



THE FRANKFORD RADIO CLUB NEWSLETTER

PROFICIENCY THROUGH COMPETITION

CALENDAR

April 2003:

- 8 FRC Meeting, KofP, 8 PM**
- 8 Rexy Meeting B**
- 11-13 Japan Int. DX Test, CW
- 17 T.I.T.S. Meeting, Noon**
- 17 FRC/WJDXG meeting**
- 19-20 YU DX Test
- 22 Rexy Meeting B**
- 26-27 Helvetia Contest

May 2003:

- 10-11 CQ-M Int. DX Contest
- 13 FRC Meeting, KofP, 8 PM**
- 13 Rexy Meeting B**
- 15 T.I.T.S. Meeting, Noon**
- 24-25 CQ WPX Test, CW
- 27 Rexy Meeting B**

June 2003:

- 10 Rexy Meeting B**
- 19 T.I.T.S. Meeting, Noon**
- 21-22 All Asian DX Test, CW
- 24 Rexy Meeting B**
- TBD FRC Summer meeting?**

CHANGES

Kay Cragie, WT3P is now **N3KN**.
E-mail can be sent to either
wt3p@comcast.net or
n3kn@comcast.net.

ROSTER CORRECTIONS

Roster corrections go to **K3WW**.
A full roster will be attached and
EVERY active member will get this
newsletter.

FRC 2003-2004 Officer Election Results

The following were elected at the March FRC meeting for the 2003-2004 term:

President: Joe Brue **K3NM**
Vice President: John Schrader **W8FJ**
Secretary: John Lindmeier **K3ZV**
Treasurer: Dan Marlow **K2QM**



Main Monthly Meeting

On Tuesday, April 8, the main **FRC** monthly meeting 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. The Fire House is located at 170 Allendale Road in King of Prussia, Pa. 19406.

T.I.T.S. meeting

The Trexlertown International Transmitting Society has a new meeting place. It's the Pied Piper / 76 House, located just down the road from the old location. Location is on the Southwest corner of 222 and Route 100 at the traffic light. The meeting will be on Thursday, March 20 at 12:00 noon.

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.

Joint FRC/West Jersey DX Group Meeting

The West Jersey DX Group will be having a joint FRC/WJDXG meeting on April 17 at the Somerset County Fire Training Academy in Hillsborough NJ. For directions contact Paul, W2LE at w2le@eclipse.net

President's Column

As your newly elected President, I would like to thank all of you who voted for me. I promise to work very hard for the improvement of our club and to always deserve the confidence you have shown in my leadership.

I want to thank everyone who contributed points in the last four major contests. However, it is now time to focus on our contest performance in the coming year. I believe our membership is up from prior years and that is a good thing. With a stronger commitment of time and effort from each member, I am confident that **together** we can make the **Frankford Radio Club** the **#1 unlimited contest club again!** This is a realistic goal, but one that requires each of us to work a bit harder and longer to win back this title. As your President, I hope to inspire this new energy in our club.

Finally, it is time for our annual contribution drive. Please watch for your stamped envelope and make your contribution early. This upcoming mailing will also include a new roster. I hope to see all of you at the next meeting and welcome your support in managing our club.

73, Joe K3NM

ASK "DR. COMPUTER"

By N3MX
(as told to K3YD)



1. I have a computer running Windows95 (or Windows98) and it's working just fine. Why should I upgrade to a newer operating system?

If everything is working the way you want it...then why indeed? As with anything in technology, things keep improving. Are you still satisfied with your old Heathkit or Collins gear? Then why buy a new ICOM 756 PRO II???

2. If I upgrade to the newest operating system, how much RAM will I need? How much space on my Hard Drive? How fast a CPU? (i.e. my shack computer has 64 meg of RAM, 2.1GB hard-drive and a 233 MHz CPU. Is this enough computer for the most current operating system?)

This is from Microsoft's website:

Here's What You Need to Use Windows XP Home Edition: PC with 300 megahertz (MHz) or higher processor clock speed recommended; 233-MHz minimum required; Intel Pentium/Celeron family, AMD K6/Athlon/Duron family, or compatible processor recommended; 128 megabytes (MB) of RAM or higher recommended (64 MB minimum supported; may limit performance and some features); 1.5 gigabyte (GB) of available hard disk space; Super VGA (800 × 600) or higher resolution video adapter and monitor; CD-ROM or DVD drive; Keyboard and Microsoft Mouse or compatible pointing device

Short and sweet...You do not have what it takes to run Windows XP...

3. I log with CT (or NA) which runs in a DOS window, or else I re-boot to DOS. I hear that the new operating systems don't have any DOS functionality. How do I continue to use my favorite, familiar logging program?

You could run CTWIN but you will not have the full functionality of the DOS version. NA won't work without DOS. Writelog will work with the newer operating systems.

Continued on page 4

2003 ARRL DX SSB FRC Claimed Scores

Station	QSOs	Cntrys	Class	Score
AA1K	2,201	433	SO	2,859,099
AD3Z	235	141	SO	99,405
K2DM	1,798	403	MS	2,173,782
<i>Ops K2DM K3PH K3ZM</i>				
K2NG			SOA	3,940,266
K2OWE			SOA	618,120
K2PS	1,034	344	SOA	1,067,088
K3ATO			SOA	544,236
K3CP			SOA	1,194,288
K3II			MM	2,564,784
<i>Ops K3II K3CT WF3H</i>				
K3MD	768	292	SOA	672,768
K3NM			SOA	1,565,196
K3NZ			SOA	630,045
K3OO	1,627	451	M2	2,201,331
<i>Ops K3OO K3000</i>				
K3PP	405	259	SOA	314,685
K3VA	444	206	SOA	273,774
K3WW	2,453	493	SOA	3,627,987
K3ZV			SOL	46,035
KB3MM	356	189	SOA	201,853
KQ2M			SO	4,800,000
KU3X	520	181	SOA	282,360
N1RK			SOA	1,087,848
N2AB			SOA	240,900
N2BA			MM	2,648,661
<i>Ops N2BA K2BMI KA2FIQ</i>				
N2ED	704	306	SOA	646,272
N2LT			SO	2,246,475
N2MR	748	255	SOA	572,220
N2NT	3,940	553	M2	6,531,483
<i>Ops N2NT N2WKS W2GD</i>				
N2RM	3,433	534	MM	5,494,860
<i>Ops N2RM N2VV NA2AA W2DTA</i>				
N2VW			SOA	176,490
N3KR			SO	93,000
N3MX			SOA	52,104
N3OW			SOL	79,734
N3RJ			SO	406,122
N3RS	4,360	569	M2	7,423,743
<i>Ops N3RS KF3B KQ3F N3ED N3RD NA2U</i>				
N3RW	157	77	SOL	36,267
N3ZA	910	392	SOA	1,070,160
NE3F	1,584	435	MS	2,064,510
<i>Ops NE3F K3ATO KA3GWS KS3F NT3V NZ3G</i>				
NN3Q			SOA	997,512
NO2R	1,314	468	SOA	1,840,644

Station	QSOs	Cntrys	Class	Score
V26DX	6,296	282	M2	5,326,416
<i>Ops KD3TB N2EA N5CK W3CF WX0B</i>				
V47KP	6,569	322	SO	6,345,654
<i>Op W2OX</i>				
VP5A	8,165	344	MS	8,426,280
<i>Ops KQ3V WE3C</i>				
W1GD			SO	1,794,723
W2BHK			SOL	142,290
W2CG			MM	1,008,015
<i>Ops W2CG K2WJ</i>				
W2RD	442	100	SOA	132,600
W2RDS			SOL	469,890
W2UDT	431	177	SO	228,816
W2YC			MS	1,559,901
<i>Ops W2YC AA2WN</i>				
W2ZQ			SO	1,246,905
<i>Op K2QM</i>				
W3AP	824	314	SOA	776,208
W3BEN	226	137	SOL	92,886
W3BGN	2,203	443	SO	2,927,787
W3BYX			SO	257,000
W3EA	849	320	SOA	815,040
W3FV			SOA	1,730,661
W3FVT			SOA	400,575
W3GM	1,048	368	SOA	1,156,992
<i>Op K3ND</i>				
W3PP	3,481	542	MM	5,660,106
<i>Ops W3PP N3KW N3PT W3OR WB4FDT WK2W WM2H WV8RS</i>				
W3TT			SO	4,860
<i>Op N9GG</i>				
W3ZL	154	89	SOL	40,317
W8FJ			SOA	579,726
WA2VYA			SO	128,325
WP2Z	6,514	317	SOA	6,194,814
<i>Op N2TK</i>				
WT3P	753	278	SOA	628,002
WT3W	1,400	395	SOA	1,695,000

Total 113,155,896

Please contact **K3WW** with any corrections. Scores for awards program are based on this info.

If you qualified for the 1 Meg or TRI meg etc awards, please contact **K2QM** and let him know IMMEDIATELY.

2003 CQ 160m CW FRC Claimed Scores						2003 CQ 160m SSB FRC Claimed Scores					
Station	QSOs	W/VE	DX	Score	Class	Station	QSOs	W/VE	DX	Score	Class
W3AP	39			14,800	SOH	K3NM	612	58	26	130,536	SOH
W3FV	564	51	30	120,447		K2PS	144	28	4	10,592	SOH
W3BGN	1051	58	55	448,610	SOH	K2FL	101	27	0	6,102	PACK
W3FVT	168			11,439		K3OO	100	31	14	14,040	SOH
WE3C	920	54	47	304,616	SOH	K3OOO	108	29	3	8,096	SOH
W2GD	1314	55	71	683,802	MULTI	AA1K/M	16	8	0	264	SoMobile
<i>Ops K2TW, K8NZ, N2OO, W1GD, W2CG, W2GD, W2NO, W2RQ</i>						AA1K	236	44	23	48,307	MULTI
K3WW	1026	54	55	380,192	MULTI	W3BGN				229,000	SOH
K3NM	409	50	48	153,860	MULTI	WP2Z				10,296	SOH
AA3B	518	49	20	89,010	MULTI	<i>Op N2TK</i>					
AA1K	1272	56	60	547,046	SOH	WE3C	744	59	38	197,880	SOH
N2BA	737	55	33	176,528	SOH	K3WW	404	46	14	58,140	MULTI
N2ED	664	54	34	154,792	SOH	AA3B	82	24	0	4,296	MULTI
K2PS	269	44	5	30,429	SOH						
N2NC	393	46	20	70,026	SOL						

ASK "DR. COMPUTER"

By N3MX
(as told to K3YD)



Continued from page 2

4. Many of the new computers seem to only have USB or "Firewire" connectivity. Can I use one of these forms of communication to key (CW) a radio or to control operating frequency? How?

Most new computers do have at least one Serial port and a lot have two. However, as we all know that is not enough for Amateur operators. So your options are: USB to Serial Port adapters or PCI cards with additional serial ports. I have both and they both work great...I currently have 7 serial ports! Also, there is software available and some logging programs that allow you to continue to use LPT ports as well. The best thing about all this is now you no longer have to manually configure IRQ's or worry about running out of resources the operating system does it all for you! How does 10 or 20 serial ports sound to you?

Dr. Computer is more commonly known as Steve, N3MX. He has ten years of total experience in various areas of the computer field, mainly in hardware, Operating Systems, and Networking and holds various certifications from CompTIA and Microsoft. Steve currently works as an IT Analyst for Moravian College in Bethlehem PA. Amateur radio is his main pastime with DX chasing & Contesting as his focus. Steve has been a ham for 11 years and currently holds an extra class license. (e-mail: n3mx@arrl.net)

**2003 ARRL DX CW
FRC Claimed Scores**

Station	QSOs	Cntrys	Class	Score
6Y0T	4,462	306	SO	4,096,116
<i>Op K3TEJ</i>				
AA1K	3,458	437	SO	4,533,438
AA3B	2,833	461	SOA	3,918,039
AB2E	1,253	393	SOA	1,477,287
K2DM	1,121	305	SOQ	1,025,715
K2NJ	2,091	413	SOA	2,590,000
K2OWE			SOA	706,000
K2PS	1,706	345	SOL	1,765,710
K3CP			SOA	1,110,375
K3JJG	59	41	160	7,257
K3MD	1,851	396	SOA	2,191,860
K3ND	1,134	391	SOA	1,330,182
K3NL			SO	101,019
K3NM	3,210	499	MM	4,813,500
<i>Ops K3NM K3IPK</i>				
K3NZ	981	410	SOA	1,206,630
K3PH	1,289	312	SOL	1,206,504
K3VA	575	278	SO	473,712
K3WW	3,657	510	SOA	5,595,210
KD3TB			SO	93,744
KQ2M	4,139	464	SO	5,761,488
N1RK			SOA	458,658
N2CQ			SOA	706,257
N2LT			SO	3,954,648
N2MR			SO	805,386
N2NT	3,793	435	SO	4,949,865
N2RM	5,037	515	MM	7,782,165
<i>Ops N2RM N2NC N2VV W2RQ</i>				
N2VW			SOA	48,360
N3AD			MM	5,116,320
<i>Ops N3AD AB3AH K3ZV N3DXX</i>				
N3KR			SO	387,000
N3MX			SOA	367,983
N3RJ	814	244	SO	595,116
N3RS	5,809	556	M2	9,689,412
<i>Ops N3RS KF3B KQ3F N3ED N3RD W8FJ</i>				
N3ZA	745	393	SO	878,355
NA2U	1,690	421	SOA	2,134,470
NE3F	1,612	437	MS	2,105,466
<i>Ops NE3F W3ZL</i>				
NN3Q			SOA	288,798
NZ3O			SOA	19,392
PJ4G			MS	5,258,904
<i>Ops K2NG K2TW NO2R</i>				
V26G	4,242	335	SO	4,263,210
<i>Op N2ED</i>				

Station	QSOs	Cntrys	Class	Score
V47KP	3,620	302	SO	3,279,720
<i>Op W2OX</i>				
W1GD			SOA	1,379,601
W2GD	2,202	501	SOA	3,309,606
W2LE			SOA	488,250
W2RD	320	297	SOA	269,082
W2RDS	450	200	SOA	270,000
W2UDT	374	185	SO	207,570
W2UP	3,763	502	SOA	5,667,078
W2YC			MM	3,006,108
<i>Ops W2YC AA2WN WK2W</i>				
W3AP	1,820	331	SOA	1,807,260
W3BEN			SOL	141,810
W3BG			SOA	1,573,758
W3BGN	2,978	429	SO	3,831,399
W3BYX			SO	519,000
W3CF	685	330	SOA	675,180
W3FV			SOA	2,914,656
W3FVT			SO	238,068
W3GK	825	318	SOA	787,050
W3MF	204	141	SOA	86,292
W3PP			40	86,592
W3RJ			SO	69,471
W8FJ			SO	53,460
WA2UBK	918	357	MS	982,107
<i>Ops WA2UBK N2WKS</i>				
WA2VYA	1,383	333	SO	1,381,617
WA3RHW			SOA	37,050
WE3C	432	365	SOA	473,040
WP2Z			SO	3,034,560
<i>Op K2QM</i>				
WT3P			SOA	873,864
WT3W	1,129	372	SOA	1,259,964

Total 132,516,764

Please contact **K3WW** with any corrections. Scores for awards program are based on this info.

If you qualified for the 1 Meg or TRI meg etc awards, please contact **K2QM** and let him know IMMEDIATELY.



Another attempt to solve the CC&R problem

ARRL CEO David Sumner, K1ZZ notes that reintroduction in the US House of Representatives of the Amateur Radio Emergency Communications Consistency Act was expected to happen soon. The measure seeks a congressional solution to the problem of private deed covenants, conditions and restrictions--so-called CC&Rs--that can impede or prevent installation of outdoor amateur antennas.

ARRL surveying interest in high-speed digital networks

The ARRL High Speed Multimedia (HSMM) Working Group is surveying the amateur community to gauge interest in IEEE 802.11b "Hinternet" activity. The HSMM Working Group encourages spread-spectrum communication modes including such protocols as IEEE 802.11b operating on Amateur Radio frequencies under FCC Part 97 rules. It's adopted Hinternet (a contraction of "ham" and "Internet") as a way to describe the technology. The HSMM Working Group's survey is on the ARRL Web site <<http://www.arrl.org/hsmm>>. "The primary goal of the survey is to encourage amateurs to get on the air and start playing with this cheap digital microwave gear," says HSMM Working Group Chair John Champa, K8OCL <k8ocl@arrl.net>. Hinternet Radio Local Area Networks (RLANs) typically use direct-sequence spread spectrum between 2412 and 2437 MHz and are capable of simultaneously carrying audio, video and data signals. Hinternet aficionados adapt commercial 802.11b interfaces designed for Part 15 operation to amateur use. The HSMM Web survey is brief and permits an opportunity for open-ended input. It asks if respondents have a IEEE 802.11 or "other high-speed digital station" running under Part 97. If so, amateurs are asked to register their stations. It also asks respondents to explain how they might use a high-speed digital system or network if they were to set one up.

Champa urged Hinternet-minded amateurs to also report what they've learned and any new applications to the ARRL IEEE 802.11b reflector operated by Texas A&M University <<http://listserv.tamu.edu/archives/arrl-80211b.html>> (and linked from the "HSMM Resources" menu under "Contacts"). Asked if the Hinternet is catching on within Amateur Radio, Champa simply points to the more than 15,000 hits to the HSMM Working Group's Web site. The Hinternet also is the focus of the article "High Speed Multimedia Radio" by Kris Mraz, N5KM, in the April 2003 issue of QST. Hinternet proponent Mark Williams, AB8LN, of Milford, Michigan, says he envisions growth of amateur 802.11b operation to cover all large metropolitan areas in the US, not just the few miles some contend is the outer limit for such point-to-point connections. "This is just too easy," he says. "With some of the Amateur Radio pioneering that we are famous for, we should be able to push this technology to its limits--50, 75 and 100-mile links at 2.4 GHz." He said wireless networks dedicated to Amateur Radio stretching across states and linking hams everywhere with high-speed voice and video are possible. "File-sharing and e-mail, network gaming and pop-up chat are just the tip of a titanic iceberg," he predicted. Applications abound for public service work too. Amateurs recently involved in the Texas search for debris from the shuttle Columbia used a 802.11b high-speed system on ham radio to link the net control station in Nacagdoches with the Internet. More information is available on the ARRL High Speed Digital Networks and Multimedia Web page <<http://www.arrl.org/hsmm/>>.

Status of New Jersey ham antenna bill

New Jersey's two ARRL section managers are urging League members to write lawmakers to move the Garden State's pending Amateur Radio antenna bill, A 3065, out of committee. "Now is the time for all New Jersey hams to write a letter asking for the bill to be voted on in committee," said ARRL Northern New Jersey SM Bill Hudzik, W2UDT. The bill, introduced last December by Assemblyman Matt Ahearn, KB2PNN, (D-Fair Lawn), would codify the limited federal preemption known as PRB-1 into New Jersey's statutes. It also would preclude regulation via any ordinance or regulation that effectively prohibits an antenna support structure of 70 feet or less above ground level--exclusive of any antenna upon the structure. A copy of the bill is available on the New Jersey Legislature Web site <http://www.njleg.state.nj.us/2002/bills/a3500/3065_i1.htm>. Hudzik and Priestley urge letters to Deputy Assembly Speaker Jerry Green <<http://www.njleg.state.nj.us/members/green.asp>>, who chairs the Housing and Local Government Committee, and General Assembly Speaker Albio Sires <<http://www.njleg.state.nj.us/members/sires.asp>>. More information and a sample letter are available on the ARRL Hudson Division Web site <<http://www.hudson.arrl.org>>.



ARRL Sweepstakes results now available

The report and complete scores for the 2002 running of ARRL November Sweepstakes (CW) now is available to League members on the ARRL Web site <<http://www.arrl.org/members-only/contests/results/2002/SS-CW/>>. This includes a summary with photos, written by Randy Thompson, K5ZD, who notes that the 2002 CW event attracted 1319 official entries. The top-scoring operator worked 1468 of the 2584 call signs determined to have been active during the contest. Complete, searchable, indexable line scores also are available as well as Soapbox comments and photos posted after the event. The next running of the November Sweepstakes (CW) will be the weekend of November 1-2, 2003.

Dayton Contest Dinner tickets now on sale

Dayton Contest Dinner tickets now on sale: The North Coast Contesters have announced that tickets for the 11th annual Dayton Contest Dinner now are on sale. The dinner will be held Saturday, May 17, 6:30 PM, at the Crowne Plaza Hotel in downtown Dayton. Seating is limited, random and not reserved. All dinner ticket orders are handled exclusively by Craig Clark, K1QX, Radioware and Radio Bookstore, PO Box 209, Rindge, NH 03461 <<http://www.radio-ware.com>>. Order tickets weekdays by calling toll-free 800-457-7373 or via e-mail <jeclark@prexar.com>. Major credit cards are accepted.

Letter requesting FRC donations to contesting web sites

Editor's note: The following letter was received by Doug, W3CF and is reprinted in its entirety. Members are urged to read the letter and provide their comments to FRC club officers.

Hi Doug--

I'm not sure if you've been keeping up with some of the latest e-mail news, but you may recall recently that there was a plea for financial help from Bill Fisher, W4AN, regarding the funding of his various contest Web sites.

I'm writing on my own (Fisher didn't put me up to it, hi) to suggest that FRC consider contributing to the cause. As a point of reference, YCCC will be kicking in \$500 and I've been told by West Coast sources that the NCDXF just did the same thing.

The combination of contesting.com and eham.com provide a huge service to the contest community. Frankly, Bill has been carrying much of the bandwidth costs associated with those sites and it's proper and fair for him to ask for help.

So, I apologize in advance if I'm out of line in bringing this to your attention, but I believe it would be a nice gesture on the part of all of the major contest clubs, including FRC, to step up and help.

Thanks for reading. I'd be curious to hear what you think.

73 John, K1AR

PS: BTW, thanks to FRC for the support you guys provide to the CQ WW trophy program.

FRC QSL ORDER BLANK

Please print _____ FRC style QSL Cards using the printing information shown on the reverse side of this sheet and I have included \$ _____ payment. Indicate below the style card you desire. In lieu of furnishing new information when having an exact or slightly changed version of a previous card done, you can simply attach an old card with any changes and we will use that for printing information.

The price per 1000 is as follows:

1000 single side (blank backside) = \$59.95

1000 two side (Standard back report) = \$75.95

For quantities of 5000 thru 9000, you may deduct 5% from the total cost.
For quantities of 10,000 or more, you may deduct 10% from the total cost.

We do accept Master Card, Visa, Discover and American Express Cards if you prefer.

_____ expires _____

Signature _____ Phone # _____

Send your order to: QSLs by W4MPY, P.O. Box 73, Monetta, SC 29105
Allow 2-3 weeks "in house" for printing.....we ship Priority Mail, so the shipping time is minimal.

Special instructions:

FRC QSL PRINTING INSTRUCTIONS

The diagram illustrates the layout of a QSL card. It is divided into two main sections: the front and the back. The front side is a rectangle containing a central area with a jagged border. Inside this area, the text "MEMBER FRANKFORD RADIO CLUB" is centered. Below this, there are two rectangular boxes: one on the left labeled "NAME/ADDRESS" and one on the right labeled "CALLSIGN". A small black box with white text "NOT to scale for east of filling out printing info" is positioned to the left of the "NAME/ADDRESS" box. The back side is a large empty rectangular area below the front side. The word "FRONT" is written vertically on the right side of the front section, and "BACKSIDE" is written vertically on the right side of the back section.

N2SS
FRC DX NEWS
 Editor

APRIL 19TH YEAR 2007

Notes From Your Editor

Hard to believe it but yet another year has passed. This edition of the **FRC DX NEWS** marks the beginning of my 19th year as your DX editor. Surely, I must qualify for a pension next year!?

FRC DX NEWS
19th
ANNIVERSARY
EDITION

SUNSPOT CYCLE

A sunspot cycle milestone occurred during the month of March. For the first time in 5 years we have seen the average daily Solar Flux drop into double digits.

We haven't taken a look at the progress of the current cycle for some time. So, at the end of the newsletter I have published some charts that give you the current snapshot of this cycle's progress as it slowly declines towards a cycle low that is still several years away. Figure 1 shows the progress of the current cycle and includes the previous two cycles. Figure 2 is an overlay chart comparing the current cycle's progress with that of the previous one at the same point in time.

CURRENT OFFICIAL ARRL DXCC STATISTICS

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

3X – GUINEA

UT1WL, who will be working in Conakry until the end of the year has been licensed as **3XY1L**. Look for him on weekends and weekdays after 1800 UTC with a battery powered rig on 40, 20 and 15 Meters. He also plans operations from both the IOTA groups allocated to Guinea, i.e the Loos Islands (AF-051) and the unnumbered Tristao Islands. QSL via the bureau or direct via UY5XE at:
 George Chlijanc
 P.O. Box 19
 79000 Lviv UKRAINE

6W – SENEGAL

Look for John, F5VHQ, active on 40 through 10 Meters SSB only as **6W/F5VHQ** from Saint Louis, Senegal from 19 April to 1 May. QSL to John's home address.

8Q – MALDIVES

From April 5th to 7th E2ØHHK, E2ØNTS, E2ØRRW, E21LSE, HSØGBI, HSØNNU, HS1CKC, HS6MYW, HS6TIM and HS9IFG will be active as **HSØGBI/P** on CW and **HS1CKC/P** on SSB from a very rare IOTA, AS-125.

A3 – TONGA

Now through April 14th Janusz, SP9FIH, will be active on 80 through 10 Meter SSB. Call not known at this writing. QSL via SP9FIH at:
 Janusz Wegrzyn
 P.O. Box 480
 44-100 Gliwice POLAND

C5 – GAMBIA

Now through April 7th look for a group of operators from Lithuania and Russia signing as **C5P** and, individually as **C53CW** (YL3CW), **C53KL** (YL2KL), **C53ZF** (YL1ZF), **C56HF** (RZ4HF), **C56HTX** (RZ4HTX) and **C56TA**

(LY2TA) active on all HF bands CW, SSB and RTTY. YL2KL will the C5P QSLing chores, others should go to their home calls.



For tracking purposes the top IOTA numbers currently are as follows (Note there are 3 additions below since last month: Africa 1 and North America 2.)

- Africa..... AF-093
- AntarcticaAN-018
- Asia..... AS-166
- Europe EU-188
- North AmericaNA-224
- Oceania..... OC-257
- South America..... SA-093
- Total IOTA's 1039

Information

- ***AF-093** J5UCW was on from Pecixe Is to activate this new one.
- ***NA-223** HQ6V was on from Cayos Vivorillos to activate this group for the first time.
- ***NA-224** XF2IH activated Enmedio Island adding it to the IOTA list.

"S"pecial "S"alute

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

73, Tony N2SS

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argargano@comcast.net

N2SS SOLAR FLUX CHARTS

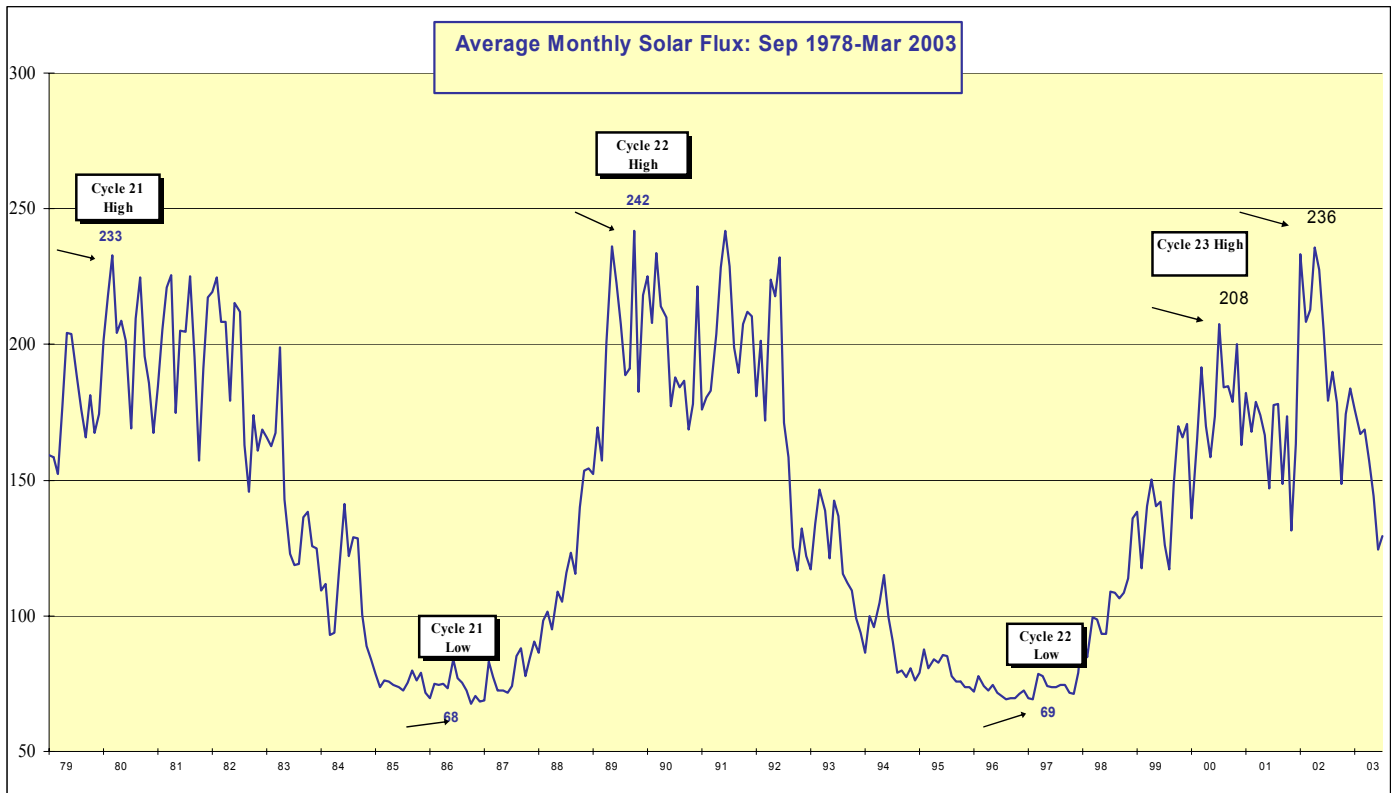


FIGURE 1

Above you can see the progress of the current cycle and its relationship with the two previous cycles.

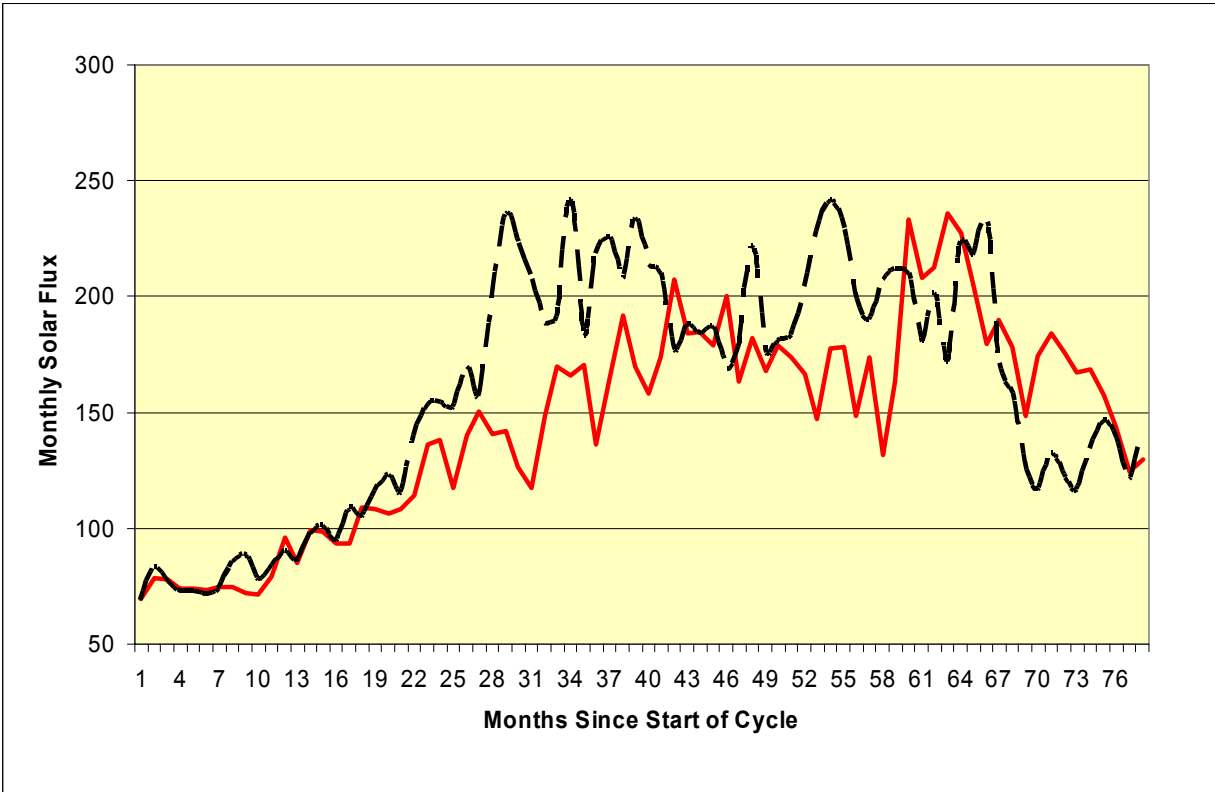
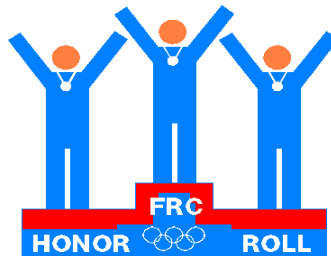


FIGURE 2

Beginning with the start of both the current cycle (red) and previous cycle (dashed black), you can compare progress and thus band conditions.



APRIL **CONDUCTED by N2SS** **2003**

WARC BANDS

<u>30 Meters</u>	<u>17 Meters</u>	<u>12 Meters</u>
K2FL.. 327	K2FL...333	K2FL...324
N2TK324	N2TK 331	N2TK ..324
N2LT309	N2LT 329	N2LT 316
W3BGN ...296	K2JLA 328	W3BGN ... 305
K2RW290	W3CF 323	K2RW 296
W8FJ284	K2RW 320	N2SS 293
K2PS275	W3BGN ... 319	K2JLA 284
W2YC273	N2SS 314	K2PS 265
N2SS265	K2PS 294	W3SOH ... 265
WA2VYA ..263	WA2VYA ..288	WA2VYA .. 261
K2JLA237	W2YC 286	W2YC 258
W3SOH ...223	W8FJ 286	WT3W 258
K3II222	W3SOH ...266	KS3F 232
W2LE205	WT3W 264	W8FJ 222
KS3F178	N1RK 244	N1RK 217
K2BU175	W3OV 234	KQ3F 199
AA2WN...164	K3II 233	K3II 195
WT3W162	KQ3F 232	W3CF 192
W3OV150	KS3F 215	W2YR 181
KQ3F141	W2LE 196	K2NJ 162
W2YR124	W2YR 194	W2LE 161
K2JF111	K2JF 168	W3OV 160
AB2E104	NA2U 155	NA2U 138
NA2U103	K2NJ 145	K2JF 135
K2NJ97	K3ND 110	WT3P 127
K3PP68	WT3P 106	AB2E 72
N2VW67	AA2WN ... 102	K3PP 53
N1RK39	K3GYS 83	K3GYS 30
K2WJ28	AB2E 80	N2VW 25
W3CF27	N2VW 63	AA2WN 19
N2MT15	K3PP 60	K2WJ 17
K3GYS8	K2WJ 40	N2MT 6
KB3FEE.....1	N2MT 26	KB3FEE 3

Still looking for that undisputed
KING OF WARC

6 METER DXCC		
N2LT	102	K3OO 52
K2NJ	95	N2SS 50
K2JF	94	W2YR 41
AA1K	93	K3PP 30
K2PS	81	WT3P 39
WA2VYA	75	K2RW 36
WT3W	65	W2YC 9
N1RK	57	

160 Meters

W3BGN	289	WT3W	127
AA1K	282	K2PS	102
K2BU	260	K2RW	92
WT3Q	250	W2YR	80
N2LT	239	N2VW	74
N2TK	238	N2SS	73
K3NW	228	NA2U	73
K3SX	210	W3CF	69
W8FJ	192	K3NL	62
K3JG	175	K2NJ	59
K3NZ	170	K3PP	59
NO2R	170	KQ3F	41
W3OV	163	N1RK	40
N3RS	156	KB3FEE	38
W2YC	150	K2JLA	35
K3II	149	W2LE	27
K3NM	146	AA2WN	25
WA2VYA	144	K2JF	20
K2FL	139	N2MT	14
K3ND	133	K3GYS	12
KS3F	129	W3SOH	12
		K2WJ	3

W3BGN continues as the undisputed
Top of Top Band

Digital

W2UP	333	W3CF	100
N2LT	326	W2LE	81
K2PS	275	K2JF	57
W3SB	245	WA2VYA	50
K2RW	231	N2SS	46
K2NJ	221	N1RK	42
W2YC	197	N2MR	28
AA2WN	162	KQ3F	23
WT3W	155	K3GYS	15
WT3P	133	K2WJ	12
K3PP	123	W8FJ	12
W2YR	122	N2VW	7



MOBILE DX

W2YC	274	K3GYS	143
AA1K	255	AA2WN	131
N2SS	234	WT3Q	107
N2MR	191	KB3FEE	48
K2JF	150	K3PP	46
		W2YR	21



1.5K Club

K2FL	1704	N3RD	1425
W3BGN	1691	WT3W	1395
N2TK	1684	K2NJ	1383
N2LT	1658	W3SOH	1378
W2UP	1644	K2JF	1350
K2RW	1591	AA2WN	1295
W8FJ	1577	NA2U	1295
N3RS	1564	N1RK	1276
K2BU	1550	N2VW	1240
K2PS	1509	WT3Q	1162
N2SS	1504	K2WJ	1161
W2YC	1494	W2YR	1125
K3ND	1488	W2LE	1115
NO2R	1480	K3PP	1110
WA2VYA	1429	K3NM	1107
K2JLA	1428	W3CF	1077
KQ3F	1412	WT3P	1009
KS3F	1407	N2MT	719
		KB3FEE	231



Islands On The Air

K2FL	945	KS3F	319
K2JLA	854	N2VW	250
W3SOH	762	W2YR	226
N2SS	740	K2WJ	223
W8FJ	530	WT3W	218
W2YC	520	W3CF	200
N1RK	499	K3GYS	162
		KB3FEE	23

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.



THE FRANKFORD RADIO CLUB NEWSLETTER

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



Affiliated Club

In This Issue

- NEW FRC OFFICERS
- ARRL DX TEST SCORES
- CQ 160M TEST SCORES
- MEETING INFO
- NEWS FROM THE ARRL
- AND MORE!

**Deadline for May issue:
Sunday, April 27**

The Frankford Radio Club

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 Email: kq3f@comcast.net
 Printing, **K3ZV**, John Lindmeier215-632-2919

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 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