

# ATCA Bi-static Radar Observing Instructions

## Telescope

caacor setup?

## DAS

- Make sure the “8 bit” cable is connected between DAS “DigiOut” board and VSIC
- Set VSIC to mode (Huygens)
- Configure DAS using `msl_f.pro` profile. This gives a 4 MHz band, offset from central ATCA IF frequency by XX MHz.

## Recording

Record the data using the command:

```
vsib_record -m 2 -bits 8 -w 4 -x -o EXPERIMENTNAME -t Xh
```

Where “X” is the recording time in hours. There is an alias to allow this to be simplified to:

```
radarrecord -o EXPERIMENTNAME -t Xh
```

## Realtime copyig of data

`vsib\_send` will send .lba data files when they are “complete”, ie the end of 1 1 minute file in normal setup.

On the recorder run (for example):

```
vsib_send -online -H draco -p 11111
```

On the receving machine (draco in the example above)

```
vsib_recv -p 11111
```

The port numbers must match and be allowed through firewall

## Realtime spectra

Create realtime spectra to be loaded onto the interactive webpage:

```
fauto_ipp -n 80000 -sp1 45000 -sp2 55000 -t 60s -online -noplot -dump -
```

```
command "scp %s kaputar:atca.spec"
```

Create realtime spectra in “.rdp” format and copy to the ATNF ftp area (using `vsib\_send`):

```
fauto_ipp -n 4194304 -sp1 2516582 -sp2 2621440 -t 1s -online -dump -radar -  
noplot -lo 7159 -command "vsib_send -p 33333 -H draco %s"
```

This requires a vsib\_rcv process running on “draco”, on port 33333:

```
vsib_rcv -p 33333
```

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