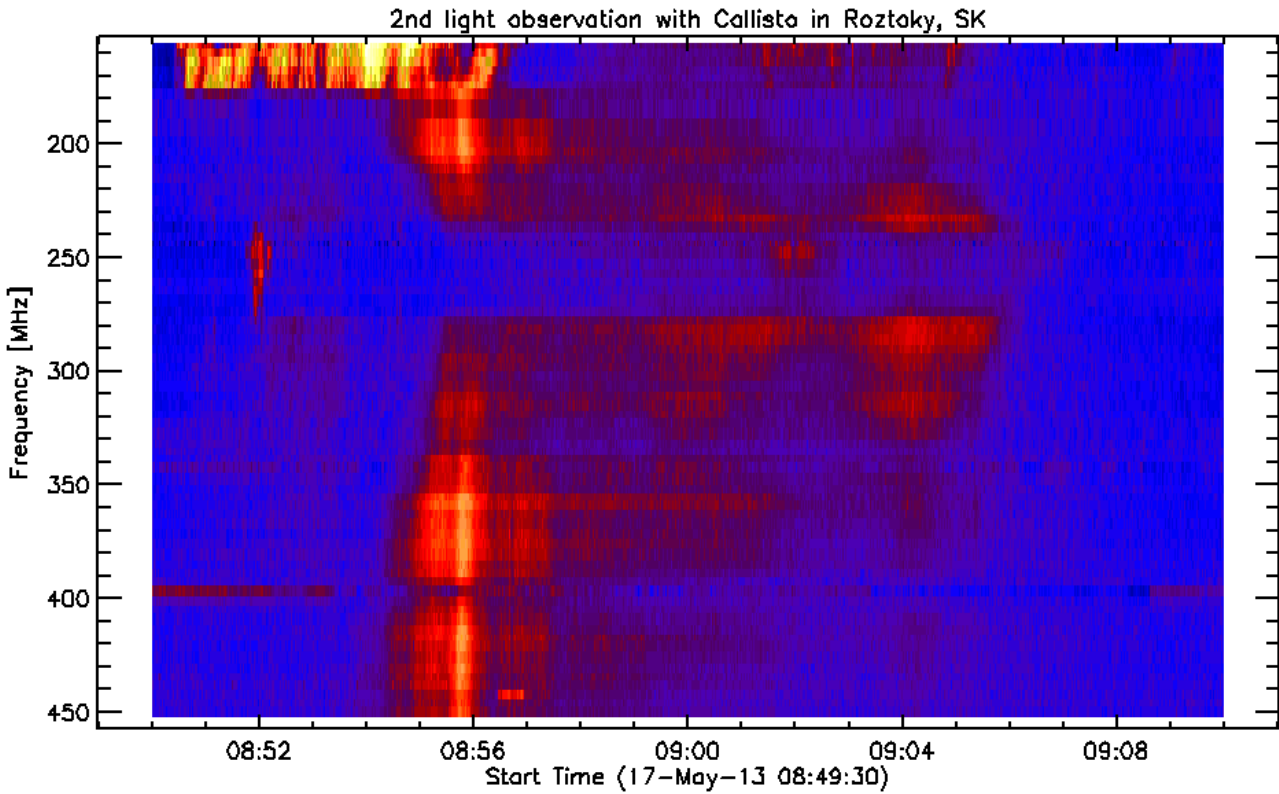
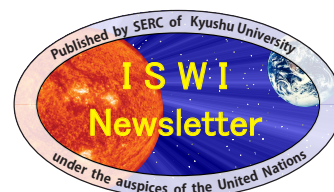


Fig. 2.: Second light of Callisto in Roztoky, showing a type IV burst and the corner part of a type II.

Corresponding NOAA event-list:

5490	0843	0857	0919	G15	5	XRA	1-8A	M3.2	4.4E-02	1748
5490 +	0847	0853	0913	SVI	G	RBR	4995	800		1748
5490 +	0848	0857	0912	SVI	G	RBR	2695	450		1748
5490 +	0848	0848	0848	SVI	G	RBR	410	100		1748
5490 +	0848	0853	0912	SVI	G	RBR	8800	620		1748
5490 +	0850	////	1120	SVI	C	RSP	025-180	IV/2		1748
5490 +	0850	////	0918	SVI	U	RSP	025-180	II/2	376	1748
5490 +	0850	0855	0912	SVI	G	RBR	15400	410		1748
5490 +	0850	0858	0912	SVI	G	RBR	1415	190		1748
5490 +	0851	0852	0907	SVI	G	RBR	245	1500		1748
5490	0853	0855	0857	LEA	G	RBR	610	210		1748
5490 +	B0854	U0854	1056	SVI	3	FLA	N12E57	2B	PRB	1748
5490	B0912	////	A1319	SOH	4	CME	XUV, EUV, UV061-060/FS1436			1748

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Ethiopia:

The special designed logarithmic periodic antenna from Pune university has recently been delivered to Ethiopia with support of NASA. The instrument will be set up in fall 2013.

Spain:

The test setup at university of Alcalá (EA4RKU) has finally been moved to Peralejos de las Truchas, a very remote area with very good condition regarding rfi. The filenames of the FIT-files start with 'Melibea_'.
Press releases:

Press releases:

<http://www.guadalab.es/noticias/el-primer-radiotelescopio-solar-de-la-red-internacional-e-callisto-en-espana-se-instalara-e>

http://www2.uah.es/diariodigital/index.php?option=com_content&task=view&id=6833&Itemid=32

<http://www.apte.org/es/noticia-innovacion228.cfm>

<http://www.europapress.es/castilla-lamancha/noticia-primer-radiotelescopio-solar-red-internacional-callisto-espana-instalara-provincia-guadalajara-20130305145540.html>

<http://www.abc.es/agencias/noticia.asp?noticia=1366584>

<http://www.infoespacial.com/?noticia=prime-radiotelescopio-solar-de-la-red-e-callisto-en-espana>

Short: <http://www.tvguadalajaradigital.es/2013/03/la-red-internacional-e-callisto-instala-un-radiotelescopio-en-guadalajara/>

Long: <http://www.tvguadalajaradigital.es/2013/03/e-callisto-nos-permitira-alertar-de-tormentas-solares-desde-peralejos/>

http://www.canal19.tv/web/newsDetails.php?id_section=105&id=6791

<http://www.eldigitalcastillalamancha.es/el-primero-de-una-red-internacional-se-instalara-en-castillala-mancha-127741.htm>

[http://encastillalamancha.es/noticia/20858/Peralejos+de+las+Truchas+\(Guadalajara\)+tendr%C3%A1+un+Radio+Telescopio+Solar+internacional](http://encastillalamancha.es/noticia/20858/Peralejos+de+las+Truchas+(Guadalajara)+tendr%C3%A1+un+Radio+Telescopio+Solar+internacional)

http://www.laverdad.es/agencias/20130305/castilla-mancha/peralejos-truchas-tendra-radio-telescopio_201303051619.html

<http://www.lacronica.net/esto-no-es-una-antena-de-television-sino-un-aparato-pionero-49431.htm>

<http://www.guadague.com/noticias/provincia/33398-el-primer-radiotelescopio-solar-ecallisto-se-instalara-en-peralejos-de-las-truchas.html>

<http://www.dhenares.es/municipios/sociedad/item/3498-peralejo-de-las-truchas-contar%C3%A1-con-el-primer-aparato-de-la-red-e-callisto-para-vigilar-al-sol>

<http://www.20minutos.es/noticia/1749391/0/>

<http://www.elheraldodelhenares.es/pag/noticia.php?cual=16580>

<http://www.latribunadetoledo.es/noticia/Z556A9BA5-F9BD-1531-2362997E01E8D992/20130306/primer/telescopio/solar/ecallisto/espa%C3%B1a/instalara/guadalajara>



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Fig 3: Log-per antenna on top of the roof with tracking system. Photo by Andrés Russu

General information and data access here: <http://e-callisto.org/>

AOB:

CALLISTO or Callisto denotes to the spectrometer itself while e-Callisto denotes to the worldwide network.

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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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