Reception of 144 MHz beacons OY6BEC and IQ2MI in Tropo on July 23rd, 2021

Good Tropo conditions on Friday July 23rd, 2021 on 144 MHz.

Reception of the beacons IQ2MI in JN35WW (first time heard) and OY6BEC in IP62MD.

IQ2MI/B is the Europe highest VHF Beacon, located at “Capanna Margherita” refuge, at 4560 m asl. The power is only **500 mW** into a dipole !

Below, you can hear the recording of the beacon received on July 23rd, 2021. There is a transverter 144 > 28 MHz in front of the FT-857, so that the “real” frequency is 144.415 MHz, not 28.415.

Morse code translation :
V V V de IQ2MI/B JN35WW BAT 13.82V SUN 14.03V TIN 29C TOUT -32C www.arimi.it

Message format :
“V V V de IQ2MI/B JN35WW BAT nn.nnV SUN nn.nnV TIN xxC TOUT xxC www.arimi.it“

VBAT = battery voltage
VSUN = photovoltaic panel voltage
TIN = radio box temperature (°C)
TOUT = external temperature (°C)

You will hear that there is another beacon on the same frequency, it is DB0JW in JO30.
Well, I have some doubts about the outside temperature… -32°C mid day during the summer (even if the altitude is high) ?

Now, heading north to the Faroes Islands, the 2m OY6BEC is located in that radome, in IP62MD :