



THE FRANKFORD RADIO CLUB NEWSLETTER

PROFICIENCY THROUGH COMPETITION

CALENDAR

November 2006:

- 4-5 ARRL Sweepstakes, CW
- 11-12 Worked All Europe, RTTY
- 11-12 OK/OM DX Contest, CW
- 14 FRC Main Meeting, Phila.**
- 14 REXY Meeting B**
- 16 T.I.T.S. Meeting, Noon**
- 18-19 ARRL Sweepstakes, SSB
- 25-26 CQWW CW DX Contest**
- 28 REXY Meeting B**

December 2006:

- 1-3 ARRL 160 Meter Contest, CW
- 9-10 ARRL 10 Meter Contest
- 12 FRC Main Meeting, Phila.**
- 12 REXY Meeting B**
- 21 T.I.T.S. Meeting, Noon**
- 18-19 ARRL Sweepstakes, SSB
- 26 REXY Meeting B**
- 27 FRC Pizza Bash, Noon**

January 2007:

- 6-7 ARRL RTTY Roundup
- 9 FRC Main Meeting, Phila.**
- 9 REXY Meeting B**
- 13-14 No. Amer. QSO Party, CW
- 18 T.I.T.S. Meeting, Noon**
- 20-21 No. Amer. QSO Party, SSB
- 23 REXY Meeting B**
- 27-28 CQ 160M Contest, CW

February 2007:

- 17-18 ARRL DX Test, CW**

March 2007:

- 3-4 ARRL DX Test, SSB**

CHANGES

None this month

Deadline for December issue:

Tuesday, November 28, 2006

President's Column

The CQWW Phone contest is now in the logbook. I know the club did its usual awesome job. Now, its on to the CQWW CW weekend the end of the month. If this club puts forth the effort we are capable of, we will once again come out on top.

But, winning is not everything. I do this for the fun. The fun comes from all the work getting ready, the operating, and then seeing how my efforts stack up against everyone else. Win or lose, I try and have the most fun that I can.

I also want to mention the support we all get from our families. If it was not for this support, it would not be as much fun. Its great to know that my wife supports my contesting and I don't have to concern myself with household tasks during the contest weekends. I think we should all thank out families for all their support.

So, lets all go out and have fun during the CW weekend. I know that if we do, we can come out on top again. We are never going to have the number of logs that the YCCC does. So, we have to get the job done by working smart and staying in the chair.

I hope to see as many as possible at the November meeting to go over scores, hearing the stories from everyone's operations, and getting psyched up for the CW weekend.

73 – John – K3ZV

FRC DXPeditions

P40W SOAB HP

WP2Z M/2

KP4US ????

VP5T M/M

V26B M/M?

KD3RF/VE2 ZONE 2

T70A (WA2VUY) M/2

J79Z (CW)

MEETINGS

Main Meeting

The main monthly meeting of the **Frankford Radio Club** will be held Philadelphia on Tuesday, November 14 at 8 PM. Location is Rosenburger Hall, Room 102 at the University of the Sciences.



T.I.T.S. meeting—The Trexlertown International Transmitting Society meets on Thursday, November 16 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.

CQWW Log Submissions

Send SSB logs to ssb@cqww.com and CW logs to cw@cqww.com

You MUST report your score to K3WW. a CC of your entry to K3WW is not a bad idea.

If you have problems uploading your logs, contact k3ww@fast.net for help.

With spam filters all over the place, it is possible that a log sent to me will disappear. The CQWW robots will report receipt of your log.

You can resend it until you get a report that its perfect; however, CQ will use what they get if the log is fairly close to a proper cabrillo format...so once you get an acknowledgment you are pretty safe. The LAST log uploaded under your call is the one that is scored.

Be sure to put CLUB: Frankford Radio Club in the header.

You can check the CQWW web site to be sure your log is listed. It looks like many if not ALL submitted logs will be available for downloading after the scoring has been done, open logs for the first time in CQWW.

73 Chas K3WW

2006 FRC Fund Drive

List of recent FRC Contributors as of October 22, 2006

WA3YOB, K3TEJ, KD3TB, N2RM, K3MD/N3PUR, W3CF and K2TTT.

Reprinted with permission from the September 20, 2006 Contest Rate Sheet

Have you ever recorded yourself on the air for practice? The little Sony minidisc recorders are really super for this. In the LP4 recording mode they'll go for over 6 hours in stereo on one disc with very good quality, and a single AA battery seems to last forever. You can insert a track mark very easily to highlight problem areas for review. Listening to yourself struggle with keystrokes and call signs is painful, but illuminating. (Thanks, Paul K5AF)

Don W7WLL discovered a new corrosion-prevention product highly touted by the local fishing fleets who use it to ensure that salt and corrosion do not compromise their electrical and RF connectors, among other things. It is called CorrosionBlock and comes in 2-oz squeeze tubes as well as an aerosol. It's made by Lear Chemical Research Corporation (<http://www.learchem.com/>) and may be available at marine supply stores. Don has used it on connectors and pulley pins, finding it a lot easier to work with than silicon grease.

Gene K2QWD reminds us that when running ac power through an underground conduit, whether to a tower, outbuilding, or garage, it's important to protect the circuit (and you, too) with a Ground-Fault Interrupter (GFI) outlet or circuit breaker. The protection can be installed at either end of the circuit, but it is important! If you have problems with RF tripping the circuit, a hospital-grade unit may solve the problem.

Reprinted with permission from the October 4, 2006 Contest Rate Sheet

As the Northern Hemisphere moves into fall and the Southern into spring, many of us are spending more time with the bandswitch on 1.8, looking for DX between the diminishing static crashes. While their signals are intruders and often illegal, the fishing buoys floating in the Pacific are a good source of propagation information. Identifying continuously in slow Morse as a letter-number group, hearing these indicates an opening to Oceania. Rather than wait for the spotting network, call CQ yourself and see if some DX is tuning around looking for you!

Rudy N6LF has published some test data on a new ground system. "Over the summer I laid down a new radial system for 160 meters. During the process I made very careful measurements of feedpoint impedance and relative field intensity using network and spectrum analyzers as the radials were placed. A detailed description of the work can be found at <http://www.antennasbyn6lf.com/>

Lest we be thought of as giving out baseless information, Bob W5AJ sent a link to photos (<http://www.qsl.net/w5aj/tower.htm>) of his new self-supporting tower base. The hole was dug by a drilling rig as mentioned earlier in this publication. That's a pretty smooth hole, Bob!

An oldie-but-goodie was recalled recently in a Towertalk reflector post by Man-Above-Town Steve K7LXC. When mounting multiple antennas on a single mast, to lessen the amount of torque on the mast due to wind mount the antennas in equal numbers on opposite sides of the mast. The resulting twisting forces will cancel each other, reducing the load on your rotator.



Less than 30 Days to CQWW CW.....Don't Wait!

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

New Reach Number: 908 391 5611 (Mobile)

[CONTESTING — TIPS, TECHNIQUES, RESOURCES](#)

Reprinted with permission from the October 18, 2006 Contest Rate Sheet

The FCC has released the long-awaited "Omnibus" Report & Order and it includes the equally long-awaited Novice band refarming. Phone allocations are increased substantially, particularly on the 80 meter band. Read all about it at <http://tinyurl.com/y7z8wu>. The R&O does not take effect until 30 days after print publication, so this will not affect CQ WW SSB. (awwww...) The ARRL is soliciting comments on the new rules - you can read the summarizing article at <http://www.arrl.org/?artid=6864>.

Please take a moment to look at <http://www.getscores.org/>, W1VE's new live contest score reporting Web site. Over the past few weeks, the development team has been getting the site ready for CQ WW SSB. So far, the N1MMLogger and Win-Test (via 5B4WN) programs have implemented the software necessary to automatically update the site during a contest. Hopefully, other loggers will add this capability. This site is a first step towards being able to view the contest action in nearly real-time, letting the general public and other interested individuals join the fun. It will also add another facet to the competition angle. The interface is based on an XML specification for contest score data developed by a group led by WA7BNM, K1TTT, and others. (Thanks, Gerry W1VE)

Ken WM5R has been busy doing some investigation into whether contest participation is declining. I'll let Ken tell the story: "I have run some queries on the Contest Score Database (<http://www.kkn.net/~k5tr/scoredb/>), that now has over 340,000 line scores from over 50 contests, and pulled out the high QSO total for each contest for each year (for which there is line score data). Charts and a discussion of the numbers appear in this new article, <http://www.contesting.com/articles/736> ...I fail to see anything that would convince me that HF contesting is approaching extinction. I've heard all the usual anecdotal concerns before, but the facts remain that log submissions are increasing and the high QSO totals have kept growing, even as the sunspots were declining."

Jeff K8ND has changed ISPs and so the "SO2R Resources" Web page has moved to http://www.k8nd.com/Radio/SO2R/K8ND_SO2R.htm. The page contains a popular collection of photos of how 63 different SO2R operators have set up their stations. He is adding photos as they are sent, so if your station is not represented, send him one at jmaass@k8nd.com.

Oops! You dropped the antenna and now the elements are no longer examples of the straight and narrow? Dan N5AR suggests filling the affected tubing with sand before manually straightening it. This prevents the tubing from collapsing. However, if the element is kinked, it won't be possible to straighten it.

Bob VE3OSZ contributed a nice tip for soldering taps onto a closely-spaced coil. He recommends cutting a piece of aluminum foil about 3 cm by 3 cm, folding it in half, then sliding the halves through the coil from the inside with one half to each side of the to-be-tapped turn. Fold the foil back and away from the soldering area to shield the other turns. It's easy to remove once the tap is soldered since the solder won't stick to the aluminum foil. (Courtesy the May-June 2006 issue of the RAC magazine "Canadian Amateur")

If you teach licensing courses or even just try to explain radio waves to a layperson, getting over the frequency-wavelength-velocity of propagation hurdle can be a challenge. I've tried a lot of visual aids - you ought to see my flash-light technique as I simulate a wave in the dark - but the best on-line illustration I've found are the animations at <http://tinyurl.com/c7eo6>.

<http://www.qsl.net/lz1jz>



CONTESTING — TIPS, TECHNIQUES, RESOURCES

Eric K3NA contributes the 160 meter band allocations by ITU region from the International Radio Regulations, which are summarized as follows:

1800-1810:

Region 1: No amateur use

Region 2: Exclusively amateurs.

Region 3: Shared by Amateurs, Fixed, Mobile (except aeronautical mobile) and Radio-Navigation. Radio-location is a secondary user.

1810-1830:

Region 1: No amateur use in D2, EK, OE, 4K, UW, ON, LZ, TJ, 9Q, OZ, SU, E3, EA, ET, EK, SV, I, UN, OD, LY, UR, PA, YK, EX, UA, T5, EY, 3V, EZ, TA, UT, 9U, 7P. Shared with Fixed and Mobile (except aeronautical mobile) in HZ, T9, YI, 5A, UJ, OM, OK, YO, S5, TT, 5V, YU. Otherwise, exclusively amateurs.

Region 2: Exclusively amateurs.

Region 3: Shared by Amateurs, Fixed, Mobile (except aeronautical mobile) and Radio-Navigation. Radio-location is a secondary user. LORAN on 1825-1875 & 1925-1975 is protected.

1830-1850:

Region 1: Exclusively amateurs, except no amateur use in 9U and 7P.

Region 2: Exclusively amateurs.

Region 3: Shared by Amateurs, Fixed, Mobile (except aeronautical mobile) and Radio-Navigation. Radio-location is a secondary user. LORAN on 1825-1875 & 1925-1975 is protected.



IN STOCK NOW:

	Starting at:
• IC-V8 2M VHF HT	\$ 94.95
• IC-2100H VHF Mobile	\$ 134.95
• IC-7000 HF/VHF/UHF Mobile	\$ 1239.95
• IC-718 Entry Level HF Base	\$ 514.95
• IC-756PROIII HF Base	\$ 2449.95
• IC-PCR1500 Receiver	\$ 479.95



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FCC "OMNIBUS" REPORT AND ORDER CONTAINS PLUSES, MINUSES AND ERRORS

The FCC's recent Report and Order (R&O) in WT Docket 04-140 seems to offer something for just about every sector of the Amateur Radio community, but it's not without shortcomings. Most appear to be unintended consequences stemming from the FCC's arguably too-generous allocation of 75 meter phone spectrum to Amateur Extra class licensees. The FCC indicated it was only doing what the ham radio community said it wanted.

"Indeed, a number of commenters argue that the NPRM (Notice of Proposed Rule Making) proposal to increase the amount of spectrum permitted for voice communications would still not meet the demand for voice communication in the HF bands, particularly in the 80 meter band," the FCC said in the R&O, released October 10. Several radio amateurs filing comments justified extending the phone allocation further into the CW band, the FCC continued, citing their arguments that the CW band is "grossly underused and represents a huge waste in spectrum."

Once the new rules go into effect, the 75 meter phone band will span 3800 to 4000 kHz for Generals, 3700 to 4000 kHz for Advanced class licensees (ARRL had requested 3750 to 4000 kHz), and 3600 to 4000 kHz for Amateur Extras (ARRL had requested 3725 to 4000 kHz). Far more modest phone expansions were the rule for 40 and 15 meters, the other affected bands.

But the ample 75 meter Amateur Extra class phone allocation not only effectively reduces the amount of 80-meter spectrum available for CW, RTTY and data, it actually eliminates Advanced and General class access on any mode to certain segments where they now have privileges. Sensitive to fallout from the "incentive licensing" debacle of the late 1960s, the FCC in the past has indicated it wouldn't let that kind of thing happen again.

In the runup to the April 2000 license restructuring, the FCC assured that any pending changes would not take away any incumbent licensee's privileges, and it carefully avoided doing so in its restructuring R&O. In applauding the ARRL's "refarming" proposal in this docket's NPRM, the FCC pointed out that "as proposed, no licensees would lose any spectrum privileges." Nonetheless that's just what happened:

Generals lose 150 kHz of CW/data spectrum on 80 meters but gain 50 kHz of phone spectrum on 75. They also lose 25 kHz of CW/data spectrum on 40 meters but gain 50 kHz of phone privileges on that band. Factoring in another 25 kHz of phone spectrum on 15 meters that's an overall gain of 125 kHz of phone spectrum offset by an overall loss of 175 kHz of CW/data spectrum -- or a net loss of 50 kHz in spectrum privileges.

Advanced licensees also lose 150 kHz of CW/data spectrum on 80 meters but gain 75 kHz of phone spectrum on 75. They also lose 25 kHz of CW/data spectrum on 40 meters but gain 25 kHz of phone spectrum there. That's an overall loss of 175 kHz of CW/data spectrum offset by an overall gain of 100 kHz of phone spectrum (25 kHz less than Generals). The net loss in Advanced privileges works out to 75 kHz (25 kHz greater than Generals).

The new rules are "nothing but net" for Novice and Tech Plus (Technician with Element 1 credit) licensees. These licensees take home a whopping 250 kHz of additional CW spectrum (CW/data on 10 meters).

The R&O contains several apparent mistakes, too. For example, in §97.301(d) the 80 meter row should read 3.525-3.600 MHz for all three ITU regions. In §97.305(c), the frequencies in the first line for 40 meters should read 7.000-7.100 MHz. The FCC will fix these errors when the "official" R&O text appears in the Federal Register later this fall.

Other corrections may prove more troublesome. Creating a humongous 75 meter phone band for Extras effectively, but apparently inadvertently, deleted the only 80 meter segment where automatically controlled digital stations may operate - 3620 to 3635 kHz. The new rules no longer permit RTTY and data there, however.

In addition, the FCC accommodated the inclusion of images in data transmissions by defining a range of image emission types as "data" and limiting them to 500 Hz bandwidth in the RTTY/data subbands. Unfortunately, it did so in a way that also limits J2D emissions -- data sent by modulating an SSB transmitter -- to 500 Hz bandwidth.

WRTC 2006 QSL cards ready to roll

World Radiosport Team Championship 2006 (WRTC 2006) Chairman Atilano de Oms, PY5EG, has announced that QSL cards for WRTC 2006 stations have been printed and are ready for mailing <<<http://www.wrtc2006.com/release70.html>>>. "We are ready to confirm all QSOs via air mail or bureau," Oms said. "If you want the QSL via air mail, please send your card with SASE and IRCs to our QSL manager, Vantuil Barbosa Dias, PP5VB, PO Box 13, IMBITUBA - SC - CEP 88780-000 BRAZIL." Oms added that stations may QSL via the bureau using PP5VB as the manager.

WRTC 2010 to be held in Russia

The World Radiosport Team Championship Sanctioning Committee (WRTC-SC) has announced the next WRTC will be held in Russia for the first time in 2010. The Soyuz Radiolyubitelei Rossii (SRR) -- the Union of Radio Amateurs of Russia -- will be the primary sponsor, and SRR President Roman Thomas, RZ3AA, is the host committee chairman. The event will be held in the vicinity of Moscow in conjunction with the IARU HF World Championship in July 2010. The committee plans to publish qualification rules and procedures and establish a WRTC 2010 Web site as soon as possible. The WRTC-SC expressed its gratitude to the Russian team for its hard work in preparing the proposal and undertaking initial planning for the event.--Contester's Rate Sheet <<<http://www.arrl.org/contests/rate-sheet/>>>

IARU Monitoring System seeks over-the-horizon radar reports

IARU Region 2 Monitoring System Coordinator Bill Zellers, WA4FKI, says Amateur Radio stations on the West Coast and as far east as Arizona have reported hearing over-the-horizon radar signals on the low bands. VE7BZ in British Columbia recorded the radar's signal October 1, 1353 UTC, on 3.795 MHz <<<http://www.arrl.org/news/crawlies/10081/OTH-R-3795-VE7BZ-100106.mp3>>>. The radar, apparently located on Hainan Island, Peoples Republic of China, has shown up on 160, 80 and 40 meters and sometimes is quite strong. On 80/75 meters it appears as high as 3.8 MHz, while on 40 meters, it's showing up on the lower 25 kHz or so. Typically there are about 50 seconds between signal pulses. He said the radar signals are strongest on a heading of between 285 and 320 degrees from California or Arizona. Zellers requests reports from stations hearing the over-the-horizon radar signals as well as any other signals that do not appear to belong on the amateur bands. He suggests the following report format: Your call sign, time in UTC, frequency, emission type, signal strength, propagation and signal bandwidth in kHz. Send reports to Zeller via e-mail <wa4fki@nc.rr.com>.



The score listed in the October newsletter for **K2PS** should have been 1,526,608 in the 2005 CQWW CW not 2005 CQWW SSB

Notes From Your Editor

Sunday night DX net: fellow club member Mark, K2AX, has started up the Jersey Triangle DX Association with a net that meets on Sunday evenings at 8PM. The purpose of the net is to exchange DX info and tidbits and it meets on the K2AX 145.150 (PL 91.5) repeater now operating from Mark's QTH. If you have the time, check in.

ANNUAL HOLIDAY MEETING B

Time certainly rolls by quickly! Once again it is time for our annual holiday get together. Due to the proximity of Christmas Day, instead of the usual Tuesday evening, this year's annual holiday Meeting B is scheduled for Thur, Dec 28th at 7PM. If you would like to attend, I need your name, guest's name if you are bringing one, and dinner choices by Dec 26th.

Contact me (see below) and let me know. I will collect the night of the dinner. As in past years I expect our President will designate this as an official FRC meeting. Details:

Place: Rexy's, Black Horse Pike, (Rt 168 below WW 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 and while it had been unchanged for a number of years, unfortunately, this year the price has increased by \$3.

Drinks: Cash bar on your own.

CURRENT OFFICIAL ARRL DXCC STATISTICS

Active Count.....	337
Deleted Count	58
Last Addition.....	KH8/S
Last Deletion.....	STØ

5A – LIBYA

Look for a large DXpedition from Nov 14th to 28th signing as **5A7A**.

C9 – MOZAMBIQUE

Via RSGB: The Five Star DXers Association has announced that its next DXpedition will take place in September 2007. The location will be St Brandon (3B7). The association has been involved in some of the biggest DXpeditions of recent years, including the record-breaking D68C DXpedition to the Comoros in 2001 and, most recently, the 3B9C Rodrigues DXpedition in 2004.

The St Brandon DXpedition is set to be a similarly grand event. It is planned that up to 12 stations will be on the air 24 hours a day for three weeks. St Brandon is a highly sought after entity and the Five Star DXers are expecting huge demand. They are confident of making more than 100,000 QSOs. The group is aiming to obtain the callsign **3B7C** for the DXpedition. Check out their web site at: www.fsdxa.com

FT5X –KERGUELEN

TU5KG, who has been active recently as FT5XP/mm in the Southern Indian Ocean was active on Oct 9th from Kerguelen and is expected to be active from there again around November 25th-26th. QSL via F4EFL.

TK – CORSICA

DL2SBY, HA4DX, HAØHW plan to be operating **TK** on CW, SSB,

RTTY and PSK31 from Nov 2nd to 10th with a concentration on the low bands. QSL to their respective home calls.

VK9C – COCOS-KEELING

VK2IA plans to be on as **VK9AA** from Nov 20th to 27th. Prior to CQWW CW he will be concentrating on Stateside. QSL via DL8YR.

XT – BURKINA FASO

The Provins ARS (F6KOP) has announced plans for a DXpedition to take place from Ouagadougou, Burkina-Faso from January 6th to 20th, 2007. The operators will be F2JD, F2VX, F4AJQ, F5LMJ, F5TVG, F8BJL, F9IE, N2WB, N6OX and OE8KDK. They will be active on 160 through 6 Meters on CW, SSB, RTTY, SSTV, PSK31 & 63, SSTV and possibly WSJT on 6 Meters. This will be done with six transceivers, two amplifiers and a wide range of antennas. QSL via F9IE, direct or bureau. They have a web site under construction.

DX ALERT LEGEND	
	160 METER ALERT
	IOTA ALERT
	RTTY ALERT
	WARC BAND ALERT

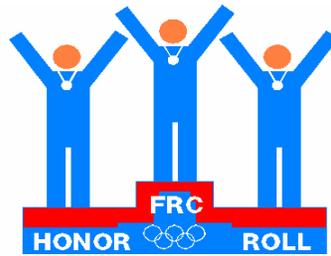
"S"pecial "S"alute

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 C:609-221-4899
n2ss@n2ss.com
argargano@comcast.net



NOVEMBER

CONDUCTED BY N2SS

2006

WARC BANDS

<u>30 Meters</u>	<u>17 Meters</u>	<u>12 Meters</u>
K2FL.. 334	K2FL...338	N2TK ..329
N2TK332	N2TK 337	K2FL..... 327
W3BGN319	N2LT 332	N2LT..... 321
N2LT318	W3CF 332	W3BGN... 315
W2YC303	W3BGN ... 331	W3CF 303
N2SS291	N2SS 322	N2SS..... 302
W8FJ291	W2UP 312	W2YC 275
K2PS284	W2YC 306	K2PS..... 268
W2UP277	K2PS 303	W2UP 259
N3RD261	W8FJ 294	W8FJ 229
N2MM233	N2MM..... 268	N1RK..... 218
K3II232	N1RK 253	KQ3F 217
W2LE220	KQ3F 252	K3II 203
KQ3F195	K3II 246	N3KN 191
W2IRT183	W2LE 231	W2LE 191
AA2WN...174	W2IRT..... 209	W2YR 187
W2RQ144	W2YR 202	N2MM 185
K3CT134	N3KN 171	NA2U 156
AB2E132	NA2U 167	W2IRT 105
W2YR131	W2RQ 142	AB2E 92
N3KN126	K3CT 126	K3CT 83
NA2U110	K3ND 124	W2RQ 62
N1RK107	AA2WN... 122	K3GYS 30
K3ND85	AB2E 108	N2VW 28
N2VW76	K3GYS 85	AA2WN..... 20
W3CF61	N2VW 67	
K3GYS17		

K2FL and N2TK still duking it out for that elusive, 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

W3BGN296	K2PS 106
AA1K290	W2CG 95
WT3Q261	AB2E 94
N2TK252	N2VW 85
N2LT248	NA2U 83
K3SX233	W2YR 81
NO2R226	N2SS 79
W8FJ216	W3CF 77
W2UP200	W2IRT 74
K3JIG200	K3NL 70
W2YC186	K3CT 63
N2MM182	KQ3F 57
K3NM156	N1RK 51
N3RS156	AA2WN 50
K3II152	N3KN 34
K2FL143	W2LE 28
K3ND136	K3GYS 12
W2RQ123	

W3BGN continues as the undisputed Top of Top Band.

Digital

W2UP338	KQ3F 132
N2LT332	W2LE 124
K2PS288	W2CG 66
W2YC260	N2SS 53
AA2WN187	N1RK 39
N3KN181	K3GYS 15
W2IRT141	W8FJ 12
W2YR132	



MOBILE DX

W2YC276	K3GYS 143
AA1K273	AA2WN 131
N2SS234	W2YR 28



1.5K Club

K2FL..... 1715	K3ND1501
W3BGN 1705	KQ3F1453
N2TK 1697	W2CG1408
N2LT 1684	W3CF1403
W2UP 1666	AA2WN.....1379
W2RQ 1623	NA2U1365
N3RS 1617	N1RK.....1289
W8FJ 1600	N2VW1270
K3II 1573	K3CT1180
W2YC 1567	W2LE1175
N3RD 1545	W2YR.....1153
NO2R 1536	N3KN1120
N2SS 1526	K3NM.....1107
K2PS 1524	AB2E1164
N2MM 1524	W2IRT1014



Islands On The Air

K2FL..... 1012	W3CF253
N2SS 838	W2YR.....244
W2YC 639	W2IRT.....232
W8FJ 604	K3GYS229
N1RK 546	AB2E205
N2VW 261	



6 METER DXCC

N2LT 106	N3KN52
K2PS 101	W2YR.....44
AA1K 99	W2YC.....29
K3OO 77	AA2WN.....15
K3SX 75	N2TK.....12
N1RK 57	K3GYS10
N2SS 55	



THE FRANKFORD RADIO CLUB NEWSLETTER

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



Affiliated Club

The Frankford Radio Club

Club Officers

President, **K3ZV**, John Lindmeier856-768-5348
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Repeater - 2 meters, 147.27/147.87 Output PL tone, 114.8

Home Page - www.gofrc.org

Meetings

Meetings are held on the 2nd Tuesday of each month (Sep through May) at 8 PM at the University of the Sciences, Philadelphia. Summer meetings are held at member homes (one Saturday/ Sunday per month).

Packet Cluster Contest/DX System

144.950 K3ZV
145.530 AA1K
145.530 K3WW
145.570 WT3Q
145.670 W3PP

Telnet DX Cluster

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