Westerbork VLBI station report for the EVN TOG Meeting, Max-Planck-Institut für Radioastronomie Bonn, May 05, 2020

Overview:

Westerbork is contributing to VLBI projects with a single dish, equipped with a modified MFFE providing circular polarization and a DBBC backend. Two radio telescopes are available for VLBI operations, one equipped with the MFFE receiver, and the other with the 5cm receiver, currently sharing the DBBC/Mark5B/FlexBuff backend.

The remaining 12 radio telescopes of the WSRT are equipped with the APERTIF receivers and backends.

DBBC:

Our DBBC (used operationally since Session 2015-3), has four Core2 boards and eight BBC's and an internal Fila10G card and its running on Windows 7 and firmware version 1.07.

The WSRT DBBC is capable of delivering 2Gbps setups to a FlexBuff (though the relatively narrow MFFE IF, limits the data rate to $>\sim 1$ Gbps).

FlexBuff:

WSRT's FlexBuff server is equipped with 36 8TB disks (nominal capacity 244TB).

Fieldsystem:

Fieldsystem version 9.13.2.

Session Participation:

Westerbork participated in the X, M, C and L-band experiments of sessions 2019-2, 2019-3, 2020-1 (with marginal loss of data) Furthermore the WSRT participated successfully in e-VLBI, ToO and OoS projects.

VLBI Operations result report of session EVN 2019-2

	cm(M) cm(C)	total: total: total: total:	25 7.5	hr hr	lost: lost: lost:	6 0 0		hr hr hr
Total:		19	95.5	hr		6	hr	

Total 3.06% lost

VLBI Operations result report of session EVN 2019-3

18/21 cm(L) 5 cm(M) 6 cm(C) 3.6 cm(X)	total: 67.5 total: 41 total: 77 total: 43	hr hr	lost: lost: lost: lost:	0 0	hr hr hr hr
Total:	228.5			0.2	

Total 0.09% lost

VLBI Operations result report of session EVN 2020-1

total: 44 18/21 cm(L) lost: 0 hr hr total: 43 hr total: 73.5 hr total: 38 hr lost: 5 cm(M)0 hr lost: cm(C) 0 hr lost: 3.6/13 cm(X/S)0 hr

Total: 198.5 hr 0 hr

Total 0.00% lost

Personnel:

Richard Blaauw is the Technical VLBI Friend and there is no dedicated astronomy VLBI Friend.

Richard Blaauw