

**CALLISTO status report #29****To:**

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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.

**New location TSAO Almaty, Kazakhstan operational:**

The main Institute of Ionosphere is located on a natural hill above Almaty, while the Tian Shan observatory, see fig. 1 is in a very remote area in Tian Shan mountains about 30 km south of Almaty. Nowadays the measurements of the solar radio flux at frequencies of 1.078 GHz and 2.8 GHz (10.7 cm) are carried out on the regular basis. The observatory is equipped with optical telescopes and an optical interferometer SATI for recording the emission of night sky in the region of the mesopause. Coordinates of the observatory are 43° 03' North, 76° 58' East, Height is 2740 m above sea level; Local Time is GMT + 05h.



Fig. 1: Home made log-per attached to the lower rim of the 12m-dish. After the log-per antenna there is a low noise preamplifier KUHNE 0515B installed. Callisto, control – PC and power supplies are located in the observatory underneath the antenna.

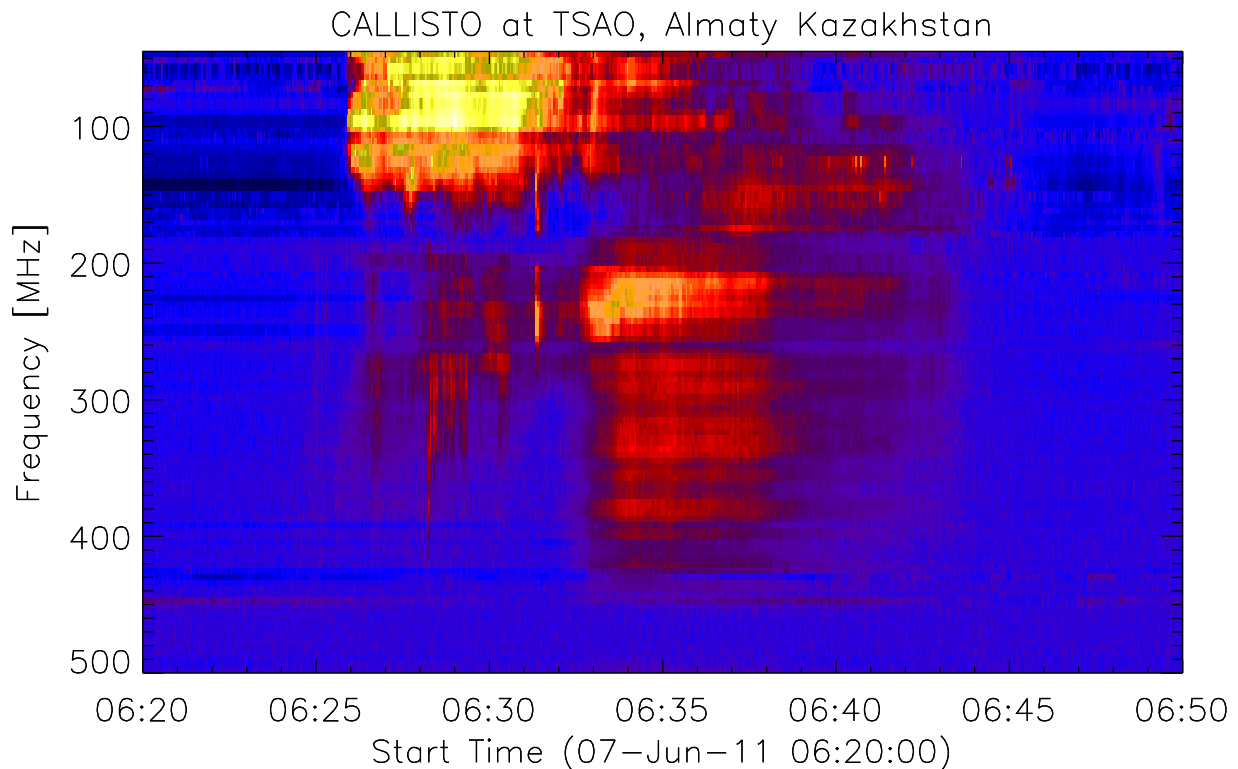


Fig. 2: One of the ‘first lights’ at TSAO, a complex flare (II, II, IV, decimetric pulsations) on June 7<sup>th</sup> 2011. The flare was connected to a CME. TSAO is very good in terms of very low rfi; there is almost no interference in the observed spectrum. The above spectrum was not edited, only an average background was subtracted.

### **Documentation:**

The operating manual has been updated recently; descriptions of additional tools were added.

Link: <http://www.exp-astro.phys.ethz.ch/astro1/Users/cmonstei/instrument/callisto/ecallisto/eCallistoManual.pdf>

### **Announcements**

There will be a Callisto-related workshop at ANGASKA in Malaysia from 15.08.2011 till 19.08.2011  
Contact person: Zety Sharizat Hamidi, zsharizat(at)yahoo.co.uk

And another, but similar workshop is planned in Pune/India from 23.11.2011 till 25.11.2011  
Contact person: Subramaniam Ananthakrishnan, subra.anan(at)gmail.com

A new series of 10 Callisto based on CD1316LS/IV-3 + CD1316L/IHP-3 + CD1316LK/GIH is in production now.