

Onsala Station Report

EVN Session 3/2015

This session in winter went quite smoothly. All the EVN experiments were observed. So far, no any negative feedbacks from JIVE have been received.

The continuous 80Hz calibration system was used in N15L3 as a test. It worked as we expected. After session 3/2015, we have reduced our T_{cal} to 2 -- 4 Kelvin at both C and L bands. The contribution to the system temperature is now in the proper level, just about 1 -- 2 Kelvin. We plan to use the 80 Hz calibration system in session 1/2016.

Technical Development

Two more Flexbuffs have been ordered and built up. One is at JIVE. The Flexbuff at JIVE has a disk space of 144 TB. The other is at Onsala. The new local Flexbuff has a size of 324 TB, large enough to get all the experiments in a typical EVN session run at 2 Gbps recording rate. The pre-existing old Flexbuff will be set as a dedicated recorder for our Geodetic VLBI observations.

We have constructed 5 x 48 TB disk modules at Onsala and put them into the observations since session 3/2015.

A new dual-polarisation 4 mm receiver has been commissioned for the single-dish astronomical observations. In the 86 GHz GMVA observations, the 4mm receiver can be used as a backup of our 3 mm receiver.

Together with Effelsberg, we did DBBC3 16 Gbps fringe test. The fringes between Onsala DBBC3 and Effelsberg DBBC2 were successfully found with the help of JIVE SFXC expert Aard Keimpema.