



THE FRANKFORD RADIO CLUB NEWSLETTER

PROFICIENCY THROUGH COMPETITION

CALENDAR

February 2002:

- 10 North American CW Sprint
- 8 FRC West, 7:15 PM (p. 5)**
- 12 FRC Meeting, K of P, 6 PM**
(see notice at right)
- 12 FRC Meeting "B"**
- 15 FRC South, 6 PM (p. 5)**
- 16-17 ARRL CW DX Test**
- 21 T.I.T.S. meeting, Noon**
- 21 FRC/WJDXG, 8 PM (p. 5)**
- 22-24 CQ WW 160M SSB Contest
- 26 Meeting "B", 8 PM**

March 2002:

- 1 FRC South, 6 PM (p. 5)**
- 2-3 ARRL SSB DX Test**
- 12 FRC Meeting, K of P, 6 PM**
(see notice at right)
- 12 FRC Meeting "B"**
- 21 T.I.T.S. meeting, Noon**
- 26 Meeting "B", 8 PM**
- 30-31 CQ WPX SSB Contest

CHANGES

New Email Address

K3CC
K3cc@fast.net

New Member!

WK2W
Christian F. Heller
430 Richwood Rd.
Mullica Hill, NJ 08062
home 856-223-0251
work 856-853-8119

IMPORTANT NOTICE!!!

CHANGE IN FEBRUARY AND MARCH FRC MEETING LOCATION

The February and March meetings will be held at the King Of Prussia Firehouse on Allendale Road in King of Prussia.

Meeting will start with dinner from 6-7 pm followed by the regularly scheduled business meeting. Meeting should conclude by 8:30 pm. YL's are welcome to tag along and spend some time at the areas largest mall which is right across the street.

Directions from Intersection of RT.202 and Gulph Road. (1st light as you come off 202/76) Continue North on RT 202 to third light (Mc Donald's on right corner) and Turn left onto Allendale road. Stay in your right lane. There is a light at the bottom of a short down grade for the mall and the entrance to the firehouse is just past that (like 50 feet) on the right. Parking in the rear with caution for fire apparatus.

I'll have video's of PW0S, The Timor Expedition, and the PV0F Fernando de Noronha Island DXpedition to entertain us. Hope to see you thereGuests and visitors most welcome.

Presently, the idea is to return to the college in April but that will depend on your response (attendance) to the above two meetings. We are welcome (fee free) at the firehouse.

ARRL DX Contests

CW 0000Z February 16 until 2359Z February 17
SSB 0000Z March 2 until 2359Z March 3

From the President



IT'S STRETCH TIME!

The end of the contest season is just around the corner! Are you ready to do battle??? We are real close to YCCC at the moment and we need to really bear down for these last two major contests. Unlike some, I really don't care how you make your Q's, If you want to dabble in the CW test with your WriteLog reading 5 or 6 different CW signals at one time, that's fine with me. Just make double sure of the call when you log it. Accuracy is THE most important aspect of logging. The penalty for a busted Q is too great to ignore. Take the time to get it right and if you are not 100% sure and can not verify the call or log info then DELETE the QSO from your log. **If you make 3 errors they take 9 Q's out of your log!** 30 errors in 48 hours nets you a 90 QSO loss so you can see it pays to get it right. **Make accuracy YOUR #1 priority!** We have ARRL CW and Phone to be ready for then we can relax a little until the WPX tests and then IARU and WRTC in July. **KQ2M** and **N2NT** will represent the U.S. for **FRC** and I look forward to helping pump up the rate for these guys.

On a more personal note, I want to take this time to publicly thank **K3NZ** Norm, and **K2TW** Tom, for MANY years of exemplary service to **FRC**. Norm has decided he needs a break from the Secretary's Office to pursue other interests and Tom has also asked for time away from the Treasurer's Office. These guys have served above the call of duty and are models of service to **FRC**. I think Norm has been Secretary for four years now and I think Tom is right behind him or maybe its the other way around. Awesome job, guys!! **FRC** will miss your dedication!

73,
Doug@w3cf.com

FRC ARRL Contest DXpeditions

Tony, **N2TK** will be using **WP2Z** single op for ARRL SSB test. He will use **N2TK/NP2** before and after the test.

John, **W2GD** will make an ARRL DX CW effort from **P40W**. It will be a Single Op All Band Low Power entry. John plans to arrive on Aruba Thursday afternoon Feb. 14th, and return Monday, Feb. 18. QSL via **N2MM**. QSX 160 generally on the hour or half hour.

Ed, **N2ED** will be in Antigua for ARRL DX CW test. The contest call will be **V26G**. Outside of the contest his call will be **V26EW**.

Zev, **N2WKS** has reserved the **V26B** site for ARRL Phone. He needs a few operators and contest experience is not a requirement. This is an excellent chance for new guys to get their feet wet in the big pile ups but requires no real strategy, since all you do is aim stateside and run, run, run.. The dates are Feb 2-3.

Contact Zev at zevd@att.net
n2wks@arrl.net
212-419-3052 work
973-202-9867 cell

With declining sunspots, propagation on 10m is going to be "fueling" the band less and less. Generally this sunspot cycle is not as high on sunspots or flux numbers as experts predicted, but it is wise to keep checking the sunspot numbers and propagation indices for that unexpected surge in activity. It has happened in the past and it could happen again.

If it happens, there is a good chance to make that lasting record. If the flux drops, we can expect shorter openings to fewer parts of the world and it is important to catch them in order to keep that QSO and multiplier count high. A second radio is a big help to keep the eyes (ears) on the band openings and to be ready for the bursts of activity when it happens.

As far as antennas are concerned, with declining sunspots, lower propagation angles become prevalent and lower vertical angle antennas will bring more "meat." This is the time for high horizontal stacks or vertical arrays. But as many have found out, one never has enough antennas, especially for contesting. There are times when that "useless" low inverted Vee can hear or work stuff that stack does not. It is all in the angles at which signals are propagating and how well antennas fit that particular mode.

For the contesteer it is important to have ability to quickly switch between various (angle) antennas to determine where the signals are coming from. Sometimes it can be long path, or skewed path or backscatter. Different antennas fit differently those modes. Long path signals can be coming at high angles and stacks are the ones to use for backscatter. Skewed path is frequent around disturbances, and low antennas in the stack could be the only ones hearing stuff when there is rain static.

It is very beneficial to have complementary antennas in order to cover the various vertical angles and directions. Also a combination of rotatable and switchable arrays allows quick checks or excursions to nail the rare one. Then comes the transmit vs. receive aspect. On transmit we want to be loud everywhere or where the propagation is expected to be open, on receive we want to be able to discriminate and have sharp patterns, with good front to back and front to side, to be able to minimize the interference and be able to dig the weak ones from the noise (local or atmospheric/band). Big Guns and Single Banders will try to cover all the angles, resources permitting. Little Pistols and Medium Bazookas will compromise between the space and resources.

A recent eye opener by Team Vertical using simple vertical arrays on the ocean beach attracted my attention

and prompted me to verify and investigate the "beach miracle." I was pleasantly surprised with the simple vertical's performance on the beach and this was encouragement to look closer at this phenomena.

Without getting into elaborate musing about it, the benefits of verticals are that we can get nice continuous fat vertical lobes, without familiar nulls that horizontal antennas have (talking here about 20 dB or more "holes" in the pattern). Having a vertical array on the ocean front or an extensive ground screen system, we get gain at very low angles, which is hard to achieve with anything but very high horizontals. I found that a 4 square array gives the best bang for the buck, 4 instantaneous directions at the flick of the switch and welcome polarization diversity — complementing horizontals.

So what is the best complement of antennas for particular band for the (inland) contesteer? I would start with a stacked array, ideally a three stack of long boom horizontals with Stackmatch switching, allowing any combination of three antennas to be selected. This, combined with independent rotators, allows coverage of prevailing openings and angles. The second array would be vertical 4 square, giving low angles and instantaneous switching of directions and polarization diversity for that second radio. A splitter for combining both systems would help to increase the TX and RX coverage. The third and subsequent arrays would be variety of optimized fixed antennas for favorite directions and specialized receiving antennas (beverages, pennants, etc.). Don't forget that lonely (low) inverted Vee, you never know when it comes handy for those high angle signals or when the main artillery gets disabled by icing or rain static.

For those real estate challenged, don't overlook the possibility of going portable to the beach. Using vertical arrays in proximity or over salt water can be very rewarding. It is well known that verticals work well on the low bands, but this is also true for high bands. Last year I managed to beat the 10m US LP record with a pair of verticals stuck in the sand of Cape Hatteras, NC. I was amazed to hear so many rare DX stations calling CQ without takers and coming back to my one call (beginning of openings).

Generally the 10m band is the band to be when it gets hot. Many stations are active with modest rigs and there is plenty of "meat" to be worked in the contest. Many countries allow entry level licensees to operate on 10m as only HF band. This is the widest band we have, with plenty of room and little pistols have chance to get some runs. When the sunspots dip, then

(continued from previous page)

the big guns get through and going gets tougher, but it is worthwhile to spend the time on 10m to boost the scores.

As far as strategy goes, as a rule of thumb, high sunspots or not, stay on the highest band possible while keeping your QSO rates high. Make sure to look carefully at propagation forecasts for all bands. Pay special attention to the openings to Europe - that's where 80% or more of your QSOs should come from. On the CQWW SSB and ARRL SSB weekends there should be at least 8 hours of great openings (run, run, run - you can do it) to Europe on 10m, and on the CW weekends there should be at least 7 hours to Europe. These openings start around 11-12z - don't stay on 20 or 15m too late in the morning when 10m is open! Throw in 2-3 hours of openings to Japan in the late afternoon and that may account for 90% of your final 10m totals.

Almost all of the rest of the time on 10m should be limited to working multipliers and search & pounce efforts to work new stations. Both the CQWW SSB and ARRL SSB weekends also offer the potential for a nice longpath opening to southeast Asia and Japan from 12-14z. The QSO volume may not be great but you should find some usually hard-to-find multipliers are easy pickings. When Europe fades, watch for afternoon openings to Spain (where there's been big growth in contest activity) and from South America. Brush up on your Spanish and a lot more stations will come out of the woodwork on SSB.

During the prime 7-8 hours of European openings, spend most of your time CQing. Don't be afraid to go high in the band. Last year there were plenty of CW stations above 28100, and SSB stations well past 28750. Most likely 10m is going to be your most important band, and you'll be the most competitive there. Stay on 10m for one-third of the contest - at least 8 hours a day, and enjoy it (the other bands just won't be as much fun)! While "experts" predicted decline of conditions, we have seen upsurge of sunspot activity in CQ WW SSB (told you so) and some record scores. You've gotta be ready and be there when IT happens. That's the magic of contesting, you never know.

ARRL offers on-line "Antenna restrictions 'how to' chart"

The ARRL Regulatory Information Branch has made available a "triage center" of sorts for amateurs facing the prospect of dealing with various roadblocks to erecting an antenna system at their residence. The new "Antenna Restrictions 'How To' Chart" page <<http://www.ARRL.org/FandES/field/regulations/ant-how-to-charts.html>> offers three separate outlines that help users to logically work through issues involving local government zoning restrictions; deed covenants, conditions and restrictions (CC&Rs); or rental/lease restrictions relating to antenna structures.

The prime focus is on dealing with Local zoning restrictions to putting up an antenna structure and how to make the best possible case at a local regulatory board hearing. Some of the advice there applies to CC&Rs and rental/lease situations too.

Each "how to" outline is structured around a series of questions--much like a logic or flow chart. Depending on the answer, the user is referred to specific information or additional resources. The page also offers some step-by-step suggestions. For example, the local government zoning outline suggests 10 steps to those seeking to change an overly restrictive local amateur antenna ordinance. One of them is to obtain the ARRL book *Antenna Zoning for the Radio Amateur*. Written by attorney Fred Hopengarten, K1VR, the book offers detailed information on working with local governments and describes proven techniques and strategies that amateurs can employ in efforts to obtain an antenna-structure permit.

The local government zoning outline also offers suggestions and information for amateurs who would like their legislature to incorporate the limited federal pre-emption known as PRB-1 into their state's laws. So far, only 13 states have done so, but bills are still in the works in a few others.

The page offers limited guidance to those confronting CC&Rs--an issue facing more and more amateurs these days--and to those who rent or lease their homes and still want to be able to install an antenna--a situation where PRB-1 does not apply. In both instances, affected amateurs are advised to develop and present logical and persuasive cases for being allowed to install an antenna system--much as they would have to do when dealing with a local government.

New Jersey Amateur Radio Plate Info

New Jersey call sign license plates to bear "Amateur Radio" legend: Starting in February, New Jersey amateurs will be able to request call sign license plates bearing the legend "Amateur Radio," thanks to an amendment to the state's existing call sign license plate statute. The amendment was signed December 28, 2001, by then-acting Gov Donald DiFrancesco. The DMV is not yet ready to process new plates at this point, however. Northern New Jersey Section Manager Bill Hudzik, W2UDT, said the amendment now allows hams with leased vehicles to apply for plates, includes the words "Amateur Radio" on the plates, and increases the fee to \$15.

ARRL DX Test Log Submission Info

K3WW will again help with the submission of ARRL CABRILLO logs for the DX contest this year.

If you use CT you may send your BIN file, along with SECTION NAME, and PROPER CATEGORY NAME to k3ww@fast.net

You may also send the Cabrillo file, which with most recent versions of CT is YOURCALL.TXT and is overwritten each time you type the WRITELOG command.

If you use another software program, you must send Cabrillo output to **K3WW**, if you want him to check the format and upload for you.

If you upload to ARRL, please send a score summary to **K3WW** for the **FRC** records, and SAVE YOUR CONFIRMATION Email. ARRL will be posting received logs, and it is wise to check there to see that everything is right.

Please get your logs to **K3WW** within 2 weeks of the contest, or to ARRL within 30 days. They are zero tolerant of late logs. If you have questions of your attendance, check with **K3WW**.

FRC Meeting Info

FRC West

The next **FRC West** meeting is Friday, February 8th at SILK CITY DINNER at 7.15 PM. Please plan to attend as it will be the last meeting of this contest season. Email **NE3F** at ne3f@talon.net for directions.

FRC/West Jersey DX

There will be a joint **FRC/West Jersey DX** meeting on Thursday, February 21 at 8 PM in Raritan NJ. Contact Paul, **W2LE** at w2le@arrl.net, or 908-996-6080

FRC South

There will be two meetings of the **FRC South** group. The first will be on Friday, February 15 at 6 PM. The second will be on Friday, March 1 at 6 PM. Both meetings will occur at Dallas, **W3PP**'s QTH. Contact Dallas at ludal@dmv.com for further information.

FRC Meeting B

FRC Meeting B was held at Rexy's at 8 PM January 22, 2002. Nine **FRC** members attended a fun and productive meeting.

We discussed plans, experiences and operating tips (actually, ham radio "war stories") for the forthcoming ARRL Contests. Many in attendance had added or upgraded equipment. Several had seats at multi stations, while others were running single op from home station. Almost everyone had made some station improvements since the CQ contests. Some very modest station ops were going to give it their best shot with what they had.

The key to the evening's conversation and camaraderie was that all the South Jersey bunch are ready to contest. They're hot to go after a too long a lay off!

Present were: **K2BU, K2OWE, N2SS, AB2E, K3OX, N2VW, K2SB, N2SCJ, WA3RHW**

(From the **FRC** Reflector)

Whether someone decides to sit in the chair for 48 hours or is only willing to operate for 10 hours in a contest, the idea is to maximize score per time allotted. Some common stuff perhaps worth repeating:

- Keep your rear in the chair for as many hours as you are able...then add a few hours more
- Keep your signal on the air.....SWLs dont make QSOs.
- Use the minimum communication to complete EACH QSO.
- 1 second between CQs when running instead of 5 second between CQs yields almost 5 minutes of "extra" operating time every hour (at 70 QSO/hr) .
- Using "QSL TU QRZ" instead of "TU" costs you ... gasp...send "QSL QRZ" 1000 times and report back to us.
- Yelling "please repeat your zone" instead of "again, again" causes laryngitis not to mention time lost.
- Sending "DE" before your callsign is a no-no. (except when working a novice in Burma for the mult)
- Programming "DE" in an "F-key" message will cause lightning bolts to hit your station.
- Having banter with those calling about their lack of "Full callsigns only" and such wastes YOUR time, not theirs....work the sucker.... and mentally note to do an Elmer class at your local High School next year.
- Don't even mention to a station that he is a dupe working the guy will keep your rhythm, keep the freq in contest mode, and now you are sure you are in his log and he in yours.
- If two stations respond to your CQ, at the end of the first QSO send only TU (not "TU K3IPK TEST")... the other guy who is still waiting already knows your call.
- As a SOA or SO, decide if the joy of breaking a major pileup is worth looking for a new run frequency as well as losing the Q's you would have made while running...one of the Q's you lost may even have been a mult calling you !

Long-time FRC member Dawson Ransome **W2SAI/K3MBF** of Ocala, Fla., formerly of New Hope, died Wednesday, Jan 9, 2002. He was 81.

He served in the US. Air Force during World War II and retired as chief executive officer for Ransome Airlines. He was also captain of the 1972 U.S. team that won the World Aerobatic Championship.



Roger Causse, **W3EVW** (shown below at right with the late **W3AA**) died on Tuesday, January. 8, 2002. (Thanks to W3EAN for the photo)



Watch for the DXpedition website www.Trindade2002.com to become active no later than January 19. Direct questions regarding the DXpedition to [K7BV k7bv@aol.com](mailto:K7BV.k7bv@aol.com) or PY5EG py5eg@inepar.com.br until the actual operating begins. Then lead Pilot Station Rod WC7N wc7n@gb.wave.net will take over coordination chores with assistance from Carl N4AA.

Please send early individual support contributions to K7BV. Your kind contribution can also be sent with your QSL-SASE to KU9C. Dennis Motschenbacher K7BV 4357 Appollonio Way Carson City, NV 89704

T88 – PALAU

From IT9YRE comes the following: Sonsorol island is located in the North Pacific Ocean (05°18N 132°12E according to DXAtlas), 1,9 sq.km, low coral, DXCC country is T8, Palau, Cont. OC, CQ zone 27, ITU zone 64. Originally we had a schedule for November but after the WTC disaster we postponed the trip. Actually the schedule is 6-13 February 2002. We have to use a boat and this will cost us a lot (900\$ each day). To be active during a full weekend, we'll leave Koror Wed 6 Feb and after one full day on boat we hope to land in Sonsorol and be active from Fri 8 Feb to Mon 11 Feb. Our goal is to make as many contacts as possible for IOTA hunters, mainly on 10, 15 and 20 metres both SSB and CW. We hope to always have 2 stations simultaneously working, mainly in SSB (Nando IT9YRE and Maury IZ1CRR. Derek, G3KHZ will operate on CW). The call is unique:

T88SI. QSL info: T88SI via IT9YRE
Ferdinando Rubino
P.O.Box 30
96012 Avola
SR - ITALY

VP8/O – SOUTH ORKNEYS

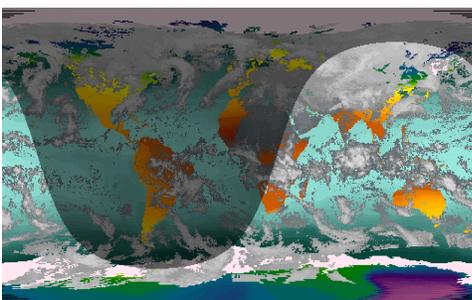
VP8SIG will be the call sign used by GMØHCQ operating from Factory Cove, Borge Bay, Signy Island from February 27th to March 2nd. QSL to his home call.

S O F T W A R E / C O M P U T E R S D E P T

Earth and Moon Viewer is a web site that allows virtual views of the earth to be generated, showing current areas of night and day centered around the present position of the sun or a variety of satellites. Among a variety of things you can do, you can overlay weather satellite data to show cloud cover and global temperatures. This site is addictive, plan to spend a lot of time when you visit.

www.fourmilab.to/earthview/

Here's just one example of a custom map: North and South America during darkness, overlaid with then current cloud cover.



DX ALERT LEGEND

-  160 METER ALERT
-  IOTA ALERT
-  PREFIX COLLECTOR ALERT
-  RITTY ALERT
-  WARC BAND ALERT



QSL DEPT.

7Z1ZZ..... Aboula Alnajim
..... P O Box 16595
..... Riyadh 11474
..... SAUDI ARABIA
9JØS via..... G3TEV
E29AL HSØGBI
..... PO.Box 1090
..... Kasetsart
..... Bangkok 10903
..... THAILAND
TAØ/IZ7ATN/p..... IZØCKJ
VK9CQ via..... PA3GIO
VK9LO via..... PA3GIO
VK9XV..... via..... PA3GIO

ZK1ETWvia.....SM7ETW

FROM THE DXCC DESK

The following operations were on hold for DXCC credit pending receipt of documentation.

Documentation has been received and they are OK for DXCC credit:

CAMBODIA (2001):

XU7ABZ

XU7ABW

XU7ABY

XU7ACA

GUINEA (2001):

3XY6A

3XY8A

If you had these rejected in an application, you can contact DXCC for an update (dxcc@arrl.org), or, just include it with your next submission.

Bill Moore NC1L
DXCC Manager



For tracking purposes the top IOTA numbers currently are as follows (Note 1 addition to Asia):

Africa..... AF-091
AntarcticaAN-018
Asia..... AS-161
Europe EU-188
North AmericaNA-221
Oceania..... OC-247
South America SA-090
Total IOTA's 1014

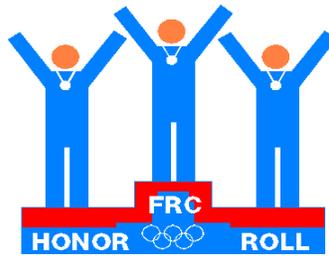
"S"pecial "S"alute

this month to **K3NZ**. 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:609-514-4030
n2ss@n2ss.com
agargano@agilevision.com



FEBRUARY

CONDUCTED by N2SS

2002

WARC BANDS

<u>30 Meters</u>	<u>17 Meters</u>	<u>12 Meters</u>
N2TK.. 321	K2FL...332	K2FL...321
K2FL..... 319	N2TK..... 329	N2TK..321
N2LT..... 308	K2JLA..... 328	N2LT..... 314
W8FJ..... 279	N2LT..... 327	W3BGN... 291
K2RW..... 271	W3CF..... 323	K2JLA..... 284
W3BGN... 269	W3BGN... 310	N2SS..... 273
W2YC..... 253	K2RW..... 307	K2RW..... 266
K2PS..... 251	N2SS..... 302	W3SOH... 253
WA2VYA... 249	W8FJ..... 283	WT3W..... 246
N2SS..... 243	WA2VYA... 273	K2PS..... 240
K3ANS.... 237	W2YC..... 270	WA2VYA... 238
K2JLA..... 237	K2PS..... 266	W2YC..... 235
K3II..... 222	W3SOH... 260	KS3F..... 217
W3SOH... 211	WT3W..... 259	W8FJ..... 213
W2LE..... 200	K3ANS.... 237	W2UDT... 198
W2UDT... 176	W3OV..... 234	K3II..... 195
KS3F..... 166	K3II..... 233	W3CF..... 192
AA2WN... 164	N1RK..... 220	N1RK..... 191
WT3W..... 151	W2UDT... 220	K3ANS.... 175
W3OV..... 150	KQ3F..... 217	KQ3F..... 172
W2OX..... 124	KS3F..... 206	W2YR..... 170
W2YR..... 120	W2BE..... 196	W3OV..... 160
K2WK..... 115	W2LE..... 186	W2LE..... 151
K2JF..... 111	W2OX..... 184	NA2U..... 138
NA2U..... 103	W2YR..... 184	K2JF..... 135
KQ3F..... 96	K2JF..... 168	W2OX..... 107
K2NJ..... 76	NA2U..... 155	K3AR..... 61
N2VW..... 67	K3AR..... 116	W2BE..... 53
K2BU..... 65	AA2WN... 102	K2WK..... 42
K2WJ..... 28	K3ND..... 102	K2NJ..... 37
W3CF..... 27	K2WK..... 96	N2VW..... 25
W2BE..... 20	K2NJ..... 80	K3GYS... 24
N2MT..... 15	K3GYS... 64	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 your total IOTAs or countries (including deleted) worked. Countries do not count until ARRL takes official action and announces a recognition date.



160 Meters



W3BGN287
AA1K 278	K2PS..... 97
K2BU..... 256	K2RW..... 81
WT3Q..... 245	W2YR..... 80
N2TK..... 234	N3ZA..... 77
N2LT..... 232	N2VW..... 74
K3ANS..... 229	NA2U..... 73
K3NW..... 226	K2QMF... 69
K3SX..... 210	W3CF..... 69
K2WK..... 198	N2SS..... 67
W8FJ..... 181	K3NL..... 62
K3NZ..... 166	K2NJ..... 49
W3OV..... 163	K2JLA..... 35
N3RS..... 156	KB3FEE... 38
K3JJG..... 154	N1RK..... 36
W2OX..... 152	KQ3F..... 34
K3II..... 149	K3AR..... 33
NO2R..... 144	AA2WN... 25
WA2VYA... 138	W2LE..... 22
K2FL..... 135	K2JF..... 20
W2YC..... 135	W2BE..... 17
K3ND..... 132	N2MT..... 14
K3NM..... 126	K3GYS... 12
WT3W..... 125	W3SOH... 10
KS3F..... 124	K2WJ..... 3

W3BGN continues as the undisputed
Top of Top Band.



RTTY Digital

W2UP.....332	W3CF..... 100
N2LT..... 325	W2LE..... 80
W3KV..... 312	K2JF..... 57
W3SB..... 245	WA2VYA... 50
K2PS..... 240	N1RK..... 43
K2WK..... 223	N2SS..... 42
K2RW..... 202	N2MR..... 28
K2NJ..... 196	KQ3F..... 23
AA2WN... 162	K3GYS... 14
WT3W..... 151	K2WJ..... 12
W2YC..... 136	W8FJ..... 12
W2YR..... 121	N2VW..... 7



1.5K Club

K2FL..... 1698	K2JF..... 1350
W3BGN 1677	K2NJ..... 1345
N2TK..... 1671	W3SOH... 1339
N2LT..... 1658
W2UP 1626	AA2WN... 1295
K3ANS..... 1588	NA2U..... 1295
W8FJ 1565	W2BE..... 1273
K2WK..... 1558	W2OX..... 1272
K2RW..... 1556	N2VW..... 1240
K2BU..... 1550	N3ZA..... 1240
N3RS..... 1493	N1RK..... 1225
N2SS..... 1477	WT3Q..... 1162
K2PS..... 1468	K2WJ..... 1161
K3ND..... 1460	W2YR..... 1098
W2YC..... 1450	W3CF..... 1077
NO2R..... 1429	W2LE..... 1077
K2JLA..... 1428	W2UDT... 1016
KQ3F..... 1384	K3NM..... 994
WA2VYA... 1382	K3AR..... 978
KS3F..... 1375	N2MT..... 719
N3RD..... 1374	KB3FEE... 231
WT3W..... 1361	



MOBILE DX

W2YC..... 257	AA2WN... 108
N2SS..... 227	WT3Q..... 107
AA1K..... 219	KB3FEE... 48
N2MR..... 180	W2YR..... 19
K2JF..... 150	AD3Z..... 5
K3GYS..... 133	

W2YC is safely ensconced **MOBILE #1**



Islands On The Air

K2FL..... 915	W2UDT..... 368
K2JLA..... 854	KS3F..... 263
W3SOH... 740	N2VW..... 250
N2SS..... 676	K2WJ..... 223
W8FJ..... 524	WT3W..... 203
N1RK..... 462	W3CF..... 200
W2YC..... 456	K3GYS... 109
.....	KB3FEE... 23



THE FRANKFORD RADIO CLUB NEWSLETTER

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



Affiliated Club

The Frankford Radio Club

In This Issue

IMPORTANT MEETING
ANNOUNCEMENT

ARRL CONTEST DXPE-
DITIONS

THE ROLE OF 10 METERS
IN CONTESTS

ANTENNA RESTRICTIONS

MAX YOUR SCORE

AND MORE!!!

**Deadline for Mar. issue:
Sunday, February 24, 2002**

Club Officers

President, **W3CF**, Doug Priest..... 215-361-9989
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Editor, **KQ3F**, Joe Stepansky 717-657-9792
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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