

Observatories Report To EVN TOG  
INAF-Institute of Radioastronomy

Medicina station      Period May 2020 - November 2020

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1) Antenna.

The telescope has been idle since December 2019 due to a mechanical issue. The issue was described in our previous report to the TOG. The two broken steel girders composing the reticular structure that supports the counterweights were replaced. Also an azimuth wheel has been repaired. We were back to full operation at the end of July when the maintenance was completed.

2) Receivers

The C-band receiver IF bandwidth has been extended to 900MHz up from 400MHz.

3) VLBI terminal

Our Flexbuff system is presently equipped with 360TB. Session 2020-3 was done with jive5ab 2.9. Version 3.0 is now operative.

We're running DBBC V107

Activating continuous cal (cont\_cal on), BBC 10,11,13 often show a null TPI readings. This invalidates the tsys computation. It is also particularly nasty during calibrations (onoff,fivpt), since a wrong reading mess up completely the measure.

PFB with v16 firmware

Fila10G with V4.1 231118 firmware

4) Field System

We have installed a new FSL10 Debian machine and we are running the new FS 10.0.0-beta2.

5) VLBI sessions

EVN 2020-2

Medicina did not participate due to the mechanical problem reported above

EVN 2020-3

Session fully completed. Fringes during all the NMEs, no evidence of data loss during user experiments.