



THE FRANKFORD RADIO CLUB NEWSLETTER

PROFICIENCY THROUGH COMPETITION

CALENDAR

November 2002:

- 2-3 ARRL Sweepstakes, CW
- 9-10 European DX Test, RTTY
- 8 FRC North, 7 PM**
- 12 FRC Meeting, KofP, 8 PM**
- 12 Rexy Meeting B**
- 13 FRC NYC, 7 PM**
- 15 FRC West, 7:30 PM**
- 16-18 ARRL Sweepstakes, SSB
- 21 T.I.T.S. Meeting, Noon**
- 23-24 CQWW CW DX Test**
- 26 REXY Meeting B, 8 PM**

December 2002:

- 6-8 ARRL 160 Meter contest
- 10 FRC Meeting, KofP, 8 PM**
- 14-15 ARRL 10 Meter contest
- 30 REXY's Holiday Meeting, 7PM**
- TBD FRC Pizza Blast**

January 2003:

- 4-5 ARRL RTTY Roundup
- 11-13 NA QSO Party, CW
- 18-19 NA QSO Party, SSB
- 24-26 CQ 160 Meter contest, CW

February 2003:

- 15-16 ARRL CW DX Test**

March 2003:

- 1-2 ARRL SSB DX Test**

CHANGES

None this month!

MEETINGS

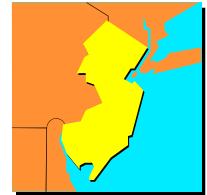
Main Monthly Meeting

On Tuesday, November 12, the main **FRC** monthly meetings will be held at the Firehouse in King of Prussia. The meeting will start at 8:00 with food and drink available prior to the start.



Rexy Meeting B

The Rexy's **FRC** Meeting B meets after the main **FRC** meeting on the second Tuesday of each month, and at about 8 PM on the fourth Tuesday of each month



T.I.T.S. meeting

Meetings of the Trexlertown International Transmitting Society (T.I.T.S.) are held every month at 12 noon on the third Thursday (November 21). The location is the Pied Piper Diner, on PA 222 between PA 309 and PA 100, Trexlertown, PA. The Diner is across the street from the main entrance to Air Products and Chemicals, Inc.



NYC FRC Meeting

There will be a NYC meeting at Old Johns Restaurant on November 13th, 2002 at 7 PM till about 8:30 PM. This meeting is open to all hams in NYC and surrounding area. It would be nice if some more **FRC** members would come by to join us as I expect the majority of the crowd will be non-members. For directions contact Zev Darack, N2WKS: N2wks@arrl.net
Old Johns Luncheonette
148 West 67th Street
New York, NY 10023
212-874-2700



More meetings on page 6



President's Column

Wow! That was FUN! AWESOME Job guys! **SCORES TO K3WW ASAP!!** I see a lot of **BIG FRC** scores on 3830! I particularly like the ones that admitted they had a good time. This is SUPPOSED to be FUN! Every contest has that one time that makes a mark on your entire effort. For me this was having 3D2RW call in on 10 as the band faded and I had been calling for long stretches into dead air. Just before that I was looking over at a multiplier on the unmanned 40m station and almost got up and went over there out of boredom. Luckily the 40m mult was a zone 8 DXpedition that we could get most anytime so I decided to stay on 10. This was the one time I remembered to pass a mult and TW worked him on 15. Calling CQ has its advantages. **N2NC** invited me to op with **N2RM, K2TW, NA2AA, W2REH, WK2G** and **WM2H** at **N2RM**, and I was excited to see the massive aluminum in place as I entered the driveway of the superstation. The **N2RM** shack has a unique "lived in" feeling and the RM gang said I saw it in the clean condition. Operators sit elbow to elbow in a 6' X 8' cell, er, room with two radios per band on 10-40m. Yeasu 1000MP's and Mark V's are everywhere! Amplifiers are the usual m/m gamut of Alpha 87's and Ten Tec Titans plus the obligatory old L4 and Henry cabinet model keepsakes. The freshly delivered porta potty completes the picture. The one thing I have noticed in all **FRC** multi ops is that we need to make a group buy on proper chairs for operators. If anyone has a line on office chairs, moderately priced (new or used) speak up. To spend 40-48 hours in a chair that does not offer lumbar support and an adjustment for height is asking too much from our old backs. **N3RD** had a line on an excellent chair but not too many of us are going to spend 600 dollars on a contest chair. Though we should! Santa owes us that much after he brings the YL little sparkly rocks.

For you guys that have little pistol stations like mine I urge you to buddy up to your nearest multi and see if he will let you play with his big antennas for a couple of weekends a year. There are usually seats available if you are willing to make Q's. If invited, do your part. Show up early, bring goodies, work hard. Be respectful of the owner and his family so you are invited to return. It is especially exciting to sit at the helm of a band knowing you have 6/6/6 independently rotating antennas at your disposal. A word of caution though; once you return home to the tribander at 60' there is a big let down. You won't find it so easy to dominate a frequency. Thanks to Bob, John, and the rest of the big guns at RM's for allowing me to play. Stations that caught my eye over the weekend were **N2NT, N3NA, W3BGN, N2MM, K3PP,** and **K3WW** who smoked me in pile ups all weekend long. **N3NA** was just plain LOUD. It was nice not getting smoked by **K3NZ** this year. He was at **WP2Z. N2VW@ VP5T** was loudest DXpeditioner on 10. Nice job by **P40W** Low Power. Noticed commands for spotting DX was different. With the old cluster software the command syntax was D FREQ CALL Comments. With the Spider you need to put the X in there as in DX FREQ CALL COMMENTS or it won't work. Drove me crazy until I figured it out. Also notice the major improvement in reliability for staying connected to packet. **KUDOS TO N3RD, K2WW and K2UT for setting up the internet backbones.** Now we need to get ready for CW weekend. Check your station for CW performance and make sure everything still works. I hope to work the CW Contest from here with a first time switch to WriteLog. My previous best was 600K in the CW test so I'd like to beat that. Thanks everyone for getting on!!

73, Doug W3CF

CQWW LOG SUBMISSION

CQ now strongly prefers CABRILLO logs. Their website may be checking the format just like ARRL. After the contest, save a copy of your log in a safe place. Copy to a floppy, another computer, burn a CD, whatever. Rest for a day or two, then REVIEW YOUR LOG carefully for obvious typos. Use the LATEST version of your software to produce a CABRILLO LOG. All the major software is up to speed by now for CQWW Cabrillo logs. You want to check your Cabrillo file to be sure that all the information is present and correct. The header should look like this:

START-OF-LOG: 2.0
ARRL-SECTION: EPA
CALLSIGN: K3WW
CATEGORY: SINGLE-OP-ASSISTED ALL HIGH
CLAIMED-SCORE: 7620998
CLUB: FRANKFORD RADIO CLUB
CONTEST: CQ-WW-SSB
CREATED-BY: WriteLog V10.27G
NAME: Charles D. Fulp Jr.
ADDRESS: 1326 N. 5th St.
ADDRESS: Perkasio
ADDRESS: PA, 18944
OPERATORS: K3WW
SOAPBOX: CABRILLO STANDARD DOESNT LIST SINGLE OPERATOR WITH PACKET YET SO
USING ASSISTED FOR CATEGORY
QSO: 14247 PH 2001-10-27 0000 K3WW 59 05 KF4MH 59 0
5

Be sure your proper CATEGORY is listed. If your call does not conform to your CALL AREA, under CALL-SIGN put something like W2UP/3 even if you did not sign /3 during the contest...this may help get your listing in the right area. DO NOT edit the QSO line to show / if you did not send that during the contest.

Be sure CLUB:FRANKFORD RADIO CLUB is listed. Upload your logs to the following addresses, depending on the contest:

SSB@CQWW.COM
CW@CQWW.COM

and send a copy to **K3WW**

When you get your confirmation, save it. Be sure to tell **K3WW** that you have submitted your log directly, or if you are sending the log for HELP in getting it uploaded. It wouldn't hurt to forward a copy of the confirmation you receive for storage in the archives with your log.

If you have difficulties, or no access to internet, then send your log to k3ww@fast.net or give him a disk by the Club meeting immediately after the contest. Paper logs can be entered into the computer and uploaded if you get them to **K3WW** by the meeting.

If you do not send a copy of your Cabrillo log to **K3WW**, at least report the bottom line scores promptly. This info is required in our club report to CQ.

After uploading your log, before the deadline, check the CQWW web site <http://www.cqww.com> to see that your log is listed. You can review all the rules at this site.

73 Chas K3WW

Choosing a contest rig by John Geiger, NE0P

Ed. Note: Reprinted with the author's permission

Let's say that you have just hit the equivalent of ham radio utopia. You just received a bonus at work, and your spouse told you to spend all of the bonus on a radio for yourself (better keep that spouse!). Now you have to figure out how to spend all of that money, and this column will hopefully help you determine some things to look for in purchasing a rig to use for contesting.

Receiver quality

The three most important things in a rig are the receiver, the receiver, and the receiver. Remember, if you cannot hear the other station, you cannot work them. The ARRL in their product reviews tests several different measures of receivers. Here are a few of the most important:

MDS-Minimum discernable signal. This is how sensitive the receiver is. Almost all modern receivers pass the test here, and this measure is not real important for contesting. Look for values around -135 or better.

BDR-Blocking dynamic range. This is how strong of a signal the receiver can handle before it starts to "desense", meaning the receiver overloads and you cannot hear weak signals. This is very important if you are doing multi-transmitter operating, or if you have a lot of local contesters in your area. A good figure is a BDR of 130 DB or better. You at least want a BMD of 120. Anything below that will cause problems in contesting. The rigs with best BDR are the Icom 765, Kenwood TS850, Yaesu FT1000D.

3rdIMD-Third order Intermodulation range. This is how loud of a signal the receiver can handle before it starts to generate false signals, static, garbage, and other things that greatly interfere with your hearing ability. You want to have a rig with a 3rdIMD in the mid 90s or better. Rigs with 3rdIMD over 100 include the Icom 756, Icom 761, Icom 775DSP, Icom 781, Kenwood TS850, Kenwood TS950SD, Kenwood TS950SDX, Ten Tec Paragon, Ten Tec Omni VI, Elecraft K2.

You can check your own radio's specs at the members only website at www.arrl.org, just click on product reviews, and find the right model.

Filtering

Good filtering in a rig can make all of the difference. You want a radio where you can install both a CW filter and a SSB filter. If you can install filters at more than one IF, that is all the better, and do it. Common SSB filter widths for contesting are 1.8 KHZ. This will help some, but don't expect to see a drastic improvement. You cannot filter out too much of the QRM without making the speech unintelligible. At CW, 250 HZ filters work well, but might be a little narrow for everyday operating. Icom has a nice compromise width with their 350HZ filter. INRAD makes 400 HZ filters for most radios, which is also a nice width. Get at least 500 HZ filter if all possible. Running in a CW contest without any filter will be annoying at best.

A relatively new feature has been DSP filters. Early DSP filters were audio filters that occur after the AGC loop. This means that you might not hear the noise, but your receiver will. Strong signals will still capture the AGC circuit, preventing you from hearing weak signals. Most hams agree that the better audio DSP filters are the outboard ones, like the JPS NIR-12 and the Timewave DSP599+. However it is more convenient to have DSP built in—like the Yaesu FT990. IF DSP is a different story, since the noise reduction will take place before the AGC loop, and it will actually eliminate the noises. So far, only a few rigs have IF DSP. These DSP radios include the ICOM 746Pro, 756Pro and Pro II; Kenwood TS870 and TS2000, and the Yaesu FT1000-MarkV and Field. It is the wave of the future in a contest rig.

and cascaded filters at 2 different IF. Many older rigs without DSP work just fine, though, and are still great contesting rigs. Of these three, DSP is the least important filtering issue.

Other features

Contesting can become easier when accessories are built into the radio, which makes the operating setup simpler and less cluttered. Some things to look for are: A built in memory keyer, built in voice keyer, tunable memories, built in dual VFOs (standard on all rigs made after about 1990), and a built in antenna tuner. Be advised, though, that built in antenna tuners will not handle big mismatches. They are good for tuning a triband yagi to cover the entire band, or for tuning a dipole cut for SSB on the CW portion of the band. If you want to use your twin lead fed dipole on all HF bands, you will need an external tuner.

So, after considering all of these issues, what is the best rig? Well, I surveyed contesters on several different contesting and user reflectors; here are the top-two radios recommended in several different price classes.

Under \$600

1st Kenwood TS830
2nd Kenwood TS930

\$600 to \$1000

1st Kenwood TS850-overall, the most recommended rig
2nd Icom 765
Yaesu FT990

\$1000-\$1500

Icom 756 PRO

Over \$1500

1st Yaesu FT1000MP MKV
2nd Icom 756PRO II
Yaesu FT1000D

The author noted in his survey:

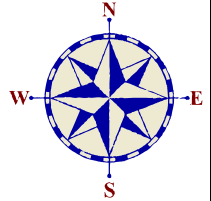
The IC761 was NOT mentioned
The FT950SDX received only 1 vote
The FT920 "almost placed".

FRC North Meeting



There has been some interest in the proposed **FRC North** meeting, possibly 2 times a year. The first meeting is Friday Nov. 8, 7 p.m. at the Powerhouse Eatery off exit 272, White Haven, Rte. 80. Contact **K3MD** for more info.

FRC West



The next **FRC West** meeting will be held on Friday, November 15 at 7.30 PM. Location is the Silk City Dinner just off the PA Turnpike at the Reading exit, then .3 miles South on route 272. Looking forward to seeing you there. Please contact **NE3F** for directions or more info at 610-777-4006.

FRC Contest DXpeditions

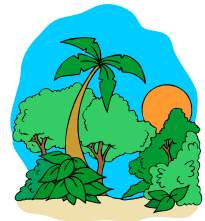
CQWW CW

Aruba - P40W by **W2GD** - CQWW CW SOAB - High Power. QSL **N2MM**.

Antigua - V26K by Bud, **AA3B/**

Virgin Islands - WP2Z by **K3TEJ** and **AB2E**.

St. Kitts - V47KP by **W2OX**



SCHEDULE IT NOW!



CQWW

CW: November 23-24, 2002
(Unlike most years, the CW test is the weekend BEFORE Thanksgiving, not the weekend after)

ARRL

CW: February 15-16, 2003

SSB: March 1-2, 2003

DXCC QSL Card Checking

Glenn, **K3SWZ**, is the EPA DXCC QSL Card checker. He's always glad to make appointments to check cards.

If interested, contact Glenn at the following:

Glenn Kurzenknabe, **K3SWZ**
Phone: 717-774-1728
e-mail k3swz@arrl.net
QTH: near Harrisburg, PA

Notes From Your Editor

Circle your calendars!
December 30
 It's that time of year again: time for our annual holiday bash at Rexy's. For the newcomers out there, this is an annual get together where we bring the wives or significant others or some come stag. We have a lot of fun with non-radio camaraderie as well as sharing contest and DX war stories - all over a sit down dinner. Last year we had close to 30, couples and singles, in attendance for the festivities. See the details below.
HOLIDAY MEETING B REXY'S
 The tradition continues! This year's holiday Meeting B is scheduled for December 30th at 7PM. If you would like to attend, I need your name, guest's name if you are bringing one, and dinner choices by December 26th latest. Contact me at n2ss@n2ss.com or call (856) 227-4896 and let me know. I will collect monies the night of the dinner. As in past years our President has designated this as an official FRC meeting. Here are the details:
 Place: Rexy's, Black Horse Pike, Audobon NJ (on Rt 168 just off the WW Bridge)
 Menu: Choice of Chicken Marsala, Baked Manicotti, Stuffed Flounder, Filet Mignon or Prime Rib
 Incl: Soup or salad, rolls and butter, coffee/tea and ice cream
 Price: \$18.75 for Chicken, Pasta or Flounder
 \$21.25 for Filet or Prime Rib (Once again no increase)
 Drinks: Cash bar on your own

DIRECTOR'S RACE
 Just in case you haven't already done so, your ARRL ballot for Atlantic Division Director must be received

by noon on November 15th. An "X" in the "Sugar Sugar" box will be greatly appreciated.



Nothing to report as there is nothing before the committee at this time.

CURRENT OFFICIAL ARRL DXCC STATISTICS

Active Count.....	335
Deleted Count.....	58
Last Addition.....	VP6/D
Last Deletion.....	STØ

3C – EQUATORIAL GUINEA

Look for Vitaly, VE6JO signing as **3C2MV** from Bioko Is, Equatorial Guinea (AF-010) from November 2nd to 24th.

9L – SIERRA LEONE

G3AB will be on from Freetown for several weeks starting November 7th as **9L1AB** on 160 through 6 Meters mostly CW. Check his web site: <http://www.g3ab.net/9l1ab.htm> for updates on the planned operation. Andy will accept requests for bureau QSLs via email at: andy@g3ab.net or you can QSL direct to his home address at:
 Andy Chadwick
 5 Thorpe Chase
 Ripon, North Yorkshire HG4 1UA, ENGLAND

5R – MADAGASCAR

Phil, G3SWH, will be on as **5R8HA** from November 5th to 19th. He expects to be active from various places on the main island between the 5th and 13th, and from Nosy Komba (IOTA AF-057) between 14th

and 19th. Activity will be on all bands 40 through 10 Meters, CW only. QSL to his home call direct or via the bureau.

C5 – GAMBIA

There will be a large team from OH operating as **C56R** from November 20th to December 1st. Operation will be on all bands 160 through 6 Meters on CW, SSB, RTTY and PSK31. During CQWWCW they will be signing as **C53M**. QSLs will be handled by OH3RM.

CYØ – SABLE ISLAND

VE3EY, VE3NE and VE3NZ will be operating as **CYØMM** on all HF bands and 6 Meters from November 15th to 25th. Operation will included CW, SSB and RTTY.

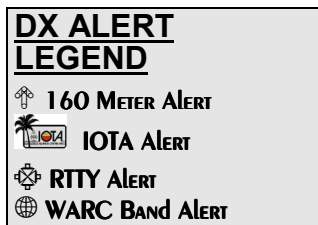
EL – LIBERIA

Currently awaiting his equipment, EY8TM will be in Monrovia for 3 years. He has been licensed as **EL2TM**. QSL via F6FNU.

LX – LUXEMBOURG

*I know, I know, you're saying "Luxembourg! That's so run of the mill!" Please read on. At the end of November there is a Telethon being broadcast in Europe to raise money for genetic research. To contribute to the Telethon a large group of LX hams have signed up sponsors to give them contributions for QSO's. So, every QSO they make raises money for the charity. Thus, the help they need from the amateur community is your QSO. I am sure they would take your donation but that's not the primary objective – they need Q's, the more they make the more in contribution money from their sponsors. So, if you would like to do your part, work **LXØLT** on as many bands and modes as you can*

during their 'round the clock effort from November 30th to December 8th. This is the first time I have run across this novel use for ham radio. You can get more details by logging into the web site they have established at: www.qsl.net/lx0lt



Here is a neat IOTA DX spotting resource. The latest 100 IOTA packet cluster spots are always available at: <http://www.mdxc.org/spotiota>

For tracking purposes the top IOTA numbers currently are as follows (Note the 8 additions below since the last update in July: Asia 1, North America 1, Oceania 6, South America 1.)

Africa	AF-092
Antarctica	AN-018
Asia	AS-165
Europe	EU-188
North America	NA-222
Oceania	OC-253
South America	SA-093
Total IOTA's	1032

Information

***AS-165** XYØTA was on from the Arakan Group to activate it for the first time.
 ***NA-222** KL7AK/P was on from the Southern Alaska Peninsula West group to activate it for the first time.
 ***OC-249** YE8XM/P was on from the Aru Islands to activate this group for the first time.
 ***OC-250** Masalembu Islands group was activated for the first time. Prefix is YB3.

***OC-251** VI3JPI was on from the Victoria State West group to activate it for the first time.
 ***OC-252** YC9BU/7 was on from the Kalimantan's Coastal Islands West group to activate it for the first time.
 ***OC-253** V63RE was on from Nomwin Is in the Hall Islands, activating this group it for the first time.
 ***OC-254** V63RE then went to Etal Island in the Mortlock group to activate it for the first time.
 ***SA-093** HK3JJH/4 activated Choco Division North/Antoquia Division for a new one.

Upcoming

OC-(SEVERAL) GØUIH will be in Australia as VK2IAY/p November 22nd to December 15th and plans operating as follows:
 December 2-5 Lady Elliot **OC-142**
 December 6-9 Fitzroy **OC-172**
 December 11-12 North Stradbroke **OC-137**

Plans are also being made to operate from **OC-171** for a couple of days but schedule is available yet for this group. All operations will be SSB only on 15, 17 and 20 Meters. Frequencies will be 14260, 18145 and 21260 kHz. QSL to GØUIH either direct or via the bureau.

* **Keep the lists I supplied recently with the Newsletter up to date by adding asterisked IOTA's to the appropriate sections.)**

FROM THE DXCC DESK

The DXCC desk will now accept applications for 30 Meters single band DXCC awards and for 30 Meter endorsements to the 5BDXCC award. Bill Moore, NC1L, DXCC Manager has made the following recent announcements:
7O/OH2YY --- *The DXCC Desk has received evidence that the Yemen operation by Pekka Ahlqvist, OH2YY in May 2002 was conducted with written, government approval. Credit for QSOs with 7O/OH2YY between May 4 and May 11, 2002 (inclusive) will be given effective immediately.*

7O1YGF Update --- *No evidence traceable to the Yemeni government has been received by the DXCC Desk to date. DXCC credit for this operation will be given only after such evidence has been presented to ARRL.*

The following operations are approved for DXCC credit:

*Afghanistan
 YA/GØTQJ
 Operation dates: from Apr 30, 2002 to Jul 11, 2002*

*Baker & Howland Island
 K1B
 From Apr 20, 2002 to May 21, 2002*

*Bhutan
 A52ED
 From Oct 23, 2001 to Nov 1, 2001
 A52OM
 From Jan 1, 2002 to Feb 5, 2002*

*Burundi
 9U5A
 From May 28, 2002 to May 27, 2003*

*Sudan
 STØF
 From Feb 19, 2002 to Dec 31, 2002*

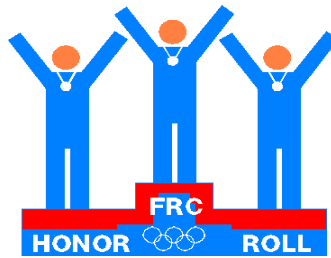
*Uganda
 5X1CW
 From Mar 19, 2002 to Mar 1, 2003*

*Myanmar
 XY3C
 XY5T
 XY7V
 XYØTA
 XY4KQ
 XY3EZ
 From Aug 1, 2002 to Aug 25, 2002*

"S"pecial "S"alute
 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 W:856-227-1298
n2ss@n2ss.com
argargano@comcast.net



NOVEMBER

CONDUCTED BY N2SS

2002

WARC BANDS

<u>30 Meters</u>	<u>17 Meters</u>	<u>12 Meters</u>
K2FL...326	K2FL...333	N2TK...326
N2TK.....324	N2TK.....332	K2FL.....324
N2LT.....308	K2JLA.....328	N2LT.....314
W3BGN...286	N2LT.....327	W3BGN...301
K2RW.....284	W3CF.....323	K2RW.....290
W8FJ.....284	K2RW.....318	N2SS.....289
K2PS.....270	W3BGN...315	K2JLA.....284
W2YC.....266	N2SS.....311	W3SOH...265
WA2VYA...259	WA2VYA...286	K2PS.....257
N2SS.....258	W8FJ.....286	W2YC.....254
K2JLA.....237	K2PS.....284	WA2VYA...252
K3II.....222	W2YC.....283	WT3W.....246
W3SOH...218	W3SOH...265	KS3F.....232
W2LE.....205	WT3W.....259	W8FJ.....222
KS3F.....178	W3OV.....234	N1RK.....200
K2BU.....175	K3II.....233	K3II.....195
AA2WN...164	N1RK.....231	W3CF.....192
WT3W.....151	KQ3F.....217	W2YR.....181
W3OV.....150	KS3F.....215	KQ3F.....172
W2YR.....124	W2LE.....196	W2LE.....161
K2JF.....111	W2YR.....194	W3OV.....160
AB2E.....104	K2JF.....168	K2NJ.....141
NA2U.....103	NA2U.....155	NA2U.....138
KQ3F.....96	K2NJ.....137	K2JF.....135
K2NJ.....90	K3ND.....110	WT3P.....127
N2VW.....67	WT3P.....106	AB2E.....72
K2WJ.....28	AA2WN...102	K3GYS...30
W3CF.....27	K3GYS...83	N2VW...25
N2MT.....15	AB2E.....80	AA2WN...19
K3GYS.....8	N2VW...63	K2WJ...17
N1RK.....3	K2WJ...40	N2MT...6
KB3FEE...1	N2MT...26	KB3FEE...3

Still looking for that undisputed
KING OF WARC

Rules for FRC Honor Roll Listings.

Provide me with your total IOTAs 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. Countries do not count until HQ Awards Committee takes action and announces a start date for a new country.



160 Meters



W3BGN289	WT3W 125
AA1K279	K2PS 101
K2BU.....260	K2RW 89
WT3Q.....245	W2YR 80
N2TK.....237	N2VW 74
N2LT232	NA2U 73
K3NW228	N2SS 70
K3SX210	W3CF 69
W8FJ188	K3NL 62
K3NZ168	K2NJ 59
K3JJG166	K2JLA 35
W3OV163	KB3FEE... 38
NO2R.....159	N1RK 37
N3RS156	KQ3F 34
K3II149	W2LE 27
W2YC.....144	AA2WN 25
WA2VYA...144	K2JF 20
K3NM.....140	N2MT 14
K2FL135	K3GYS 12
K3ND133	W3SOH..... 12
KS3F.....129	K2WJ 3

W3BGN continues as the undisputed
Top of Top Band.



Digital

W2UP.....332	W2LE..... 81
N2LT325	K2JF..... 57
K2PS.....261	WA2VYA... 50
W3SB245	N1RK 42
K2RW231	N2SS 42
K2NJ.....196	N2MR 28
W2YC.....184	KQ3F 23
AA2WN...162	K3GYS 15
WT3W151	K2WJ 12
WT3P.....133	W8FJ 12
W2YR.....122	N2VW 7
W3CF100	



MOBILE DX

W2YC272	K3GYS 143
AA1K247	AA2WN 131
N2SS.....234	WT3Q 107
N2MR.....180	KB3FEE... 48
K2JF150	W2YR..... 21



1.5K Club

K2FL.....1704	KQ3F1384
W3BGN1686	K2NJ1379
N2TK1679	WT3W1361
N2LT1658	W3SOH1377
W2UP1637	K2JF1350
K2RW1581	AA2WN...1295
W8FJ1577	NA2U1295
N3RS1559	N1RK1251
K2BU1550	N2VW1240
N2SS1501	WT3Q1162
K2PS1498	K2WJ1161
K3ND1488	W2YR1125
W2YC1481	W2LE1115
NO2R1462	K3NM1107
K2JLA1428	W3CF1077
WA2VYA...1424	WT3P1009
KS3F1407	N2MT719
N3RD1388	KB3FEE...231



6 METER DXCC

K2JF94	N2SS49
K2NJ90	K3OO48
AA1K88	W2YR41
WA2VYA...75	WT3P39
K2PS72	W2YC6
N1RK57	



Islands On The Air

K2FL.....938	KS3F319
K2JLA854	N2VW250
W3SOH757	W2YR226
N2SS725	K2WJ223
W8FJ530	WT3W203
W2YC503	W3CF200
N1RK473	K3GYS153
W2YC456	KB3FEE...23



THE FRANKFORD RADIO CLUB NEWSLETTER

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



Affiliated Club

In This Issue

MEETING INFO

CQWW LOG SUBMISSION

CHOOSING A CONTEST RIG

FRC CQWW DXPEDITION

AND MORE!

**Deadline for December issue:
Tuesday, November 26**

The Frankford Radio Club

Club Officers

President, W3CF , Doug Priest.....	215-361-9989
Vice Pres, N3BNA , Dale Long	717-626-8794
Secretary, K3ZV , John Lindmeier	215-632-2919
Treasurer, K2QM , Dan Marlow	609-683-5633

Committee Chairman

Repeater, K3NL , Nick Leipold	610-449-8910
Packet, N3RD , Dave Hawes	610-935-2684
Activities, W2OX , Alex Aimette	215-721-1453
Awards, W3IZ , Norm Fusaro	215-795-0390
Membership, K3ANS , Bill Goodman	610-258-5063

Newsletter & Roster

Editor, KQ3F , Joe Stepansky	717-657-9792
Email: kq3f@comcast.net	
Printing, K3ZV , John Lindmeier	215-632-2919

Repeater

2 meters, 147.27/147.87
Output PL tone, 114.8

Home Page

www.frc-contest.org

Meetings

Meetings are held on the 2nd Tuesday of each month (Sep through May) at 8 PM at the Philadelphia College of Pharmacy and Science, 43rd and Kingsessing Street, Philadelphia. Summer meetings are held at member homes (one Saturday/ Sunday per month).

Packet Cluster Contest/DX System

144.910	N2MT
144.930	W3FRC
145.650	K2TD
144.950	KD3CN
145.530	K3WW
145.530	AA1K
145.530	K2SG
145.570	WT3Q
145.570	K2TW
145.590	N2NT
144.950	K3GYS
145.710	W3EA
145.730	N2BIM
147.495	W3MM
145.670	W3PP
441.050	W3MM
445.525	K3GYS
445.525	W3EA
445.850	N3BNA
..TBA	N3ED