



THE FRANKFORD RADIO CLUB NEWSLETTER

PROFICIENCY THROUGH COMPETITION

CALENDAR

April 2009:

- 4-5 SP DX Contest
- 14 FRC Main Meeting, 8 PM**
- 16 T.I.T.S. Meeting, Noon**
- 18-19 YU DX Contest
- 25-26 Helvetia (HB9) Contest
- 25-26 Florida QSO Party
- 28 REXY Meeting B, 8 PM**

May 2009:

- 9-10 CQ-M DX Contest
- 12 FRC Main Meeting, 8 PM**
- 21 T.I.T.S. Meeting, Noon**
- 26 REXY Meeting B, 8 PM**
- 30-31 CQ WW WPX Contest, CW

June 2009:

- 9 REXY Meeting B, 8 PM**
- 18 T.I.T.S. Meeting, Noon**
- 20-21 All Asia DX Test, CW
- 23 REXY Meeting B, 8 PM**
- 27-28 ARRL Field Day

CHANGES

Email Changes

K3SWZ—bgkurz@verizon.net

New FRC Contributor

Deadline for May issue:

Sunday, April 26, 2009

President's Column

Spring is here and so is the end of the Fall/Winter Contest Season. I want to thank everyone who participated in one or both ARRL Weekends for their efforts. Whether you posted a big score or a little score, they all help. Thanks! Now we just have to wait and see how our combined score compares to YCCC. If you have not yet sent in your logs, please do it now. You time in the chair does us absolutely no good if you fail to submit your logs on time.

The April meeting will once again be held at REXY's. We will also be holding elections at this meeting so it would be nice to have a good turn out. The slate of officers is the same as it was last year. Mark your calendar for Tuesday, April 14th at 8 pm and be there! In addition to holding elections, we will be talking about the recent club survey.

Hope to see lots of you in two weeks.

73, John, W8FJ

New Main Meeting Location

REXY's, 700 Black Horse Pike Mt Ephraim, NJ 08059.
 Tuesday, April 14 at 8 PM (7 PM for dinner/socializing)

Directions at http://Philadelphia.citysearch.com/profile/map/6805841/mt_ephraim_nj/rexy_s_bar_restaurant.html >

10th Year as Editor



This issue marks 10 years since I edited my first issue in April 1999. I still remember the feeling of complete befuddlement as I got my feet wet. Without Chas, K3WW's early and continuing help this would have been a far more difficult task,

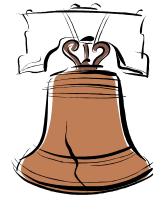
I'd like to thank all the FRC presidents during that time for providing me with (almost) monthly material. And a special thanks to Tony, N2SS, for always providing at least two pages, pages I don't really have to worry about because they're so good. Finally, I'd like to thank all who contribute material, no matter how large or small. It really makes my life a lot easier.

73, Joe KQ3F

MEETINGS

Main Meeting

The next meeting will be on Tuesday, April 14 at (7 PM for dinner/socializing, 8 PM for the meeting) at Rexy's. The address is **700 Black Horse Pike Mt Ephraim, NJ 08059**. Coming from Pennsylvania, take the Route 168 South exit off the Walt Whitman Bridge. After you reach Route 168 South, Rexy's is about 3/4 mile on the right - less than 2 minutes off the bridge.



T.I.T.S. meeting—The Trexlertown International Transmitting Society meets on Thursday, April 16 at 12:00 noon. Location is the Hometown Diner on Route 222 in Trexlertown..

Rexy Meeting B—The Rexy's **FRC Meeting B** will meet about 8 PM on Tuesday, April 28.

Thank You!

Thank you for the plaque donated for the CQWW CW 2007 single op single band 3.5 MHz winner, ZB2X. My aim was to set the new European record but it remains until next time.

73 Jorma OH2KI = ZB2X

FRC Contest Operating Achievements



ARRL DX Tests

Bob, **KQ2M**, set a claimed new 20 meter US Single-Op Unassisted records for both ARRL DX CW and ARRL DX SSB, beating all the multi-multi stations on that band.

Pennsylvania QSO Party

Keith, **W3KB** is the winner in both the EPA Medium Power Division and in Cumberland County.

Bud, **AA3B**, is the winner in both the EPA High Power Division and in Berks County, and had the highest overall score.

Paul, **N3KR**, is the winner in Philadelphia county.

Joe, **KQ3F**, and college friend Charlie, **KB3CO**, won top Mobile as **KB3CO/M**, and also won Clinton, Montour and Northumberland counties.

FRC placed second in club scores, posting six scores for 578,256 points. Murgas ARC was first, submitting 21 scores for 895,991. (*Ed. note: I'm just sayin', if FRC wanted to...*)

FRC 2009 ARRL DX CW CLAIMED SCORES

Station	Class	Score
AA1K	SO	3,775,614
AA3B	SOA	3,484,698
J7N	SOA	3,355,056
<i>Op K3TEJ</i>		
K2CJ	SO	264,120
K2DM	SOQ	546,777
K2GN	SOA	62,775
K2PS	SOL	1,113,750
K2QPN	SOA	145,548
K2SG	SOA	1,922,613
K2Z	SOA	4,145,592
<i>Op K2NG</i>		
K3GYS	SOL	6,150
K3II	SOA	132,258
K3IPK	SOA	1,238,000
K3ND	SOA	964,650
K3NM	SOA	512,820
K3OO	SOA	774,900
K3PH	SOQ	525,360
K3PP	SOA	154,800
K3WI	SO	49,200
K3WW	SOA	4,471,020
K9RS	MS	4,468,098
<i>Ops K9RS N3DXX W2GD</i>		
KC2NB	SOA	88,425
KD2HE	SOA	59,892
KD3TB	MS	307,632
<i>Ops KD3TB K3FMQ KD3RF</i>		
KP2/K3MD	SO	1,804,188
<i>Op K3MD</i>		
KP2M	SO	3,888,540
<i>Op K3CT</i>		
KQ2M	20	787,680
N1RK	SO	683,046
N2LT	SO	3,029,859
N2MM	SOA	2,467,680
N2RM	M2	3,527,500
<i>Ops N2RM K3ZV</i>		
N2WKS	SOA	1,105,515
N3GNW	SOA	143,100
N3MX	MS	606,672
<i>Ops N3MX K3YD</i>		

Station	Class	Score
N3NR	SOA	147,060
N3RS	M2	6,835,836
<i>Ops N3RS K3JCT N2SR N3ED N3NA N3RD</i>		
<i>W8FJ</i>		
N3ZA	SOA	739,200
N9GG	SOL	4,416
NE3F	M2	2,949,024
<i>Ops NE3F AB3AH K3ATO KS3F N3BNA</i>		
<i>WA3WLH</i>		
V48M	SO	2,220,030
<i>Ops W2OX</i>		
W1GD	SOA	1,543,797
W2CG	M2	1,677,975
<i>Ops W2CG W2EN</i>		
W2IRT	SOA	984,456
W2LE	SOA	658,668
W2UP	SOA	1,076,376
W2YC	M2	2,403,576
<i>Ops W2YC AA2WN KA2NDX N2CQ</i>		
<i>W0MHK</i>		
W2YR	SOA	612,612
W3BG	SOA	211,932
W3BGN	MS	4,640,000
<i>Ops W3BGN K2TW NO2R W2GD</i>		
W3CF	SOA	776,169
W3EA	SOA	70,244
W3FVT	SO	71,148
W3GK	SOA	465,060
W3IZ	SOA	177,210
W3KB	SOL	763,875
W3MF	SOA	47,124
W3PP	MM	5,722,269
<i>Ops W3PP K3WI NW3Y W2GJ WB4FDT</i>		
<i>WG3J</i>		
W3SQ	SO	60,000
W3TUA	SOA	72,795
W6XR	SOA	921,552
WA2VYA	SO	572,286
WB3FIZ	SOA	519,120
WE3C	M2	8,158,644
<i>Ops WE3C KF3B KQ3F NN3Q W2GD W3FV</i>		

Total 95,715,982

FRC 2009 ARRL DX SSB CLAIMED SCORES

Station	Class	Score	Station	Class	Score
AA1K	SO	2,459,424	N3YW	SO	236,544
AA3B	SOA	2,008,230	N3ZA	SOA	925,806
AB2E	SOA		NE3F	M2	2,205,780
K2AX	MM		<i>Ops NE3F AB3AH K3ATO KA3GWA KS3F</i>		
K2CJ	SOA	205,350	<i>N3OW NT3V</i>		
K2GN	SOA	357,504	PJ4G	SOA	5,748,204
K2PS	SOL	812,214	<i>Op K2NG</i>		
K2SG	SOA	991,287	V48M	M2	3,508,000
K2SQS	SOA	100,368	<i>Ops K3NM W2OX</i>		
K3CT	SOA	298,080	VP9I	MS	2,682,864
K3FT	SOA	437,955	<i>Ops K3PH W3MF</i>		
K3IPK	SOA	585,189	W1GD	SOA	941,220
K3MD	SOA	630,315	W2CG	SOA	828,828
K3OO	SOA	209,364	W2IRT	SOA	830,760
K3PP	SOA	1,571,130	W2LE	SOA	352,800
K3SWZ	SOL	228,726	W2RD	SOA	913,360
K3TEJ	SOA	137,532	W2YC	SO	603,780
K3WI	SO	557,976	W2YR	SO	3,564
K3WW	SOA	2,395,140	W3BGN	MS	3,202,425
K3ZA	SOL	42,066	<i>Ops W3BGN K2TW NO2R</i>		
K9RS	SOA	1,081,596	W3CC	M2	1,051,620
KC2NB	SOA	128,520	<i>Ops W3CC N3GNW</i>		
KD2HE	SOA	55,224	W3CF	40	2,457
KD3TB	MS	393,708	W3EA	SOA	300,960
<i>Ops KD3TB K3FMQ KD3RF</i>			W3FVT	SO	122,610
KF3B	SO	434,400	W3GK	SOA	116,046
KP2M	SO	4,452,726	W3GM	SOA	601,000
<i>Op N2TK</i>			<i>Ops K3ND</i>		
KQ2M	20	1,031,625	W3KB	SOA	402,528
KV2M	SO	117,912	W3PP	MM	2,643,432
N2NT	SO		<i>Ops W3PP K1RY K3JD N3RRR WB4FDT</i>		
<i>Op W2GD</i>			<i>WG3J</i>		
N2VM	SOL	18,216	W3SQ	SO	27,000
N2VW	SOA	313,200	W8FJ	SOA	31,521
N3MX	SOA	612,882	WA2VUN	80	20,520
N3RJ	SO	239,700	WE3C	M2	6,120,684
N3RS	M2	4,779,000	<i>Ops WE3C K3TUF KF3B KQ3F KQ3V</i>		
<i>Ops N3RS N3ED N3NA N3RD W2ID W3CF</i>			<i>N3FTI NM3E NN3Q W3FV</i>		
<i>W8FJ</i>			ZP0R	SOA	1,259,874
					Total 63,370,749

<http://www.lz1jz.com>



Product Review -- KD9SV Front End Saver by Glenn Kurzenknabe, K3SWZ

In the Fall of 2007, as the thoughts of wonderful 160 Meter conditions danced in my feeble brain, I got to thinking about several mentions I had seen of possible damage to one's transceiver if they were using alternate receive antennas while transmitting high power on the primary antenna. Since I have been using a variety of different receive antennas for a number of seasons, I guess I have been lucky as I never had any problems with the FT-1000MP, even though the receive antennas were fairly close physically to the transmit antenna, due to the size of my property. Toward the end of last season, I purchased a Broadcast Band Reject Filter built by KD9SV from Radioware. That was worth every penny of the \$30 that it cost. My receive pre-amp is broadband (1-30 MHz) and untuned, therefore BCB interference was a problem that needed to be eliminated. That filter did the job. I recalled seeing on the Radioware web site, another KD9SV product called the *Front End Saver*. I looked over the information and learned that it grounded the secondary receive antenna input during transmit. The cost was only \$80, so I ordered one. When it arrived, I had to open the case, like any self-respecting ham would do. It is a neat little box and built very nicely. After looking at the schematic, my first thought was, I could have built one of these. Yea right, pencil whip out a design, gather up the parts and fool around, drilling holes, etc. No way!! I am getting too old for that, hi!! It is connected to the rig with five (5) RCA cables. The +12 VDC required to operate it was obtained from the FT-1000MP, as it has a jack that provides +12VDC. The biggest problem I had in hooking it up was locating five RCA – RCA cables in my rats nest of spare cables that were not 3 or 4 feet long!! I did locate 4 nice ones about 18" long and a fifth for the antenna line that happened to be an actual piece of high quality coax with RCA connectors on both ends,. It was a remote VFO line left over from the several Drake 4 lines that I owned over the years. I got it all hooked up in about 10 minutes. The relay is so quiet that I had to put my hand on it when I keyed the rig to see if it was working. It is set-up for QSK, but since I don't use QSK, I cannot comment on that feature. For \$80, it sure is cheap insurance. I would strongly suggest this box, if you are using alternate receive antennas and are not protecting your rig in some manner.

Interesting History by Glenn Kurzenknabe, K3SWZ

I am sure many of us remember the old famous FT-243 crystals we used as a Novice or on the 6 and 2 Meter bands in rigs of the 50's, 60's and 70's. They were the Phenolic cases that were held together with three screws and generally had a metal nameplate. As a side note, those packages are called "Compressions Mounts" having reference to the fact that the crystal blank is compressed between two metal plates that match the size of the crystal blank. The entire "sandwich" is compressed in the package and held together with the screws. By today's standards that design was pretty bad, but consider that it was designed 65 plus years ago. Today's crystals are enclosed in vacuum-sealed cases and the electrodes are gold or silver and/or other metals depending on the application. They are far more sophisticated by necessity. Sometimes it is hard to believe that we "won the war" with technology such as the FT-243 crystal! Having spent my entire working career working around and with quartz crystals, I was always fascinated by the unique history of this device. An old timer in the business told me that during WW II, there were about 150 companies cranking out crystals for the war effort and many of them were FT-243 types. I decided to set out on a mission to see just how many different manufacturers I could scrounge up at hamfests, etc. I had a few "scouts" helping me also. After 20 years or so of looking in junk boxes and carrying my list around at hamfests, I have 109 different companies represented in my collection! There must have been some truth to that old timer's story. All but a very few of these companies are gone and those that remain probably have no one on their staff who even remembers an FT-243, unless he is an older ham!! What is the collection worth? Probably nothing, except the sentimental value to someone who may want to preserve a bit of history as I have done.



FRC Badge Information

Bruce, **W2BE**, would like everyone to know that if you would like to have an FRC badge, he can provide it. *(Thanks for Dave, K3FT, for the info)*

Bruce Eichmann, W2BE
910 Lower Buck Ridge Rd.
P.O. Box 12
New Germantown, PA 17071-0012

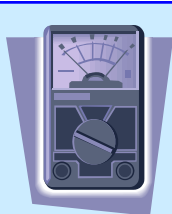
Need New FRC Repeater Location

Looking for a new location for the 145.430 repeater which is now in Delaware county. It is a 100 watt Micor repeater, with a RC1000 controller, and duplexers. No money required, just a new home.



For Sale: 60 Ft Morrison self supporting steel tower. Mast for tower is 20 ft of 2 3/4" pipe, with a piece of 2 1/2" welded inside. Also there are steps welded to the mast. There is also 40 Ft of drive pipe to locate a rotor down in the tower. Tower is still up and can be seen anyday. \$ 150.00

For more information on either item, please e-mail me at k3nl@verizon.net



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73 Tim Brown NM3E 610-207-4865



Antenna 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)

Reprinted with permission from the March 4, 2009 ARRL Contest Update

With thunderstorm season right around the corner (except where it's already here), some reading about lightning protection is in order. Both ICE Radio Products <<http://www.iceradioproducts.com/10.html>> and Polyphaser <http://www.polyphaser.com/technical_notes.aspx> are well-known in the ham community and have extensive listings of products and application information. Polyphaser also publishes the book "Lightning Protection and Grounding Solutions for Communications Sites", an excellent reference. (Thanks, Gary N3JPU)

Reprinted with permission from the April 1, 2009 ARRL Contest Update

Where is everybody on 40 meters now that broadcasters have (mostly) moved out? IARU Region 1 (Eu/Africa) has an updated band plan <www.iaru-r1.org/Region%201%20HF%20Bandplan%202009.pdf>. There is no change in allocations in Region 2 (North/South America) <www.iaru-r2.org/counter/getfile.php?id=5> so no band plan changes are expected. IARU Region 3 (Asia/Pacific) <www.iaru-r3.org/r3bandplan.doc> has not posted an updated band plan yet. (Thanks, Tom K1KI)

Jim AD1C has released a new program called ClubScore <<http://software.ad1c.us/>>. It takes a 3830 Score Summary and filters out the scores for your particular contest club as shown in this example <<http://mailman.qth.net/pipermail/gmc/2009-March/008051.html>>. This is version "one-point-uh-oh" and Jim requests any feedback be sent to him as directed on the Web site. ClubScore is a good tool to help promote activity and enthusiasm among your club members.

Amateur Radio Exchange <<http://www.amateurradioexchange.com/>> is a new amateur radio auction site, similar to eBay.com in style and operation. There will be a forum for discussion and to use the site, registration will be required. The site complements popular swap sites on QRZ.com and eham.net. As always, caveat emptor.

Tim K3HX has discovered that solid fiberglass rods are being sold at farm supply stores very inexpensively. The fencing section of his local Tractor Supply Company stocks 4' x 3/8" rods with one end pointed - possibly for electric fencing. These might come in handy for antenna building, so keep your eyes open for another source of Good Stuff!

Splitters are commonly used to share receive antennas between different radios. No need to make the job more complicated than necessary, Jim K9YC recommends the Mini-Circuits Labs <<http://www.minicircuits.com/>> products as very good passive splitters at very reasonable prices. The ZFSC-2-1W is a two-way splitter that is specified for a minimum of 20dB isolation (30 dB typical) from 1 MHz to 750 MHz. The ZFSC-2-4 is a four-way splitter that covers 0.2-1,000 MHz with about 10dB less isolation.

If you didn't look before you sat and now your brand-new boom-set's flat...John K1AR sends word of repair information for Heil products <<http://www.heilsound.com/amateur/repairs/index.htm>>.

Hurricane Watch Net Seeks New Members

With hurricane season approaching, the various organizations that assist the National Hurricane Center (NHC) <<http://www.nhc.noaa.gov/>> in Miami are gearing up for what could be a very active storm season. One organization that assists the NHC is the Hurricane Watch Net (HWN) <<http://www.hwn.org/>>. To better assist the NHC, HWN Manager Dave Lefavour, W7GOX, told the ARRL that the HWN is looking for new members.

"The Hurricane Watch Net relies on volunteer operators -- our members -- who serve as our net control stations," he said. "HWN members are hams who have above-average stations, are capable of effectively conducting HF net operations and are willing to commit their time to operating in support of the HWN's mission during Net activations. The Net sessions can be long, and, in the recent absence of sunspots, pretty grueling."

Lefavour said that the HWN is looking for new members with stations that can effectively communicate with Central America and the Caribbean, Mexico and South Texas on the 20 meter band. "With the low solar activity, our Assistant Net Manager Brad Pioveson, W9FX, is very interested in finding more members that can help with Net Control Station duties on the low ends of the 40 and 80 meter phone bands," Lefavour said, "as we're having to broaden our focus from only operating on 14.325 MHz.

Notes From Your Editor

I received an email just as I was writing this month's column from N3BNA. Dale was asking for good news about the Solar Cycle. I could pull a Francis Church, the famed editorial writer, who responded to 8 year old Virginia O'Hanlon's question by penning the now famous: "Yes, Virginia, there is a Santa Claus." But, unfortunately Dale your 8th birthday is long past.

The chart below tells the regrettable tale. As you can see I have plotted the monthly solar flux numbers from the declared beginning of the current sunspot cycle and overlaid them against the same relative points in time of the previous 2 cycles. And, a sad tale it is. It looks like Cycle 24 is the 'lost weekend' of sunspot cycles. At this point in time the previous cycles were around the 100 level. This is a level that

supports solid propagation for DX on 15 meters and begins to open things up on 10. As the current cycle continues to bounce along at essentially the zero sunspot level, 15 and 10 meters will continue to be inhabited by nothing much more than band noise. (Sorry guys, this continuing sad sunspot news is not an April Fool.)

26th Year of FRC DX News

This month marks the beginning of my 26th year of writing this column for the club newsletter. I didn't put that many years in at Sony – and that was the company I retired from!

OFFICIAL ARRL DXCC STATS

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

⬆️🌐📡 SØ WESTERN SAHARA

An international group of 10 ops will be signing as **SØ4R** on all modes 160 thru 10 meters from April 12th-17th. QSL via EA5RM.

📡🌐📡 VK9X CHRISTMAS ISLAND

JA1XGI will be on as **VK9XGI** from April 4th to 11th. This will be an all band operation mainly on CW and digital modes. QSL direct or via the bureau to JA1XGI.

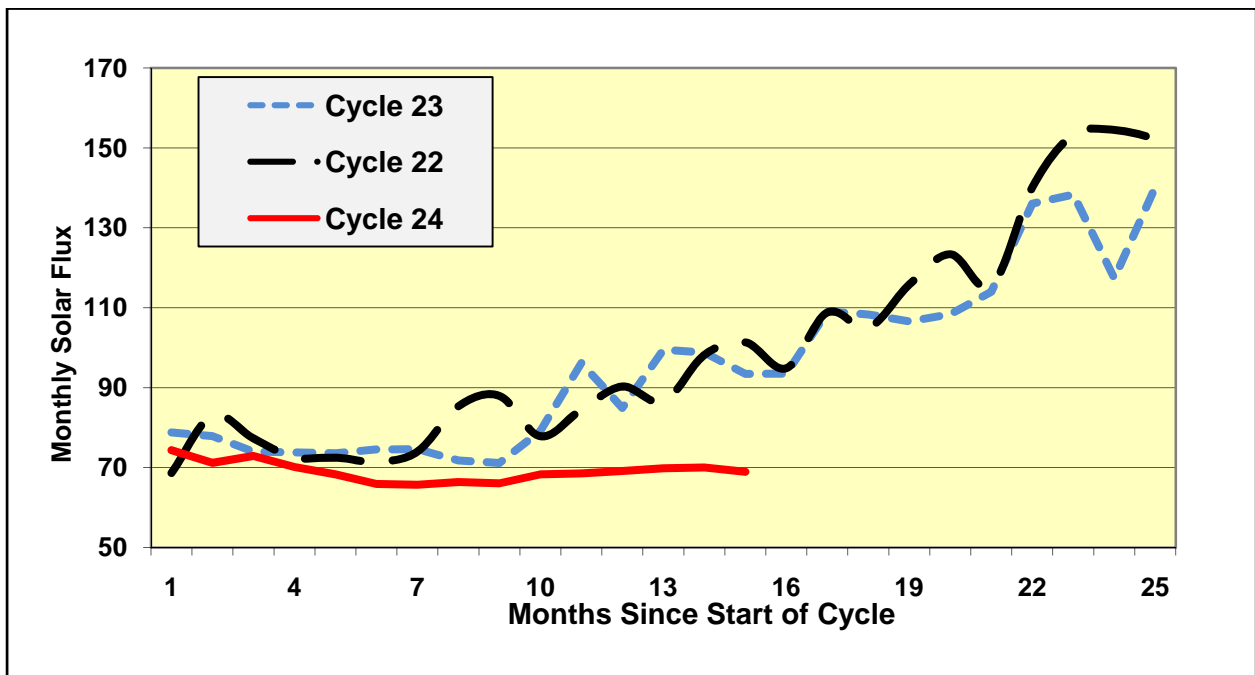
N2 Special salute

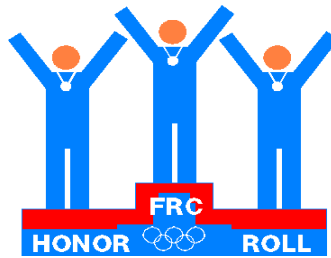
Have you made your contribution yet? Contribute to your Newsletter and get the "S" "S".

©

73, Tony N2SS

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





APRIL

conducted by N2SS

2009

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
W2YC314	N2SS 326	WØMHK ..313
W8FJ302	WØMHK. 325	N2SS.....303
N2SS299	W2UP 322	W2YC.....282
W2UP296	W2YC 319	K2PS.....270
K2PS292	K2PS 312	W2UP268
WØMHK ..290	N2MM..... 300	W8FJ.....235
N3RD284	W8FJ 300	KQ3F.....219
N2MM260	W2IRT..... 270	N1RK.....218
W2IRT244	KQ3F..... 269	K3II.....203
K3II.....234	N1RK..... 266	W2LE202
W2LE.....223	W2LE..... 261	N2MM194
KQ3F215	K3II..... 256	W2YR.....187
K2QPN182	K2AX 236	W2IRT137
N2VW182	W2YR 213	W2IRT105
AB2E156	K2QPN..... 134	AB2E92
N1RK144	N2VW 133	K2AX86
W2YR144	AB2E..... 127	N2VW.....43
K3ND91	K3ND..... 127	N2WKS37
K2AX81	K3GYS..... 85	K3GYS30
N2WKS51	N2WKS 71	K2QPN22
W2CG38	K2GN 19	W2CG2
K3GYS17	W2CG 17	
K2GN.....9		

Still no **KING OF WARC**



Islands On The Air

K2FL 1029	K2AX 298
N2SS 859	N2VW 282
W2YC 694	W2YR 271
W8FJ 623	W2IRT 232
N1RK 557	K3GYS 232
WØMHK 432	AB2E 205
WA3RHW ... 313	K2QPN 2040



MOBILE DX

AA1K 278	K3GYS 143
W2YC 276	W2YR 28
N2SS 234	

Jon continues as our **B ig W heel.**

160 Meters

W3BGN306	K3ND..... 137
AA1K302	W2IRT 122
WT3Q277	N2VW 121
N2LT264	K2PS 116
N2TK261	W2CG 116
NO2R.....258	K2AX 106
K3SX254	AB2E 100
W8FJ236	K2GN..... 98
K3JIG230	W2YR 92
W2UP222	KQ3F 87
W2YC217	N2SS 81
N2MM195	W2LE 71
K3SWZ.....178	K3NL 70
WØMHK161	N1RK 65
K3II160	N2WKS 30
N3RS156	K2QPN 28
K2FL154	K3GYS 12

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



DIGITAL

W2UP.....342	W2YR..... 132
N2LT339	K2QPN 123
K3SWZ.....327	W2CG 91
W3KB315	N2SS 67
K2PS303	N2WKS 55
W2YC300	K2GN 50
W2IRT206	W3BGN 44
KQ3F199	N1RK 39
W2LE171	K3GYS 15
N2TK170	W8FJ 12

Rules for FRC Honor Roll Listings.

DXCC Challenge is CONFIRMED total ACTIVE (no deleted) on 160-6 excl 60 Meters 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..... 1726	W2CG1504
W3BGN 1712	WØMHK...1503
N2TK..... 1704	KQ3F.....1498
N2LT..... 1703	K3II1449
W2UP 1685	N2VW1334
N3RS..... 1638	N1RK.....1312
W8FJ 1619	W2LE1225
W2YC 1611	AB2E1185
N3RD..... 1578	W2YR.....1170
N2MM 1559	W2IRT.....1163
NO2R..... 1556	K2AX1101
N2SS 1545	K2GN1069
K2PS 1555	N2WKS817
K3ND..... 1508	K2QPN771



ARRL DXCC Challenge

N2LT.....2964	W2LE1864
N2TK..... 2926	W2YR.....1747
W2YC 2776	N2VW1664
WØMHK... 2629	K2AX1631
K2PS 2394	W2CG.....1187
KQ3F..... 2196	AB2E1104
N2SS 1952	N2WKS1007
N1RK 1941	W3KB.....901
W2IRT..... 1870	K2GN877
.....	K2QPN767

Lew continues in the lead.



6 METER DXCC

N2LT..... 110	W2YC.....48
K2PS 109	W2LE46
WØMHK..... 108	N2TK31
AA1K 100	K2AX21
K3OO 93	N2MM21
K3SX..... 75	K2GN12
N1RK 57	K3GYS10
N2SS 55	K2QPN9
W2YR 50	W3BGN9
WT3Q..... 50	W2CG.....5
.....	N2WKS2

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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Secretary, **N3ZA**, Moe Mosheim, Jr.....215-256-4004
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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 REXY'S, 700 Black Horse Pike, Mt. Ephraim, NJ. 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