ENY SECTION NVIS ANTENNA TEST DAY
4/27/19  10 am to 2 pm, 730-830pm
ANCHOR STATION INFO

Rensselaer County ARES-RACES, K2REN portable in North Greenbush, NY 3.900 Mhz
Antenna: Link dipole at 12 ft with link coils for 160 m 1.900 Mhz

K2KGJ Hillsdale, NY Columbia County 3.977 Mhz
Antenna: 75m: 80-10 trap dipole at 30’ to 40’
          160m: 160/80 OCF at 90’, ends at 30’ and 20’

WA2FON Niskayuna, NY Schenectady County 3.970 Mhz +/-
Antennas: 75m: coax fed, ½ wave dipole at 10’, ½ wave 75/60/40 fan dipole at 37’, OCF dipole at 55’. All flat top.
          160m: coax fed dipole at 60’ Frequency 1.935 Mhz+/-

Anchor stations are requested to remain on air for the whole event.
Please stay at 100 watts for the event except for the low power segment.
Please remind stations to set their power accordingly, and what antenna info you are seeking.
Encourage all stations to submit a log and summary to nviseny@gmail.com

Please keep a detailed log sheet of contacts including signal strength, County, and antenna type and height. I will post a sample log. Please send a copy of your log to nviseny@gmail.com

You may have to coax antenna details out of stations that did not hear the announcements, so repeat often.

Antenna info sought:
Call, Signal reports, County, Antenna design, Height of antenna, any notes, your noise floor
Antenna Type: Dipole- flat top or inverted V, AS-2259?
End Fed- Flat, Slant, Inverted L?
Loop- full wave, magnetic loop?

Other antenna designs

Mobile- whip? Vertical or folded over? Cap hat? Stationary, ¼ wave wire to feed point?

Height of antenna

SCHEDULE/PROCEDURES

10 am Start event, announce purpose and procedures and schedule. See sample script.

Anchors may check in and announce a frequency they will operate on, and QSY to take calls from stations. Anchors may message WA2FON or self spot.

Spotting is OK. Something like “NY NVIS Anchor”.

Suggested call “CQ NY NVIS antenna test” “this is (your call), Anchor station for the NY NVIS test day.”

Log exchange info.

Remember, Ohio is also running their NVIS day, so mention NY.

11 am WA2FON announces and then transmits on 3 dipole antennas at different heights to demonstrate to listening stations the effect of height on gain. This may be more pronounced at reduced power, so I’ll try it again during the low power segment at 1230pm.

All stations listen and log the signal strength of each antenna.

Please announce this test on your frequency shortly before 11 am.

Continue exchanges at 100 watts. At end of demo, WA2FON returns to primary antenna at 100 watts.

12 pm Low Power segment all anchor stations announce and all stations reduce power to 10 watts. Continue exchanges. Increase power some if nobody can hear. 10 watt increments. See script.

1230 pm WA2FON will again transmit a comparison of antenna heights at low power.
1230 pm If conditions are poor and/or contacts hard to come by, power back up to 100 watts.

Continue calling for NVIS contacts and spotting

1 pm  160 m segment. A brief check of conditions on 160 for those who have the equipment. Frequency to be announced on 75 m. WA2FON at 1.935+/- Anchors may join or choose their own frequency. Self spot or ask me for a spot.

Return to 75 m at 100 watts until 2 pm.

2 pm End day shift.

At 730pm, return to one frequency on 75 m to check conditions and make a few contacts, then go to 160 to compare bands.  3.970 Mhz +/-, 1.935 Mhz +/- Spot.

830 end

Remind all stations to be at 100 watts and send a copy of their log (and yours) with summary and comments to  nviseny@gmail.com

Thank you for your participation.

Rev. 4/12