ETHZ Zürich, 8/22/2009

CALLISTO status report #21

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

Actual status

The sun is still absolutely quit, no activity at radio wavelength. Nevertheless a new Callisto spectrometer was recently handed over and set into operation at Trinity College in Dublin, Ireland. This, as a precursor for a planned LOFAR-station in Ireland. Welcome Ireland to our Callisto network!

Brazil, Ecuador and Australia are still in planning phase. We expect that these locations can be set into operation until autumn 2009.

General information about Callisto:
http://www.astro.phys.ethz.ch/instrument/callisto/callisto_nf.html

Software and related products about Callisto:
http://www.astro.phys.ethz.ch/instrument/callisto/ecallisto/applidocs.htm

Direct access to the data archive:
http://www.astro.phys.ethz.ch/cgi-bin/showdir?dir=Observation_callisto&file=dir.html

Web-access to data achive using DiRaC:
http://pandora.ethz.ch:8080/frontend/

I recently started trying to classify the radio events which have been collected all over the world between January 2006 and July 2009. In total you collected 178 different flares. The 'winner' with 56 flares is Gauribidanur of IIA Bangalore in India.
Below 8 examples of some nice flares which were captured during the last three years by the Callisto network. They are sorted in alphabetical order of the location names.
All plots were produced by SSWIDL, see here
http://www.astro.phys.ethz.ch/instrument/callisto/ecallisto/phoenix_howto.html

We wanted to encourage you and your PhD students to study the flares and, may be to produce scientific results. Up to now only very few papers have been published with references to Callisto.

If you should publish a paper with reference to Callisto, please let us know and send us an electronic copy.

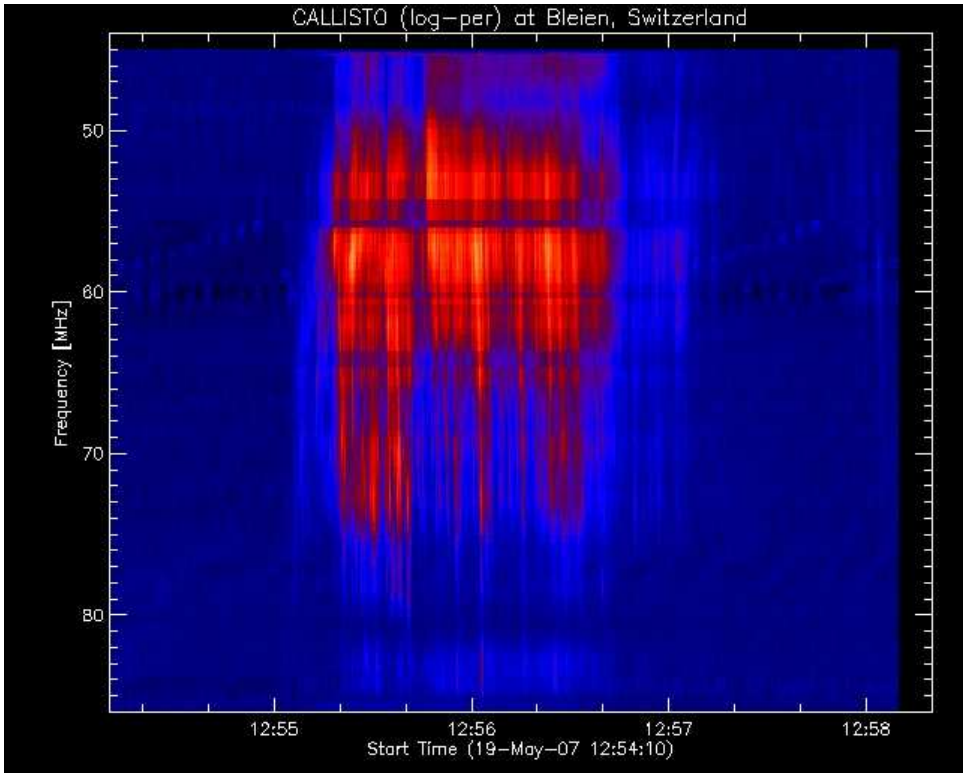

Fig. 1: Group of type III flares, some are reverse drifting

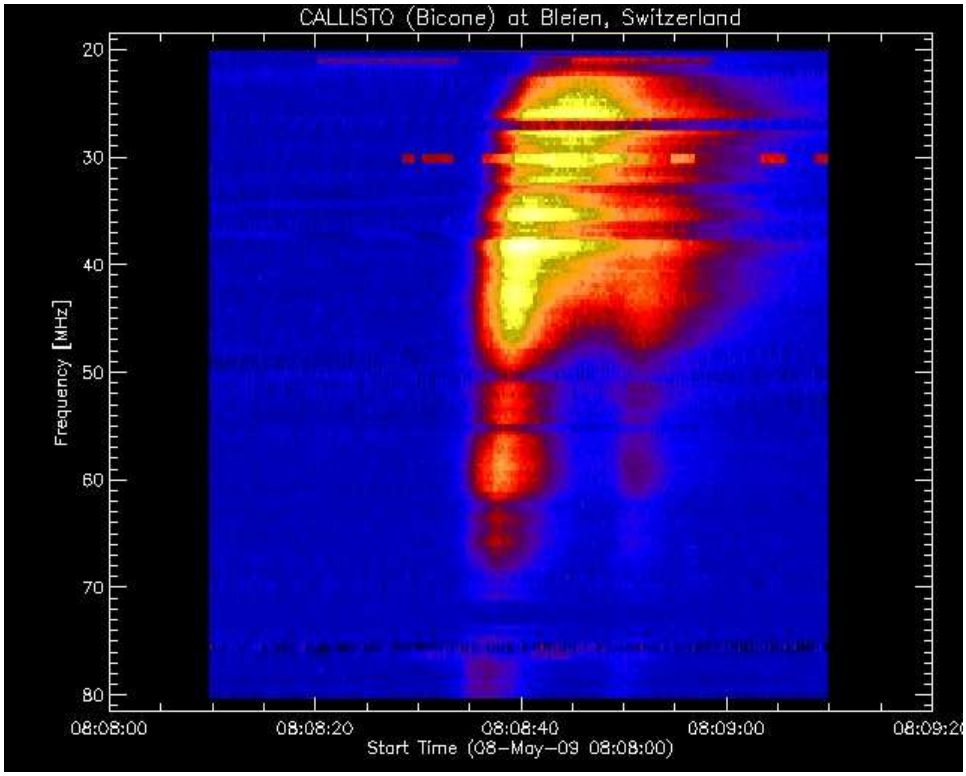

Fig. 2: Group of low frequency type III flares

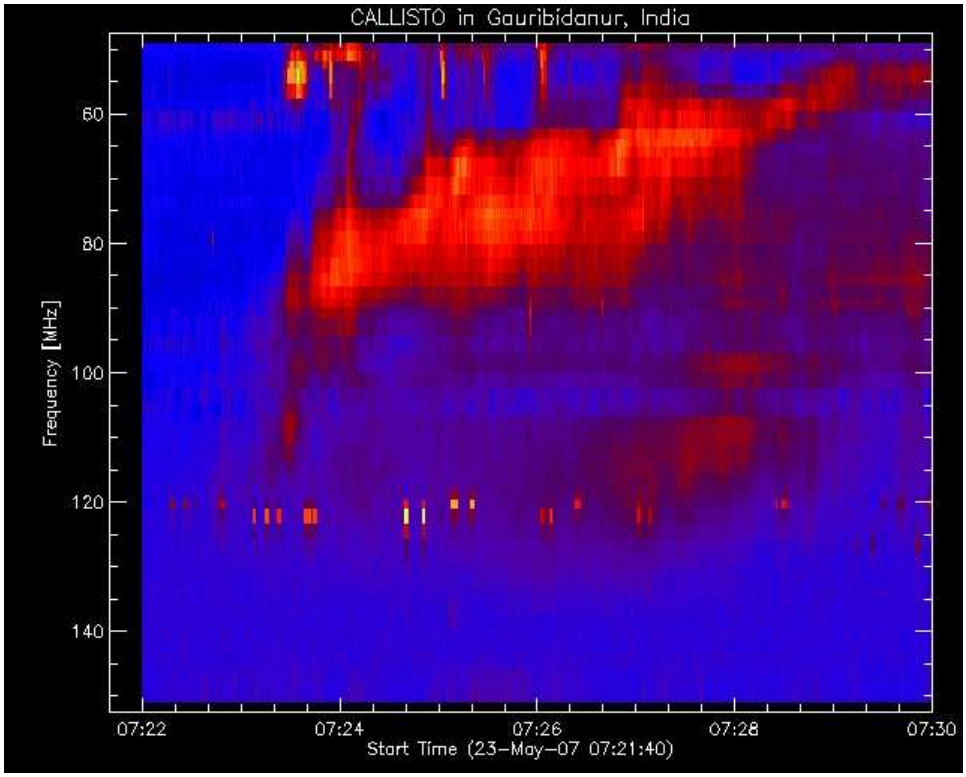

Fig. 3: Very nice type II hering-bone flare with harmonics

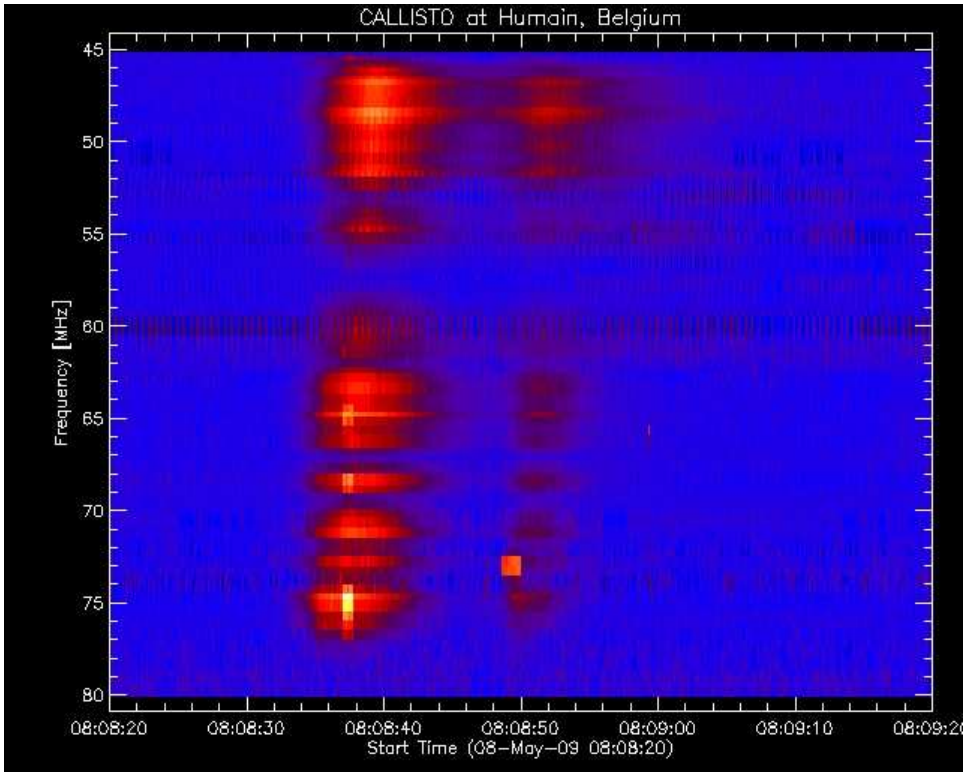

Fig. 4: Group of type III bursts

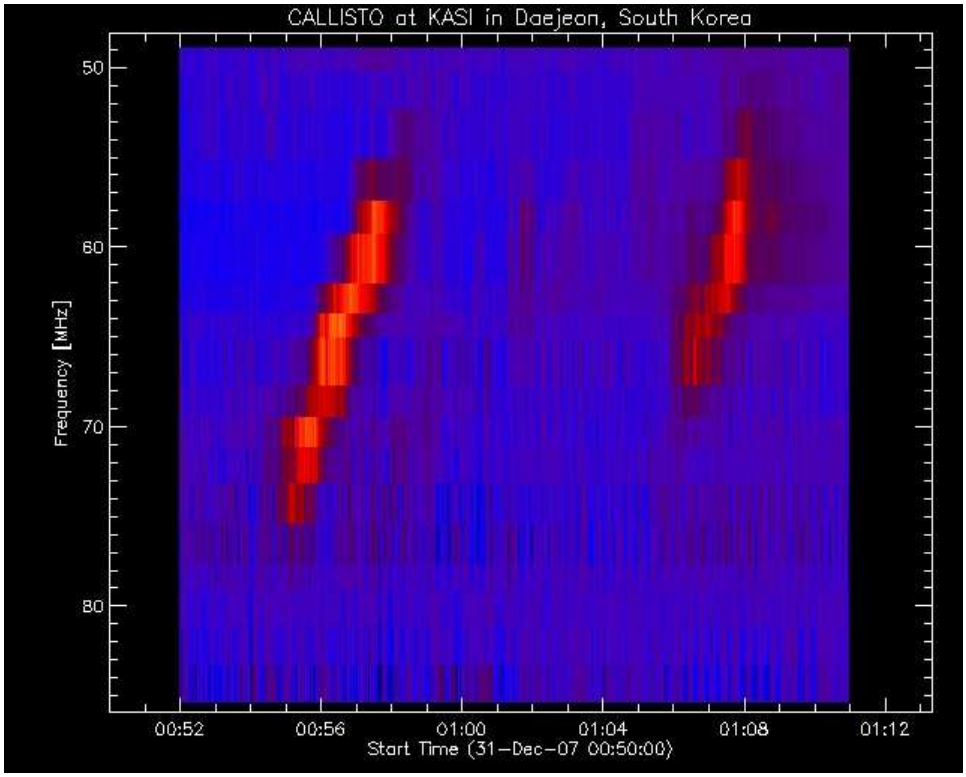

Fig. 5: Two type II flares during a CME

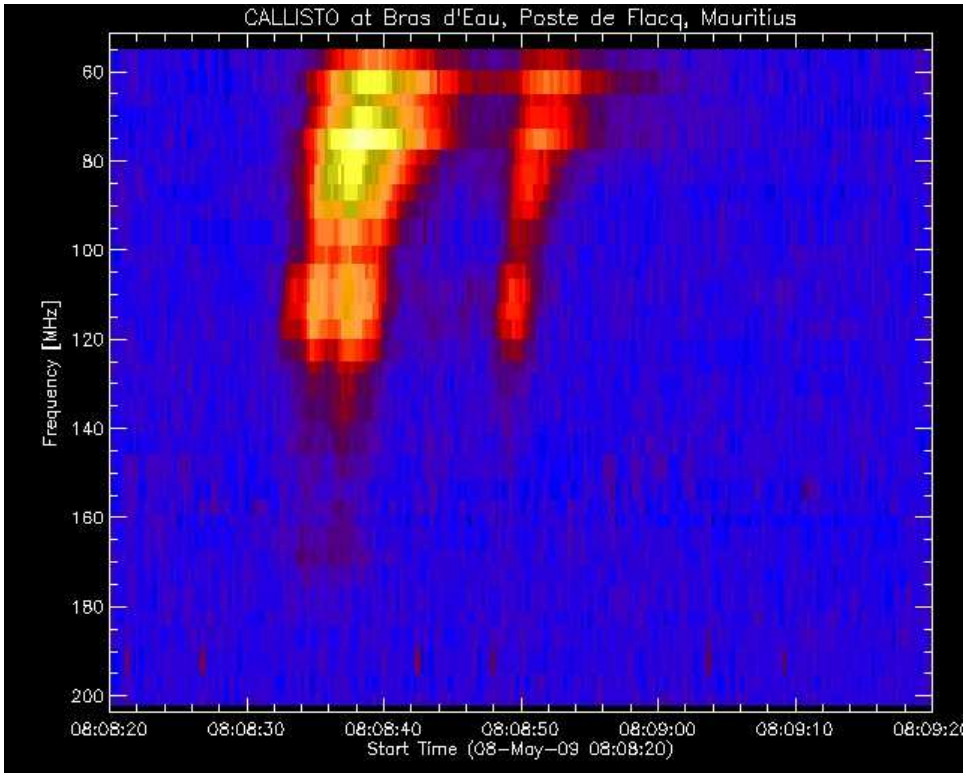

Fig. 6: Group of type III bursts

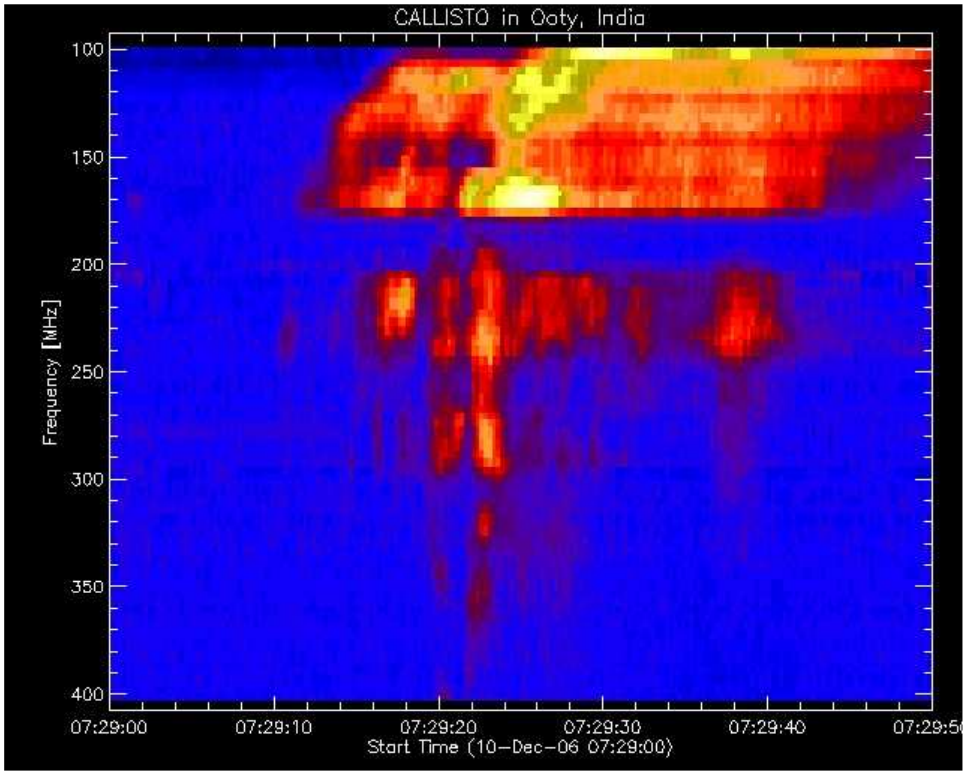

Fig. 7: Group of type III flare, some reverse drifting and some U-bursts

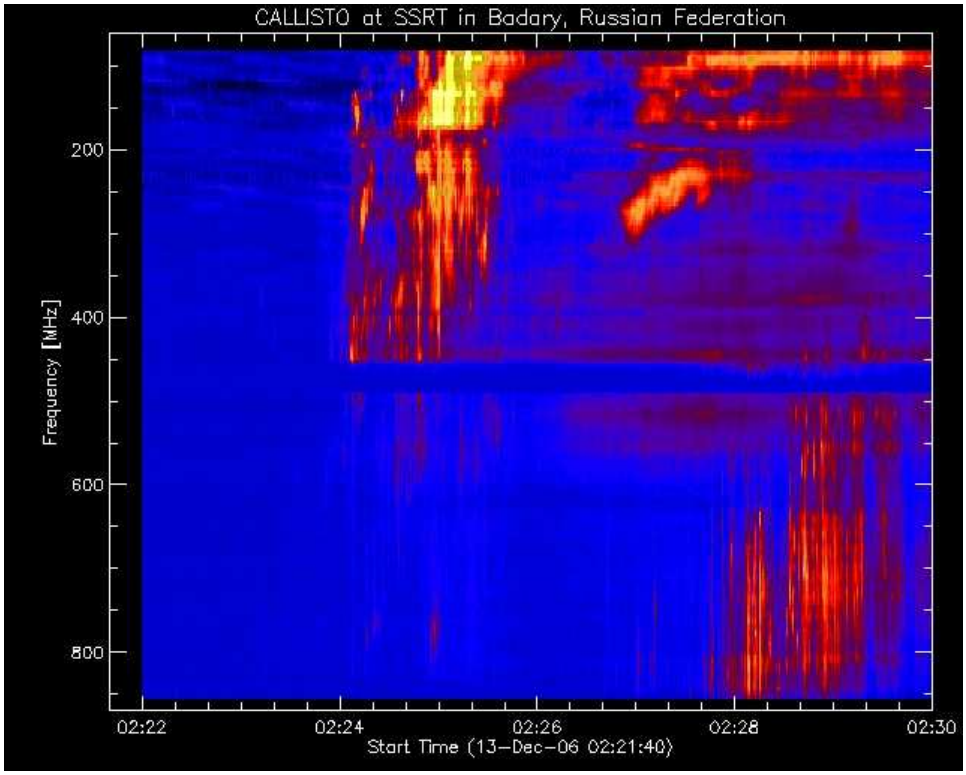

Fig. 8: Very nice and bright type II, some reverse and some U-shaped type III bursts
Nice and bright pulsations at decimeter wavelength