

Noto station status report

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Antenna

On next week we planned the substitution of the azimuth encoder, in order to recondition the previous.

Receivers

The Noto antenna can, at the moment, observe at the frequencies of 2.3,5,6,8.4 and 22 GHz. The construction of the SXL should be ready by the end of 2018 and will be tested by the beginning of the next year.

We had started the tests of the receiver at 43 GHz, but the refrigerator broke and the same happened to the replacement one. At present the tests are stopped waiting for the new refrigerator.

A new cryogenic compressor has been purchased, and in the perspective to complete the frequency agility at least for C low, C high and K band new mechanical parts are planned to modify the Noto vertex room.

VLBI back-end

DBBC firmware version is currently DDC V105_1 and V105_1E, PFB v16.

FiLa10G firmware version 4.1.

Field System version is 9.11.18.

The FlexBuff unit is at present the main recording system.

RFI

A new system of RFI acquisition has been developed by Carmelo Nicotra using an Arduino card to control the rotor of the logarithmic antenna. The system can acquire the RFI in a completely automatic way, and the data can be downloaded via the network.