Propagation

Are you putting out RF and is it going where you need it to go?





13 Colonies Bingo Card

(The Targets)

14th Annual 13 Colonies Special Event





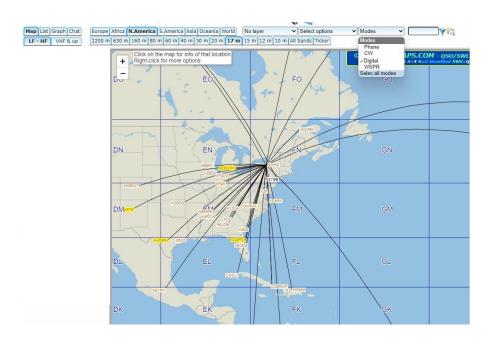


Use The Tools

(1894 meets 2022)

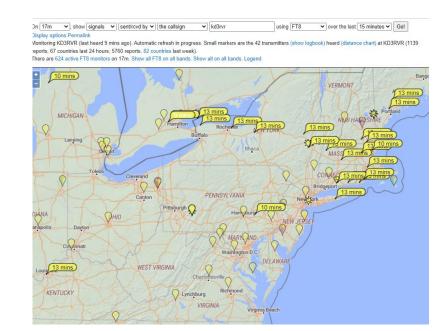


Phone App
"Band Conditions"



DX Maps





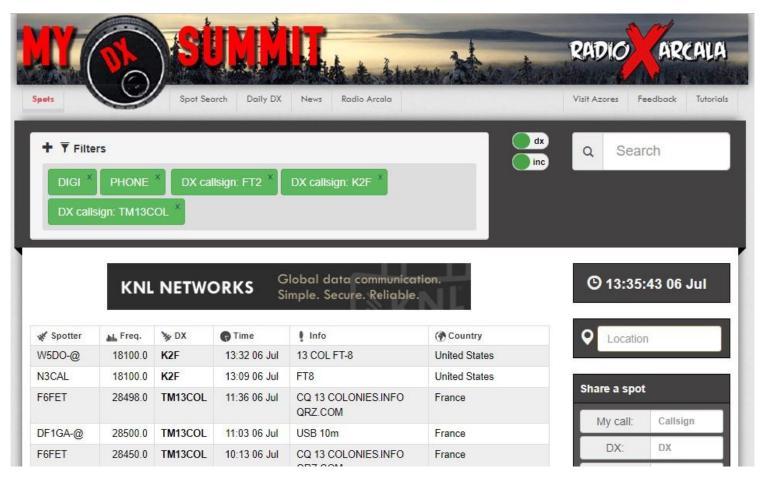
PSK Reporter





The Spot

(Is your target out there and where)

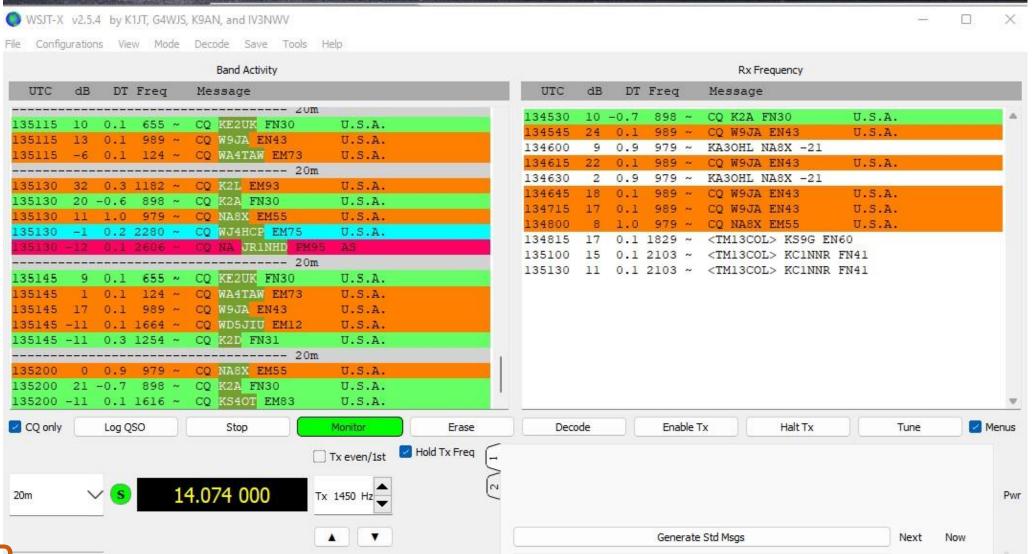




DX Summit



I Can See My Target's Conversations with Others

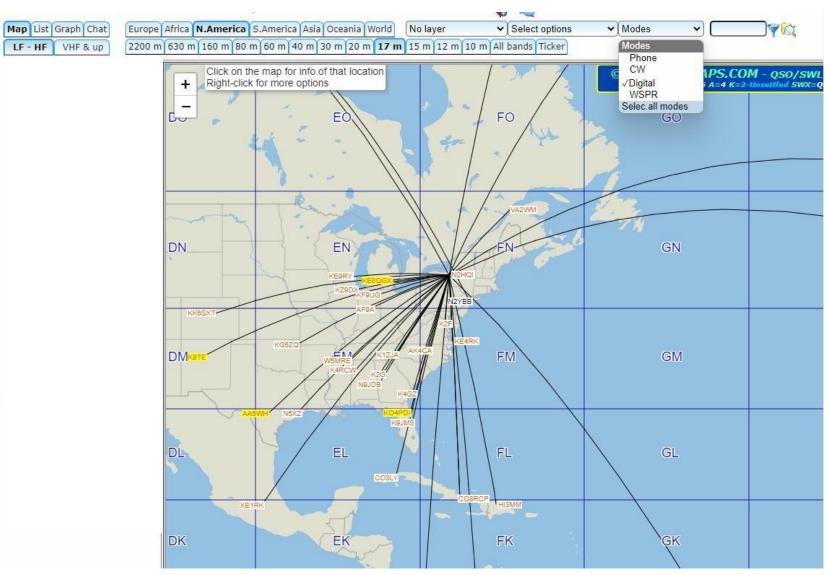






The Plan

(Can I get there from here)



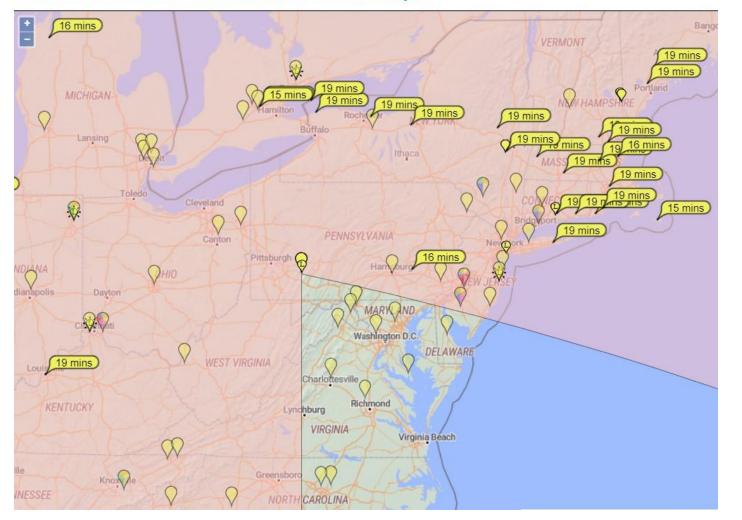




What About My Signal from My Antenna?

(Proving out DX Maps with PSK Reporter)









13 Colonies Log Summary

Rec#	Call	Date / Time	Bnd Mode	Power Snt	Rec	Off	Country	ST	County	Name	Other	S	R	Comments	Frequency
8	GB13COL	2022/07/04 10:47	20 FT8	35 +15	-13	10:48	England					N	N	FT8 Sent: +15 Rcvd: -13	14.076
6	K2A	2022/07/02 22:23	40 FT8	35 +12	+03	22:24	USA					N	N	FT8 Sent: +12 Rcvd: +03	7.076
4	K2B	2022/07/02 16:59	40 FT8	35 +33	+05	17:00	USA					N	N	FT8 Sent: +33 Rcvd: +05	7.076
13	K2C	2022/07/04 18:26	20 FT4	35 +19	+00	18:26	USA					N	N	FT4 Sent: +19 Rcvd: +00	14.081
10	K2D	2022/07/04 15:56	40 FT8	35 +11	+07	15:57	USA					N	N	FT8 Sent: +11 Rcvd: +07	7.075
9	K2E	2022/07/04 13:00	40 FT8	35 +05	-05	13:04	USA					N	N	FT8 Sent: +05 Rcvd: -05	7.075
16	K2F	2022/07/07 12:26	17 FT8	35 +27	+06	12:27	USA					N	N	FT8 Sent: +27 Rcvd: +06	18.101
2	K2G	2022/07/02 16:51	20 FT8	35 +24	-13	16:52	USA					N	N	FT8 Sent: +24 Rcvd: -13	14.076
3	K2H	2022/07/02 16:56	40 FT8	35 -09	+04	16:57	USA					N	N	FT8 Sent: -09 Rcvd: +04	7.076
12	K2I	2022/07/04 16:38	20 FT4	35 +10	-02	16:39	USA					N	N	FT4 Sent: +10 Rcvd: -02	14.081
11	K2J	2022/07/04 15:58	40 FT8	35 +03	+02	15:59	USA					N	N	FT8 Sent: +03 Rcvd: +02	7.075
7	K2K	2022/07/03 19:40	20 FT8	35 +21	-07	19:41	USA	NH	Hillsborough	13 Colonies		N	N	FT8 Sent: +21 Rcvd: -07	14.076
1	K2L	2022/07/02 16:48	15 FT8	35 +01	+10	16:49	USA					N	N	FT8 Sent: +01 Rcvd: +10	21.076
5	K2M	2022/07/02 17:02	40 FT8	35 +24	+00	17:03	USA					N	N	FT8 Sent: +24 Rcvd: +00	7.076
17	TM13COL	2022/07/07 00:28	20 SSB	100 59	59	18:58	France					N	N		14.295
15 —	►W9MDB	2022/07/07 11:58	20 FT8	35 -24	-17	12:02	USA					N	N	FT8 Sent: -24 Rcvd: -17	14.075
14	WM3PEN	2022/07/05 21:27	30 FT8	35 -20	-21	21:29	USA					N	N	FT8 Sent: -20 Rcvd: -21	10.137

Total Targets = 16 (13 Col, Philly, GB, FR)

Total Contacts = 17

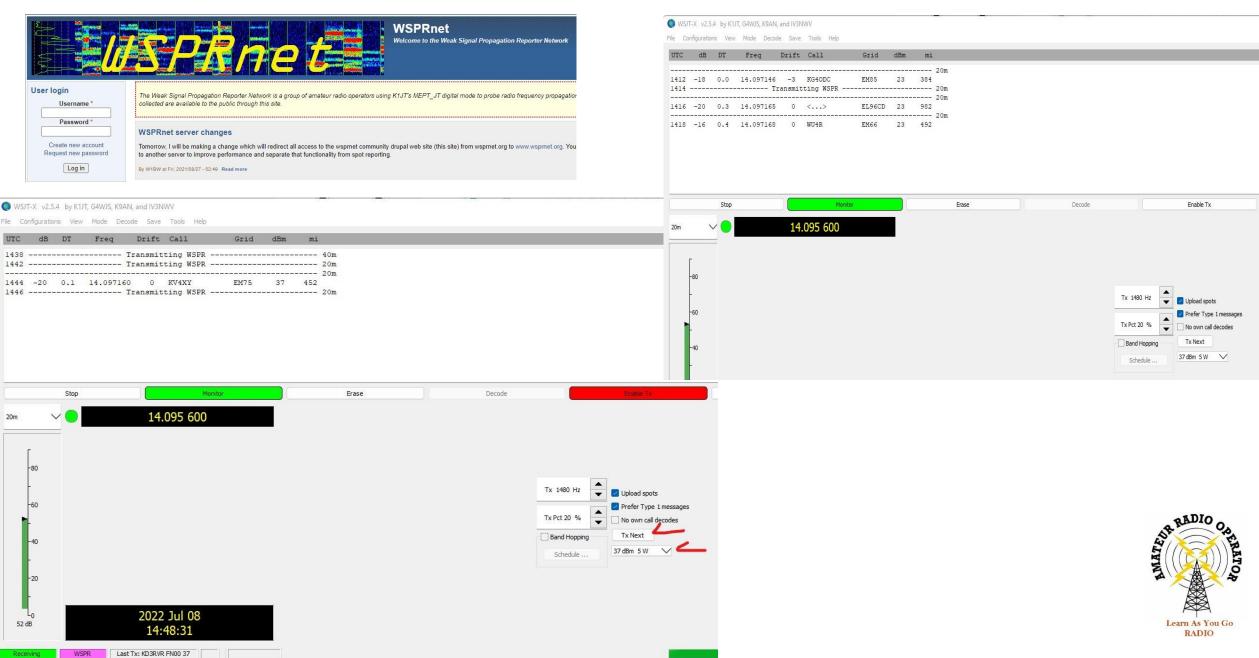
- 7 on 40m
- 1 on 30m
- 6 on 20m
- 1 on 17m
- 1 on 15m





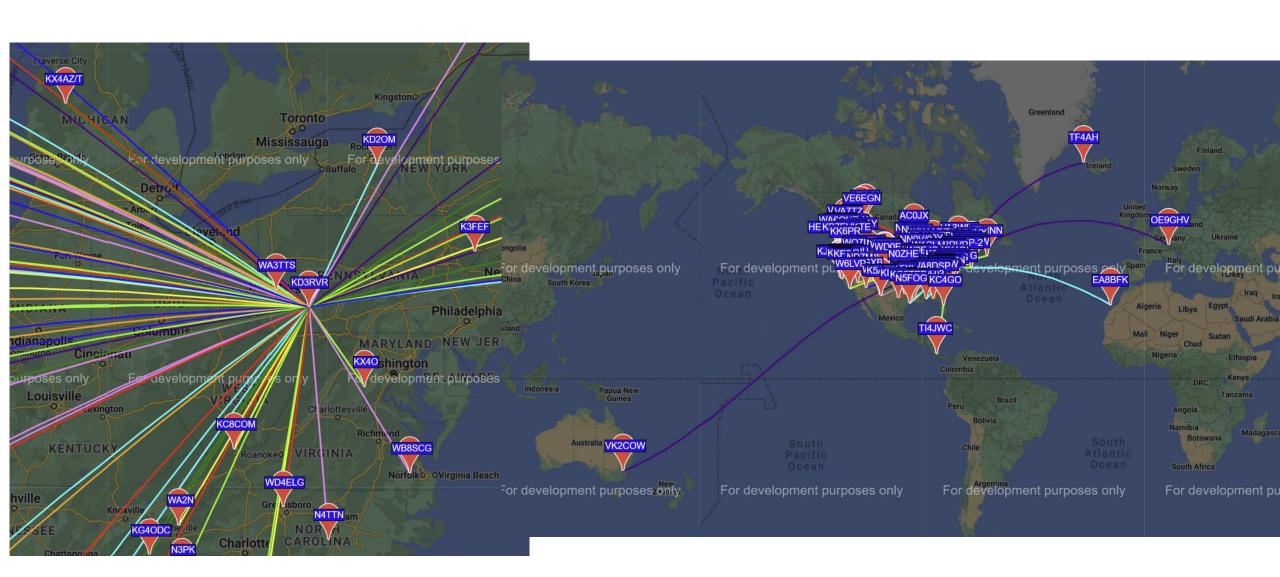
^{*} All but France on digital modes

WSPRnet



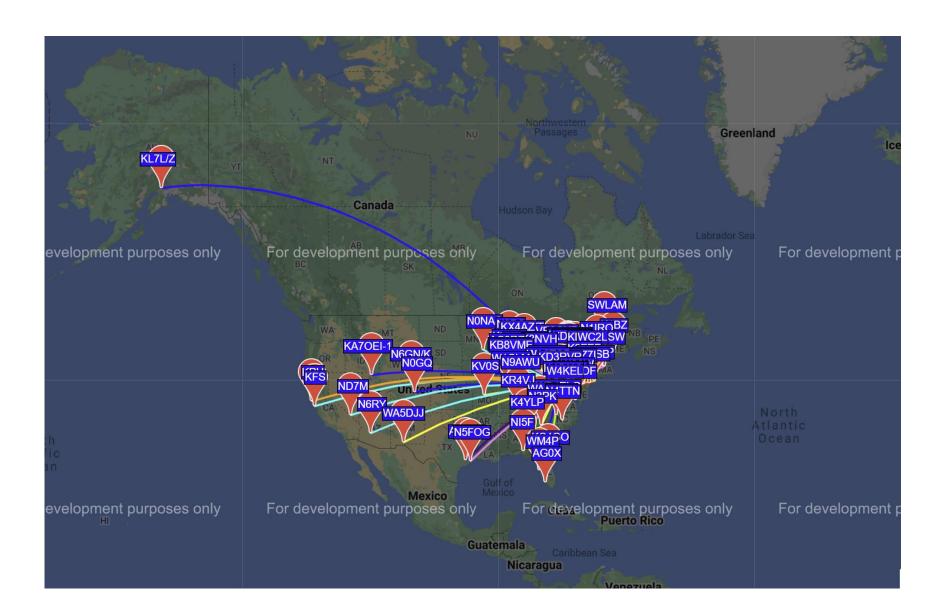
WSPRnet Maps

20 Meter TX



WSPRnet Maps

40 Meter TX







Understand the Bands

(May the Bands be with you)

160/80M

These are essentially nighttime bands, so you can forget about them during daylight hours except for local communications. In the summer, they're sometimes plagued with lightning static from storms. But in the winter, they're much quieter and good bands for contacting Hams across the U.S. and worldwide, especially if you have a good antenna and an amplifier.

60/40M/30M

I've grouped these bands together because they have similar characteristics. They're usable for daytime communications, but they're usually best at night. If you're a CW fan, you'll find lots of company on 30M. Sixty meters has five channels, but you can operate SSB, CW, and digital modes. 40M is one of the most popular bands, and it provides some good DX opportunities—listen in and you'll probably hear someone at any time of day.

20M/15M/17M

These are best for daylight DX, especially around sunrise and sunset. Sometimes they're active well into the evening, depending on conditions. These are the bands to be on when working stations around the world, particularly at the peak of the sunspot cycle.

10M/12M

Ten and 12 meters are primarily daylight bands. But at peak times of the solar cycle, they can be alive with long-distance signals appearing well before sunrise and continuing into the night. Even during solar minimums, these bands still have DX possibilities. Sporadic E propagation can bring signals from a hundred to many thousands of miles away, occurring mainly as a seasonal event in late spring through summer.

6M

Six meters is known as "The Magic Band" and has characteristics of the HF and VHF bands. This is a great band if you don't mind having frequent surprises courtesy of Mother Nature. There's tropospheric propagation, aurora, meteor scatter, trans-equatorial propagation, sporadic-E propagation, and, of course, the sunspot cycle. One minute, there's nothing on the band. Suddenly, there are signals everywhere. You can expect local SSB coverage of 100 miles or more, and plenty of skip with band openings when conditions are favorable.



On All Bands

Thank You

Open for Questions, Comments and Input



