Getting started with SDRC for QMAP

DL3WDG Draft 7 16 Dec 2023

Why use SDRC?

- QMAP was originally designed to work with IQ data from Linrad
- For the beginner, Linrad has a rather steep learning curve
- SDRC was modified recently to enable it to output data in the required Linrad format

Link for download

https://www.sdr-radio.com/download

Scroll down on above page and select from the choices.

Download A Version 3.3 Build 3117

32-Bit

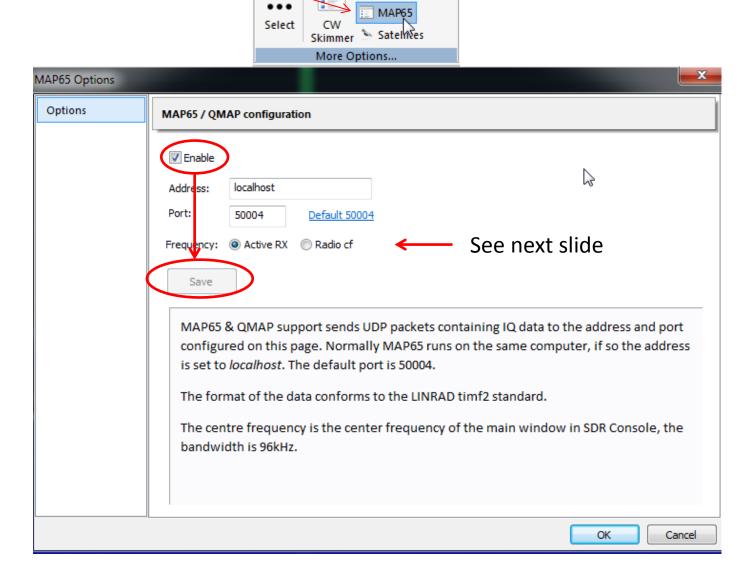
- <u>Dropbox</u>
- OneDrive

64-Bit

- <u>Dropbox</u>
- OneDrive

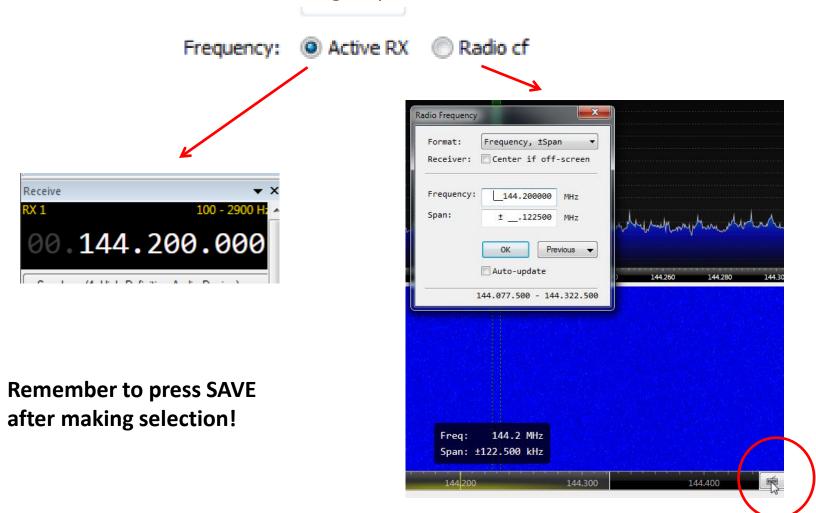
- 1) Ribbon Bar, View, More Options select MAP65, restart.
- 2) Click the MAP65 icon to see the options, here's I'm forwarding packets to the PC where MAP65 is installed.

Data Repeater



Setting centre frequency of data stream to QMAP

Two choices available according to preference:

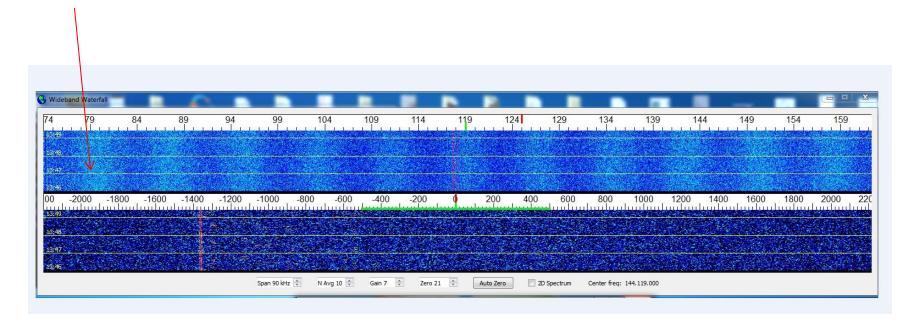


Running with a downconverter

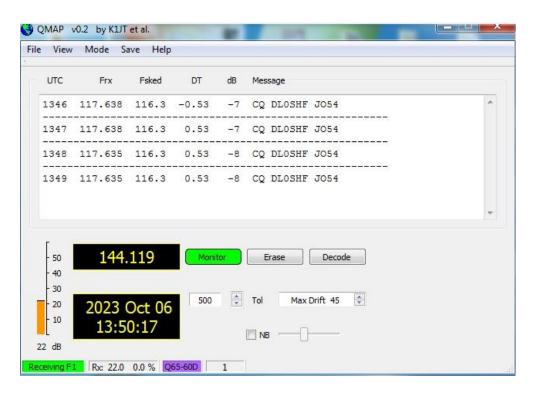
- If you are using a downconverter, SDRC should be tuned to the IF frequency in use. <u>Do not</u> attempt to add any LO offset in SDRC.
- Such offsets are entered into QMAP Settings, per the QMAP Quick Start Guide.
- If SDRC is listening directly on the intended frequency, use the default 0 in QMAP Fadd

Appearance of QMAP waterfall

Bands are present. This is different to using Linrad as the front-end. These do not appear to affect decoding.



Then use QMAP in the normal way



For more info on QMAP see:

https://wsjt.sourceforge.io/Quick Start WSJT-X 2.7 QMAP.pdf

Experiences to date

- QSOs have been successfully initiated using SDRC as the QMAP front end on 10GHz EME.
- Probably, Active Rx is the better choice for frequency selection, since you can use SDRC to monitor a wider bandwidth than QMAP can display. Clicking on the SDRC waterfall will move QMAP centre frequency to that. TBD, but may be best to try to click on an integral kHz. See next slide.

Setting SDRC step size to 1kHz

