

A map of Europe with several yellow dots representing LOFAR stations, connected by a dotted yellow line. The map is set against a dark purple and blue background.

LOFAR CS1 – First light in Effelsberg 28-03-2007

Corina Vogt
ASTRON/LOFAR, Dwingeloo





A LOFAR Station in Effelsberg

GLOW Board Meeting on the 21st of March.
Presentation of the Effelsberg station



Beginning of March 2007

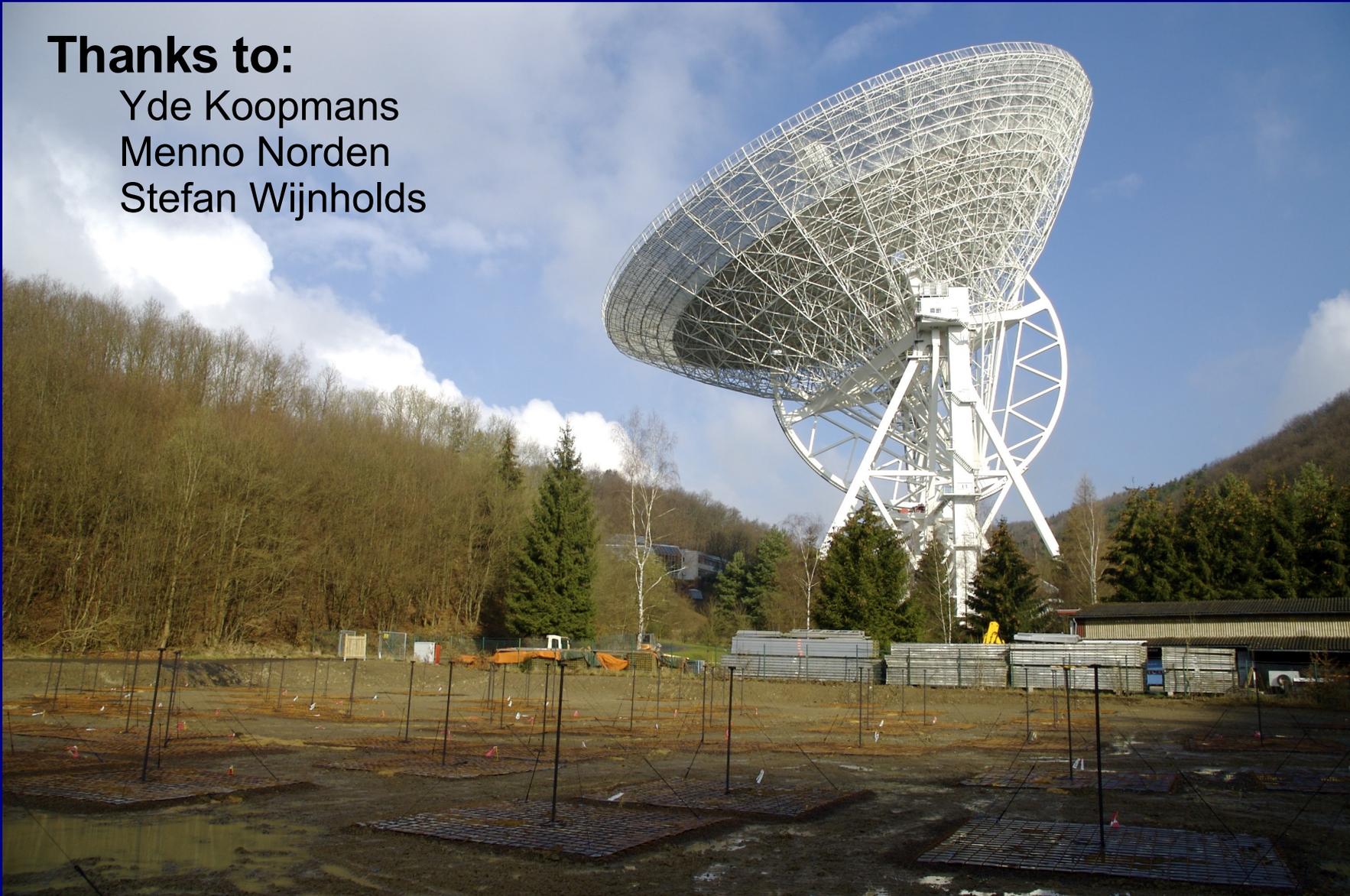




A LOFAR Station in Effelsberg

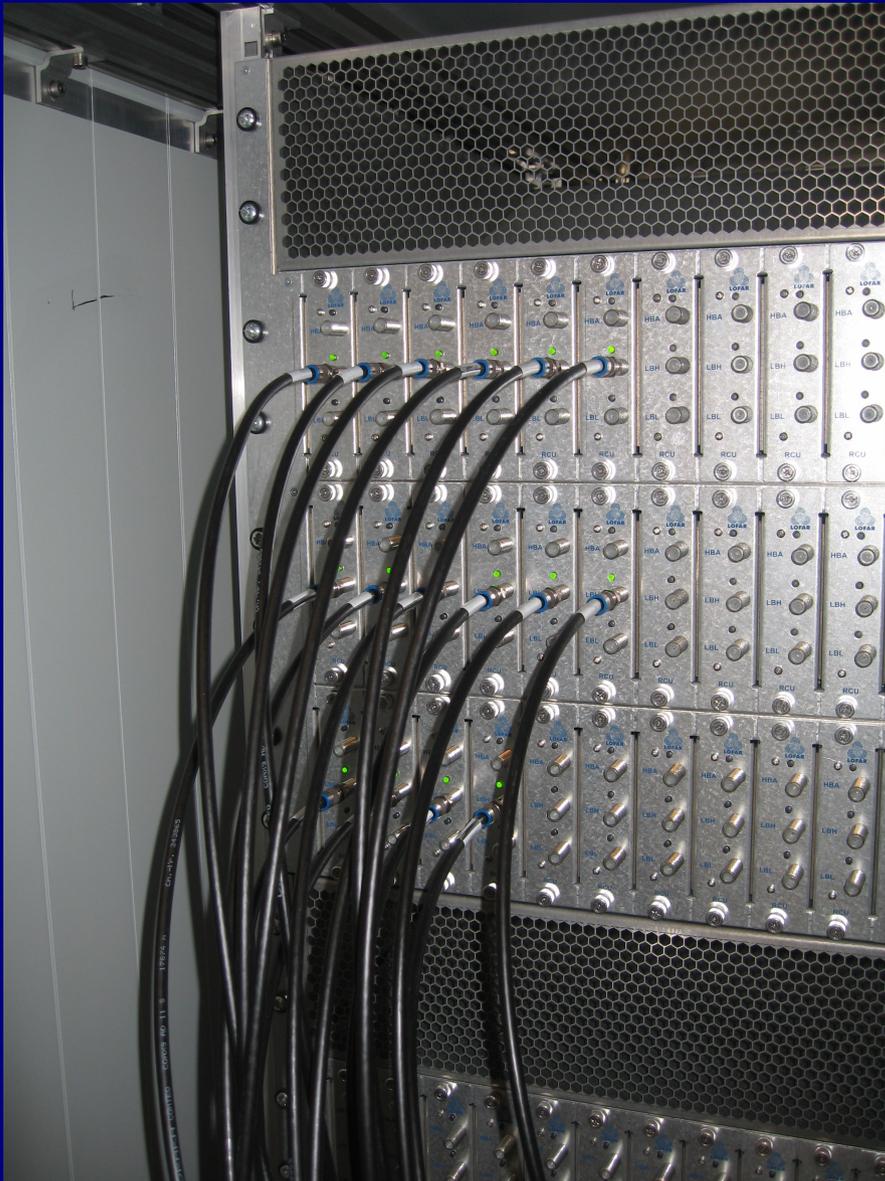
Thanks to:

Yde Koopmans
Menno Norden
Stefan Wijnholds





A LOFAR Station in Effelsberg



- Since final electronics not delivered to Effelsberg, RSP boards borrowed from CS1
- 8 antennas/16 dipoles connected
- Autocorrelation and sky imaging



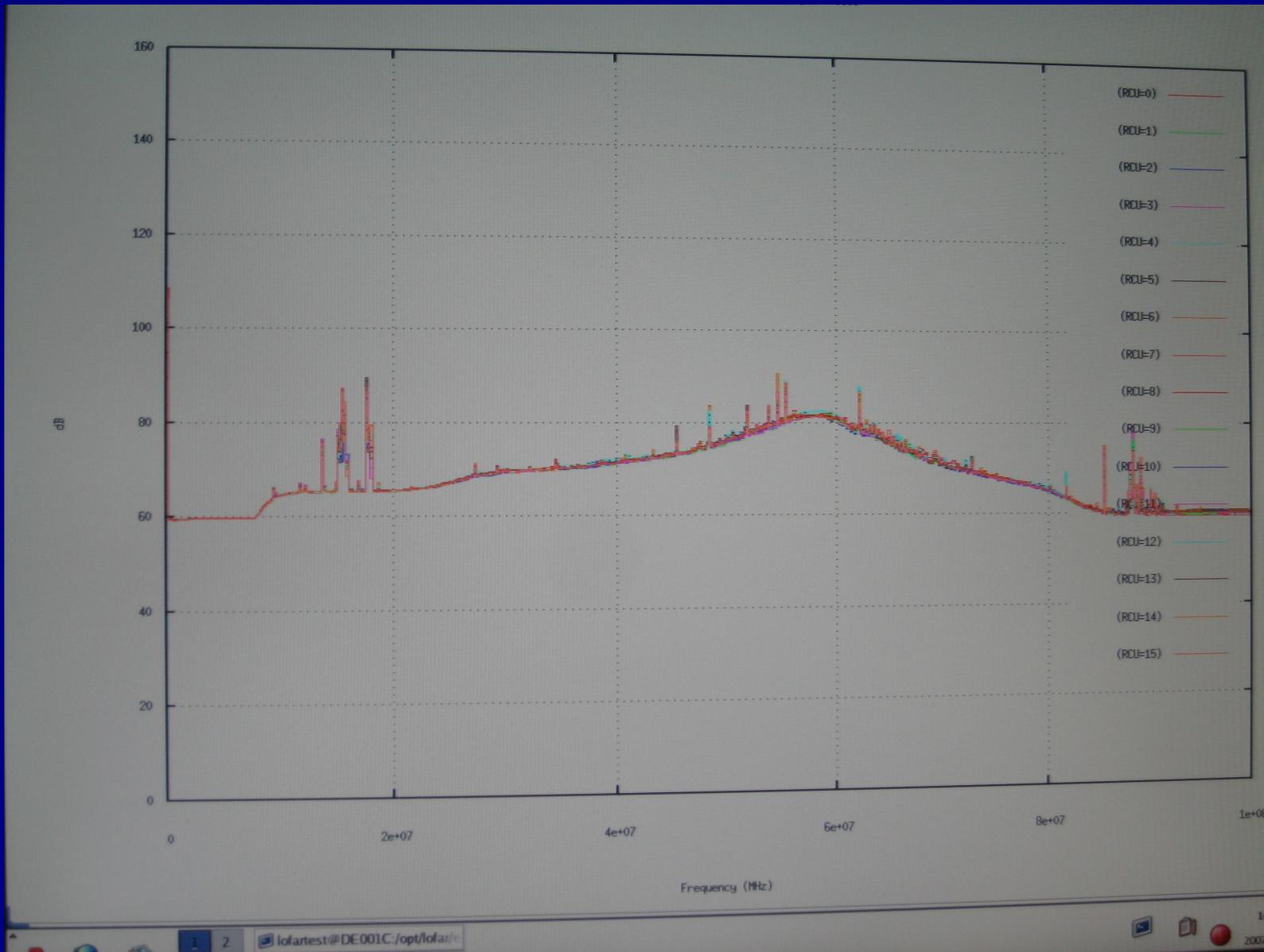
A LOFAR Station in Effelsberg



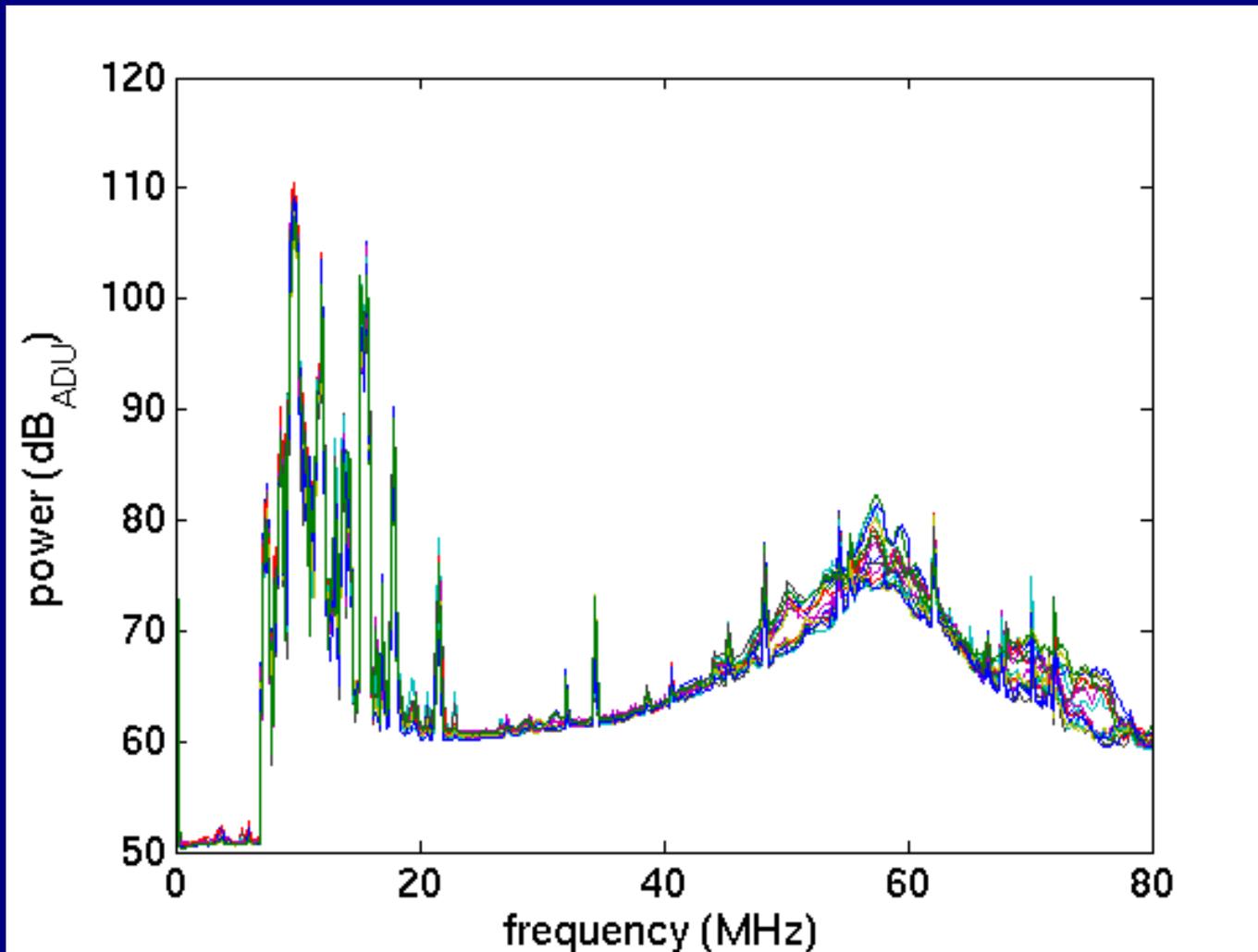
Eagerly waiting for the first signals!!!



First Light

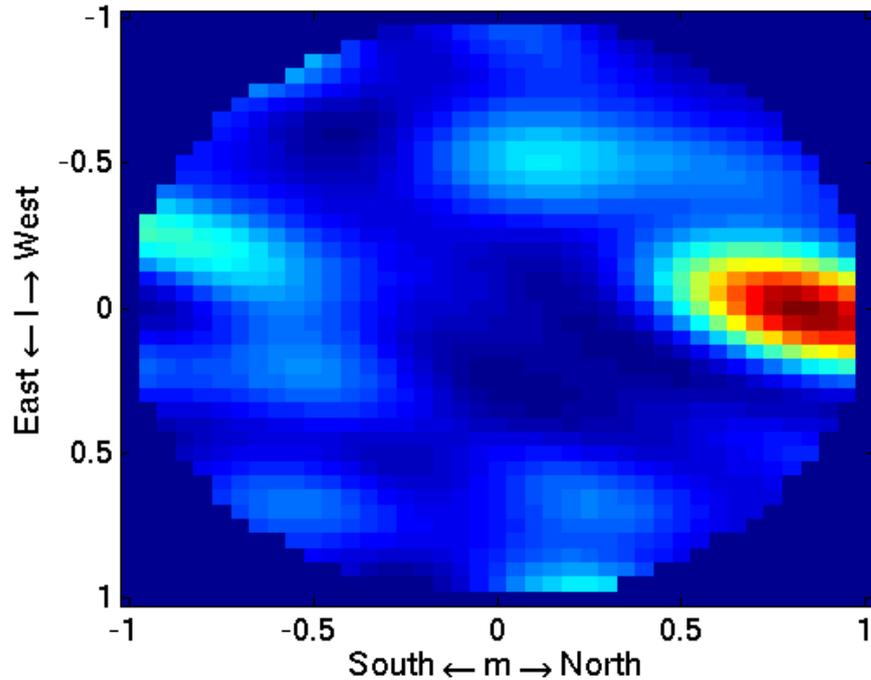


Autocorrelation Spectra



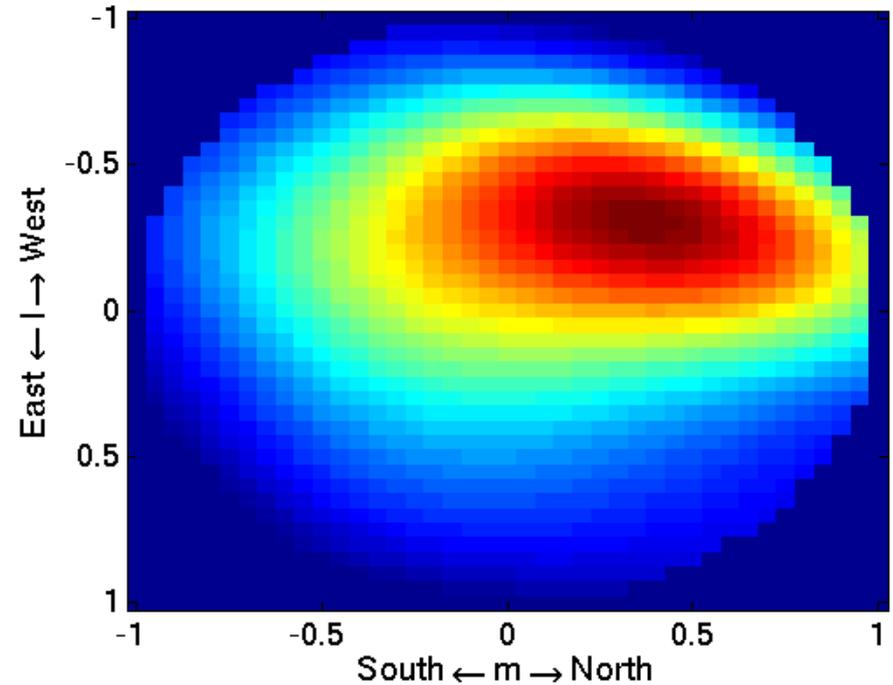
All Sky Images

All sky snapshot image at 46.0938 MHz



With RFI

All sky snapshot image at 25 MHz



Without RFI

- derived from the correlation experiment started on March 20, 2007, 18h11m56s.
- a scan through all 512 subband integrating 4s per subband in RCU mode 3 (i.e. LBH input using the 10-90 MHz filter) with the ADC clock running at 160 MHz

A crowded container

Thanks to all again who made this event a huge success!!!

