

The data for v189a should be recorded to the first of the new sets of xraids (7 x 500 GB) \ \ Data being recorded to first set of Xraid disks as labeled: /data/xraid0. Interestingly this is the right-hand bank of disks. \ \ Data recorded as follows: \ \ 09:50:00 → 09:50:30 - duration was set to 30s, whoops! \ 09:58:00 → 10:27:12 Stopped to reconfigure caching settings on the Xraids \ 10:28:00 → end \ \ Notes: \ 09:50:00 On point and recording \ 12:28:00 (approx time) IF2 unplugged briefly for a sanity check \ 12:37:00 Antenna off point for ~ 30s for another sanity check \ 12:42:00 After conversation with Adam, can see no problems with the \

system so suspect lack of fringes to Tid is due to checking \ software not handling the mixture of bands and pols correctly. \ Have double checked frequency setup, antenna pointing, recorder \ clock etc and all looks correct. \

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Tidbinbilla Setup notes for V189a \

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Config notes \

- Centre freqs = 1650, 1682 MHz MHz \
- Polarisation = LCP \
- 1st LO = 1380 MHz \
- mix to 160 MHz into DAS \
- so 2nd LO for USB mix \
 - IFP1: $1650 - 1380 + 160 = 430$ MHz \
 - IFP1: $1682 - 1380 + 160 = 462$ MHz \
- DAS profile = vsop_f.pro \

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SOE \

Before the track \

- Block 0 rack config \
 - Split L-band signal then amplify, attenuate, mix etc to IFP1, 2 \
 - 2nd LOs \
 - 1: 430 MHz \
 - 2: 462 MHz \
- PCFS \
 - sched files \
 - fix timing \
 - add source commands \

- connection blocks → APCcontrol (Note PID)\
- start the E-log TDN\
 - TDNs → **log?** \
 - move to 'logs' workspace\
- receiver config\
 - us d smap\
 - us d xmap\
 - (double-click on dichroic to move it IN)\
 - (configure with double-clicks)\
 - D1 D CNF 3\
 - (select SC 99 and S band and [apply])\
 - make carrier 2280 MHz\
 - if fail to pick up correct LNA:\
 - D1 set uwv reset\
 - d1 set uwv srla2o2\
 - D2 D CNF 4\
 - (select SC 99 and S band and [apply])\
 - make carrier 2280 MHz\
 - if fail to pick up correct LNA:\
 - select connection "none"\
 - select connection DSS43SO2\
 - if still failing\
 - D1 set uwv reset\
 - d1 set uwv srla2o2\
 - configure noise diode\
 - d1 d prf 3 and d2 d prf 4\
 - click on REC button in CNF windows\
 - select 12.5K and frequency = on, apply\
 - then enable/disable, check in each IF\
 - to modulate\
 - * 0.25 K, 20 Hz, 5s, enable\
 - repeat for D2\

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- boresight\
 - manual offsets e.g:\
 - ap po xel 0.1\
- PCFS\
 - check atten levels\

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- schedule file changes\

```
remove all:\ st=\ et\ unlod\ setup0*\ ready\ tape\ \ Add to prc file:\ \ define ifds 06132201809x \
ifd=,,nor,nor \ lo=lo1,1380,usb,lcp,1.0,0 \
patch=lo1,1h,2h,3h,4h,5h,6h,7h,8h,9h,10h,11h,12h,13h,14h \ enddef\ define vclba 06132201825x \
vc01=285.99,16.00,ul\ vc02=285.99,16.00,ul\ vc03=285.99,16.00,ul\ vc04=285.99,16.00,ul\
vc05=285.99,16.00,ul\ vc06=285.99,16.00,ul\ vc07=285.99,16.00,ul\ vc08=285.99,16.00,ul \
vc09=285.99,16.00,ul \ vc10=285.99,16.00,ul \ vc11=285.99,16.00,ul \ vc12=285.99,16.00,ul \
vc13=285.99,16.00,ul \ vc14=285.99,16.00,ul \ !+1s\ valarm\ enddef\ define postob 00000000000x\
```

Last
update:
2015/12/18 16:38 lbaops:ibanov2006:v189atilog https://www.atnf.csiro.au/vlbi/dokuwiki/doku.php/lbaops/ibanov2006/v189atilog?rev=1163595043

```
enddef\ define sched_end 00000000000x \ sy=echo "QUIT" | netcat nmc-ws4 -q 2 6543\ sy=echo  
"QUIT" | netcat nmc-ws4 -q 2 6643\ sy=echo "TERMINATE" | netcat nmc-ws4 -q 2 6743\ enddef\ \ \ \  
\
```

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