



The
Wave Bender



April 2020

ADDENDUM



APOLOGY

While I thought I was helping I find I was taken in by false info. How do you know what to believe? Anyway. A good friend from Salem pointed it out , so my apology - maybe this will be of more help, Sorry if I caused you any problems

I found info (That I included in the April Wave Bender.) that said the info about coronavirus is not true and could be harmful.

<https://www.health.com/condition/infectious-diseases/coronavirus/self-test-for-coronavirus>

73, Don, NN8B

Also from a trusted site:

Coronavirus - What You Need to Know
By WebMD News Staff

https://www.webmd.com/lung/news/20200303/coronavirus-what-you-need-to-know?ecd=wnl_spr_032220&ctr=wnl-spr-032220_nsl-

[Bodymodule_Position1&mb=Z6KN4i5jmLGmHu3TCV9xeipiMzVEF17P%40HaiRKtDjIM%3d .](https://www.webmd.com/lung/news/20200303/coronavirus-what-you-need-to-know?ecd=wnl_spr_032220&ctr=wnl-spr-032220_nsl-Bodymodule_Position1&mb=Z6KN4i5jmLGmHu3TCV9xeipiMzVEF17P%40HaiRKtDjIM%3d)



Mahoning County ARES Update

Like all organizations, MC ARES is adapting to life with the Corona Virus. Here is a roundup of what is coming up.

Ohio ARES Annual Meeting. Each year The Ohio Section of ARES holds a meeting of all the county teams. The meeting this year was scheduled for April 4 but has been cancelled. In place of the meeting, each county has been asked to participate in a multi-mode all Ohio check in net. The nets are scheduled as follows:

On April 4th

11 AM: Checkin net on 40 meters 7.240 +/- QRM

11:30 AM: Checkin net on 80 meters 3.902 +/-

12:15 PM: Checkin net on 80 for OHDEN 3585

1:00 PM: Checkin net on DMR Ohio (3139) and Fusion "Ohio Link: 31399"

In addition, Mahoning County is doing a local check in net on the 146.745 repeater between 9:00am and 10:00am. We are asking all Amateurs to check in and provide their location, the type of antenna and power level they are using.

In announcing this activity, Stan Broadway N8BHL, Ohio Section EC, commented:

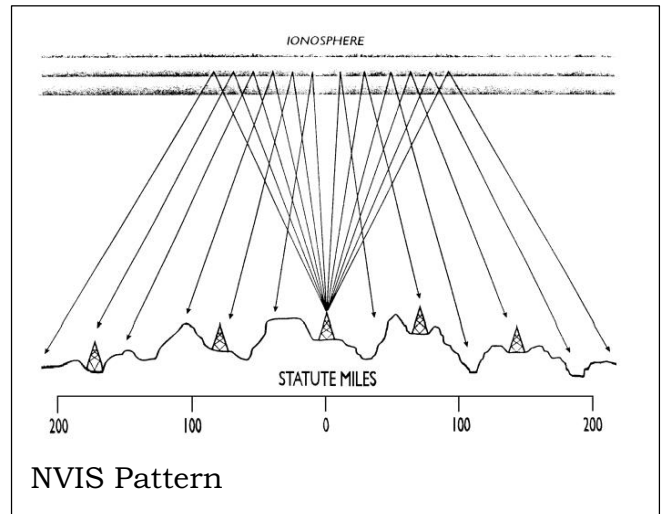
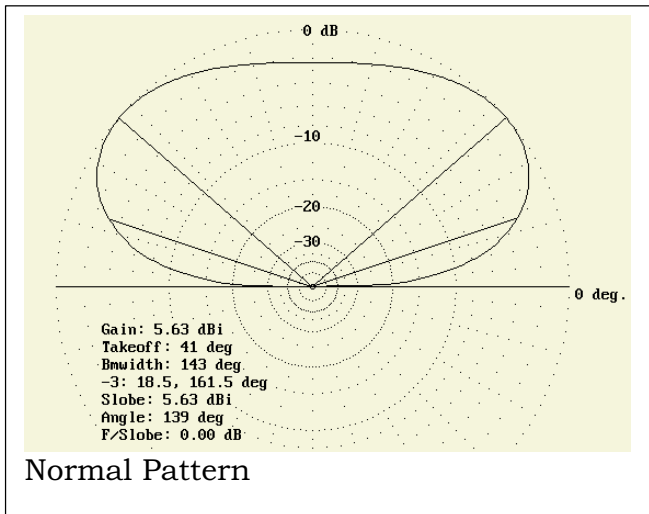
Let's imagine for a moment that it really does hit the fan. The Governor shuts everything down. Nobody moves (except responders). This is a situation where we might easily become very important!

Stan was a couple days ahead of the curve – as we now know this is exactly what is happening.

NVIS Day. April 25 is Ohio ARES NVIS day. The last communication from Stan was that NVIS day would continue but should be done in small groups from homes. Since then Ohio has notched up the restrictions on groups and ordered all Ohio residents to stay at home. In light of that, Mahoning County will participate in NVIS day, but as individuals from our homes. Please do not invite other Hams to join you.

The purpose of the event is to get volunteers thinking about how to communicate within the state. Normal VHF/UHF rigs are mostly limited to less than a 50 Mi radius even when using a repeater and are considered to be line-of-sight. For greater distances we rely on the HF bands and SSB/CW/DIGI. The rub is that most vertical and horizontal antennas for HF have a relatively low launch angle. Check the attached diagram for a pattern with greatest strength at an angle of 41°. The problem is the signal is weak for stations that "under" the pattern, and frequently creates a situation where you can easily talk to Texas but can't copy Columbus. NVIS antennas are designed to have a very high launch angle that shoots almost straight up, hits the Ionosphere, and is returned to earth in a cone shaped pattern that does a better job covering stations within a couple hundred miles. See the pattern in the second drawing.

ARES UPDATE - CONTINUED FROM LAST PAGE



What do you do to get an NVIS pattern? The good news is it's not hard and can be as simple as taking an existing antenna and lowering it to only 10'-15' above ground. You can find details on the DX Engineering Website here:

<https://www.dxengineering.com/techarticles/miscinfo/learn-how-to-build-a-nvis-antenna> and on the Ohio ARES website here:

<http://arrrl-ohio.org/SEC/nvis.html> . A search for NVIS Antenna on your favorite search engine will also give about 120,000 web pages dealing with NVIS.

This event is open to all interested Amateurs and runs from 10:00am to approx 4:00pm, primarily on 40M & 80M SSB. As with most events of this nature you can expect most of the activity between 10:00am and noon or a little after. We hope you will try out a NVIS antenna.

73 Dave, KD8NZF

NEW PODCAST FROM EASTERN PA ARRL "THE FUTURE OF AMATEUR RADIO"

We're just in the process of releasing this podcast now. And as soon as Apple iTunes recognizes it we'll have a major social media platform blast, but I thought all of you would appreciate where we're going with our new series "What Hams Do."

In this first episode we juxtapose the very different reasons two young hams got into amateur radio. One's a hacker, and the other, an 11 year old scout. Let us know what you think about it:

<https://epa-arrrl.org/what-hams-do-podcast-episode-1/>



You can subscribe through your favorite podcast distributor (iTunes in a couple of days) and via RSS feed right to your browser. Please share this, especially with your non-ham friends.

Thanks, Jay Silber (WA2UAR)
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