



THE FRANKFORD RADIO CLUB NEWSLETTER

PROFICIENCY THROUGH COMPETITION

CALENDAR

December 2008:

- 5-7 ARRL 160 Meter Contest, CW
- 9 REXY Meeting B**
- 10 FRC Main Meeting, K of P**
- 13-14 ARRL 10 Meter Contest
- 18 T.I.T.S. Meeting, Noon**
- 23 REXY Meeting B**
- 29 FRC Pizza Blast**
- 30 REXY Holiday Meeting B**

January 2009:

- 3-4 ARRL RTTY Roundup
- 13 REXY Meeting B**
- 14 FRC Main Meeting, K of P**
- 15 T.I.T.S. Meeting, Noon**
- 17-18 Hungarian DX Contest
- 17-18 North Amer. QSO Party, SSB
- 24 CQWW 160 M Contest, CW
- 27 REXY Meeting B**

February 2009:

- 21-22 ARRL DX Contest, CW**
- 28-1 CQWW 160 M Contest, SSB

CHANGES New member

KA2NDX

Wayne Jones
12 North Park Ave
Millville NJ 08332-4122
Email: XKA2NDXX@AOL.COM

Address Change

WB4FDT

Phil Sager
7634 Carla Rd
Baltimore MD 21208

Deadline for January issue:
Sunday, December 28, 2008

Happy Holidays!!



FRC Pizza Blast



This year's **FRC Pizza Blast** is 12:00 Noon on Monday, December 29. Location is the Crossroads Hotel, 1443 Main Street, Hellertown, PA. Contact Dave, **W3MM**, for more information.

FRC CQWW CW DXpeditions

KP2M by K3CT, K3VA and K3TEJ

P40W by W2GD

V26K by AA3B

ZP0R by N3BNA

MEETINGS

Main Meeting

The main monthly meeting of the **Frankford Radio Club** will be held in King of Prussia on Wednesday, December 10 at 8 PM. **Note this is a different location.** Location is the firehouse in King of Prussia.

The firehouse address is 170 Allendale Road, King of Prussia, PA 19406.
Phone number is 610-265-5635.



T.I.T.S. meeting—The Trexlertown International Transmitting Society meets on Thursday, December 18 at 12:00 noon.
Location is the Hometown Diner on Route 222 in Trexlertown..

Rexy Meeting B—The Rexy's **FRC Meeting B** meets about 8 PM on the second and fourth Tuesdays of each month.

Rexy Holiday Meeting B—Wednesday, December 30 at 7 PM. See **N2SS's** DX Column for more details.

CQWW Log Submission Information

Send CQWW SSB logs to ssb@cqww.com by **December 1, 2008**.

Send CQWW CW logs to cw@cqww.com by **January 15, 2009**.

Be sure to save your confirmation from the robot. Anyone with problems can request help from k3ww@fast.net. **Please report scores to K3WW and be sure that CLUB is Frankford Radio Club**

Note from the Editor

You might notice that this month's newsletter doesn't contain the clickable links you've seen in the past. My hard drive crashed a few weeks ago and I decided to use different software for email. For some reason the address links aren't making it from email to the Publisher file as they did in the past. I'll figure it out, but for now the links aren't appearing.

My best wishes to all for a healthy and happy holiday season.

73, Joe KQ3F

FRC 2008 CQWW SSB CLAIMED SCORES

Station	QSOs	Zone	Ctry	Class	Score	Station	QSOs	Zone	Ctry	Class	Score
AA1K	2,315	115	397	A	3,248,640	N3YW	625	74	247	A	588,540
AA3B	1,524	113	418	AA	2,296,575	N3ZA	935	110	390	AA	1,307,000
C6APR	3,824	110	382	M2	4,153,956	NA2U	1,118	104	334	AA	1,385,394
<i>Ops</i>	K3IXD W2GJ W3PP W8ZA					NE3F	2,096	128	463	M2	3,426,618
CW5W	1,052	33	107	7	409,080	<i>Ops</i>	NE3F AB3AH K3ATO KA3GWA N3OW WA3WLH				
<i>Op</i>	CX6VM					V26B	7,447	138	480	M2	10,940,454
K2AX	1,797	119	431	M2	2,719,200	<i>Ops</i>	DL8OBQ N3BNA N3OC W2BZR WT3Q				
<i>Ops</i>	K2AX KC2TN KV2M N1RK N3RG W2MC W2OF W2RDS W3MM					V48M					8,134,113
K2CJ	730	82	278	AA	752,400	<i>Ops</i>	W2OK, K3NM				
K2DM				AA	711,774	VE2DXY	1,908			M2	1,268,634
K2GN	688	84	267	AA	686,907	<i>Ops</i>	K3FMQ KD3RF KD3TB				
K2QPN				AA	85,329	VP5T				MS	7,189,318
K3FT				AA	477,882	<i>Ops</i>	N2VW W2WAS WA2VYA				
K3IPK				AA	731,080	W1GD	1,115	106	391	AA	1,555,610
K3LR	8,162	162	634	MM	17,018,480	W2CG	1,330	108	376	M2	1,817,904
<i>Ops</i>	K3LR DL6LAU KIAR K3UA K8GL KI4MTU LU7DW N2NC N2NL N3GJ N3SD N6MJ W2RQ W3TX WM2H					<i>Ops</i>	W2CG K2TW W2EN				
K3MD	866	99	299	AA	947,240	W2IRT	866	98	341	AA	1,066,331
K3OO				AA	1,294,371	W2LE	601	71	218	AA	484,653
K3OX	342	71	179	A	244,223	W2RD				AA	1,483,885
K3TEJ				A	88,808	W2UP	587	83	293	AA	617,768
K3WI	666	77	239	A	589,656	W2VQ				MS	290,142
K3WW	2,160	123	447	AA	3,453,630	<i>Ops</i>	W2VQ WQ2N				
K9RS	2,469	145	542	MS	4,637,937	W2YC	1,324	108	395	M2	1,869,088
<i>Ops</i>	K9RS N3DXX NO2R W2GD					<i>Ops</i>	W2YC AA2WN N2CQ W0MHK				
KC2NB				MS	481,838	W2YR				AA	646,931
<i>Ops</i>	AB2XW KC2NB NB2P W2VRK					W3BGN				A	2,937,344
KD2HE	67	23	50	AA	13,432	W3CC	1,150			MS	1,751,758
KP2M	6,456	139	495	MM	9,619,682	<i>Ops</i>	W3CC N3GNW				
<i>Ops</i>	N2TK W3FV					W3EA	786	85	297	AA	847,657
KQ2M	2,536	38	145	14	1,312,293	W3FVT				A	171,360
N2LT				A	65,554	W3GK				AA	292,824
N2MM	1,367	116	413	AA	1,986,924	W3GM				AA	1,066,046
N2NT	3,024	118	443	A	4,787,013	<i>Op</i>	K3ND				
N2RJ	616	54	200	LA	499,834	W3IZ	627	71	224	AA	530,116
N2RM	2,116	100	349	M2	2,723,185	W3MF	1,217	101	366	MS	1,593,871
<i>Ops</i>	N2RM K3ZV					<i>Ops</i>	W3MF K3PH				
N2SS				AA	132,000	W3SQ				A	41,548
N2VM				LA	31,473	W6XR				AA	332,270
N2WKS	996	88	297	AA	1,086,085	WB3FIZ				AA	59,451
N3AD	1,888	118	442	AA	3,002,720	WE3C	5,594	153	593	M2	11,568,222
N3NR				A	115,878	<i>Ops</i>	WE3C K3CT KQ3F KQ3V NN3Q W2GD				
N3RJ	562	62	195	A	407,859						
N3RS	4,247	144	541	M2	8,083,000						
<i>Ops</i>	N3RS N2SR N3ED N3NA N3RD W3CF W8FJ WA3LRO										
N3RW	232	39	122	A	106,582						
											Total 128,462,101
											PLEASE REPORT missing scores to K3WW
											Note: KQ2M's claimed score is a new US 20 meter unas-

Reprinted with permission from the November 12, 2008 ARRL Contest Update

If you have questions about log checking in the ARRL Sweepstakes, Steve N2IC contributes this link to an informative article about it. The article addresses what happens to "the other station's log" when you make a mistake on your end, for example.

The old OH2AQ DX Summit goes offline on November 19, 2008 at 1000 UTC. The new DX Summit Web site debuted on May 23, 2008. The site has been redeveloped from the ground up and uses the latest technology available. The new DX Summit has been ramping up steadily and today the number of hits is approaching 1 million a day. In addition to providing the same functionality as the old DX Summit, the new platform offers the necessary flexibility to easily add new features which are currently on the drawing board. (Thanks, Martti OH2BH)

Randy K5ZD, WPX Contest Manager, has noticed a lot of variation in the club names submitted in contest logs. To encourage more consistent spelling of name and improving the club scoring process, he has begun development of an "official" list of contest club names. Please take a moment to find your club on the list and let Randy know if there are any errors or there is a more accepted spelling of the club name. The goal is to have the names on the list be what the club members want to use in their log and how they want the club name to appear in the magazine results.

Pete N4ZR reports, "I'm happy to report that the World Contest Station Database is back from the dead, thanks to the generosity of Jamie Punderson W2QO. Jamie and Networks & More, Inc. have donated the ASP hosting that enabled me to get it back up and running for the first time since last January. The database is as it was after the last update, in January 2008, containing descriptions of over 3000 HF contest stations worldwide. Please feel free to go to the site and update your entry. When you fill out the form, be sure to include your call, so that I can associate whatever changes you make with the proper record."

Antennex announces the release of a new book by LB Ceibk W4RNL (SK), titled "Some Basics of Multi-Band Beam Design". In LB's words, "Most amateur literature simply passes over the subject or presents a design without much theoretical commentary. We, the outsiders who look in on multi-band beam design, view it as a mystery, as a function of secret optimizing software, as esoteric knowledge to which the average amateur is denied access. This 247-page volume simply presents what I have managed to learn about the process over the years. I have certainly not learned everything—just enough to get started and to realize the limits of what I know."

Spanish Hams Receive New Frequency Privileges: The Union de Radioaficionados Espanoles (URE), Spain's IARU Member-Society, reported that as of October 24, 2008, that country's Secretaria de Estado de Telecomunicaciones y para la Sociedad de la Informacion (SETSI) approved an expansion on 160 meters during certain events, such as international Amateur Radio contests. The new allocation, 1.810-1.830 MHz, as well as 1.850-2.000 MHz, will be available for the 2009 ARRL 160 Meter Contest, the 2009 King of Spain Contests (both SSB and CW) and the 2009 CQ 160 Meter Contest (both SSB and CW). In addition, Spanish hams were also granted privileges on the experimental portion of the 4 meter band -- 70.150-70.200 MHz running 10 W ERP -- until April 25, 2009. (Thanks to "The Daily DX" by W3UR)

John W0UN and Lance W7GJ relate news of more solar cycle prognostication. This article deals with the number of "spotless days" at the bottom of the cycle, suggesting the more spotless days that occur, the weaker the subsequent cycle will be. This points to a weak Cycle 24, unfortunately. Bob N6TV found this related article from NASA that should give some encouragement.

If you're looking for an inexpensive RS232 to CI-V interface for Icom radio control, Gary K8BE and Carolyn N8ST sell just such an interface for \$25 that works great according to Ken N9VV.

No need to rely on hitting the Enter key precisely in sync with the beep from WWV, there is an excellent Windows implementation of the Network Time Protocol (NTP) application available for most or all flavors of Windows. The company that makes it available manufactures time servers and radio clocks for data center and network use. Mac OS X, other UNIX versions, and Linux all have NTP built in and are usually in a reasonable configuration out of the box. With a couple of reference clocks configured (a minimum of three is required), your system's clock will always be within a few ms of UTC. (Thanks, Peter N5UWY)

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If you are interested in trying the free W6ELprop propagation prediction software, Carl K9LA has written a tutorial titled "Downloading and Using W6ELprop". This can help you get the most out of this useful software..

Another electrical hazard to radios is presented by common "entry-level" amplifiers, such as a used Heathkit SB-200/220 or a Drake L4 or L7. Joe W4TV notes, "The keying line (PTT relay) in the SB-220 is +120 V DC. The contacts of the "Linear" or "Send" relays in most transceivers can not handle the voltage and current "spike" generated by the high voltage PTT circuits in these older amps. You will probably need to replace the "Linear" or "Send" relay in your transceiver. If you are lucky, that will be all you'll need to replace." Joe suggests a keying buffer such as the Ameritron ARB-704. Check the ratings of your radio and the specifications of the amplifier before connecting the two.

If you've got a fixed amount of wire to use for a radial field, how should you use it to get the best radial ground field? Lucky for you, Al Christman K3LC wrote a paper on just this problem and published it in NCJ. You'll find it online on the NCJ Web wite. (Thanks, Frank VO1HP)

Bill W2WO notes that, "Almost everyone who runs cables underground eventually wishes they had used a conduit of some kind. It seems there are always control cables to be added, another feed line, etc, etc. Also, many of us painfully learn to use at least 3" conduit. A single coax looks very small in this size pipe, but it is certainly easier to feed new lines and pull old lines. Always leave a "messenger" cord in the conduit, with lots of slack on one end. Also, water will get into almost any simple conduit. Always allow for this by tilting the conduit, putting a little stone under it, leaving weep holes at appropriate places, a small dry well at the best spot, etc. Allow some air circulation through it, but block the entrance for small critters. "



Contest Season is Here!!!

Work Wanted:

Experienced tower climber immediately available to perform antenna and tower maintenance.

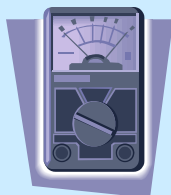
Install/repair/remove antennas, replace feedlines and cabling, rotator servicing, guy wire renewal, new tower installations (guyed and self-supporting), and tower removal.

Reasonable hourly rates and scheduling that meets your needs.

Contact: John Crovelli W2GD

w2gd@hotmail.com

Phone: 908 391 5611 (Mobile)



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73 Tim Brown NM3E 610-207-4865

ARRL VEC ANNOUNCES EXAM FEE INCREASE

On November 6, The ARRL VEC <<http://www.arrl.org/arrlvec/>> announced that as of January 1, 2009, the fee to take an ARRL Volunteer Examiner (VE)-administered Amateur Radio license exam will increase by \$1, from \$14 to \$15. According to ARRL VEC Manager Maria Somma, AB1FM, ARRL VE teams may retain up to \$7 of this fee to directly reimburse their teams' out-of-pocket examination expenses; currently, VE teams keep \$6. This is the first time in four years that the examination fee has been adjusted.

Somma said that the FCC allows VECs to collect an examination reimbursement fee from each candidate who takes one or more exam elements. "VEs and VECs may be reimbursed by examinees for out-of-pocket expenses incurred in preparing, processing, administering or coordinating an examination for an amateur operator license (FCC Rule 97.527)," she said <http://edocket.access.gpo.gov/cfr_2002/octqtr/pdf/47cfr97.527.pdf>. "These exam fees help the VEC recover its costs of providing its services."

Saying that every examinee at each ARRL coordinated examination session is charged the same fee in accordance with the annually-established fee schedule, "Any person sitting for an exam, or having a new license or upgrade processed at a test sessions, must pay the exam fee applicable for the calendar year," Somma explained. "The ARRL VEC's exam fee for calendar year 2009 is \$15. Each time a candidate pays one exam fee, they are entitled to take tests for Elements 2, 3 and 4 as needed, up to all three elements under the single exam fee. Each time an examinee retakes an exam element (assuming the VE Team has different exam design available), another exam fee is charged."

VE teams may elect to keep a prescribed portion of each exam fee collected exclusively to offset expenses that are directly incurred in administering the VE program. "All out-of-pocket reimbursable expenses shall be necessary and prudent, and must relate to the examination process in some way," Somma said. "VECs and VEs are expected to use good business judgment with respect to reimbursement amounts. The examination reimbursement fee cannot be used to offset non-session related costs and must be kept separate from other accounts."

Somma pointed out that business expenses such as postal, utility, fuel and printing charges, are increasing: "Our VE teams are feeling the effects of the current economy, too! Teams are retaining reimbursement at amounts considerably larger than previous years. The amount of out-of-pocket costs that our VEs and the VEC are expending to provide authorized services in connection with Amateur Radio operator examinations continues to rise."

Recent ARRL VEC cost-cutting steps have included staff reduction, reduced printing charges of ARRL VE training material and exam software, renegotiating shipping and printing contracts and eliminating lesser-used services.

Only so many cost-cutting measures can be justified without cutting back significantly on services essential to our VE teams, our customers and our program," Somma said. "As a result, an adjustment was needed in the 2009 exam reimbursement fee if we intended to maintain the basic levels of service that our VEs, VE teams and candidates have come to expect."

Somma said that the ARRL VEC permits its VEs to retain a portion of the exam fees they collect to directly reimburse themselves for out-of-pocket expenses incurred in setting up and conducting their examination sessions. "As long as the expense is warranted and has been prudently incurred -- and the expense is specifically related to exam administration -- then the fee can be retained," she said. "The team should keep a complete record of the expenses paid (with receipts) in team records for two years. Records must be made available to the ARRL VEC upon request. Costs not related to the exam session processes or paperwork are not reimbursable."

"We believe that the ARRL VEC's level of assistance and services are outstanding," said ARRL Chief Operating Officer Harold Kramer, WJ1B.

W1AW 2008/2009 Winter Operating Schedule

Morning Schedule:

Time	Mode	Days
-----	----	-----
1400 UTC (9 AM EST)	CWs	Wed, Fri
1400 UTC (9 AM EST)	CWf	Tue, Thu

Daily Visitor Operating Hours:

1500 UTC to 1700 UTC - (10 AM to 12 PM EST) 1800 UTC to 2045 UTC - (1 PM to 3:45 PM EST)
(Station closed 1700 to 1800 UTC (12 PM to 1 PM EST))

Afternoon/Evening Schedule:

2100 UTC (4 PM EST)	CWf	Mon, Wed, Fri
2100 " "	CWs	Tue, Thu
2200 " (5 PM EST)	CWb	Daily
2300 " (6 PM EST)	RTTY	Daily
0000 " (7 PM EST)	CWs	Mon, Wed, Fri
0000 " "	CWf	Tue, Thu
0100 " (8 PM EST)	CWb	Daily
0200 " (9 PM EST)	RTTY	Daily
0245 " (9:45 PM EST)	VOICE	Daily
0300 " (10 PM EST)	CWf	Mon, Wed, Fri
0300 " "	CWs	Tue, Thu
0400 " (11 PM EST)	CWb	Daily

Frequencies (MHz)

CW: 1.8175 3.5815 7.0475 14.0475 18.0975 21.0675 28.0675 147.555
RTTY: - 3.5975 7.095 14.095 18.1025 21.095 28.095 147.555
VOICE: 1.855 3.990 7.290 14.290 18.160 21.390 28.590 147.555

CWs = Morse Code practice (slow) = 5, 7.5, 10, 13 and 15 WPM CWf = Morse Code practice (fast) = 35, 30, 25, 20, 15, 13 and 10 WPM CWb = Morse Code Bulletins = 18 WPM. CW frequencies include code practices, Qualifying Runs and CW bulletins.

RTTY = Teleprinter Bulletins = BAUDOT (45.45 baud) and AMTOR-FEC (100 Baud). ASCII (110 Baud) is sent only as time allows.

A DX bulletin replaces or is added to the regular bulletins between 0100 UTC (8 PM EST) Thursdays and 0100 UTC (8 PM EST) Fridays.

All licensed amateurs may operate the station from 1500 UTC to 1700 UTC (10 AM to 12 PM EST), and then from 1800 UTC to 2045 UTC (1 PM to 3:45 PM EST) Monday through Friday. Be sure to bring your current FCC amateur radio license or a photocopy.

<http://www.lz1jz.com>



Notes From Your Editor

Best wishes from the N2SS household to you and yours for a Happy Holiday season and a healthy and prosperous 2009. Wow. 2009! Where does the time go?

Where Are the Sunspots?

The new cycle continues defy all predictions. NASA has reported that 2008, with well over 200 days of a spotless sun through September, is the most blank sun year in the past 50. They state further that at the current rate by year's end it will be the lowest in a century. Some scientists report that a cycle this slow to start augurs towards Cycle 24 being a very weak one. Other scientists have rolled out the Maunder Minimum theory and are speculating that we are headed into another one. The Maunder Minimum was a period during the 2nd half of the 17th century when there were virtually no sunspots for a period in excess of 50 years. Let's hope activity picks up and brings better news for contestors and DXers.



Annual Holiday Meeting B

Christmas Day and New Year's Day are on Thursday's this year. As a result our annual holiday Meeting B will be held on Tuesday, Dec 30th at 7PM. If you would like to attend,

please provide me with your name, guest's name if you are bringing one, and dinner choices by Dec 29th latest but the sooner the better so that we can get a head count estimate. Contact me at n2ss@n2ss.com or on my cell 609-221-4899 and let me know. Same prices as the last several years and as usual monies will be collected the night of the dinner.

Details:

Place: Rexy's, Black Horse Pike, Rt. 168 (just off the Walt Whitman Bridge)

Menu: Choice of Baked Manicotti, Chicken Marsala, Stuffed Flounder, Filet Mignon or Prime Rib

Incl: Soup or salad, rolls and butter, coffee/tea and ice cream

Price: \$24.50 for manicotti, chicken or flounder.

\$27.00 for Filet or Prime Rib.

The price includes tax and tip.

Drinks: Cash bar on your own..

Always a great time. Come Join us.

OFFICIAL ARRL DXCC STATS

Active Count.....	338
Deleted Count.....	58
Last Addition.....	FJ
Last Deletion.....	STØ

8Q MALDIVES

SP2JMB as 8Q7SC now through Dec 10th on 80 to 10 meters CW only. Now here's a rarity: QSL instructions are via LotW. But if you really want a paste board confirmation, via SP2JMB is the route.

FT/W CROZET

F4DYW will be providing scientific support on Crozet for one year beginning Dec 1st and will be signing as **FT5WO** as time permits. Operation will be 80 through 10 meters SSB only. QSL to his home QTH but he asks to hold all cards until after his return in 2010.

J5 GUINEA BISSAU

J5UAP by HA3AUI continues quite active on 160 through 10 meters CW, SSB and digital modes. Operations will continue until March. QSL to his home call.

XU CAMBODIA

Pete, NO2R, will be back in Cambodia from Dec 15th and signing as **XU7ACY** on 160 through 10 meters. QSL via W2EN.

Z2 ZIMBABWE

7Z1HB will be active as **Z21LS** from Harare Nov 30th to Dec 9th. Operation will include RTTY and PSK. QSL via DE1ZHB.

N2 Special salute

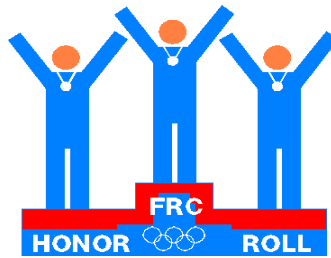
Have you made your contribution yet? Contribute to your Newsletter and get the "S" "S".

©

73, Tony N2SS

You can reach me as follows:
H:856-227-4896 C:609-221-4899
n2ss@n2ss.com





DECEMBER

conducted by N2SS

2008

WARC BANDS

<u>30 Meters</u>	<u>17 Meters</u>	<u>12 Meters</u>
K2FL .. 337	K2FL...340	N2TK ..331
N2TK335	N2TK 339	K2FL.....327
N2LT326	N2LT 337	N2LT.....323
W3BGN324	W3BGN ... 333	W3BGN...317
W2YC312	N2SS 325	WØMHK ..313
W8FJ302	WØMHK.. 323	N2SS.....303
N2SS298	W2UP 322	W2YC.....280
W2UP294	W2YC 316	K2PS.....269
K2PS290	K2PS 311	W2UP267
WØMHK ..288	W8FJ 299	W8FJ.....235
N3RD284	W2IRT..... 270	N1RK.....218
W2IRT244	N1RK..... 261	K3II.....203
K3II.....234	K3II 256	W2LE198
W2LE.....221	W2LE 244	W2YR187
K2QPN176	K2AX 236	W2IRT137
N2VW.....165	W2YR 203	W2IRT105
AB2E156	K2QPN..... 129	AB2E92
N1RK134	AB2E..... 127	K2AX86
W2YR134	K3ND 127	N2VW.....35
K3ND91	N2VW..... 123	K2QPN22
K2AX81	K3GYS..... 85	K3GYS30
W2CG38	W2CG 17	W2CG.....2
K3GYS17		

Still looking for that elusive, undisputed **KING OF WARC**



ARRL DXCC Challenge

N2LT 2964	N1RK 1908
N2TK 2925	W2IRT 1870
W2YC 2721	W2YR 1712
WØMHK ... 2629	K2AX 1631
K2PS 2295	W2CG 1187
N2SS 1952	AB2E..... 1104
.....	K2QPN..... 734

Lew continues in the lead.



MOBILE DX

AA1K 277	K3GYS..... 143
W2YC 276	W2YR 28
N2SS 234	

Well, he's done it! Jon is now our official B ig W heel.

160 Meters

W3BGN305	K2FL..... 151
AA1K301	K3ND..... 137
WT3Q.....275	W2IRT 122
N2LT264	W2CG 116
N2TK.....259	K2PS 112
NO2R.....258	K2AX..... 106
K3SX243	N2VW 103
W8FJ235	AB2E 100
K3JIG230	W2YR..... 83
W2UP220	N2SS 81
W2YC.....208	K3NL 70
K3II160	W2LE..... 64
WØMHK158	N1RK..... 56
N3RS156	K2QPN 24
.....	K3GYS 12

W3BGN, our ultimate 160 Meter DXer, continues at the **Top of Top Band!**



DIGITAL

W2UP.....342	KQ3F 132
N2LT339	K2QPN 120
K2PS.....298	W2CG 91
W2YC.....287	N2SS 65
W2IRT206	W3BGN 41
W2LE141	N1RK..... 39
N2TK.....140	K3GYS 15
W2YR.....132	W8FJ..... 12

Rules for FRC Honor Roll Listings.

DXCC Challenge is CONFIRMED total ACTIVE (no deleted) per ARRL rules. For all others provide me with your total IOTA's worked, or countries (including deleted) worked for: WARC Bands, 160 Meters, Digital modes, Mobile, 6 Meters or your total for 80,40,20, 15 and 10 for 1.5K Club.



1.5K Club

K2FL..... 1725	K3ND1508
W3BGN 1711	W2CG1504
N2TK..... 1703	WØMHK1499
N2LT..... 1703	K3II1449
W2UP 1684	N2VW1315
N3RS..... 1638	N1RK.....1309
W8FJ 1619	W2LE1193
W2YC 1598	AB2E1185
N3RD..... 1578	W2IRT.....1163
NO2R..... 1556	W2YR.....1157
N2SS 1545	K2AX1101
K2PS 1544	K2QPN753



Islands On The Air

K2FL..... 1021	K2AX298
N2SS 856	N2VW.....275
W2YC 674	W2YR.....248
W8FJ 623	W2IRT.....232
N1RK555	K3GYS232
WA3RHW... 313	AB2E205
WØMHK..... 381	K2QPN196



6 METER DXCC

N2LT..... 110	WT3Q.....50
K2PS 108	W2YR.....44
WØMHK..... 108	W2YC.....38
AA1K..... 100	N2TK.....29
K30093	K2AX21
K3SX..... 75	K3GYS10
N1RK57	K2QPN9
N2SS 55	W3BGN.....7
.....	W2CG.....5

N2LT is right back at the top of 6 Meters!



THE FRANKFORD RADIO CLUB NEWSLETTER

P. O. Box 431 Albury, PA 18011-0431



Affiliated Club

The Frankford Radio Club

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Repeater - 2 meters, 147.27/147.87 Input and Output PL tone, 114.8

Home Page - www.gofrc.org

Meetings

Meetings are held on the 2nd Wednesday of each month (Sep through May) at 8 PM at the firehouse at 170 Allendale Road in King of Prussia, PA . Summer meetings are held at member homes (one Saturday/ Sunday per month).

Packet Cluster Contest/DX System

144.950 K3ZV
145.050 W3TUA
145.530 AA1K
145.530 K3WW
145.570 WT3Q
145.670 W3PP

Telnet DX Cluster

k2ut.gofrc.org
k3ww.gofrc.org 7300
tuacluster.no-ip.org:23