

GMVA Session September 2015

Correlator Report

SESSNAME c152b

MJD 57290

START TIME 2015y268d00h00m00s;

STOP TIME 2015y269d23h56m50s;

DURATION 48

DOY 268-269

CORRTIME 2015/11/20 2016/01/10

CORRELATOR_NOTES

Nr. Spectral channels: 64

Integration time: 1 s

Correlator Report

EB_RDBE (F/Eb): Ok.

YEBES40M (X/Ys): Low visibility amplitudes from freq 86252 MHz to 86380 MHz. LCP only.

METSAHOV (e/Mh): Very few detections in both pol.

VLBA_NL (n/NI): Ok.

VLBA_FD (f/Fd): Ok.

VLBA_PT (p/Pt): Slight clock drift. Clock break at 11:48 UT (DOY 269). Clock break was given by NRAO: reason to me unknown.

Correlator Report

VLBA_LA (l/La): Ok.

VLBA_OV (o/Ov): Ok.

VLBA_KP (k/Kp): Ok.

VLBA_BR (b/Br): Ok.

GBT_VLBA (G/Gb): Ok.

VLBA_MK (m/Mk): Ok.

Correlator Report – HOPS Summary:

Earliest scan: 115-268-000000

Latest scan: 115-269-235250

Stations present: FGXbefklmnop

Baselines present: bF bf bG bk bl bn bo bp Ff FG Fk Fl Fn Fo Fp fG fk
fl fn fo fp Gk Gl Gn Go Gp kl kn ko kp ln lo lp no
np op be Fe fe Ge ke le en eo ep bX FX fX GX kX IX
eX nX oX pX bm Fm fm Gm km lm mn mo mp mX em

Polarizations present: RR

SNR extrema: 4.769 756.9

Experiments present: 1234

Sources present: 0235+164 0716+714 0836+710 1510-089 1633+38
1749+096 3C120 3C345 3C454.3 BLLAC CTA102 OJ287

Quality code summary:

A B C D E F G H 0 1 2 3 4 5 6 7 8 9 ?

0 0 0 0 0 0 9 0 7 0 3 0 0 0 0 1 1 7 2 4 4 8 8 2 1 2 8 5 1 9 4 6 0 7 0

Correlator Report – HOPS Summary:

Polarizations present: LL

SNR extrema: 4.957 825.2

Quality code summary:

A	B	C	D	E	F	G	H	0	1	2	3	4	5	6	7	8	9	?
0	0	0	0	0	0	176	0	6284	0	71	14	55	1705	444	2141	576	5040	0

Polarizations present: RL

SNR extrema: 4.940 201.1

Quality code summary:

A	B	C	D	E	F	G	H	0	1	2	3	4	5	6	7	8	9	?
0	0	0	0	0	0	72	0	13300	0	2	2	12	111	49	273	136	2549	0

Polarizations present: LR

SNR extrema: 4.914 285.2

Quality code summary:

A	B	C	D	E	F	G	H	0	1	2	3	4	5	6	7	8	9	?
0	0	0	0	0	0	292	0	12891	0	0	0	6	55	52	306	121	2783	0

Legend

Legend:

QC = 0 Fringes not detected.

= 1-9 Fringes detected, no error condition. Higher #, better quality.

= B Interpolation error in fourfit.

= D No data in one or more frequency channels.

= E Maximum fringe amplitude at edge of SBD, MBD, or rate window.

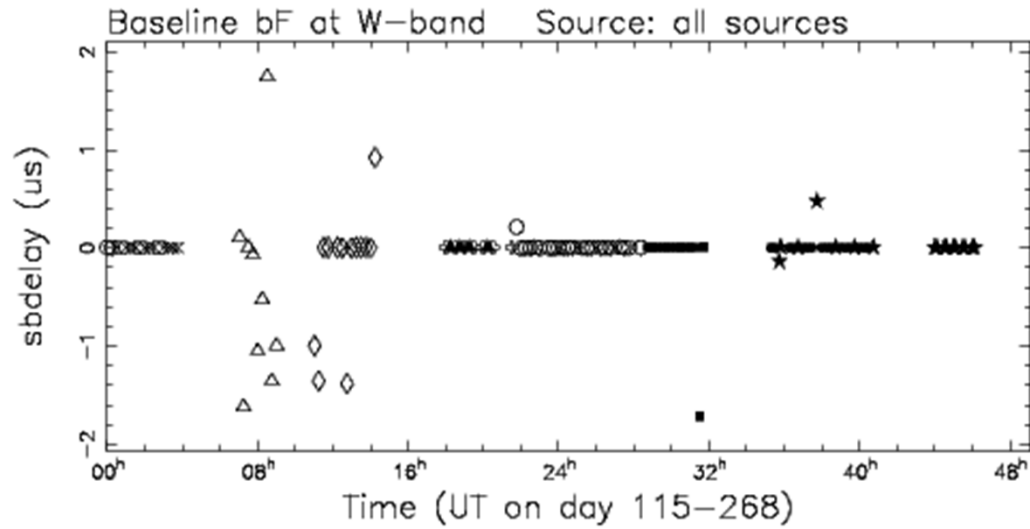
= F Fork problem in processing.

= G Fringe amp in a channel is $<.5$ times mean amp (only if $SNR > 20$).

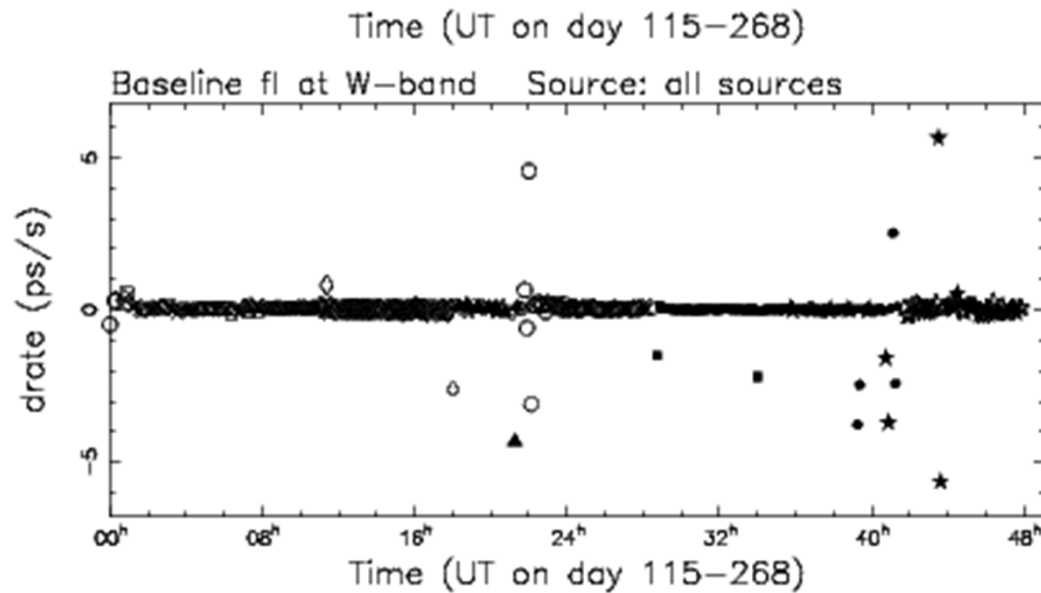
= H Low Phase-cal amplitude in one or more channels.

= N No valid correlator data.

Example of SBD and DR



SBD between Br and Eb

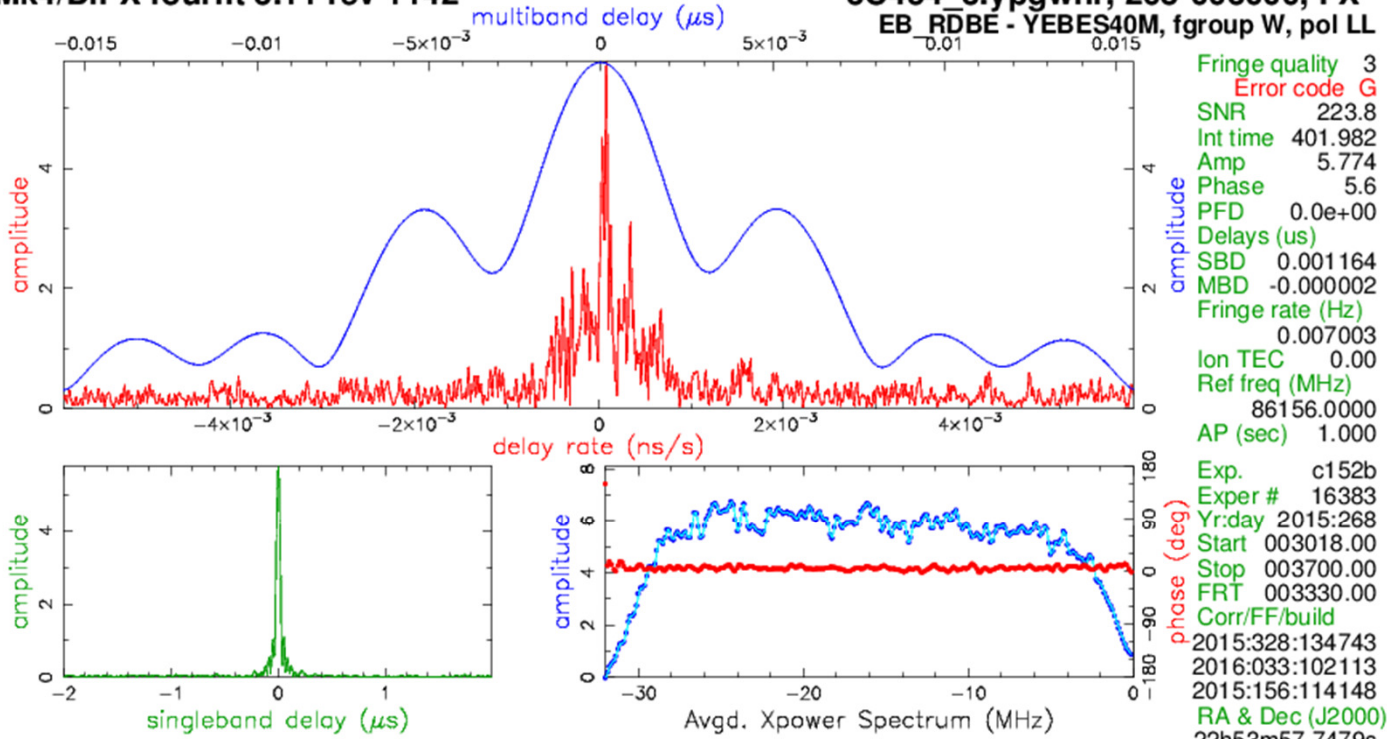


DR between Fd and La

DBBC Problem at Yebes

Mk4/DiFX fourfit 3.11 rev 1142

3C454_3.ypgwhr, 268-003000, FX
EB_RDBE - YEBES40M, fgroup W, pol LL



Fringe quality 3
 Error code G
 SNR 223.8
 Int time 401.982
 Amp 5.774
 Phase 5.6
 PFD 0.0e+00
 Delays (μs)
 SBD 0.001164
 MBD -0.000002
 Fringe rate (Hz)
 0.007003
 Ion TEC 0.00
 Ref freq (MHz)
 86156.0000
 AP (sec) 1.000
 Exp. c152b
 Exper # 16383
 Yr:day 2015:268
 Start 003018.00
 Stop 003700.00
 FRT 003330.00
 Corr/FF/build
 2015:328:134743
 2016:033:102113
 2015:156:114148
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 23 segs, 18 APs / seg (18.00 sec / seg.), time ticks 30 sec

