E77DX EME Expedice

144 – 432 – 1296 – 2320 – 3400 MHz

Why EME DX pedition?

- Main goal is give a chance to work for others with new DXCC and new locators.
- Follow up of 4O and Z3 EME DX EME pedition in 2008
- Prepare and test new technical solutions and possibilities.
- Demonstration of EME traffic in countries where EME is not common use ham radio traffic.
- Explain and demonstrate in visited countries that EME is not mysterious, but due to hard work and increasing technical knowledge very nice hobby.

Technical requests of pedition

Used units and antennas:

- **144 MHz -** FT847 with PA GI7BT approx. 300W RF out for JT65B / 450W CW, LNA with ATF 54143 22/0,5dB, 4x 7el DK7ZB
- **432 MHz -** IC7700 + TRV OK1DFC, PA1,8kW – 2x3CPX800A7, Dish 3,2m with dual dipole feed – OK1DFC ATF54143 LNA 0,36dB N/F, MicroHam, SPID rotor and GM4JJJ SW
- **1296 MHz -** IC7700 + TRV, PA 0,8kW – YL1330, Dish 3,2m, Septum feed – G4DDK VLNA 0,34dB N/F, MicroHam – SPID a GM4JJJ SW
- **2320 MHz -** IC7700 + TRV 145 MHz + TRV OK1DFC, SSPA 150W out, Dish 3,2m, Septum feed – G4DDK LNA 0,46dB N/F, MicroHam – SPID a GM4JJJ SW
- **3400 MHz -** IC7700 + TRV 145 MHz + TRV, SSPA 45W out, Dish 3,2m, Septum feed – G4DDK LNA 0,48dB N/F, MicroHam – SPID a GM4JJJ SW
- SDR 14 for 432 up

Technical requests of pedition

- LNA 70cm DFC ATF54143 – 23cm up G4DDK
- First use of SDR14 as a big help with station QRG localization
- Rotor AZ / EL – SPID – newly HB9DRI controller and PROSISTEL rotor
- Antenna: 144 MHz 4x YAGI 432 MHz up dish 3,2m
- Feeds: – 70cm Dual dipole – now newly loop feed, 23cm up Septum feeds
- Coaxial cables: Low loss 50 ohm CommScope
- Control station: Sequencer and MicroHam PC interface for JT
- Traffic: CW and JT65 for Big guns SSB also

Practical realization

- Find interesting locality and DXCC
- Find partners with good local knowledge in expecting locality, accommodation, hospitality with installation antenna, electricity connection - E7DX Braco
- Preparing road plan, transport logistics, working with duty office in country, paperwork
- Test all units before wrap up, measuring all known species of technical parameters
- EME DX pedition realization

E77DX HF contest QTH

Sunday 12.07.2009

- 05:00 departure from OK1DFC QTH
- 18:00 arriving to Prijedor E77DX QTH
- 18:30-22:30 Build and test 144 MHz
- 18:30 – 22:30 Build and test 3400 MHz
- 22:30 up – meeting with E77DX team

1st night 13. – 14.07.2009

- Full traffic 144 MHz

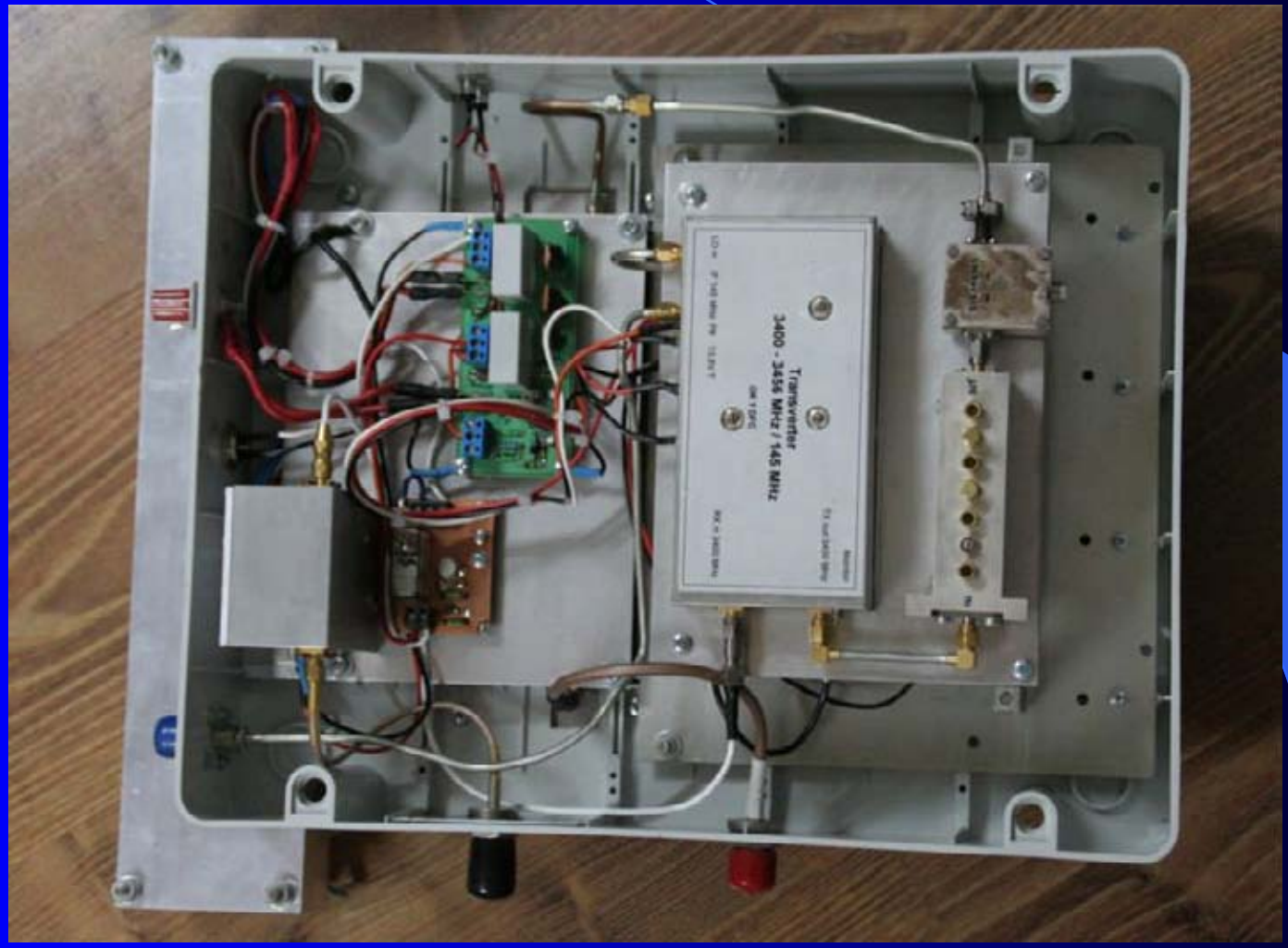
ZS2GK, SP2OHF, JH0MHE, I2RV, ZL3TY, OZ1LPR, UA9YLU, CT1HZE, UA4PQL, SM5CUI, PA3DOL, DK5SO, ES6RQ, DL9MS, OM3BC, SV8CS, HA0HO, DK8ZJ, DL1DWI, OH3KLJ, HA6NQ, S52LM, W5UN, G4ZFJ, DF2ZC, DF7KF, ZS6OB, RA6AX, F6APE, UT6UG, AA7A, DM1CG, K1OR, F1DUZ, RN6BN, F6HVK, DK4TG, F8DO

- Full traffic 3400 MHz

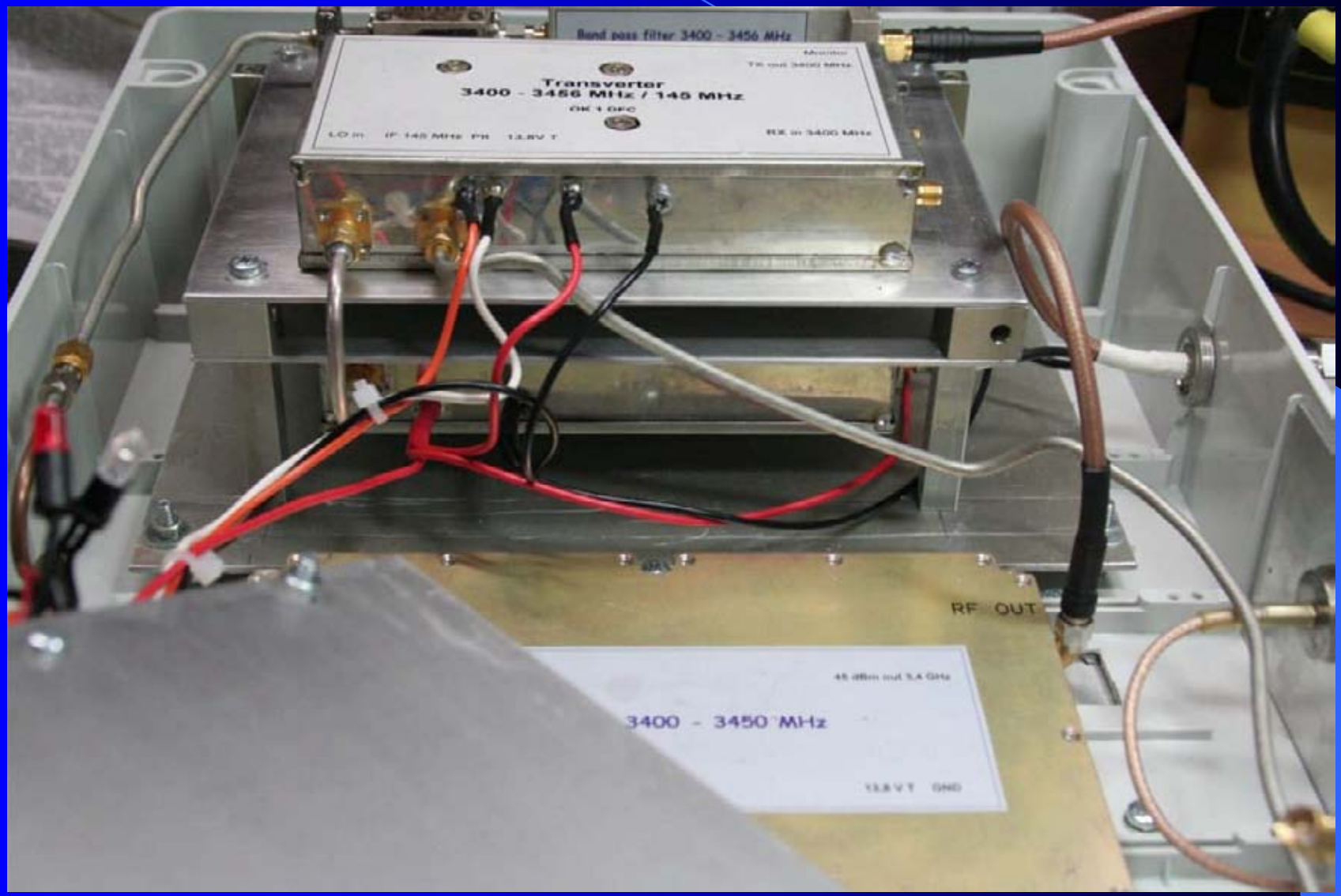
OK1KIR, OZ6OL, G3LTF, W5LUA, OK1CA, G3LTF DUPE, LX1DB

3,4 GHz unit

3,4 GHz unit



3,4 GHz unit


Band pass filter 3400 - 3456 MHz
Transverter
3400 - 3456 MHz / 145 MHz
RF OUT
3400 - 3450 MHz


IBM
29.099.92
DELL


BEKO

2nd night 14. – 15.07.2009

- Full traffic: 144 MHz – partly no LNA

JE1TNL, RX1AS, SW8KOU, YU7XL, RU1AC, IK1FJI, EA1YV, OK1CU, DJ3VI, YO9FRJ, UA3PTW, DL2LAH, SM7GVF, F6HVK, OH7PI, PA0JMV, PA3FPQ, K2BLA, DO1ERS, DP5G, DL8GP, PA3CMC, HA0HO, OH7PI, PI9CM

- Full traffic: 2300 MHz

IK3COJ - tropo, ES5PC, OK1CA, SP6GWN, DL1YMK, OK1KIR, OH2DG, LZ1DX, OZ4MM, PY2BS - JT, PY2BS, G3LTF, W5LUA, LX1DB, HB9Q, SV3AAF, WD5AGO, F2TU, OE9ERC, K7XQ - JT, OE9ERC – JT

3rd night 15. – 16.07.2009

- Full traffic 144 MHz – NO LNA !!!

JR3REX, JM1WBB, PE1L, SP2NJI, OH2LHE, JS3CTQ, JM1GSH, G4EZP, RU3GX, PE1LWT, G4CBW, SM5DIC, G8VYK, PA3CSG, EA2AGZ, PA1GYS, RU1AA, PA3FPQ, RZ4HF, K9MRI, HB9Q, AA4SC, WA3QPX, KB8RQ, WA3BZT

- Full traffic 1296 MHz

VK3UM, SP6JLW, OK1KIR, OZ6OL, OZ4MM, JA4BLC, ES6RQ - JT, ES5PC - JT, PA3FXB - JT, LZ1DX, ES5PC, RD3DA, OE9ERC, DJ9YW, PA3CSG, DF3RU, PY2BS - JT, F2TU, K1RQG, IK3COJ, DF9QX N.C.,G3LTF, K5JL, IZ1BPN, K2UYH, G4CBW - JT, SV3AAF, DF9QX, LX1DB, G4DDK - JT, G4CCH, K2DH, W5LUA, VE6TA, G4CCH - JT, HB9Q

4th 16. – 17.07.2009

- Full traffic 144 MHz – LNA back TNX S57UUU

ZL2DX, RK3FG, VK4CDI, OK1UGA, DH3YAK, RA9YDL, DK5LA, F6HVK, OH4LA, S52LM, OK1MS – CW, F1TE, I3EVK, RU1AA – CW, YO9HP, SP7DCS - CW

- Full traffic 1296 MHz

UA3PTW,, DL7APV, OZ4MM, VK3UM, SP6JLW, DL9KR, OK1CA, OK1KIR, LZ1DX - JT, OK1KIR - JT, I1NDP - JT, PA3CSG - JT, I1NDP, G3LTF, PA3CSG, G4RGK, HB9Q - JT, F2TU, K2UYH - JT, K2UYH, DF3RU, SV8CS - JT

5th 17. – 18.07.2009

- Full traffic CW on 144 MHz

JH8CMZ, SV1BTR, UA3PTW – CW

- Full traffic 1296 MHz

SK6OSO, VK4CDI - JT, RD3DA - JT, JA6AHB - JT, OK1KIR - JT, PA3DZL - JT, SM5CFS - JT, K5GW, ON7UN, SV1BTR

Other traffic brake due to big storm

What will be next ????

- ZA ?
- IS0 ?
- ZB2 ?
- TK ?
- 5B4 ?
- YU8 – Kosovo ?

Thank you for you attention and see you via Moon soon again !!!