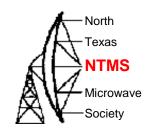


G4FRE activity update for 2024

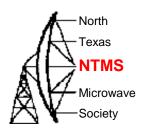
Dave Robinson G4FRE, WW2R

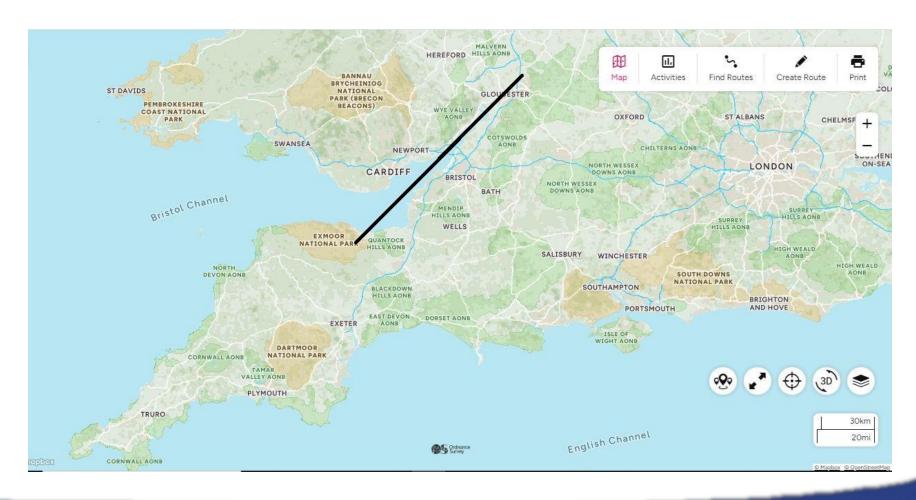
7 December 2024



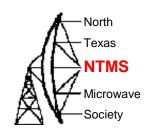
#### DATV DX

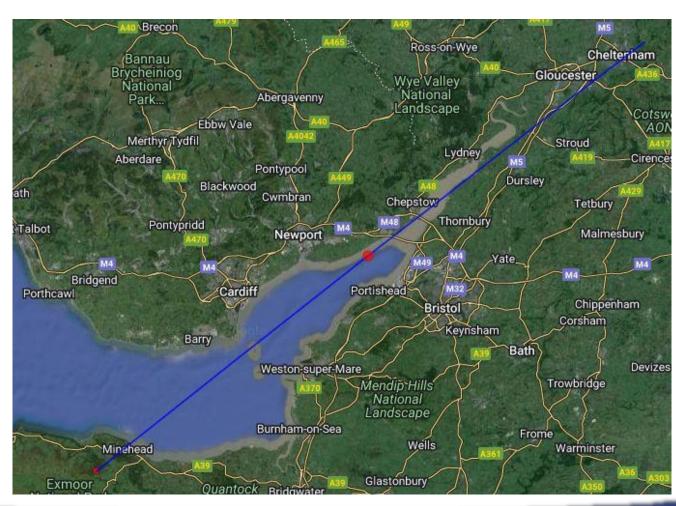
## Geography



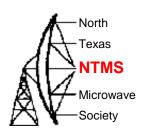


#### The Path 136km



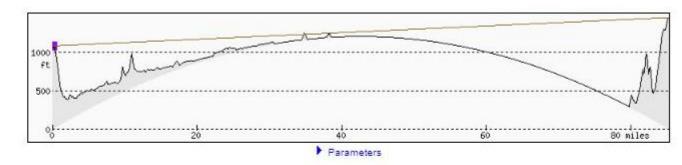


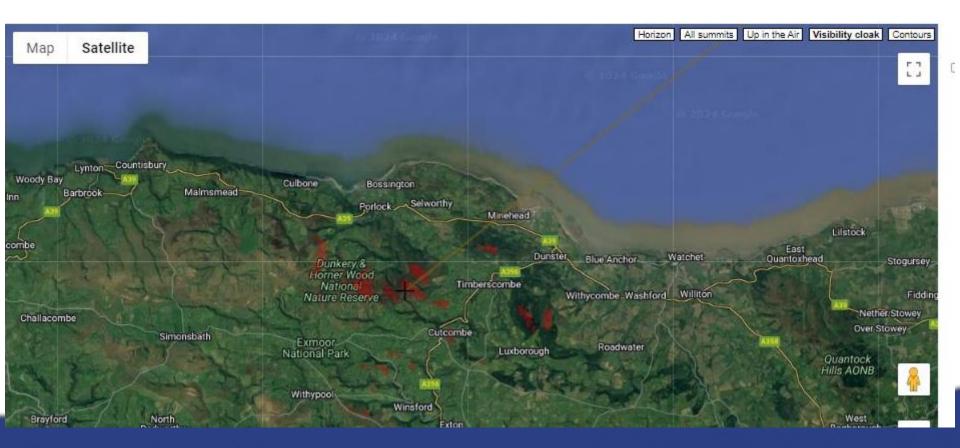
# Previously worked on 24GHz DATV from IO81XW81 136km



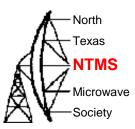








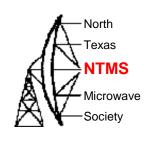
# Decided to go and experience the other end!





Also try to extend 76GHz UK NB record

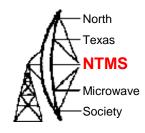
# Roadside Location Previously used by G8GTZ





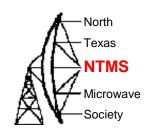
Worked G8CUB/P 24GHz NBFM and 47GHz SSB Too much moisture for 76GHz

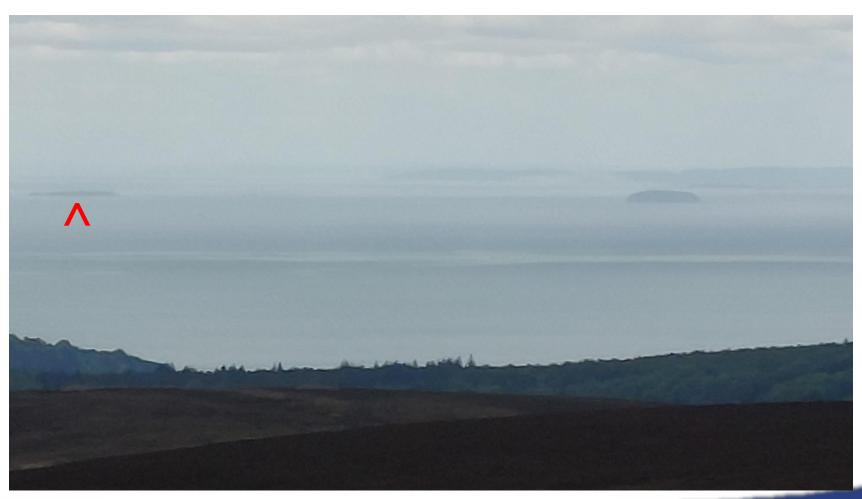
## View back to IO81XW



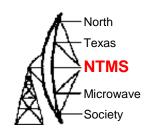


## The Island Blockage (left)

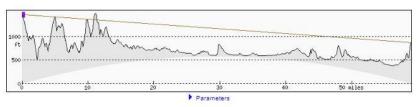




#### While I ws there...



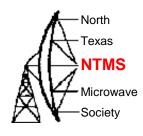
# Worked IO80UU at 96km on 24GHz DATV Worked IO80UU at 96km on 47 GHz CW (Both obstructed paths)



Horizon All summits Up in the Air Visibility cloak Contours 265° Dunkery Hill Satellite 350° Black Mountain 49 miles 0 ft Ellwood Cottages The Victorian (Bearings are true; for magnetic bearings subtract 0° or click here) show alts Woolland Bullbarrow Hill Cuckoo Ln Blandford Forum Stoke Wake DT11 0HO Willow Tree Farm United Kingdom View on Google Maps Bulbarrow

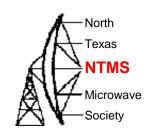
Hide profile 1

Show profile 2



#### IARU TV contest 2024

## IARU TV 2024 Day 1



#### Started at IO81XW

- Worked G8GTZ/P IO81FD on 5 10 and 24GHz 136km
- Worked G4XAT/P IO91GI on 5 10 and 24GHz 76km

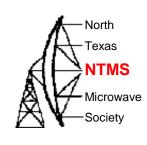
#### Went to IO91BV

 Worked G4XAT/P IO91GI on 5 10 and 24GHz 67km

Drove 80 miles to a hotel near IO91GI



## IARU TV 2024 Day 2

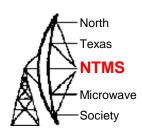


#### Went to IO91GI25 Combe Gibbet

- Worked G4XAT/P IO91GI on 5 10 and 24GHz
- Worked G8GTZ/P IO91GC on 5 10 24 47 and 76GHz (28km)
- Worked G8GKQ/P IO91JA on 5 10 and 24GHz (41km)
- Worked G8GTZ/P IO91JI on 5 10 24 47 and 76GHz (35km)



## IARU TV 2024 Day 2





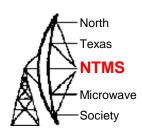
76GHz

47 GHz





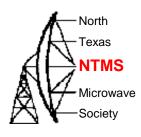
## On the way I visited G4XAT/P







#### 1091GI61

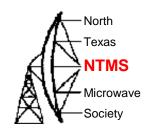


## Went to IO91GI61 Combe Masts Worked G8GTZ/P IO90MX on 5 10 24 47 and 76GHz



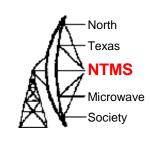


54km UK 76GHz DATV Record



#### **Construction Projects**

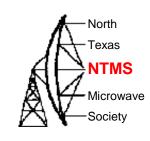
## FT817 battery pack



- FT-817 battery holder with BMS:
   <a href="https://www.thingiverse.com/thing:4551923">https://www.thingiverse.com/thing:4551923</a>
- Files for Holder and replacement lid (taller batteries) to 3D print provided
- BMS battery terminals from aliexpress \$4
- Important to add wire from battery negative to BMS negative terminal or battery pack doesn't get turned on at FT817 turn on



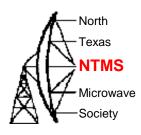
## FT817 Li-ion (18650) Battery Power







#### Portable GPS 10 MHz

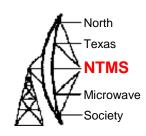


- Self contained (no cables to lose or damage)
- Jackson labs GPSTCXO(TAPR bulk buy 2012)





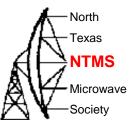
# Latest toy (arrived Yesterday) SDRPlay nRSP-ST

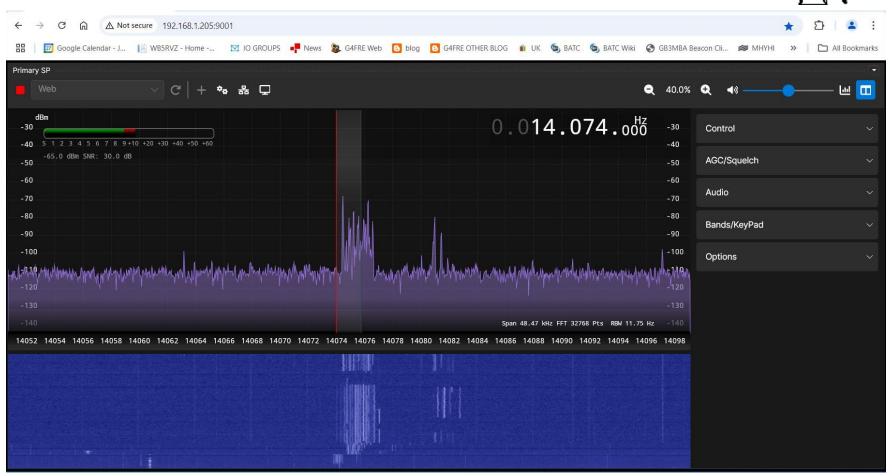




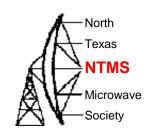
1kHz to 2 GHz, REMOTEABLE WITHOUT PC!

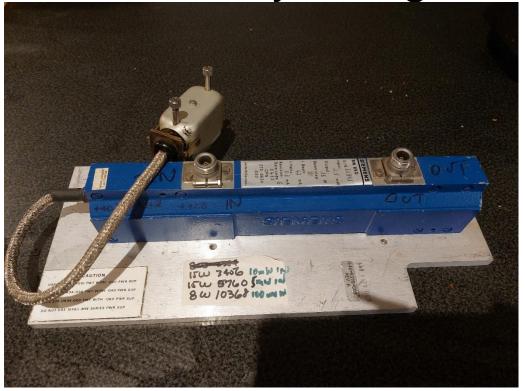
#### Built in web interface



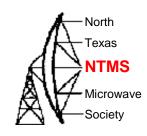


## W5LUA may recognize this!





Still gives 12/10/7W after 15 years usage Apply 6V from DC Power supply for 24 hours to heaters if left unpowered for more than a month or you WILL KILL the Siemens power supply on power up!



## Questions?