



# N.E.W.S. LETTER



**The Publication of the North East Weak Signal Group**

JULY 2007

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Pres: N1JEZ, Michael Seguin  
V P: KA1OJ, Mark Foster

CURRENT OFFICERS

Secretary: W1GHZ Paul Wade  
Treasurer: WA1MBA Tom Williams

## NEXT MEETING

**SATURDAY SEPT 29TH**

**WA2VNV WILL SHOW US HIS NEW MAST MOUNTED  
SWITCHED PREAMP SYSTEM FOR 903 AND 1296**

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## DON'T FORGET

**THE NORTH EAST WEAK SIGNAL GROUP**  
**2 METER VHF AND ABOVE NET**  
**EVERY THURSDAY NIGHT AT 8:30 p.m. LOCAL 144.250**  
**W1COT, WZ1V, OR K1PXE NET CONTROL**

MEMBERSHIP in the N.E.W.S. Group is \$15 per year. Apply to Tom Williams, WA1MBA, Email tomw@wa1mba.org You may download an application from our web page <http://www.newsvhf.com>

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## **PREZ SEZ** **DE KA10J**

As I write this, it's a gorgeous sunny fall day. It's Sunday morning, the last day of the 2007 10 GHz and up Cumulative. I'm sitting in the cafeteria at the base of Mt Washington waiting for a chance to go up the mountain. Currently the Toll Road is closed. With rain on Saturday and then clear skies overnight, the temperatures plummeted and there's ice on the road! Just one of the hazards of Mt. Washington. The weather up North on the contest weekends hasn't been good this year. My QSO count reflects that fact. Well, there's always next year.

On to business.... First I'd like to thank to Mark, KA10J for his stellar service as our President the past couple of years. If you haven't heard, we swapped jobs. Mark is now our illustrious Vice President.

We have several new board members. I'd like to welcome Bob, W1COT and Arthur W1TDS who join Ron, WZ1V and Mark, K1MAP on our current board and also thanks to outgoing board members Don, W1FKF - Beau, N1MJD and Ken, W1RIL. I sincerely hope I got this right as I was napping during elections at the picnic. If I got it wrong, let me know!

At our next meeting the feature presentation will be from George, WA2VNV who will show us his new mast mounted switched preamp system for 903 and 1296 he installed right before the January contest.

Looking ahead to the November 17th meeting, Dave, K1WHS will be telling us about a new 6 meter array he recently erected. It was instrumental in his first place finish in the CQ VHF Contest. This thing is a killer! Take a peek at:

<http://www.directivesystems.com/50MHZ.htm>

Also on tap at future meetings are an update from Tom, WA1MBA on his 78 GHz project and a look at DTV with Joe, N1DMP who is the Chief Engineer for Channel 3 in Burlington, VT. If you have any ideas for presentations, please let me know. We're always searching for interesting topics.

Microwave Update is just around the corner. Several NEWS members are traveling to Philly, the site of MUD this year. If you can't make it, I'm sure we'll fill you in on the highlights at a future meeting.

Our own Eastern VHF Conference is in the not too distant future. One of the highlights of the Saturday night banquet has always been the prizes. For years, Stan, W1LE has done an amazing job of lobbying vendors to donate their products (thanks Stan!). Sadly, he will not be able to continue this year, so we're looking to replace some mighty big shoes! My

thought is that we appoint a committee to take on this huge job. We'll be looking for your help at the upcoming meeting!

They finally opened the road up Mt Washington around 1PM, but only half way. The top is still covered in rime ice...

See you September 29th.

Mike, N1JEZ

## **SECRETARY'S REPORT OF THE NEWS** **MEETING 14 JULY 2007**

Minutes of NEWS meeting 14 July 2007 (Picnic)  
at Knights of Columbus, Enfield, CT

President KA10J called meeting to order at 1337Z

### Announcements

- member Al Greenwood, N1EUX - Silent Key
- shirts are still available
- Microwave Update in Valley Forge, PA this year
- N2LIV thanked everyone for the EVHF conference. A new prize chairman is needed.

Treasurers report - balance \$1892, fancy cash flow chart, 132 members, 104 email newsletters

Annual election was held:

President - N1JEZ

VP - KA10J

Directors - W1COT and W1TDS for two year term.

K1MAP for one-year term.

All elected unanimously.

Meeting adjourned 1401

PROGRAM:

MDS testing, 10 and 24 GHz. Results reported separately.

respectfully submitted,

Paul Wade W1GHZ,

Secretary, North East Weak Signal Group

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## N.E.W.S. MDS AND ERP TESTING

At the annual N.E.W.S. picnic, we will do MDS (Minimum Discernable Signal) and ERP testing on 10 GHz and 24 GHz, and possibly higher bands someday.

To test for MDS, we set up a distant signal source. After everyone has a chance to peak up on the signal, the signal level is reduced one dB at a time - when you can no longer hear it, then you have found the MDS for your system. You decide how well it works, and whether you can hear as well as Don and Dale. As a doublecheck, the frequency is moved a few KHz, then the signal level is increased one dB at a time (this is the "backup" number. If you weren't kidding yourself, you should be able to find it at the same level as before. Usually, it takes a few more dB to find a signal.

Finally, we also check relative ERP, transmitting one at a time and recording the relative power received at the distant point.

Results in 2007 were pretty good, with 11 participants on 10 GHz and 4 on 24 GHz, plus a couple of higher frequency stations for show. This isn't a competition, just a chance to check out the gear with friends around to help. Most folks had 10 GHz stations that worked pretty well, while a few found problems to fix before the 10 GHz & Up contest in August. Not only do we know our equipment works, but also that there will be some other good stations to work.

NOTE: one callsign was not recorded by the scribe. Please let me know who it was.

Paul W1GHZ

### TEST RESULTS 10 & 24 GHZ

| CALL RIG |                     | 10 GHz MDS |        |     | 10 GHz ERP |    |
|----------|---------------------|------------|--------|-----|------------|----|
|          |                     | lost       | backup |     |            |    |
| K2AEP    | 18" offset, 110 mw  | -102       | -86    | dBm | -18        | dB |
| KA1OJ    | 24" offset, 6 w     | -104       | -96    | dBm | -1         | dB |
| W1FKF    | 18" offset, 200 mw  | -102       | -99    | dBm | -20        | dB |
| AF1T     | 24" dish, 10 w      | -104       | -94    | dBm | 0          | dB |
| W1MKY    | 12" dish, 2.6 w     | -80        | -76    | dBm | -17        | dB |
| WW1Z     | 20 dBi horn, 600 mw | -80        | -78    | dBm | -24        | dB |
| ?        | 18" offset, 10 mw   | -90        | -87    | dBm |            |    |
| W1GHZ    | 18" offset, 1 watt  | -92        | -80    | dBm | -18        | dB |
| N1EKV    | 24" dish, 400 mw    | -91        | -79    | dBm | -14        | dB |
| W1AUV    | 18" offset, 1.7 w   | -95        | -87    | dBm | -16        | dB |
| W1RT     | 24" dish, 10 w      | -90        |        | dBm |            |    |
|          |                     |            |        |     |            |    |
|          |                     | 24 GHz MDS |        |     | 24 GHz ERP |    |
| N1JEZ    | 20" dish, +32.5 dBm | -96        | -92    |     | 0          |    |
| W1FKF    | 18" dish, 600 mw    | -88        | -86    |     | -8         |    |
| KA1OJ    | 24" dish, 1/2 w     | -93        | -90    |     | -6         |    |
| W1GHZ    | 18" dish, 2 w       | -94        | -83    |     | -3         |    |

## SEPT 2007 RUMORED SCORES DE KB1VC AND WZ1V

| Call    | Grid | News | CL | Points  | 6m      | 2m     | 222    | 432    | 903   | 1.2G  | 2.3G  | 3.4G  | 5.7G  | 10G   | 24G | 47G | 75G | 120G | 145G | 240G | LAS |
|---------|------|------|----|---------|---------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-----|-----|-----|------|------|------|-----|
| K1WHS   | FN43 | Y    | U  | 1132875 | 457/84  | 393/63 | 147/36 | 210/42 | 84/27 | 95/28 | 71/25 | 57/23 | 49/23 | 51/23 | 2/1 | -   | -   | -    | -    | -    | -   |
| K5QE    | EM31 | N    | U  | 488708  | 350/124 | 259/63 | 82/31  | 150/37 | 45/19 | 64/20 | 16/13 | 17/12 | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| N2NK    | FN21 | N    | U  | 267624  | 242/44  | 289/45 | 91/33  | 95/32  | 33/19 | 35/20 | 20/13 | 13/10 | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| W0EEA   | DM79 | N    | U  | 42510   | 66/34   | 46/18  | 23/12  | 31/15  | 11/5  | 15/9  | 5/4   | 3/3   | 3/3   | 10/4  | 2/2 | -   | -   | -    | -    | -    | -   |
| K0DI    | DM14 | N    | U  | 21840   | 69/23   | 71/14  | 13/7   | 48/15  | 4/3   | 10/6  | -     | 1/1   | 1/1   | -     | -   | -   | -   | -    | -    | -    | -   |
| W4MYA   | FM07 | N    | U  | 1235    | 65/19   | -      | -      | -      | -     | -     | -     | -     | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| W3SO    | FN00 | N    | L  | 281316  | 379/61  | 390/59 | 97/35  | 208/49 | -     | -     | -     | -     | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| K8EP    | FM09 | N    | L  | 212706  | 352/46  | 359/48 | 125/34 | 176/34 | -     | -     | -     | -     | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| KB1DFB  | FN41 | N    | L  | 62328   | 176/29  | 174/30 | 46/23  | 73/24  | -     | -     | -     | -     | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| KV1J    | FN44 | N    | L  | 33449   | 143/33  | 100/22 | 35/15  | 45/13  | -     | -     | -     | -     | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| AD6J    | DM14 | N    | L  | 15768   | 70/17   | 79/20  | -      | 43/11  | -     | 19/6  | -     | 19/17 | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| W8RU    | EN82 | N    | L  | 5670    | 31/20   | 20/13  | 13/10  | 14/11  | -     | -     | -     | -     | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| KV1J_CK | FN44 | N    | L  | 660     | -       | -      | -      | -      | 11/6  | 9/5   | -     | -     | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| K1TEO   | FN31 | Y    | H  | 512295  | 184/45  | 329/56 | 103/37 | 156/41 | 57/25 | 73/28 | 37/19 | 30/18 | 16/12 | 8/6   | -   | -   | -   | -    | -    | -    | -   |
| WA2FGK  | FN21 | N    | H  | 278424  | 138/40  | 194/42 | 94/32  | 111/34 | 43/17 | 58/24 | 34/14 | 27/13 | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| KA1ZE   | FN01 | N    | H  | 230010  | 130/50  | 227/57 | 75/39  | 112/51 | 29/22 | 39/27 | -     | -     | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| K3TUF   | FN10 | N    | H  | 190674  | 98/34   | 163/38 | 79/35  | 94/35  | 24/14 | 32/15 | 14/8  | 14/8  | 10/6  | 9/5   | -   | -   | -   | -    | -    | -    | -   |
| K8TQK   | EM89 | N    | H  | 171433  | 90/51   | 113/58 | 60/44  | 69/42  | 22/19 | 24/19 | 12/11 | 5/4   | -     | 4/3   | -   | -   | -   | -    | -    | -    | -   |
| K5LLL   | EM10 | N    | H  | 98790   | 180/85  | 96/31  | 27/15  | 42/17  | 12/9  | 11/7  | 11/8  | 7/6   | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| KE2N    | FM18 | N    | H  | 94944   | 109/25  | 165/29 | 46/22  | 85/27  | 22/9  | 30/11 | 11/6  | -     | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| W4WA    | EM84 | N    | H  | 90951   | 152/67  | 69/34  | 29/22  | 49/29  | 10/9  | 18/16 | 9/6   | -     | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| K8MD    | EN82 | N    | H  | 79913   | 101/43  | 91/32  | 36/21  | 43/23  | 18/14 | 19/12 | 6/6   | 4/4   | 1/1   | 1/1   | -   | -   | -   | -    | -    | -    | -   |
| W0ZQ    | EN34 | N    | H  | 64480   | 64/24   | 74/25  | 29/19  | 47/21  | 16/12 | 26/13 | 10/8  | 8/6   | 1/1   | 1/1   | -   | -   | -   | -    | -    | -    | -   |
| KN4SM   | FM16 | N    | H  | 35640   | 56/28   | 66/28  | 46/25  | 58/27  | -     | -     | -     | -     | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| KC6ZWT  | CM98 | N    | H  | 29212   | 58/13   | 96/19  | 50/15  | 58/14  | 14/4  | -     | 6/2   | 96/19 | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| WO9S    | EN61 | N    | H  | 29016   | 73/33   | 87/29  | 29/12  | 47/19  | -     | -     | -     | -     | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| W5PR    | EL29 | N    | H  | 25365   | 267/95  | -      | -      | -      | -     | -     | -     | -     | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| WB2RVX  | FM29 | N    | H  | 24596   | 39/19   | 104/26 | 25/16  | 36/20  | -     | 7/5   | -     | -     | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| W3EP    | FN31 | Y    | H  | 21450   | 106/29  | 75/23  | -      | 39/18  | -     | 9/5   | -     | -     | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| K1TOL   | FN44 | N    | H  | 21420   | 306/70  | -      | -      | -      | -     | -     | -     | -     | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| K4HV    | EL97 | N    | H  | 21068   | 95/51   | 26/13  | 11/7   | 22/11  | 3/2   | 7/5   | 2/2   | 1/1   | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| W6VNQ   | CM88 | N    | H  | 19215   | 40/14   | 81/19  | 41/15  | 51/15  | -     | -     | -     | -     | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| W6OAL   | DM79 | N    | H  | 16905   | 75/28   | 37/12  | 13/7   | 20/8   | 6/4   | 7/4   | 2/2   | 1/1   | 1/1   | 2/1   | -   | -   | -   | -    | -    | -    | 1/1 |
| W2KV    | FN20 | N    | H  | 15708   | 18/11   | 163/42 | -      | 15/11  | -     | -     | -     | -     | -     | 5/4   | -   | -   | -   | -    | -    | -    | -   |
| W1ZC    | FN42 | Y    | H  | 11770   | 53/17   | 45/18  | -      | 34/14  | -     | 16/6  | -     | -     | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| WJ9B    | EL89 | N    | H  | 7952    | 17/12   | 37/16  | 8/8    | 22/12  | 2/2   | 6/5   | 1/1   | -     | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| W1OUN   | FN42 | Y    | H  | 7524    | 50/14   | 61/19  | -      | 24/8   | -     | 4/3   | -     | -     | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| K7CW    | CN87 | N    | H  | 5662    | 89/22   | 60/16  | -      | -      | -     | -     | -     | -     | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| K1UHF   | FN31 | Y    | H  | 2180    | 0/0     | 105/18 | -      | 2/2    | -     | -     | -     | -     | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| NN5DX   | DM80 | N    | H  | 925     | 10/8    | 11/9   | 3/3    | 5/5    | -     | -     | -     | -     | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| WA2ONK  | FN20 | N    | H  | 720     | -       | -      | 18/14  | -      | 3/2   | -     | -     | -     | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| K2DRH   | EN41 | N    | S  | 262144  | 205/69  | 183/53 | 68/33  | 107/40 | 29/20 | 37/20 | 17/16 | 5/5   | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| K1TR    | FN42 | N    | S  | 183438  | 216/32  | 240/34 | 84/27  | 114/27 | 16/8  | 23/9  | 18/7  | 11/6  | 9/4   | 10/4  | -   | -   | -   | -    | -    | -    | -   |
| KB8U    | EN71 | N    | S  | 95858   | 92/40   | 106/37 | 47/27  | 61/27  | 14/13 | 10/5  | 11/9  | 8/6   | -     | 3/3   | -   | -   | -   | -    | -    | -    | -   |
| KC9BQA  | EN63 | N    | S  | 81789   | 82/28   | 92/29  | 59/26  | 70/25  | 19/11 | 28/12 | 6/6   | -     | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| WB2SIH  | FN31 | N    | S  | 72960   | 53/16   | 133/27 | 60/24  | 73/26  | 24/12 | 28/15 | -     | -     | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| K4LY    | EM85 | N    | S  | 53406   | 123/52  | 78/34  | 31/23  | 54/27  | -     | -     | 4/2   | -     | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| W4SHG   | FM18 | N    | S  | 51980   | 58/22   | 81/24  | 39/21  | 57/22  | 17/11 | 18/11 | 2/2   | 2/2   | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| K5MA    | FN41 | N    | S  | 48672   | 81/26   | 139/28 | 55/25  | 69/25  | -     | -     | -     | -     | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| WA2VNV  | FN30 | Y    | S  | 47187   | 54/22   | 80/24  | 49/22  | 53/22  | 12/6  | 21/10 | 1/1   | -     | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| WB5ZDP  | EM13 | N    | S  | 39294   | 41/21   | 85/32  | 23/14  | 50/24  | 8/7   | 10/7  | 7/6   | -     | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| VA3WLD  | FN03 | N    | S  | 32973   | 41/19   | 60/27  | 44/17  | 68/19  | -     | 18/5  | -     | -     | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| VA3KA   | FN15 | N    | S  | 31417   | 56/20   | 64/22  | 29/15  | 48/18  | 9/5   | 16/8  | -     | -     | -     | 1/1   | -   | -   | -   | -    | -    | -    | -   |
| K1IM    | FN32 | N    | S  | 30020   | 108/20  | 79/18  | 31/13  | 40/15  | 9/5   | 13/5  | -     | -     | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| VO1NO   | FN24 | N    | S  | 29430   | 59/23   | 68/24  | 28/16  | 50/19  | 3/2   | 9/5   | -     | -     | -     | 2/1   | -   | -   | -   | -    | -    | -    | -   |
| N0LL    | EM09 | N    | S  | 28768   | 76/43   | 55/29  | 20/16  | 28/21  | -     | 7/7   | -     | -     | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| WA3EOQ  | FM09 | N    | S  | 20564   | 25/16   | 27/20  | 21/18  | 23/19  | 11/11 | 13/13 | -     | -     | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| K8MR    | EN91 | N    | S  | 19092   | 44/23   | 51/26  | 27/18  | 35/18  | -     | 1/1   | -     | -     | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| N0VZJ   | EN35 | N    | S  | 17679   | 83/29   | 88/21  | 21/12  | 18/9   | -     | -     | -     | -     | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| KC8QAE  | EN91 | N    | S  | 15795   | 60/26   | 47/25  | 20/14  | 24/16  | -     | -     | -     | -     | -     | -     | -   | -   | -   | -    | -    | -    | -   |
| WN8R    | EN91 | N    | S  | 13575   | 44/23   | 41/20  | 24/17  | 24/15  | -     | -     | -     | -     | -     | -     | -   | -   | -   | -    | -    | -    | -   |

|        |      |     |        |       |        |       |       |       |       |       |       |       |       |     |   |   |   |   |     |  |
|--------|------|-----|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-----|---|---|---|---|-----|--|
| W6YX   | CM87 | N S | 12688  | 64/17 | 67/15  | 8/4   | 38/12 | -     | 7/4   | -     | -     | -     | -     | -   | - | - | - | - | -   |  |
| N3OX   | FM18 | N S | 10440  | 46/18 | 66/22  | -     | 34/18 | -     | -     | -     | -     | -     | -     | -   | - | - | - | - | -   |  |
| K3JT   | EM99 | N S | 10362  | 61/30 | 46/22  | -     | 25/14 | -     | -     | -     | -     | -     | -     | -   | - | - | - | - | -   |  |
| N8RA   | FN31 | N S | 10000  | 39/17 | 161/33 | -     | -     | -     | -     | -     | -     | -     | -     | -   | - | - | - | - | -   |  |
| N1SXL  | FN41 | N S | 7525   | 66/17 | 59/18  | -     | 25/8  | -     | -     | -     | -     | -     | -     | -   | - | - | - | - | -   |  |
| N2JDQ  | FN20 | N S | 6612   | -     | 84/20  | -     | 45/18 | -     | -     | -     | -     | -     | -     | -   | - | - | - | - | -   |  |
| KA3ZLS | FM19 | N S | 5896   | 6/3   | 73/21  | 9/8   | 14/10 | -     | 3/2   | -     | -     | -     | -     | -   | - | - | - | - | -   |  |
| VE3AAQ | FN25 | N S | 5781   | 30/14 | 29/10  | 20/6  | 15/9  | -     | 4/2   | -     | -     | -     | -     | -   | - | - | - | - | -   |  |
| W9IIX  | EN61 | N S | 5148   | 21/13 | 48/19  | 4/1   | 20/11 | -     | -     | -     | -     | -     | -     | -   | - | - | - | - | -   |  |
| N1WR   | FM18 | N S | 4264   | 32/17 | 72/24  | -     | -     | -     | -     | -     | -     | -     | -     | -   | - | - | - | - | -   |  |
| VE3KZ  | FN03 | N S | 4186   | 48/26 | 19/13  | -     | 12/7  | -     | -     | -     | -     | -     | -     | -   | - | - | - | - | -   |  |
| WV2ZOW | FN20 | N S | 3838   | 23/9  | 30/12  | 11/9  | 13/8  | -     | -     | -     | -     | -     | -     | -   | - | - | - | - | -   |  |
| K3CAR  | FM19 | N S | 3515   | 31/13 | 26/13  | -     | 19/11 | -     | -     | -     | -     | -     | -     | -   | - | - | - | - | -   |  |
| K3OO   | FN20 | N S | 3300   | 41/16 | 59/17  | -     | -     | -     | -     | -     | -     | -     | -     | -   | - | - | - | - | -   |  |
| K2DBK  | FN21 | N S | 3161   | 67/18 | 26/8   | -     | 8/3   | -     | -     | -     | -     | -     | -     | -   | - | - | - | - | -   |  |
| VE3CVG | FN25 | N S | 3132   | 19/6  | 22/7   | 6/3   | 18/6  | 3/2   | 6/3   | -     | -     | -     | -     | -   | - | - | - | - | -   |  |
| K9MU   | EN46 | N S | 2607   | 45/21 | 32/11  | -     | 1/1   | -     | -     | -     | -     | -     | -     | -   | - | - | - | - | -   |  |
| K1LPS  | FN34 | Y S | 2542   | 13/7  | 29/11  | 13/7  | 7/6   | -     | -     | -     | -     | -     | -     | -   | - | - | - | - | -   |  |
| W1LA   | FN42 | N S | 2220   | 23/12 | 18/9   | 7/4   | 8/4   | -     | 1/1   | -     | -     | -     | -     | -   | - | - | - | - | -   |  |
| N5BO   | EM60 | N S | 2214   | 54/41 | -      | -     | -     | -     | -     | -     | -     | -     | -     | -   | - | - | - | - | -   |  |
| KA1OJ  | FN42 | Y S | 1944   | 14/7  | 18/9   | 6/3   | 14/8  | -     | -     | -     | -     | -     | -     | -   | - | - | - | - | -   |  |
| K8WW   | EN81 | N S | 1404   | 52/27 | -      | -     | -     | -     | -     | -     | -     | -     | -     | -   | - | - | - | - | -   |  |
| W1DYJ  | FN42 | Y S | 1311   | 30/11 | 27/12  | -     | -     | -     | -     | -     | -     | -     | -     | -   | - | - | - | - | -   |  |
| K9AIH  | EN44 | N S | 825    | 12/5  | 11/4   | 7/3   | 9/3   | -     | -     | -     | -     | -     | -     | -   | - | - | - | - | -   |  |
| W9SZ   | EN50 | N S | 748    | 5/3   | 15/6   | 5/4   | 7/4   | -     | -     | -     | -     | -     | -     | -   | - | - | - | - | -   |  |
| N1VQR  | FN42 | Y S | 525    | 14/6  | 9/5    | 4/2   | 2/2   | -     | -     | -     | -     | -     | -     | -   | - | - | - | - | -   |  |
| AE1P   | FN32 | N S | 425    | 11/9  | 10/6   | -     | 2/2   | -     | -     | -     | -     | -     | -     | -   | - | - | - | - | -   |  |
|        |      |     |        |       |        |       |       |       |       |       |       |       |       |     |   |   |   |   |     |  |
| KC3WD  | ROV  | N R | 124230 | 32/26 | 60/16  | 43/29 | 41/28 | 22/21 | 23/22 | 19/10 | 11/11 | 13/13 | 12/12 | -   | - | - | - | - | -   |  |
| K3LFO  | ROV  | N R | 76680  | 77/18 | 111/20 | 62/18 | 67/18 | 31/10 | 33/11 | 18/6  | -     | -     | -     | -   | - | - | - | - | -   |  |
| W1AUV  | ROV  | Y R | 56079  | 66/14 | 100/20 | 55/15 | 62/16 | -     | 33/12 | 14/7  | -     | -     | 12/6  | -   | - | - | - | - | -   |  |
| N8UM   | ROV  | N R | 53530  | 90/23 | 101/25 | 38/17 | 26/14 | 16/8  | 30/13 | 12/6  | -     | -     | -     | -   | - | - | - | - | -   |  |
| K1DS   | ROV  | N R | 44720  | 31/9  | 53/13  | 35/12 | 39/15 | 16/6  | 25/8  | 15/5  | 11/2  | 10/2  | 11/2  | 2/1 | - | - | - | - | 2/1 |  |
| W1RT   | ROV  | Y R | 43792  | 20/6  | 61/12  | 38/9  | 40/8  | 29/5  | 28/5  | 25/4  | 15/4  | 10/3  | 9/3   | -   | - | - | - | - | -   |  |
| K2QO   | ROV  | N R | 41764  | 72/23 | 129/32 | 8/7   | 54/21 | 5/4   | 10/7  | 2/2   | 1/1   | -     | 3/3   | -   | - | - | - | - | -   |  |
| K9JK   | ROV  | N R | 34237  | 78/15 | 96/14  | 64/10 | 67/10 | -     | 25/10 | -     | -     | -     | -     | -   | - | - | - | - | -   |  |
| WB8BZK | ROV  | N R | 5544   | 26/10 | 23/6   | 19/6  | 17/6  | -     | 11/5  | -     | -     | -     | -     | -   | - | - | - | - | -   |  |
| W3DHJ  | ROV  | N R | 1782   | 26/9  | 55/9   | -     | -     | -     | -     | -     | -     | -     | -     | -   | - | - | - | - | -   |  |
| N6ZE   | ROV  | N R | 182    | 1/1   | 7/6    | -     | 3/2   | -     | -     | -     | -     | -     | -     | -   | - | - | - | - | -   |  |
| N1MJD  | ROV  | Y R | 144    | -     | 24/3   | -     | -     | -     | -     | -     | -     | -     | -     | -   | - | - | - | - | -   |  |
|        |      |     |        |       |        |       |       |       |       |       |       |       |       |     |   |   |   |   |     |  |
| WA7JTM | DM33 | N Q | 506    | 14/5  | 12/3   | -     | 10/3  | -     | -     | -     | -     | -     | -     | -   | - | - | - | - | -   |  |

**Club Total Score:841618**

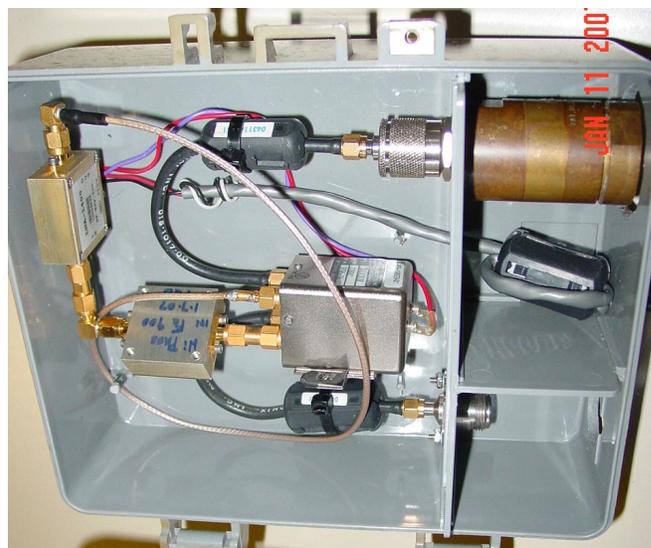
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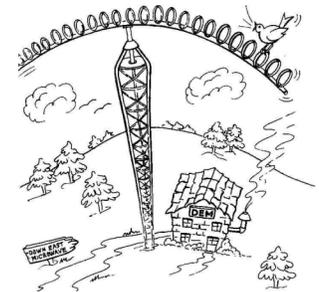
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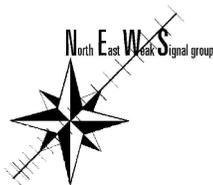
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