



THE FRANKFORD RADIO CLUB NEWSLETTER

PROFICIENCY THROUGH COMPETITION

CALENDAR

October 2007:

- 6-7 Oceania DX Contest, SSB
- 6-7 California QSO Party
- 9 FRC Main Meeting, Phila.**
- 9 Remy Meeting B**
- 13-14 Oceania DX Contest, CW
- 13-14 Pennsylvania QSO Party
- 18 T.I.T.S. Meeting, Noon**
- 20-21 Worked All Germany Contest
- 23 Remy Meeting B**
- 27-28 CQWW SSB DX Contest**

November 2007:

- 3-4 ARRL Sweepstakes, CW
- 10-11 Worked All Europe, RTTY
- 10-11 OK/OM DX Contest, CW
- 13 FRC Main Meeting, Phila.**
- 13 Remy Meeting B**
- 17-18 LZ DX Contest
- 17-18 ARRL Sweepstakes, SSB
- 15 T.I.T.S. Meeting, Noon**
- 24-25 CQWW CW DX Contest**
- 27 Remy Meeting B**

CHANGES

New Members

Bob Davis, **NQ3X**
(bob@reconstructinghistory.com)
2064 South Delaware Drive
Easton, PA 18042
phone 856-304-4652

Mary J. Von Lintig, **KV2M**
14 Carlisle Drive
Voorhees, NJ 08043

Email

KD3TB—irwindarack@comcast.net

Deadline for November issue:

Tuesday, October 30, 2007

From the Editor

One of the truly enjoyable aspects of **FRC** membership is meeting other members at gatherings large and small. Living in Harrisburg, I haven't been able to make many meetings. When Dale, **N3BNA**, scheduled an **FRC West** meeting on September 27, it was a perfect opportunity to meet more **FRCers**. While I don't know that those of us in attendance solved much, there were several suggestions offered:

1. There's a sense of isolation among some members. There are a variety of reasons for this, but the point was that there seemed to be more camaraderie years ago. Ironically, despite communication advances, we seem more distant from each other than ever.
2. From an operating perspective, **FRC** ops are at the top in points per submission. The trouble is the number of submissions. Yes, we're bounded by YCCC to the north, PVRC to the south and the Atlantic Ocean to the east. So what do we do? Perhaps actively encourage smaller scores (100K)? How many members simply can't devote an entire weekend to a contest yet feel anything less than a meg isn't appreciated (note: I believed that years ago)? Do we know middle-aged people for whom the spirit of competition is alive and well? People who may not be able to compete physically anymore but might relish contest competition?
3. We can do things as we've always done them and stay where we are, or we can change. We can continue alienating existing members or reach out to them and new contesters. It's our (both individually and collectively) call.
73, Joe KQ3F

FRC CQWW SSB DXPeditions



VP5T by **WA2VYA; K2WB; W2WAS** and **N2VW**.

P40W by **W2GD**

KP2 by **W3FV** and **N2TK**

VP9 by **K3YD**

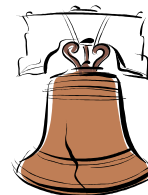
FS by **N3DXX**

VP2MDG by **K2DM**

MEETINGS

Main Meeting

The main monthly meeting of the **Frankford Radio Club** will be held Philadelphia on Tuesday, October 9 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, October 18 at 12:00 noon. Location is the Hometown Diner on Route 222 in Trexlertown..

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

**List of FRC Contributors as of September 18, 2007
(New Contributors in Bold)**

AA2WN	K300/K3000	W3GNQ/W3LRS	W3MM/W3RAT	
AA3B	K3FMQ	N2BA	NA2U	W3EA
AB2IO	K3GYS	N2CQ	NC1A	W3FV
K2AX	K3II	N2LT	NO2R	W3FVT
K2DM	K3JGJ	N2TK	NW3Y	W3KV
K2FL	K3MD	N2VW	W2CG	W3MF
K2JF	K3ND	N3BNA	W2LE	W3PA (FL)
K2NG	K3PH	N3ED	W2OF	W3SOH
K2OWE	K3TEJ	N3GNW	W2RD	W4AA
K2PS	K3VA	N3KR	W2REH	W8FJ
K2QM	K3WW	N3NR	W2UDT	WA2VYA
K2QPN	K3YD	N3RD	W2UP	WA3RHW
K2SB	K9RS	N3RW	W2YC	WA3YOB
K2SG	KC2NB	N3VV	W2YR	WE3C
K2UT	KD2I	N3YW	W3AP	WQ3E
K3ATO	KD2RE	N3ZA	W3BGN	
K3CT	KQ2M	N8NA	W3CC	
K3CY	KQ3F	N9GG	W3CF	

CQWW Contest Log Submission Guidelines

Please upload your CQWW SSB Cabrillo log to ssb@cqww.com and send the score summary or a copy of the log to k3ww@fast.net. Chas, **K3WW**, will try to pick up **FRC** scores posted to 3830, but it's best to email him your scores a few days after the contest. If you need help uploading your log, contact Chas at k3ww@fast.net

CQWW scores are split evenly among all operators listed. All **FRC** members living within the home circle count for the club submission, no matter where they operate. Non-members and members living outside the circle do NOT count for **FRC**, no matter where they operate.


73, Chas K3WW

FRC Top Scorers 2006-2007 Season

Rank	Call sign	CQ SSB	CQ CW	ARRL SSB	ARRL CW	Total
Top Gun	W2GD	10,449,828	12,322,725	2,329,470	5,282,112	30,384,135
Big Gun	K2NG	2,443,664	5,148,960	5,494,230	3,849,252	16,936,106
1	N2NT	12,009,900			4,125,474	16,135,374
2	AA3B	2,114,732	8,043,526	1,270,422	3,119,379	14,548,059
3	K3WW	3,299,940	6,358,116	1,844,832	2,903,538	14,406,426
4	AA1K	2,960,856	4,168,692	2,369,718	3,414,798	12,914,064
5	N3AD	2,967,966	4,109,240	2,407,716	1,348,584	10,833,506
6	W3BGN	3,117,120	3,164,396	2,214,562	2,209,104	10,705,182
7	N2TK	4,358,264		6,311,700		10,669,964
8	W3FV	4,358,264	2,890,112	636,120	2,109,376	9,993,872
9	N2LT	1,386,080	4,061,094		2,735,040	8,182,214
10	WE3C	4,000,608		1,272,240	2,405,364	7,678,212

Grand Slam Awards for 2006-2007 Season

AA1K	AA3B	K2AX	K2NG	K2PS	K2QM	K2TW
K3IPK	K3MD	K3ND	K3OO	K3PH	K3WW	K3YD
KC2NB	KQ3F	N2SR	N3AD	N3MX	N3RG	N3RJ
N3ZA	NA2U	NN3Q	NO2R	W1GD	W2GD	W2LE
W2OF	W2YC	W3BGN	W3CF	W3FV	W8FJ	



Watt Meters

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Featuring new and used meters, elements, loads and more by BIRD® and Coaxial Dynamics.

73 Tim Brown NM3E 610-207-4865

Top FRC Multi-ops 2006-2007

US MM	Station	Total	CQSSB	CQCW	ARRLCW	ARRLSSB
1	N3RS	23,542,421	7,475,622	10,940,000	0	5,126,799
2	K2AX	9,490,083	1,836,396	5,198,904	2,454,783	0
3	W2ZQ	7,609,037	2,614,704	4,994,333	0	0

US MS	Station	Total	CQSSB	CQCW	ARRLCW	ARRLSSB
1	W3BGN	15,176,124	0	6,328,791	4,418,208	4,429,125
2	W3NX	3,945,435	1,665,222	1,418,625	861,588	0
3	W2ZQ	2,955,999	0	0	2,153,424	802,575

DX MM	Station	Total	CQSSB	CQCW	ARRLCW	ARRLSSB
1	WP2Z	21,399,928	8,716,528	0	6,371,700	6,311,700
2	V26B	18,729,434	18,729,434	0	0	0
3	VP5T	5,653,532	5,653,532	0	0	0

DX MS	Station	Total	CQSSB	CQCW	ARRLCW	ARRLSSB
1	KP4US	4,272,438	0	4,272,438	0	0
2	HS0AC	1,134,544	1,134,544	0	0	0

Operators

US Multi-Multi:

N3RS: K3IPK, N2SR, N3DXX, N3ED, N3NA, N3RD, N3RS, W8FJ, WA3LRO
K2AX: K2AX, K3ZV, KC2TN, KD2P, N2AK, N2SR, N3RG, W2OF, W2RDS
W2ZQ: AB2IO, K2QM, N2BA, N2EA, N2WKS, N3GNW, WT2P

US Multi-Single:

W3BGN: K2TW, NO2R, W3BGN
W3NX: KD2HE, N3DXX, N3NR
W2ZQ: AB2IO, AB3AH, K2QM, N3GNW

DX Multi-Multi:

WP2Z: K3CT, K3TEJ, K8MJZ, N2TK, W3FV
V26B: KA2AEV, N2ED, N3OC, W2BZR, WX3B
VP5T: N2VW, W2WAS, WA2VYA

DX Multi-Single:

KP4US: K9HZ, KC9Z, N3BNA, WS6X
HS0AC: HS1CK, KL7ENY, W2YR

CONTESTING — TIPS, TECHNIQUES, RESOURCES

Reprinted with permission from the August 22, 2007 Contest Rate Sheet

It's time to update your CTY files because Bosnia and Herzegovina have just been granted the prefix block E7A-E7Z by the ITU. This replaces the T9A-T9Z block in current use. (Thanks, Jim AD1C)

Rich K2WR, a frequent traveler, recommends the Wonpro brand of ac plug adapters, sometimes available at RadioShack (<http://www.radioshack.com/>). He's found an on-line source for them at <http://www.euoplugs.com/> The WA-5, WA-7, and WA-9 are the ones he finds most useful. These are not voltage adapters, just plug adapters. Scott K7ZO also likes the adapters and service from <http://www.walkabouttravelgear.com/elect.htm> including lots of information on the Web site.

Antennex (<http://www.antennex.com/news/index.html>) has just released another book, "Feeding Antennas, Volume 1: About Baluns". Volume 2 is not far behind. (Thanks, Steve K7LXC)

If you are putting Microsoft Windows Vista to work in your shack, Jim AD1C has set up a Yahoo group (<http://groups.yahoo.com/group/vista-ham/>) for discussing hardware/software issues with Vista. You can become a member by accessing the Web site, including subscribing to an email reflector.

Pat N0HR has written a very useful piece of software called HamLinks. It's a browser toolbar focused on ham radio that works with both popular 'net browsers running in the Windows environment. It's downloadable for free (http://www.n0hr.com/Ham_Radio_Toolbar.htm), installs and uninstalls easily, and gives hams quick access to ham content on the Web, such as product reviews and for sale sites. It also links to RSS blog feeds, a UTC clock, WWV propagation info, ham radio podcasts and more.

Maximize your Search and Pounce catch by learning how to use both VFO A and VFO B while tuning through the band. Start with both VFOs equal. Tune VFO A until you find a station. Call. If you don't get through, quickly set VFO A = VFO B and keep tuning. Find another station. Call. If you don't get through, bounce back and forth between VFO A and VFO B until you get through on one of the pileups or give up. As soon as you do get through, jump to the other VFO, set VFO A = VFO B, and repeat. When making a pass through a crowded band, you can make a lot of QSOs in a hurry. Even on a "just lost my CQ frequency" sweep, the dual-VFO strategy is more fun!

Here are some easily understood Phillystran polymer guying cable installation instructions from the official Phillystran Web site at <http://www.phillystran.com/365.htm> (Thanks, Frank W3LPL)

David K3KY's "Flags and Pennants" Web page (<http://www.angelfire.com/md/k3ky/page37.html>) has been updated to include a downloadable PDF report by IV3PRK showing results of his work with a W7IUV rotary flag, a Waller Loop rotary flag, and detuning of his transmit antenna. Well illustrated with photos, charts, and graphs it makes for some impressive reading. The idea of a rotary Beverage antenna for top band is most intriguing!

David K1TTT and Rick N6RK both enthusiastically recommend Alloy 1100 aluminum wire for radial systems. It's not cheap, as both of them observe, but it is corrosion-resistant and seems immune to kinking and snarling. Check whatever wire supplier you prefer - wholesale dealers seem to be selling it for a few dollars per pound on large spools of a couple thousand feet or more.

Bill N1HWC found an attractively-priced source (<http://www.wescodirect.com/>) for brightly-colored guy marker tubes that slide over guy wires. You've seen them on utility pole guys - they help keep folks from running into the wires. No need to buy a case of 25 as this company sells in unit quantities.

<http://www.lz1jz.com>



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I'm sure antenna system builders will appreciate the following tip from Tim K3LR. "When cutting ¼-wavelength sections of transmission line, in many cases you really want to cut your lines higher in frequency than where you ultimately want them to operate. Why? Any lead length to antenna elements or internal switch (relays) etc. is in series with your phasing lines and is additive and lengthens the "real" line length. This "extra length" lowers the frequency at which your line is 1/4 wavelength (or 1/2, 3/4, etc.). For every "inch" of "extra" lead length, PC board trace or relay RF wiring, here is what happens:

On 160 meters the shift is 1 kHz lower in frequency.

On 80 meters the shift is 4 kHz

On 40 meters the shift is 17 kHz

On 20 meters the shift is 65 kHz

On 15 meters the shift is 150 kHz

On 10 meters the shift is 270 kHz"

You can measure the extra length of line by using an SWR analyzer with the accessory equipment, such as a switch, attached to the line. This is also a consideration when constructing a switched stub.

Reprinted with permission from the September 5, 2007 Contest Rate Sheet

If you have legal questions about topics such as ham radio, antennas, CCRs and zoning rules, the Ham Law reflector is a good source for information. You can subscribe by sending a message to listserv@mail.altlaw.com containing "subscribe ham-law@mail.altlaw.com" in the body of the message. (Thanks, Don K4AC)

Joe KC2TN recommends the Valmont Microflect 3-port panel (<http://tinyurl.com/37mvgv>) as a professional cable entryway for the home station. Each port is 4" in diameter and has a sealing grommet through which you can pass various sizes of coax, rotor cable, grounds, etc. There are various configurations available to suit your needs. Need to get to their main page to see if there is a cross ref list.

If you have to keep replacing indicator lamps in rotator control boxes, rigs, and other devices, check out <http://superbrightleds.com/specs/ba9s.htm> for drop-in replacements. These LED indicators cost more than incandescent bulbs, but will probably last longer than the operator! (Thanks, Dennis N6KI)

To remove stuck-on Coax-Seal from connectors and cables, Carl KM1H recommends Brake Clean if you're working on the tower. On the ground, use Lacquer Thinner or Acetone which are harder to use aloft. Steve K7LXC also notes that professional grade vapor wraps leave much less residue than Coax-Seal.

Contesting's walking encyclopedia, Frank W3LPL, answers the question of why there are two kinds of Penetrox. "Penetrox-A uses a Vaseline suspension. Vaseline can be problematic with rubber and some other materials. Penetrox-A13 and -E use a synthetic suspension. Types -A and -A13 use aluminum particles, while -E uses copper particles." The Burndy catalog description at <http://tinyurl.com/32wv73> goes into more detail.

In the "who hasn't had this happen to them" category, Jim K5LAD has constructed a spreadsheet program (<http://tinyurl.com/2w49kb>) to show bearing corrections when there has been slippage between a beam, the mast, and the rotator. Of course, realigning the hardware is the complete solution, but until you get the job done this will help keep your RF headed in the right direction.

CONTESTING — TIPS, TECHNIQUES, RESOURCES

Reprinted with permission from the August 22, 2007 Contest Rate Sheet

Here comes contest season and with it our weekends at the controls, scouring the bands for contacts far and wide. It's an amazingly good time and a bit of a wonder that more hams don't give it a try. Contesting is not only fun for existing hams, but in a hobby-service that seems to be so hard to explain to non-hams, contesting seems to be one of the easier activities to understand. Therein lies special value that contesters can bring to the advancement of the Amateur Service, ensuring that it remains healthy and vital for the next generation.

Technicians and new Generals (and Extras!) are about to have their first opportunity to experience the fall contest conditions we anticipate all year long. World Wide, Sweepstakes, 160 Meter, 10 Meter (and more) are all available for these folks to get on the air and try out their new privileges. But will they?

They certainly won't if they don't know about contesting. And they probably won't if they feel intimidated or ignorant. Furthermore, at the bottom of the solar cycle, the excitement of 10 meters is a few years away. Without some education, these new folks - our potential replacements - may decide that HF isn't all that much fun.

Even if informed, it's not a slam dunk that new hams will immediately "get" contesting. As we all know, HF operating and particularly contesting, is very, very different from VHF/UHF FM. Everything from how a signal sounds to how fast one talks is different. Having a good experience in contesting requires some basic skills that the new hams probably haven't yet learned. Remember YOUR first contest QSOs?

Maybe you'd rather not! It takes one-on-one teaching and Elmering to get those new hams up to speed where they can participate and enjoy contesting on their own.

Contesting is an exciting, engaging, relatively easy to understand activity that every ham can enjoy, if only as a means of learning and training. We can take the initiative, beginning with contacting some of those new hams and recent upgrades.

Identify the new hams. Use the FCC's Universal License Service's (<http://wireless.fcc.gov/uls>) search function to identify new amateur license grants (type HA) and upgrades in your area. Buy a stack of 23-cent post cards from the USPS. Load them into a printer and print out the mailing addresses.

Contact the new hams and invite them to a meeting, a demonstration, or a "welcome new hams" open house at one or more stations. Activity in the North American Sprint contests took a jump after some regular Sprinters took it upon themselves to mail post cards to new calls seen in logs and invite them to join the fun. Every contest club can do exactly the same thing.

Follow up with a phone call or email when you can. Think back to your first days of ham radio. Unless you had an Elmer or at least a peer group, would you have felt comfortable showing up at a meeting where you knew no one or going to someone's open house? It takes personal contact and reassurance to help a new ham into the tribe.

Now Elmer them! A small investment of time, spread out across club members or a group of operators will pay big dividends in the future. Show them how, just like someone did for you. Create short operating events within existing contests for them. Show them how to put up their own station at home or in a vehicle. Make sure every single person that comes in the door gets some personal contact and an invitation.

Not all of these neophytes will become even casual contesters - most won't, in fact. But all of them will feel a little more connected to the rest of our tribe. From the time a new ham receives a license, the first six months to a year determine whether they will stay with ham radio or drop it. Current statistics show that more than half of new hams, after doing all the work to study and pass the exam, never make one single QSO! Not one! What a tragedy, doubly so because it's completely preventable and within our means to prevent. All it takes is contact.

73, Ward N0AX

Get Ready for the Second Annual ARRL On-line Auction

The Second Annual ARRL On-Line Auction kicks off October 24, running until November 2 on the ARRL Web site <<<http://www.arrl.org/auction>>>. This is your chance to pick up one-of-a-kind Amateur Radio items. To see what the Auction will offer this year, be sure to check out the Auction preview that begins October 17. Last year, the Auction attracted more than 4300 bidders from 36 countries. While the majority of buyers were from the USA, Canada and the UK, there were buyers from Australia, Malaysia, Grenada and Tanzania.

According to ARRL Chief Operating Officer Harold Kramer, WJ1B, "Last year's on-line auction was our first and it was a great success. When the bidding ended, we realized that we had sold 104 items and we had raised just over \$37,000." Proceeds from the auction benefit ARRL education programs including activities to license new hams, strengthen Amateur Radio's emergency service training, offer continuing technical and operating education, as well as creating instructional materials.

This year's auction will include many products tested by the ARRL Lab for QST Product Review. These items include an ICOM IC-7800, a Ten-Tec Omni VII, a Palstar Auto Antenna Tuner, an MJF 974H Balanced Antenna Tuner and a Heil Traveler Headset. There will be many vintage items offered, including the antique transmitter featured in John Dilks' "Old Radio" column in the November 2007 issue of QST. Also, returning by popular demand will be five ARRL Lab unique "junque" boxes.

Upcoming Hamfests (Thanks to Glenn, K3SWZ)

October 6	Brownstown, PA
October 7	Howard County, MD
October 21	Sellersville, PA
October 28	Westminster, MD



Contest Season is Here!!!

Work Wanted:

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

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

Reasonable hourly rates and scheduling that meets your needs.

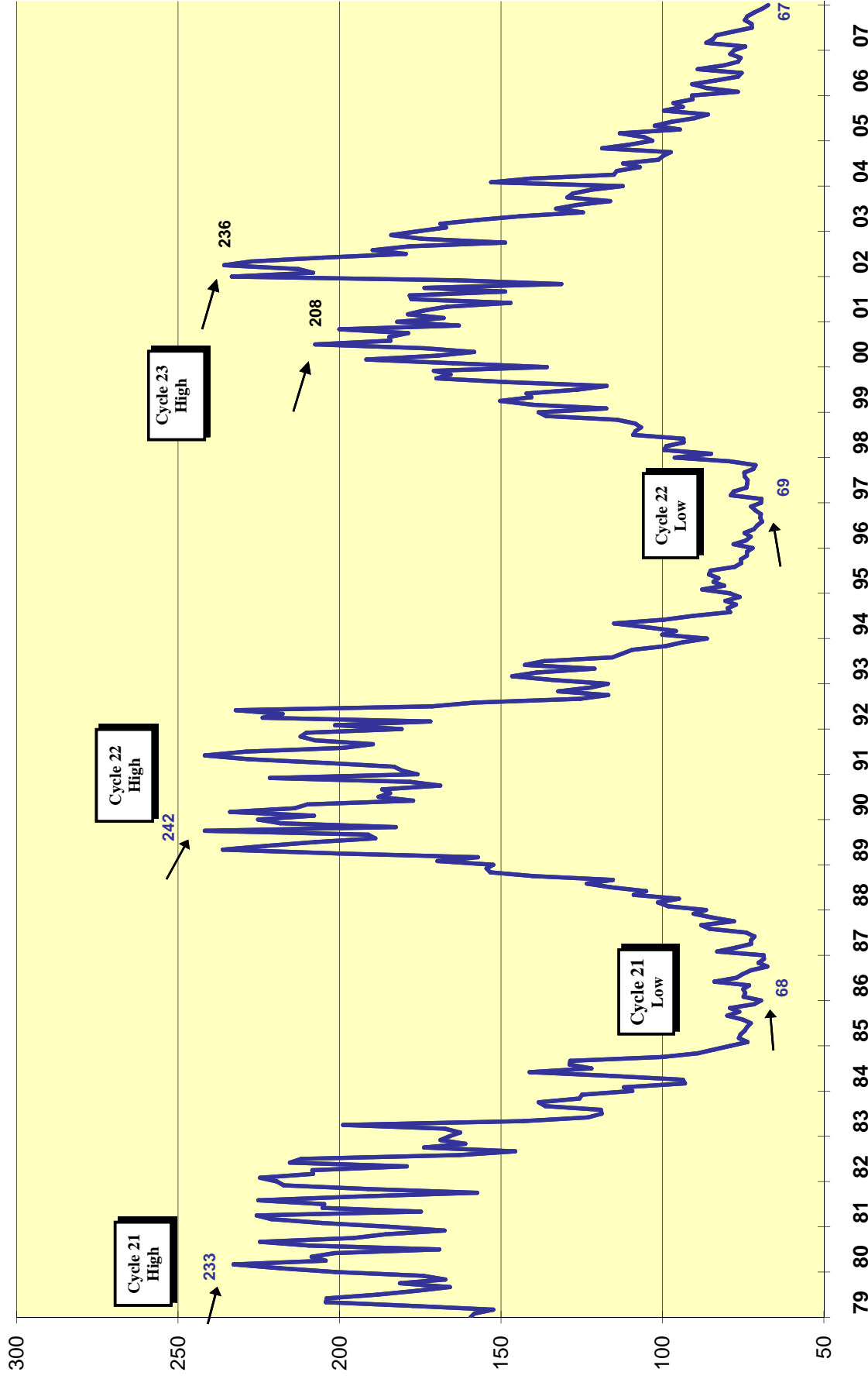
Contact: John Crovelli W2GD

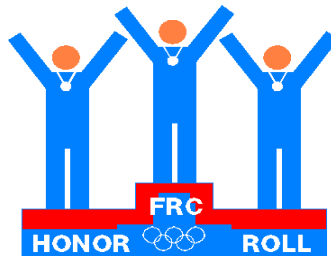
w2gd@hotmail.com

New Reach Number: 908 391 5611 (Mobile)

Average Monthly Solar Flux: Sep 1978-Sep 2007

(Data and Chart by N2SS)





OCTOBER

CONDUCTED by N2SS

2007

WARC BANDS

<u>30 Meters</u>	<u>17 Meters</u>	<u>12 Meters</u>
K2FL.. 335	K2FL...339	N2TK .. 330
N2TK333	N2TK 338	K2FL.....327
N2LT324	N2LT 336	N2LT.....321
W3BGN320	W3BGN ... 332	W3BGN ...315
W2YC308	W3CF 332	N2SS.....303
N2SS295	N2SS 324	W3CF303
W8FJ293	W2UP 318	W2YC278
K2PS289	W2YC 312	K2PS.....269
W2UP286	K2PS 310	W2UP267
N3RD272	W8FJ 296	W8FJ.....233
K3II234	N1RK 257	N1RK.....218
W2LE221	K3II 256	K3II.....203
W2IRT212	W2LE 244	W2LE198
W2RQ182	W2IRT 241	N3KN191
AA2WN...174	W2YR 202	W2YR.....187
AB2E146	K2AX 192	NA2U156
N2VW144	W2RQ 192	W2IRT122
K3CT134	N3KN 171	W2RQ119
W2YR131	NA2U 167	W2IRT105
N3KN126	K3ND 127	AB2E92
N1RK116	K3CT 126	K3CT83
NA2U110	AA2WN ... 122	K2AX69
K3ND91	AB2E 121	N2VW36
W3CF61	N2VW 101	K3GYS30
K3GYS17	K3GYS 85	AA2WN.....20
K2AX15		

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

W3BGN297	AB2E 100
AA1K294	N2VW 97
WT3Q264	W2CG 95
N2LT257	W2IRT 93
N2TK255	NA2U 83
NO2R241	W2YR 81
K3SX241	N2SS 79
W8FJ225	K2AX 77
W2UP211	W3CF 77
K3JIG215	K3NL 70
W2YC201	W2LE 64
W2RQ166	K3CT 63
K3II160	N1RK 51
N3RS156	AA2WN 50
K2FL143	N3KN 34
K3ND137	K3GYS 12
K2PS109	

W3BGN continues as the undisputed Top of Top Band.

Digital

W2UP341	W2YR 132
N2LT337	KQ3F 132
K2PS297	W2CG 66
W2YC276	N2SS 53
AA2WN187	N1RK 39
N3KN181	K3GYS 15
W2IRT159	W8FJ 12
W2LE141	



MOBILE DX

W2YC276	K3GYS 143
AA1K274	AA2WN 131
N2SS234	W2YR 28



1.5K Club

K2FL..... 1718	K3II1449
W3BGN 1706	W2CG1408
N2TK 1699	W3CF1403
N2LT 1695	AA2WN1379
W2UP 1680	NA2U1365
W2RQ 1645	K2AX1334
N3RS 1632	N2VW1308
W8FJ 1607	N1RK1300
W2YC 1584	W2LE1193
N3RD 1561	AB2E1185
NO2R 1552	K3CT1180
K2PS 1539	W2YR1153
N2SS 1537	N3KN1120
K3ND 1508	W2IRT1087



Islands On The Air

K2FL..... 1012	N2VW272
N2SS 842	W3CF253
W2YC 656	W2YR244
W8FJ 623	W2IRT232
N1RK 549	K3GYS232
WA3RHW292	AB2E205



6 METER DXCC

K2PS108	N3KN52
N2LT107	W2YR44
AA1K 99	W2YC29
K3OO 90	K2AX18
K3SX 75	AA2WN15
N1RK 57	N2TK12
N2SS 55	K3GYS10

K2PS displaces long standing leader N2LT 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

Club Officers

President, **N3DXX**, Art Hitchens... 302-764-8061
Vice Pres, **W8FJ**, John Schrader 610-279-6097
Secretary, **K3ZV**, John Lindmeier..... 856-768-5348
Treasurer, **K2QM**, Bob Shohet.....203-270-8456

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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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