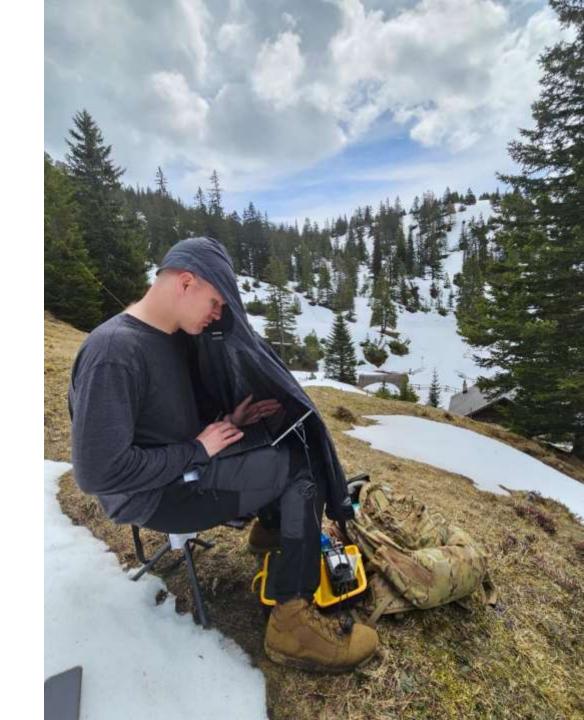
Becoming The (mini) DX

Operating QRP Portable In Europe

Program For The North Alabama DX Club Zach Rozar (K4ZSR) – 13 February 2024



Program Agenda

- Who am I and where I traveled
- Temporary QTH in Romania
- QRP station equipment
- Liechtenstein POTA expedition
- Interesting operating locations
- Lessons and resources
- Q & A

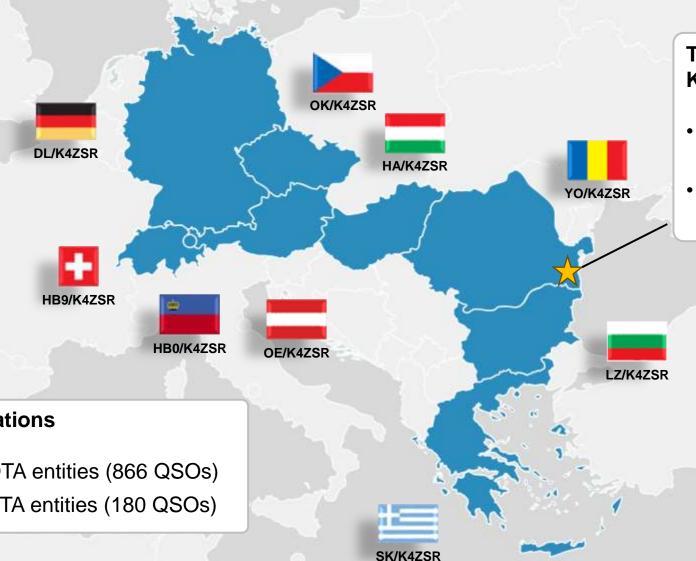


Who Is K4ZSR?

- Grew up around electronics and engineering
- General ticket as KO4ZWP, April 2022
- Upgraded to Extra and K4ZSR in November 2022
- Originally interested in EMCOM, but found interest in portable field ops and building antennas
- First POTA activation in October 2022
- Active duty Army engineer officer, deployed to Europe for most of 2023



Where In The World



Temporary QTH – Mihail Kogălniceanu, Romania

- Operated from March to September 2023
- 754 total QSOs with 86 countries

- 50 unique POTA entities (866 QSOs)
- 11 unique SOTA entities (180 QSOs)

Requirements To Operate Abroad

- Reciprocal licensing agreement
- The USA participates in CEPT recommendation T/R 61-01
- Need Amateur Extra license for full privileges
- Follow regulations of country you are operating in
- Three items on your person:
 - 1) official FCC license 2) proof of citizenship
 3) CEPT Public Notice document



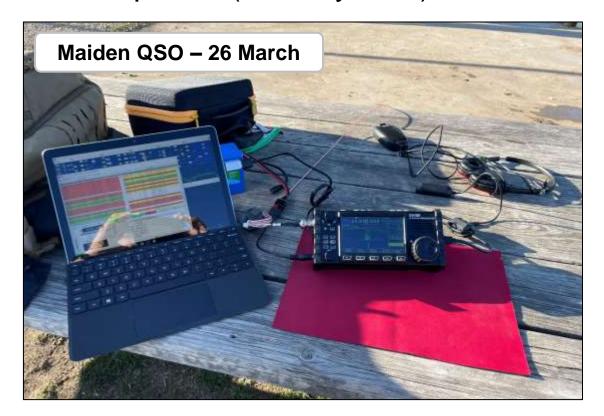
European Conference of Postal and Telecommunications Administrations

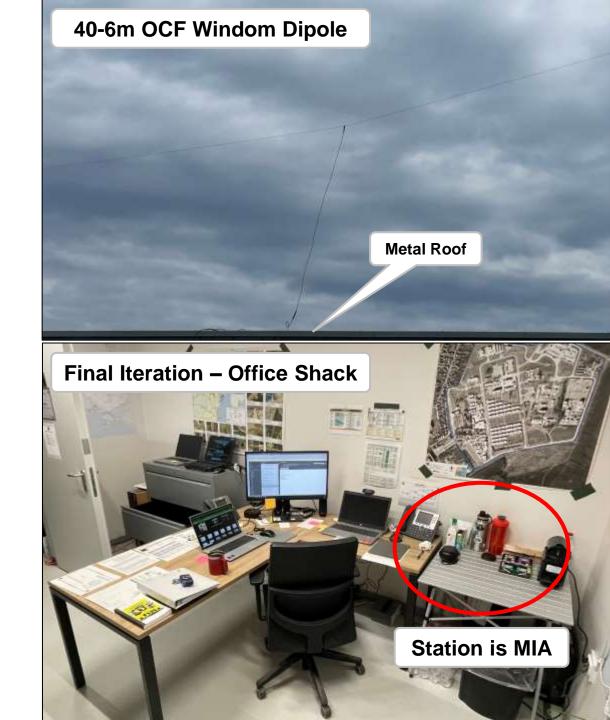
 46 European countries cooperating to regulate posts, radio spectrum and communications networks



Temporary QTH

- First there was a picnic table
- Compromised antenna installation
- No shore power (240v system)







What Does A QRP Station Look Like?

Self Contained Xiegu X6100 QRP Station



Portable Mast and Antenna Kit







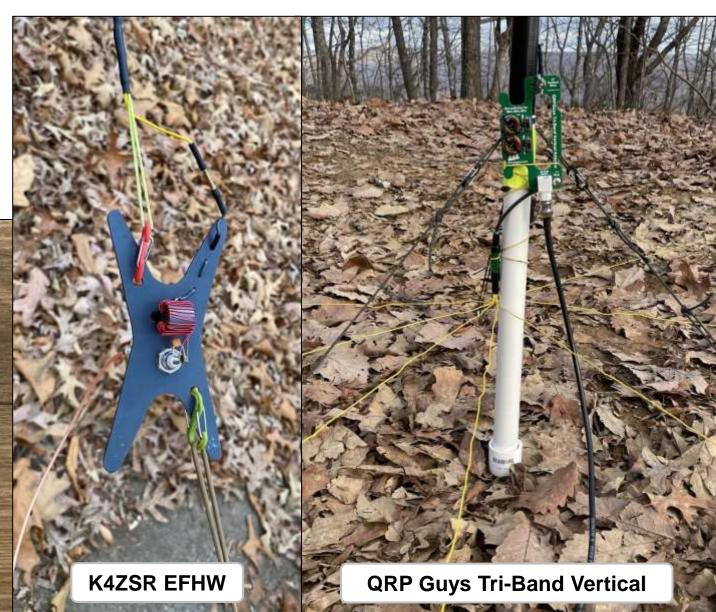




Antennas For Portable Ops

- In the field, wire is king (usually)
- QRP antennas can be really small
- Design for durability / flexibility



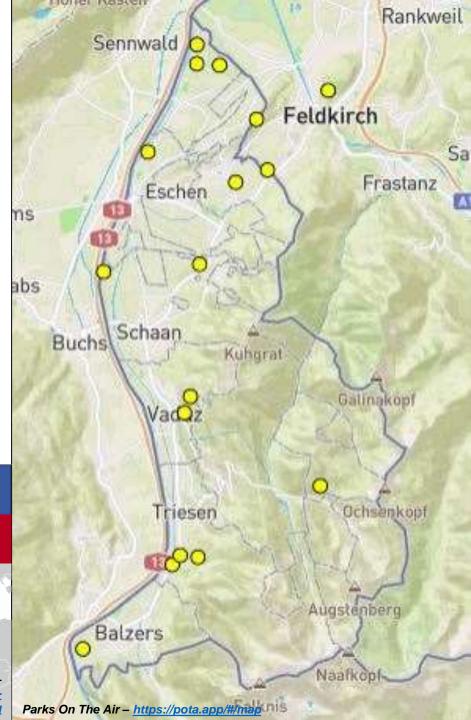


Lets Activate Liechtenstein

- Small country with 14 15 16 POTA parks and 9 SOTA summits
- Doubly landlocked 6th smallest country (62 square miles) – pop. < 39,000
- Results: 15/16 parks, 1/9 summits 304 QSOs.
 Several ATNOs













Čerchov, Czechia

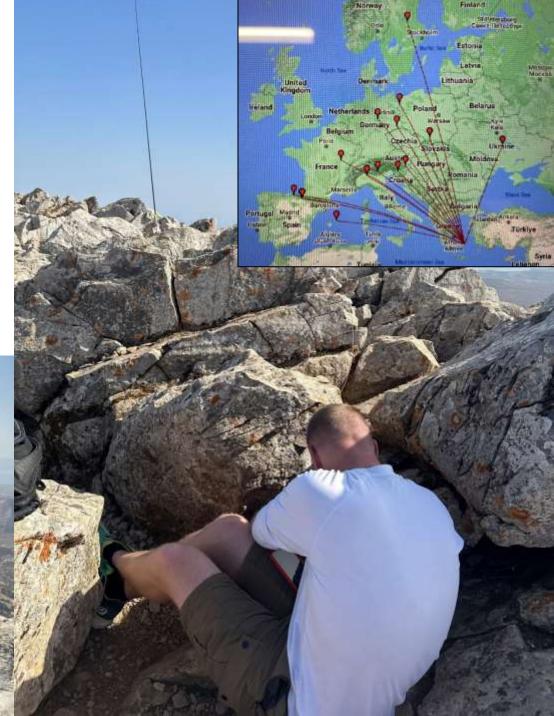
- Highest point in the Upper Palatine Forest of Czechia (1042m, OK/PL-088)
- Summit was used by the Wehrmacht and the Warsaw Pact for surveillance (2km from German border)
- Two towers, built in 1904 and 1987, among other structures
- Home to the OL3Y contest station (VHF)



Naxos, Greece

- Largest island is the Cyclades
- Hiked & activated Mt Zas, highest point in the Cyclades islands (SV/AG-001)
- Midnight activation of Sagkriou Naxou National Wildlife Refuge (SV-0191)

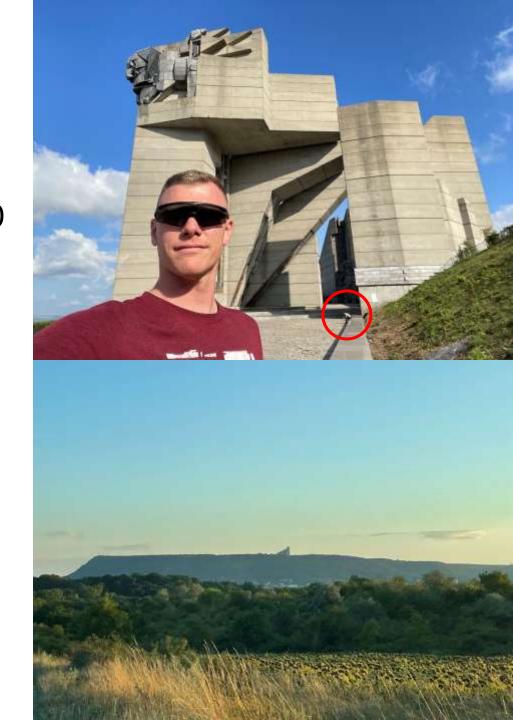




Shumen, Bulgaria

- Shumen dates to ancient times
- Founders of the Bulgarian State monument 1300 year history of Bulgaria, can be seen for 30km
- Activated two POTA parks on the Shumen Plateau (LZ-0014 / LZ-0025)







Lessons From My European Vacation

- Simple kit is better, practice to become familiar
- FT8 is not faster than SSB
- Being spotted = pileups (SOTAmāt)
- Research your planned operating sites in advance

- Be flexible conditions change
- 10 watts is enough
- Utilize good resources:
 - DARC CEPT Guide (English version)
 - POTA/SOTA web sites
 - AllTrails, Earth, Protected Planet













Backup Slides / Notes

Links To Resources

- DARC Guide https://files.darc.de/index.php/s/CKT38kZP6miK7xf
- CEPT Info http://www.arrl.org/cept
- Parks On The Air https://parksontheair.com/
- Summits On The Air https://www.sota.org.uk/
- QRPer.com https://qrper.com/
- SOTAmāt https://sotamat.com/
- SOTABeams https://www.sotabeams.co.uk/
- AllTrails https://www.alltrails.com/
- Protected Planet https://www.protectedplanet.net/en

QRP Station Details

Self Contained Xiegu X6100 QRP Station



- 1 Semi-hard side zippered case
- (2) SP4 POTA/SOTA paddles
- (3) Xiegu X6100 QRP transceiver
- (4) Earbuds / Moleskine notebook
- (5) K6ARK EFRW antenna, custom winder
- (6) GPS dongle and USB cable
- **7** Bioenno 3Ah LiFePO4 battery
- (8) Arborist throwline kit
- **9** RG316 feedline with choke / band plan

QRP Station Details

Portable Mast and Antenna Kit



- 1 Stakes and DIY mast base spike
- (2) K4ZSR "Credit Card" EFHW antenna
- (3) SOTABeams Carbon 6 mast
- (4) Decathlon storage pouch
- (5) Miscellaneous antenna kit items
- **6** 80m extension coil (tuned ~3.6mHz)
- **7** K4ZSR 40-10m EFHW, links for 17m and 30m
 - + Microsoft Surface Go 2 tablet
 - + RigExpert Stick 500 analyzer