BARC – Presentation Using Web – Based SDR's.

Please feel free to ask any relevant & constructive questions during the Presentation, although there will be time at the end to ask questions.

Presentation includes a practical demonstration of all SDR's covered

Martin 2E0XBZ

Web – Based SDR's

Advantages

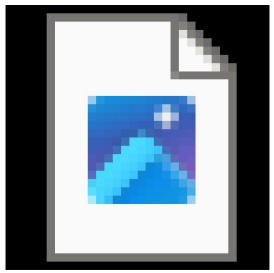
- Can be used to overcome high levels of local interference. 2E0XBZ would currently not be able to operate on 160m & 80m without using an SDR
- General listening across several bands. Good SDR's have large & high Antennas, away from other building & interference.
- Can be used to enhance a QSO & make possible when they would otherwise be very difficult or not possible at all
- Use to confirm you are putting out a signal. If you cannot be seen & heard on SDR's, you are NOT getting out.
- The new Bracknell HF SDR is excellent for this.
- General testing of your transmission. Modulation check for quality & level. Most have the facility to record & download the file.
- SDR's are located Worldwide, so can be used to listen to local stations in that area & check long distance propagation.

Web – Based SDR's

Disadvantages

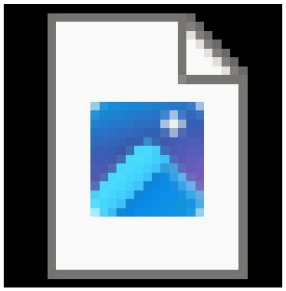
- Internet access required
- They can use quite a bit of data, so beware if using mobile data
- If you know the exact frequency of a transmission, great. Otherwise resolving SSB can be fiddley & time consuming.
- They are classified as Not Secure because they are primarily located in Private Buildings. However, I have never heard of this been a problem . It may be necessary to go into individual Site Settings & set sound to "Allow". This is one of the most common complaints. "I can display the SDR but it has no sound". Some have an allow or sound start button.
- They can go off-line during use & are constantly changing. You find a good one, then a few weeks later it may disappears forever.

Noise Level at my QTH - AM



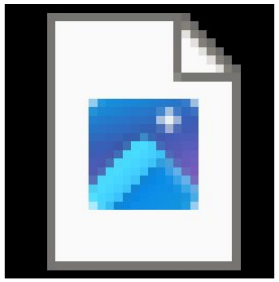
991A.mp4

Reception of AM a Challenge



AM Reception Comparison.mp4

Reception of SSB Possible for Strong Signals



SSB Reception Comparison.mp4

Bushey Heath VHF Web SDR

Excellent for BN 70cm – AL 2M – Checking how well you are getting out on 4M & 6M including 6M Amersham Repeater. Managed by John G3VHH

BushyHeath VHF SDR.url

RADARC VHF Web SDR

- Relative newcomer but already used to aid reception during our weekly Wednesday evening Net on 145.375. Any thoughts on the Waterfall is display?

RADARC SDR.url

Jodrell Bank VHF / HF Web

- Not connected with the famous installation, but located nearby. Covers lots of VHF & HF bands.

Jodrell Bank SDR.url

Weston-Super-Mare HF SDR

- One of the best in the UK & part of the Kiwi group of SDR's. Excellent reception on all HF bands. Remote location so can be off-air for a few days when a fault develops.

Weston Super Mare SDR.url

G4ZFE-Bracknell HF Web SDR

A good all-round SDR, part of the Kiwi group & excellent for all our club members, particularly those living in the Bracknell area. Thank you Richard for providing this facility.

Bracknell SDR.url

Conway 80m only -HF Web

- One of the best in the North & not well known. Out performs many more popular on the 80m band. Great for checking UK propagation to the North.

Conway SDR.url

Europe- Andorra -HF Web

- Very reliable & good for 80m / 40m / 20m.

SDR.RADIOANDORRA.url

Europe – Maasbree Netherlands -HF Web SDR

- Very good for Eastern Europe. Good prorogation check, especially 80m & 40m. Sometimes can be heard on this SDR and not UK SDR's

Netherlands SDR.url

USA K3FEF Pennsylvania -HF Web SDR

- Excellent on all bands from 160m through to 6m. I use this SDR to listen in to very high power 80m AM stations, using Ex-Broadcast Transmitters. 10m & CB channels are often busy.

K3FEF Web SDR.url

USA Highland Falls – New York State-HF Web SDR

- I find performance good on 20m & 10m. Also used to check the path between UK & USA on 10m.

Highland Falls New York SDR.url

End of Presentation

Any Questions?