

ÖVSV



Österreichischer
Versuchssenderverband



YOTA 2026

OPENWEBRX WORKSHOP

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Wagrain / Salzburg

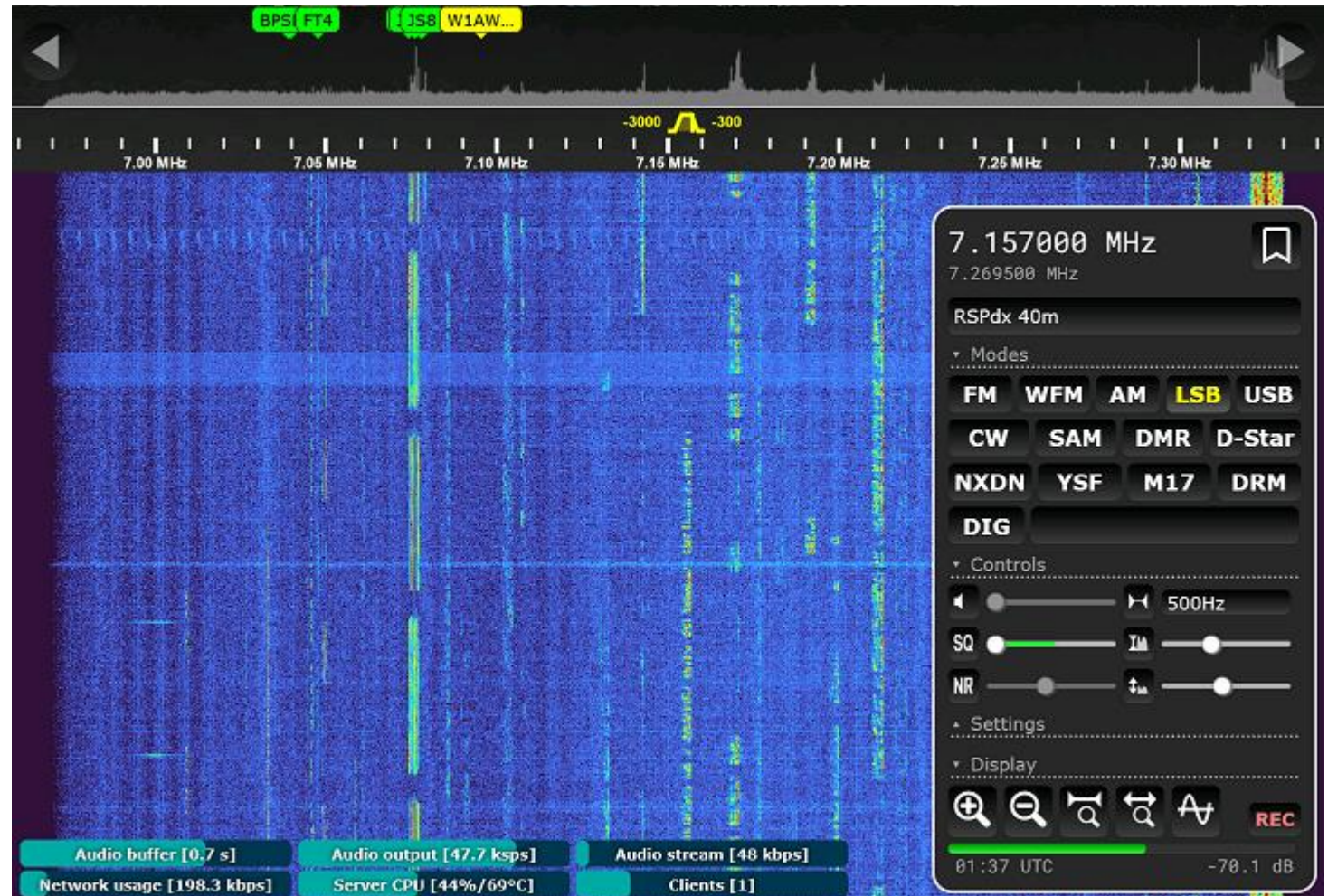


- Support many different SDR hardware

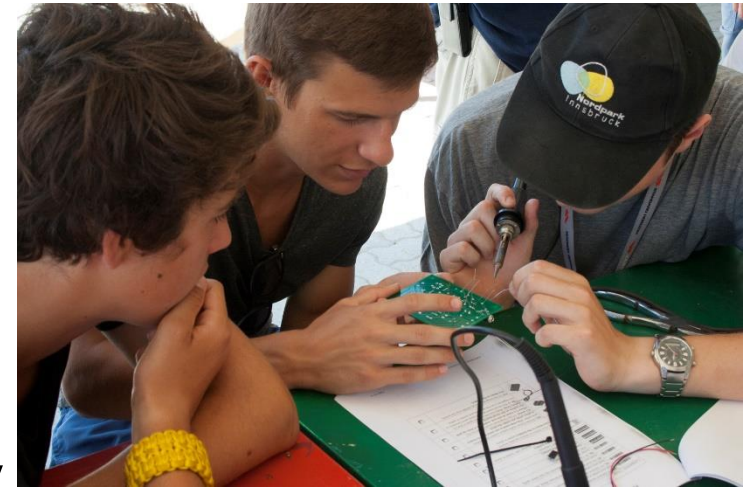
- Hardware Setup**

- [RTL-SDR Devices](#)
 - [SDRPlay \(RSP\) Devices](#)
 - [Airspy Devices](#)
 - [Hermes Lite 2](#)
 - [HackRF One](#)

- Open source
- Decodes WSPR, FT8, APRS, MESHCOM, LORA, DMR, M17...



- Build SDR-receiver based on Raspberry4,
- RTL-SDR-Dongle 0,5MHz – 1.700MHz (HF+VHF/UHF)
- Mini-Whip antenna (active 0,1-30MHz)
- Run software from SD-Card Image
- Understand + modify settings
- Enable decoders for digital modes
- Make available online in WWW in home country



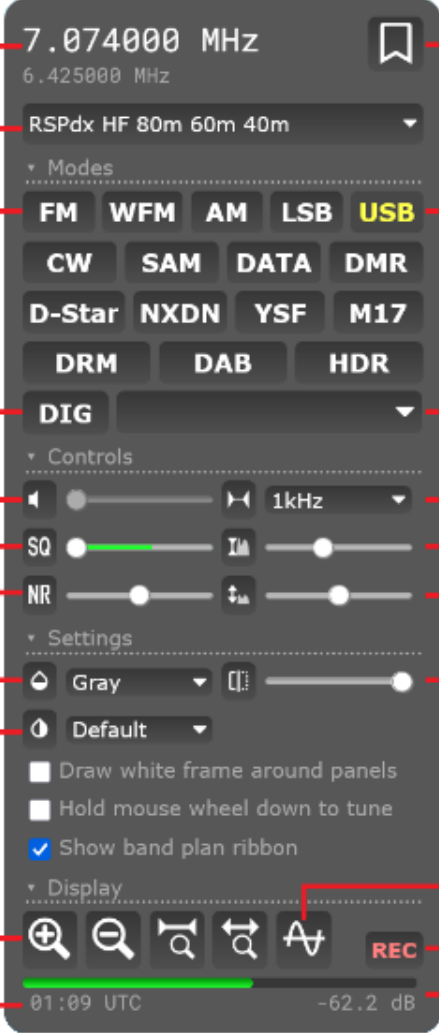
- OpenWebRX resources
<https://fms.komkon.org/OWRX/>
- <https://github.com/luarvique/openwebrx/releases/>

Parts per Team:

- SD-Card, Raspi4,
- Antenna, SMA-Cables, BNC
- 9V battery + Powerbank



- SSID openwebrx_01
- Pass: openwebrx_01
- IP 10.42.0.1
- Openwebrx.local
- Start RX with browser
- or connect to LAN-cable



1. Current Frequency — 7.074000 MHz
6.425000 MHz

2. Add Bookmark

3. Current Profile — RSPdx HF 80m 60m 40m

4. Available Modes —

5. Current Mode — USB

6. Toggle Digital Mode — DIG

7. Current Digital Mode

8. Volume / Mute —

9. Squelch / Scanner — SQ

10. Noise Reduction — NR

11. Tuning Step — 1kHz

12. Colors High / Auto

13. Colors Low / Reset

14. Current UI Theme — Gray

15. Current WF Theme — Default

16. Panel Opacity

17. Zoom Waterfall —

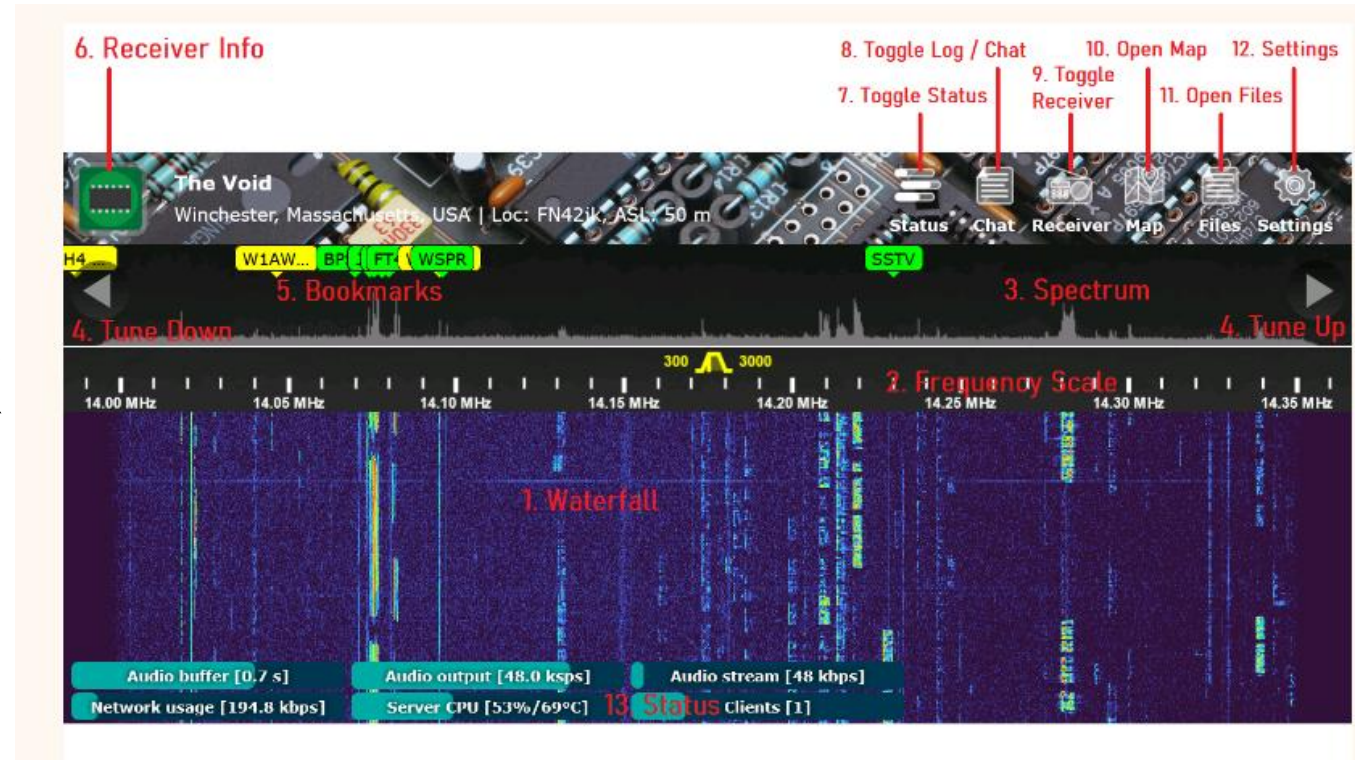
18. Current Time — 01:09 UTC

19. Toggle Spectrum

20. Record Audio — REC

21. Signal Level — -62.2 dB

- User: owadmin
- PWD: owrx
- Personalize ur OpenWebRX
- CallSign, Location, Image
- Select OpenStreetMap,
- Modify/add PROFILES
- Background Decoders, etc...



- Make experiments and receive
- 2m / 70cm Repeaters
- 433MHz ISM
- 40m Band LSB voice
- 20m band FT8
- 1090MHz Airplanes ADSB->Map
- Register ur OpenWebRX online
- Much more...



- User: pi
- Password: pi2026

Webserver-Settings:

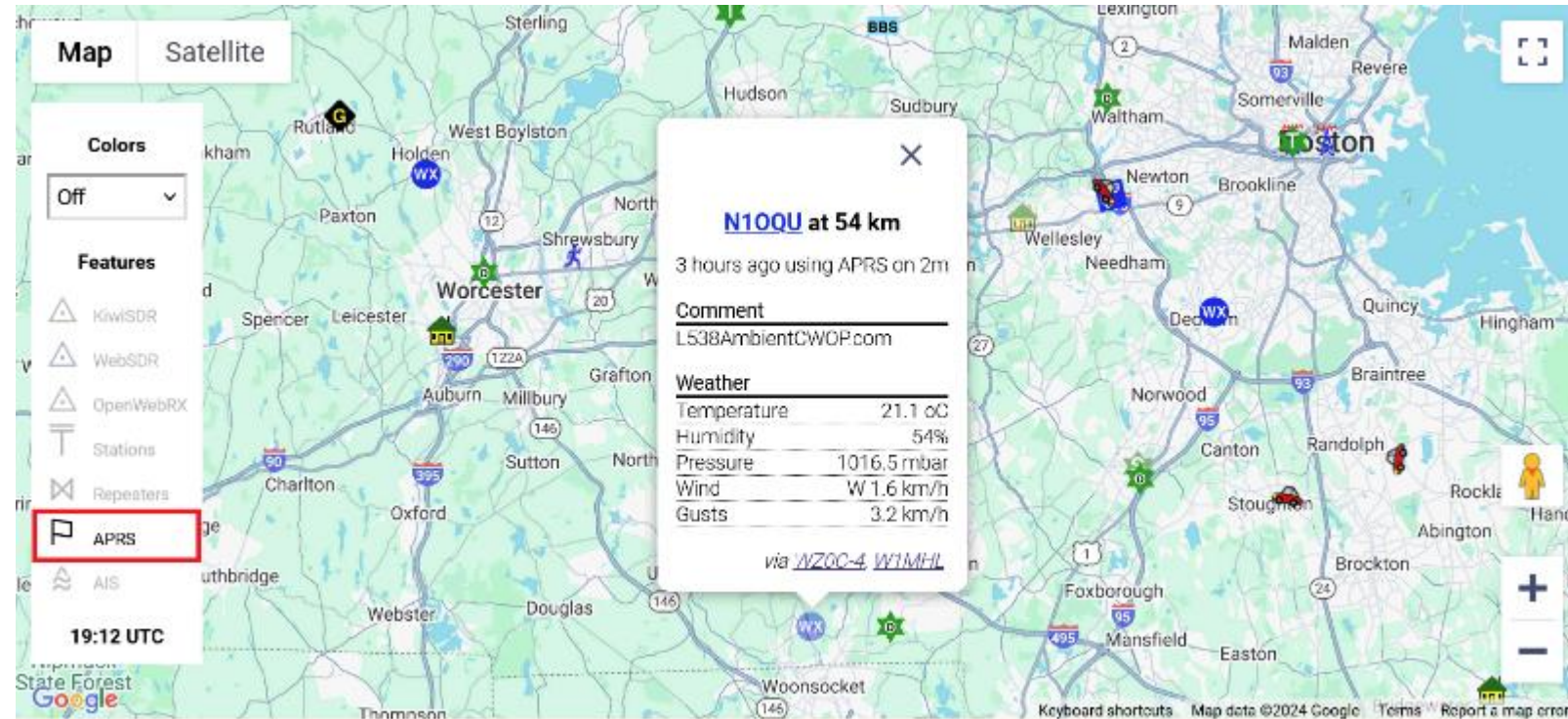
- User: owadmin
- Password: ovrx

Wifi:

- SSID YOTACAMP
- PASSWD Yotacamp

Hotspot:

- User: openwebxr_01 Pwd: openwebxr_01



Useful console commands for Raspi/Linux to change setup

sudo raspi-config

- Localisation Options
 - WLAN Country AT
- System Options
 - Wireless LAN
 - SSID YOTACAMP
 - PASSWD yotacamp
- SSH YES

WIFI AP authorisation:

sudo usermod -a -G netdev openwebrx

WIFI AP activation

sudo nmcli device wifi hotspot ifname wlan0 ssid openwebrx password openwebrx
 sudo nmcli con modify Hotspot connection.autoconnect yes

TEST commands for connections

nmcli connection show
 nmcli dev wifi show-password

Switch to Hotspot

sudo nmcli connection up Hotspot

Switch to WiFi Wlan Client

sudo nmcli connection up YOTACAMP

DMR ,M17, Dstar, digital voice Decoder:

sudo install-softmbe.sh

Updates

sudo bash /tmp/install-softmbe.sh

Check RASPI connection

journalctl | grep hotspot
 journalctl | grep wifi

WiFi-AP SSID and PWD change

sudo nmcli connection modify **Hotspot** ssid **openwebrx_oe**
 sudo nmcli connection modify **Hotspot** wifi-sec.psk **openwebrx_oe**

WLAN- WiFi-Client SSID change

sudo nmcli connection modify **netplan-wlan0-YOTACAMP** connection.id **YOTACAMP**

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