EME @ DL6SH in JN48SW

from tropo to moonbounce







About beginning

Georg DF1SR asked me:

Slawek can I park my small dish in your location for a while?

Results see next slides...



First operation via moon on 1296

Heard some ON7UN very strong in cw (when on moon not in this position)

Made 12 qso's with big guns in 2008 with that dish:

3m Solid Dish DF1SR f/d 0,4 DG0VE ATV preamp Nf= 0,8 dB Pout=250W

No readouts, using moon shadow



First own dish in 2009

3 m Mesh Dish f/d 0,32 Nf = 0,48 dB Pout=250 W

Moon shadow "controller"







First improvements

3,7 m Mesh Dish f/d 0,26 Nf = 0,4 dB Pout=250 W

Moon shadow "controller"





Looking for better dish

found a nice 4,8 dish at Zdenek OK3RM near
Pilsen not very far from Prague

The story:

Asked are you willing to sell? *Yes maybe..* When I can come over for pick up? *Everytime as you want* OK, I will come tomorrow! *No answer.... after a while OK OK*

Was there at 09:00 in the morning after a trip of 300 km with my trailer Dish and support was in my trailer after at evening -> very happy!

Building up the Eme Tower







All builders work made by my self alone Using mainly my hands only 8 m^3 of concrete homemade Tower from German railway

New 4.8m dish





4,8 m Mesh Dish f/d 0,40 Nf = 0,4 dB Pout=250 W First QSO october 2010 Lots of people helped put this together

4.8m dish converted to 6.5m

6,5 m Mesh Dish f/d 0,30 $Nf = 0,4 \, dB$ Pout=250 W

In operation 2011

BUT:





End of 6.5 m dish in December 2011





What to do now?

Dish destroyed Operator frustrated

End of EME adventure? -> NO!

Slawek will look for a new dish



A new dish has to be build

- ordered a 6 m dish at OK3RM
- much bigger dish support tube made by DF1SR & friends
- While inspecting the EME tower I realised that there was sufficient space for even a bigger dish
- After some calculations I decided to increase the Dish Diameter by 1m.....all by myself
 But in radius of course
- Lots of Hams and Non Hams helped in this Project

New 8m dish



8m dish in winter

8 m Mesh Dish f/d 0,30 Nf=0,2 dB Pout=500 W on 1296 MHz

A more secure and safe Parking position to prevent any future catastrophes



Feed access



144 MHz operation

• OK1DFC ring feed







432 MHz operation

OK1DFC ring feed



1296 MHz operation



Shack







Gearbox system OK2DL





Statistics

- 144 MHz: 2 CW inits, over 270 JT inits
- 432 MHz: 41 CW inits, 11 SSB inits, over 100 JT inits
- 1296 MHz: 170 CW inits, 73 SSB inits, over 170 JT inits
- 5760 MHZ: 10 CW inits, 1 SSB

Some eme travelling





Next project

• Big dish: help need please contact Slawek



Thank you!

Any Questions?