



# DX NEWS

*the magazine of the  
National Radio Club*

— SINCE 1933 —

Volume 45, Number 28 Monday, July 17, 1978

## CPC TESTS

- Tuesday, July 18  
0000-0100 approx. WMMW-1470 Meriden, Conn. 1000w ND. Test is a frequency check with tones, open carrier, ID at beginning and possible jingles. Reports to George Dombrosky, WMMW, 1 Church Street, Meriden, Conn. 06450.
- Wednesday Jul.19  
0000-0100 approx. WINF-1230 Manchester, Conn. 1000w. Test is a frequency check with tones. IDs at beginning and end of test. Reports to George Dombrosky, WINF, Box 1230, Manchester, Conn. 06040.
- Monday, July 24  
0000-???? WANM-1070 Tallahassee, Fla. 10kw ND. Proof of performance with tones, music, frequent IDs. Prepaid calls to 904-222-1070. Reports to Homer Haines, WANM, P.O. Box 10174, Tallahassee, Fla. 32302.
- Monday, July 24  
0010-0100 WLKW-990 Providence, R.I. 50kw directional N to NE. Test is check of modulation capabilities and noise levels of transmitter & audio chain. Frequent IDs. Prepaid calls after the test at 401-468-5710 between 0100 and 0130. Send reports to Paul Temple, WLKW, 1185 N. Main St. Providence, R.I. 02904.
- Friday, July 28  
0000-0100 approx. WWCO-1240 Waterbury, Conn. 1000w. Test is a frequency check with many IDs. Will have test tone, possible music. Prepaid calls to 203-757-5711. Reports to George Dombrosky, WWCO, Box 2777, Waterbury, Conn. 06720.
- Friday, Aug. 4  
0000-0100 approx. WOWW-1380 Naugatuck, Conn. 5000w ND. Test is frequency check with tones. IDs at beginning and end of test. Send reports to George Dombrosky, WOWW, Wallace Lane, Naugatuck, Conn. 06770.

ALL of the above are from John Kromka of Montville, N.J. Keep up the good work!

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# STATIC FROM HQ

Time for another of the 'heavy' summer issues. Your staff this time is Dave Peters, Bob Walker, Gary Atkins and your typist, Pat Hartlage. Dick Truan is off to Florida checking out static levels and Ted is just off...seriously he is taking classes for the next two months to get his First Class FCC License.

A question or two has come in on how the postal increase will affect our dues structure. For now we plan no change in the present \$15 membership charge for domestic members. It is possible that we may have to make a small adjustment of foreign dues, but we will take no action on this until we get input from the membership at the Atlanta Convention.

We are very pleased by the support DX News has gotten over the "off season". The GY Maps from Bill Hale of Rantoul, Ill. are a set; we will run the other four in later issues. We already have an ITU list for the Philippines for next issue, too. Also next time will see the premier of the Question and Answers Column, edited by John Clements, 9010 Tobias Street, Suite 258, Panorama City, Calif. 91402.

LPC would like to extend it's thanks to two column editors--Bob Walker and Bruce Winkelman--who are stepping down. Both have done a fine job. This will be Bob's last Contests and DDXA columns and Bruce will continue until September. We encourage members who are interested in taking the columns, or for that part, anyone who wishes to be a "backup" for future vacancies, to contact us ASAP.

We had another printer's goof last time. The two pictures which ran last time were to be run full size, but they didn't read our instructions and reduced them by 60%. Sorry. Also, you'll note Chuck Hutton's address is now P.O. Box 2087, Decatur, Ga. 30030. This works out better than the street address for late items. We changed it several issues ago but when we made up the new headers inadvertently changed it back.

The Club is doing well financially. We'll have a full report for the Convention. We will be a little tight on funds when we pay for the log printing but this will be a very short term situation. For now you can help by continuing to send orders for the Log to NRC Publications Center and by keeping Frank, Ken and Karl busy with other publications and reprint orders.

We've come up with a schedule to give editors and contributors a chance to plan their efforts.

#29 August 14	#3 November 6	#8 December 11
#30 September 4	#4 November 13	#9 December 18
#31 September 25	#5 November 20	#10 December 28**
#1 October 9	#6 November 27	#11 January 8
#2 October 23	#7 December 4	

All the above are Mondays, except December 28, which is a Thursday. Deadline in Louisville is 10 days prior to date of the issue. Subject to change.

## THEY JOINED

A big welcome to our new members! Keep Ernie Cooper busy by sending a to introduce yourself soon.

Arthur S. Amorin, 1975-A Kalawi Drive, Wailuka, Maui, Hawaii 96793  
Robert W. Dally, Jr., 6225 Diana Drive, Poland, Ohio 44514  
Richard Kenneally, 8132 Ashgrove Drive, Cincinnati, Ohio 45244  
A. Semel, 133 Cortelyou Avenue, Staten Island, N.Y. 10312  
Brian P. Sherwood, 221 Larch Avenue, Elmhurst, Ill. 60126  
John J. Kosinski, Jr., 18 Case Road, Stamford, Conn. 06905  
Lawrence A. Wettach, P.O. Box 312, Fair Lawn, N.J. 07410

We also say a big welcome back to the members below who are renewing. Thanks ladies and gentlemen...let's hear from you in a muse soon also.

Sharon and Richard Waterman, Bob Pietsch, Paul Kalisz, Ross Hansch, Jerry Robertson, Doug Beard, William E. Scarsbrook, III, Warren Greenburg, Eugene Vonderembse, Robert Steadman, William Higgs, Reno E. Kirschmer, Peter Hunn, Tony Bratton, Terry Skeats, Tom Sundstrom, Joe Jones, A. Bedoya, George Mulfinger, Jr., Lawrence S. Harvey, Lynn E. Burke, Richard C. Evans, Chris Lucas, Ed Christian, Howard F. Schafer, Charles Loy, Jerry Morris, Robert W. McCoy, Kenneth G. Brown, Harold Cox, Robert N. Hoffman, K.G. Scrimgeour, Stan Morss, Adolph Rattay, John Smith, Bill Grant, Nick Hall-Patch, James S. Hill, Dan Myers, David Dunn, Charles Reh, Malcolm Kaufman, Don Davis, Dale Biermann, Christian P. Hansen, Steve Johnson, Richard Frcho, Richard Clark, John Boyle, Jack F. Staff, Gene Mottern, Dennis Pimper, W.A. Jeffrey, Harry W. Jones, Don Erickson (for 4 years), Madalyn Boley, Pete Skinner and René Viel.

# AM SWITCH

BRUCE WINKELMAN  
3324 BATTERING PLATE  
GREENSBORO, N.C. 27410

Happy summer!! First item of business comes from Richard Evans in Havertown, PA. He advises me that there really is a Yellville, Arkansas--26 miles east of Harrison, Ark. I guess the FCC knows what it's doing after all, hi. This column includes all material received by May 26. On to the information at hand...

### NEW STATION APPLICATIONS:

550 NC Aberdeen D3 1000/	1190 TN Ashland D1 250/	1550 GA Vienna D1 1000/
680 MI Marshall U4 250/250	1190 TN Springfield D1 250/	1550 TN Clarksville U4 250/
1090 WI Bloomer D1 1000/		250

### CONSTRUCTION PERMITS GRANTED (NEW STATIONS)

1060 TN Newport D1 1000/	1270 SC Surfside Beach-	1340 AL Selma U2 1000/250
1130 KY Murray D1 250/	Garden City D3 5000/	

### CONSTRUCTION PERMITS GRANTED:

710 WWSM-WI CP: U2 10000/5000	1510 KYKR-TX CP: D3 5000/
1190 WGKA-GA CP: D1 5000/CH:2500	1550 WRHC-FL CP: U4 10000/250
1470 WBFC-KY CP: D1 1000/	1580 WPMP-MS CP: D3 5000/

### CONSTRUCTION PERMIT APPLICATIONS:

920 WBOX-LA CP: U2 1000/1000	1210 WHOY-PR CP: D3 5000/	1550 KQWB-ND CP:D1 10000/
980 KFJW-AZ CP: D1 1000/	1280 WIPC-FL CP: U2 1000/500	1550 K1IX-CO CP: D3 5000/
1090 KAAT-CO CP: U4 50000/1000	1300 WPNH-NH CP: D1 5000/	1570 KXES-CA CP: D3 5000/
	LOC: Aurora CO	1510 KAGC-TX CP: D1 500/
1170 WAMB-TN CP: D3 25000/CH:1000	1540 WJGA-GA CP: D1 2500/	1600 KBBX-UT CP: D1 5000/

### CALL LETTER APPLICATIONS:

550 WDBM-NC seeks WRSI	1140 KLUC-NV seeks KMJJ	1490 WVEC-VA seeks WWDE
790 WYNR-GA seeks WPIQ	1430 WPCF-FL seeks WWWQ	1550 WOKI-TN seeks WOR1

### CALL LETTER GRANTS:

790 WNWS-FL ex WFUN	1220 KLIT-CA ex-KKAR	1410 WTNR-TN Kingston CP
970 WKLS-GA ex-WIIN	1250 KNCO CA Grass Valley CP	1460 WWVG-NY ex-WVXC
1010 XKEG-AZ ex-KHCS	1310 KAAM-TX ex WRR	1510 KNSE-CA ex-KSOM
1060 KKKQ-AZ ex-KUPD	1350 WCWR-FL ex-WEZY	

### APPLICATIONS AMENDED:

1090 KKYN-TX now U42500/500	1130 KBMR-ND now U4 500/10000	1560 WYZD-NC now D1 1000/
	(That's what the FCC info sez!!)	CH:500

### OTHER-NESS FROM BILL HARDY ABERDEEN WA:

1230 KHSN-OR format now T40, 24h:SPU  
1280 KIT-WA now AN MMs, maybe NSP  
1390 KSLM-OR now 24h AN-6, SP:MM, format now pop  
1480 KQLA-WA RS to begin ard end of May,format MOR, psa of 500 watts, daily s/on 0900 pattern beams ESE, no network affiliation. Information from CE of station.

And so as the sun sinks gently into the west an other AM Switch bites the dust. I'd like to thank those individuals who made this column possible: Richard Evans, Bill Hardy and John D. Bowker. The summer doldrums have already hit from the sparse number of reports this time around.. Next deadline will be July21. REPORT.....

73  
*Bruce*

# DOMESTIC DX DIGEST

RAY ARRUDA  
47 BURT STREET  
ACUSHNET, MASS. 02743  
(617) 998-3958

We have a short section this week with some quality DX, so here goes.  
Next deadline: July 29.

One r/c from KHAD-1590 KH was heard on the 2nd Thu. w/TT by KDF & PD

## SPECIAL

1520 WIDG NJ OCEAN CITY - Using new call, KI-WELF. (DS)  
1580 WYFA NY PATONOGUE - Noted on BS days as of 6/27. (PD)  
1608 WLOI WI LACROSSE - 6/14 0224 fair w/Rock, assume //1490,  
first time heard here since early last year. (KDF)  
1630 WFAI WI BROOKLYN - 6/8 bombing in 0110 announcing 1620 kHz.  
but definitely on 1630. (NK)



DS would like to know if anyone can confirm the fact that the WASR-1420  
4th Wed. f/c is still active? For the last two months, 1 kHz TT has  
been noted for one minute, looping in the correct direction.

## MIDDAY TO MIDNIGHT

550 WHLM PA BLOOMSBURG - 6/5 1158 poor w/talk u/WBVA. (WPT)  
730 ---- - Call sounded like WWHO? Ment. of 73  
degrees in the valley. S/off 6/11 at 2045, any ideas? (NK)  
820 WOSU OH COLUMBUS - 6/1 2130 s/off w/programs to continue on  
89.7 FM, xint for 1000 watts. (WPT)  
830 WNYO NY NEW YORK - 6/1 2133 wx followed by talk by TL, xint. (WPT)  
850 WHEU PA READING - 6/1 1152 spots for Community General Hospital  
and Toyota, fair u/WATE slop. (WPT)  
900 OKTS PQ SHEEROCKE - 6/1 2138 fair w/talk show, SID. (WPT)  
950 WFTY NO GREENSBORO - 6/5 2043 SID/C&W mx, then s/off, good w/  
pest WHEN QSB'd down. (WPT)  
970 WAMD MD ABERSDENE - 6/17 2200 wx, jr ID, 740 mx fair u/WWSN. (WPT)  
1050 WADO WV PARKERSBURG - 6/1 2033 jr ID after local WQAI s/off,  
fair. (WPT)  
WMSG MD OAKLAND - 6/14 2046 fair w/s/off & mentions of 500 watt  
power. (WPT)  
1070 WNCI NC GREENVILLE - 6/6 2000 end of Gospel pgm, super sig. (WPT)  
1090 WRBZ NC SELMA - 6/5 2030 fair w/s/off & mention of ID site at  
Rtes 301 & 78. (WPT)  
1110 WJSM PA MARTINSBURG - 6/6 2045 good in null of WBT w/s/off. (WPT)  
1120 WWOL NY BUFFALO - 6/6 2034 fair/poor w/C&W mx after Master  
Charge spot. (WPT)  
1130 WQAR MI DETROIT - 6/1 2114 fair u/WHEW w/spot for Drive-In  
Church. (WPT)  
WWHO PA WAYNESBORO - 6/18 2042 fair-good w/pest WHEN QSB'd down  
w/spot for channel 25 TV pgms. (WPT)  
1150 WABE VA CHURCHVILLE - 6/5 2039 fair w/SID, talk. (WPT)  
1180 WHEM NY ROCHESTER - 6/5 1212 good w/local mx u/WASH slop. (WPT)  
VOA FL MARATHON - 6/26 2142 mx & ID in SS a/very weak WHEM/LA. (NK)  
1190 WLIB NY NEW YORK - 6/14 2034 good w/SID & Sears spot. (WPT)  
1220 WWHO NO WHITEVILLE - 5/23 2015 fair w/s/off minutes after local  
WFAI s/off. (WPT)  
1240 WBNJ NJ BRIDGEFORD - 6/6 2100 surfaced atop GY pile w/ID. (WPT)  
1310 WBPB PA BEDFORD - 6/18 2046 fair w/s/off, lucky to catch key  
word Bedford and maybe WHEM QRM. (WPT)  
1330 WOLD VA MARION - 6/4 2030 fair-good w/area wx rpts. and C&W. (WPT)  
1340 WCVI PA CONNELLSVILLE - 6/3 2100 good w/SID, Pirates-Reds SB. (WPT)  
WHEP VA HOPWELL - 6/5 1930 spots, ID, good w/pest WHEW QSB'd,  
(WPT)

**KFEL** MUTUAL  
950-

**WRAW**

**WSPR**  
TEL. 8-8101

63 CHESTNUT STREET • SPRINGFIELD • MASS.  
1000 WATTS • 1210 KC • REGIONAL CHANNEL

1360 WPPA PA POTTSVILLE - 6/6 2133 fair-good w/Phillies-Giants BS  
game. (WPT)  
1410 WRAG MD HALFWAY - 6/1 1209 fair u/WHEM slop & WDOV w/oldies,  
SID. (WPT)  
1480 WLEA NY HORNELL - 5/23 2021 fair w/SID mentions of NY, such  
QRM. (WPT)  
1520 WVOB MD BEL AIR - 6/3 2000 good o/u WKBW w/mx. (WPT)  
WQHE PA WEST CHESTER - fair w/s/off 6/26 2030 w/no sign of  
WHEW. (NK)  
1530 WCTR MD CHESTERTOWN - 6/11 2045 fair at s/off. (NK)  
WJDM NJ ELIZABETH - 6/26 2030 good w/s/off. (NK) (WPT)  
1540 CHLN ON TORONTO - 5/23 2030 talk in FF, SID, s/off w/NA, fair.  
1550 WBER MD ELKTON - 6/15 2042 fair at s/off w/WIVA. (NK)  
WTTQ PA TOWANDA - 6/19 2045 fair at s/off, heavy QRM. (NK)  
WBSO SO BENNETTSVILLE - 6/26 2112 fair-good w/ID & spot for  
Carolina Ford, no trace of QRM. (NK)  
UNID --- - S/off noted at 2043, no IDs. (NK)  
1570 WPGM PA DANVILLE - fair w/ID at 2035. (NK) Date Bell?  
WTLK NO TAYLORVILLE - 5/16 2028-2030 s/off noted following  
WGTW, SSB then ID at end. (DS)  
1580 WLLI TN SHELBYVILLE - 6/1 2101 fair w/s/off. (WPT)

## MIDNIGHT IN MOSCOW WITH MY 3 TRANSISTOR

550 CHLN PQ THREE RIVERS - AN 6/12, the FFO u/CPNB fair w/WGNG  
off in rare SP. (NK)  
680 WERO OH CINCINNATI - 6/12 0455 fair w/ID, WGNG still off. (NK)  
800 WNYR NY ROCHESTER - 5/19 0022-0035 TT mostly atop, ID at 0030. (DS)  
810 WSVB VA CREWE - 6/2 0600 s/on w/C&W, xint. (WPT)  
860 WJTB PA PITTSBURGH - 6/12 0355 KE/ID/jazz mx. (NK)  
930 WPKD MD FREDERICK - 5/28 0535-0550 way atop w/modern C&W, little  
talk. Evidently AN now. (DS)  
980 WAOB MI OTSEGO - 6/18 0600 very poor u/WOHE w/s/on. (KDF)  
1080 WQAP MI OWASSO - 6/15 0602 fair-good w/s/on. (KDF)  
1110 WUEN MI NASHON - 6/11 0601 good o/EPAB w/s/on & rel. pgm. (KDF)  
1140 CJTR PQ THREE RIVERS - Has been making its best appearances ever  
for the last two SAs in the WVA SP. Signal good w/MOR  
mx, FF DJ, IDs. (KA)  
1220 WSKE MS SANFORD - 6/12 0550 good w/local spots, mx w/WBIS s/on  
at 0600. (NK)  
UNID --- - 6/12 s/on weak w/SSB at 0547. (NK) (WPT)  
1240 WSSV VA PETERSBURG - 6/7 0001 SID, mx surfaced fair atop GY pile.  
1270 WSPR MA SPRINGFIELD - 5/22 0115 very loud on BT w/rr oldies,  
let's of IDs. (DS)  
1290 WHIL MI MILES - 6/11 0600 poor through WHIO/WIRL/WWHO w/s/on. (KDF)  
1320 WVEN AR PORT SMITH - 6/13 0558 strong w/TT/ID on BT. (KDF)  
1340 WALL NY MIDDLETOWN - 6/12 0547 good w/s/on & SSB. (NK)  
1380 KMUS OK MUSKOGEE - 6/10 0600 fair w/SSB & s/on. (KDF)  
1400 WWSB NC GREENSBORO - 5/17 0031 briefly noted w/"14 GBS" ID,  
then rr. (DS)  
WFBO PA HARRISBURG - 5/29 0030 noted w/loud TT & ID, normally  
NSP. (DS)  
WSEY NC WELDON - 5/29 0001 good at s/off, licensed to Weldon,  
but has offices in Roanoke Rapids. (KA)  
WWIN MD BALTIMORE - 5/29 in and holding down channel after  
WSEY demise 0005-0034 w/jazz & R&B, IDing as "1400 AM,  
WIN." (KA)  
1420 WKPR MI KALAMAZOO - 6/13 0601 1/2 fair w/SSB & s/on. (KDF)  
WROG GA COLUMBUS - 5/9 0008 noted w/quick ID then into CBS  
Misery Theatre. (DS)  
1430 WVAM PA ALTOONA - 5/29 noted u/o CKPH w/rr @ 0130, noted last  
couple of MM's so maybe NSP now. (DS)  
1450 WKIP NY Poughkeepsie - 6/12 0515 good at s/on, no SSB. (NK)  
1460 WOMB PA HARRISBURG - 5/29 noted running ABC net, talk pgms cost  
of morning, so evidently NSP, noted past couple of MM's.  
All 4 Harrisburg stations are NSP now. (DS)  
WWND NY ROCHESTER - 5/22 0150 o/u WOMB w/rr, "3 WG" IDs, very  
very original. (DS)

FEDERAL COMMUNICATIONS COMMISSION  
ROOM 1005 CUSTOMHOUSE  
210 AND CHESTNUT STREETS  
PHILADELPHIA, PENNA. 19108

TEUBEN BROADCASTERS, INC.  
P.O. BOX 624  
HORNELL, N. Y. 14843



**WMMR**

University of Minnesota

**kozn**  
660Radio

knok/630

1500 WSMX NC WINSTON-SALEM - 6/11 0244 good on ET/TT/OC/ID. (KDF)  
 1510 WLKM MI THREE RIVERS - 6/9 0601 fair-poor w/s/on. (KDF)  
 WJCO MI JACKSON - 6/12 0602 poor u/WLKM/WLAC w/s/on. (KDF)  
 1550 KJWB ND FARGO - 6/7 0347 w/Rock, sounded like RS, maybe night  
 CP is on. (KDF)  
 WMOO AL MOBILE - 6/7 0343 u/KQWB w/ID on ET. (KDF)  
 UNID -- ----- 6/2 0450-0459 EDT, who had EE religious  
 service? CBE s/on obliterated it @ 0459. (AR)  
 1580 KLOU LA LAKE CHARLES - 6/8 ID @ 0250, but immediately clobbered  
 by WSRF ET after ID. (NK)  
 WPGC MD MORNINGSIDE - 5/17 0003 noted w/OC, ID then TT. (DS)  
 1590 WETT MD OCEAN CITY - 5/29 0045 noted w/uptempo MoR o/u WQIQ,  
 must be running non DA again as never heard since  
 they were caught 2 years ago, first time since then. (DS)  
 WQIQ PA CHESTER - They're still NSP, don't change your log.  
 Write to Edmunds for erasers-hi! (DS)

That's all we have on hand as of 6/28. A reminder of that next dead-  
 line....July 29. See you then.

The few noble summer DXers bringing this issue to you are:

KA	Kelly Andrews, Richmond, VA	HQ-180A, SM2
FD	Frank Dailey, Preston, CT	HQ-180, SM2, LW
KDF	Karl Forth, Villa Park, IL	HQ-160, I think
NK	Neil Kazaross, Pawtucket, RI	HQ-180A, SM2
AR	Andy Rugg, Ile Des Soeurs, PQ Canada	TRF
DS	Dave Schmidt, New Castle, DE	HQ-180A, Loop
WPT	William P. Townshend, Washington, DC	TRF

73... *Russ*



## Call letters 'WIBG' transplanted to shore

By Tom Watkins  
Special to The Inquirer

OCEAN CITY, N.J. — Radio station WIBG, a Philadelphia institution for years, has found a new home on the shore of the Atlantic Ocean in this family resort of 12,000 permanent residents.

It won't be the old, familiar "99" with the "rockin' bird," Joe Niagara, and his sidekick, Hy Lit, but WIBG is back, and the sound is unmistakable.

According to station manager Ron Miller, the idea to obtain the WIBG call letters emerged last fall when Fairbanks Communications Inc., owner of WIBG in Philadelphia, applied for and received permission to change its call letters to WZZD and its AM dial position to 100.

The old call letters of Miller's station had been WSLT-AM. It is owned by the Salt-tee Radio Inc.

The Federal Communications Commission (FCC) said that WSLT-AM could have the discarded WIBG call letters in February, but following an objection from Fairbanks it appeared

that the re-assignment of the call letters would be delayed until October.

The FCC, however, denied Fairbanks' objection and ruled that "the withholding of the call letters for one year from a community over 50 miles from Philadelphia ... is unwarranted."

The FCC ruling caught WSLT-AM officials by surprise, but it was a pleasant surprise. "We were hard-pressed to change over in time for the Memorial Day weekend," Miller said recently.

Miller said that the new WIBG would present the same rock 'n' roll format that made the Fairbanks station famous in Philadelphia.

The familiar voices of Niagara and Lit will be missing. Both are under contract with radio station WPEN in Philadelphia. Nevertheless, Miller feels that his station will attract visiting Philadelphians and former Philadelphians living along the Jersey

### LATE ITEM FOR DDXD:

Dave Schmidt reports WVAM-1430 is now running 250w night ND, pending completion of work on their directional array; work to be completed by end of Aug. They run 24 hrs. with a SP on Sunday morning 2 to 7 a.m. WFPG-1290 is also running 24 hrs. with possible SP MM 3 to 6 a.m. WYIS-690 has a target date of August 1st. Towers are up but ground system has yet to be put in. Dave added that the CE for WVAM-1430 is Jeff Keith and the station is very friendly.

From Dave Schmidt  
& John M. Sulak

Philadelphia Inquirer  
June 11, 1978

# INTERNATIONAL DX DIGEST

CHUCK HUTCHIN  
P.O. BOX 2087  
DECATUR, GA 30030  
404-633-1198  
(BEFORE 2300 ELT)

Times are GMT. For ELT subtract 4 hours. Deadlines are usually Monday.

News, news, news .....

Danish Shortwave Clubs International-China listings continued from the 6/12 DKN. Jiamusi PBS: 2045-0020, 0250-0530, 0850-1430 (Sat/Sun 1500) on 670 khz. Haerbin PBS: 1st pgm 2055-2230 (noon and night px unknown) on 975. 2nd pgm 2110-0515, 0855-1500 on 840. Yichun PBS: 2050-0020, 0250-0600, 0855-1400 (Sat/Sun 1500) on 910 khz. Qiqihaer PBS: 2050-0020 (Sun 0120), 0140-0500, 0755 (Tue 0855)-1430 (Sat/Sun 1500) on 1070.... Region 2: Jilin PBS 2100-0550, 0820 (Tue 0850)-1500 on 740/810/845/850/860/869/910/1285/1310/1410/1420/1535. Chanchun PBS: 2055-2400, 0325-????, 0855-1500 on 1330. Jilin-shi 2050-0030, (noon px unk), 0925-1435 (Sat/Sun 1500) on 930. Zhelimu PBS: 2125-0005, 0250-????, 0850-1430 (Sat/Sun 1500) on 1350. Yanbian PBS: Chinese pgm 2030-2330 (Sun 0030), 0150-0500 (Sun 0600), 0850-1430 (Sat/Sun 1500) on 1050. Korean pgm 2030-2400, 0220-0500 (Sat 0535), 0830-1430 (including R. Peking FS in KK 2130-2220, 0400-0455 and 1000-1055) on 1210. Tonghua PBS: 2120-2400, 0255-0505, 0920-1400 (Sat/Sun 1500) on 910. Jian PBS: 2125-???? (noon px unknown), 0920-???? on 1030. Hunchun PBS on 930, sked unknown. Region 3: (Liaoning Region)- Liaoning PBS: 2040-0100, 0250-0540, 0720-1500 or 1515 on 790/830/1030/1090/1260. Dandong PBS: 2050-0100, 0250-0530, 0850-1435 (Sat/Sun 1500) on 890/1400. Jinzhou PBS: 2115-0020, 0325-0520, 0855-1430 (Sat/Sun 1500) on 910/1370. Yingkou PBS: 2050-0020, 0320-0520, 0800-1400 (Sat/Sun 1500) on 1030. Luda PBS: 2045-0020, 0250-????, ???-1435 on 990. Unid regional stn: 2100-????, 0350-????, 0850-1400 (Sat/Sun 1500Z) on 900. (4) CPBS frequencies in the Northeast Regions: 1st pgm 540/560/570/640/760/835/850/980/995/1020/1030/1040/1036/1160/1330/1340/1360/1430/1510. 1020, 1040, and 1340 are also used by R. Peking FS. 2nd pgm 600/610/630/720/1120/1250, with 1120 also used by R. Peking FS. Radio Peking Foreign Service (1) to SE Asia. 1190:1100-1130 Laotian, 1130-1200 Thai, 1200-1300 Cambodian, 1300-1330 Burmese, 1330-1430 Thai, 1430-1500 Laotian. 1300 khz: 1030-1130 Cambodian, 1130-1200 Vietnamese, 1200-1300 Cambodian, 1300-1400 French, 1400-1500 Cambodian. 1340 khz: 1230-1430 Vietnamese. (2) to South Asia. 1210 khz: 1500-1800 Hindi, 1800-1900 English. 1300 khz: 1500-1600 Bengali. 1320 khz: 1500-1600 Hindi, 1600-1700 Urdu, 1700-1800 Hindi. (3) to the Far East. 720 khz: 0930-1530 Japanese. 920 khz same as 720. 1020 khz 1130-1500 in Korean, but Far East Radio Club says 1000-1355. 1040 khz: 0930-1530 in Japanese, FERC says also 2130-2156. 1310 khz: 1200-1300 Mongolian. 1460: 1400-1500 Mongolian. (4) to the Philippines. 1340 khz: 1200/1230, 1430-1500 Tagalog. (5) to the USSR. All px's are in RR and last 55 minutes, therefore all stns s/off at :55. All stns are in //. 560 khz: 1700-2055. 615 khz: 1500-1755. 1120 khz: 1000-1155, 1500-1655 (1755 according to FERC), 2100-2155. 1312 khz: 1300-1455. 1460 khz: 1600-1755. 1525 khz: 0001-0255, 1000-2355. (6) to Europe via Albania on 1457: 0400-0500 Czech, 1100-1200 II, 1200-1300 Serbo-Croat, 1400-1500+1730-1800 Turkish, 2000-2100 Polish, 2100-2200 Serbo-Croat. Brunei is now broadcasting on 580. West Germany Langenberg 719 will be carrying WDR2 by November. General the 1224 stn that has been heard in Europe for the last year carries vernaculars from 2100-2200, then FF including nx from Dakar at 2215, and then returns to its own px. This stn is assumed to be Ziguinchor. Yemen is operating on 1188 w/200 kw. USSR the new R. Moscow FS stn on 1142 is estimated to have 500 kw and must be in Byelorussia as it carries R. Minsk FS. Sked is: 1600-1700 German, 1700-1730 Danish, 1730-1800 Dutch, 1800-1830 R. Minsk FS on Byelorussian, 1830-1900 Italian, 1900-1930 English, 1930-2000 Dutch, 2000-2030 English, 2030-2100 Danish, and 2100-2230 English. When this stn took to the air, Kalinin-grad moved from 1142 to 1115. FS pgms of Soviet regional stns: (1) to Europe. R. Kalininrad carries RR for north sea fisherman 0001-0100 on 1385. R. Kiev carries Moldavian 1530-1600 on 890 and 1900-1930 on 1546. Ukrainian 2200-2400 on 1241. R. Leninrad Russian Friday 2230-2330 on 1493. R. Riga on 575/1349/1421 carries Swedish 2030-2050 Tu/Th/Sat, and 2130-2200 Tu/Th/Sat, Latvian 2103-2200 Sun, 2050-2130 Tu/Th/Sat, and 2130-2200 Wed. R. Vilnius carries Lithuanian 2200-2230 and English 2230-2300 on 665/1106/1554. (2) to near and middle east. R. Yerevan 863 carries Armenian 0630-

0730 Sundays. (3) to the Far East. Vladivostok/Pacific Ocean Radio Station 0700-0800 in RR on Petropavlovsk 142, Nagasaki 163, Yuzhno-Sakhalinsk 281, 690, and Yuzhno-Sakhalinsk 973. Azerbaijan SSR: R. Baku was heard on 1554 //1295. Egypt Voice of the Arabs is now being heard on 1106 with 1000 kw //620 from 0300-0800 and 1630-0035. (That 1000 kw explains why this stn was heard so well a year or two ago in the US-CH). Bulgaria corrections to 78 WRTH: Varna operates on 1124, not Kurdjali. (Not listed in WRTH area: Petritsch on 71g with 1st pgn and Stars Zagora on 872 with 2nd pgn. There has been an unid stn on 1016 w/1st pgn for many months. Also, it is unknown whether Petritsch 1043 and Vidin 575 are operating. Poland 1502 has a new Portuguese pgn 0430-0500. Libya Voice of the Arab Homeland is now broadcast 1900-0115 on 1124/1250/1484. Iran a stn in Farsi has been heard on 568 in Japan. Jordan English is carried 0500-0900 on 85g.

Arctic Radio Club station changes: Indonesia RRI has a new sked for its national pgn- 2300-0900 and 1100-1700. Nigeria the new R. Oyo in Ibadan on 658 is using much more power than the listed 10 kw. It also is broadcasting after the usual hour of 2400. West Germany AFN Kaiserslautern and Nurnberg have moved to 1106 from 611. Iran Abadan 576 is now using 1200 kw, sked 0200-2100. Nigeria some skeds and frags are: Ogun State 1397 from 0530-0005, Cross River State 1397 0530-0005, Gombe State 1017 from 0530-0005, Kaduna State 1416 same sked, Kano State 1376 same sked, and Borno State 1397 same sked. Philippines DWAS 1390 is seeking to increase power from 1 kw to 5 kw. Costa Rica the Ministry of Sports and Culture inaugurated a new stn "R. Nacional de Costa Rica" on 575. For the stn they were testing for a few days and want reception reports. (This was my "almost positive" reception in ILLD a few months ago-CH) Colombia HJES 1380 is now IDELAR, ex CARACOL. Escudero HQW5 on 1235 is now R. Popular de Coenca ex R. Popular Independiente

Via New Zealand DX Times: 123 moved to 1071 on March 14 and 15 briefly to conduct more interference tests with RDX. Loggings: Malaysia on 765, Indonesia on 864, Iran on 558 and 1386. Election dates: Bolivia on July 9, Brazil on November 15, and Venezuela on December 2. Canton Island ATTENTION: WXLE heard on 1388 but still announcing as 1385. Ecuador La Voz de Rio Guayas 560 ex R. Mambo. Guatemala LV del Tropico 1490 has been authorized to raise power to 10 kw. China Lanchow Kansu provincial stn announced that as of April 13 it will change freq from 730 to 684.

From the New Zealand Radio DX Association: Guyana apparently both R. Demerara and ORS use 760 w/10 kw.

Medium Wave Club: Ireland 566 is soon to be using 500 kw, ex 500/150. Beacons still using the MW band in England are LIC on 543.5, LAM on 633.5, STN on 669.5 and CFD 797. Ranges in nautical miles are respectively 100, 50, 60, and 20. (I don't think any of the ECB beacons have been hrd in the US, even though people like CPN tried-CH). Hard to verie ZBVI 780 sent a card signed by E.W. Brewley, General Manager.

Latin American changes from Distance: Costa Rica WILC 1460 ex 1500, in San Carlos. On 1500, R. Columbia in Ciudad Quezada ex 1460. Panama R. La Exitosa 800 khz is in Chitre; still no calls on this new stn.

Some Precision Frequency Measurements from Ron Schatz-

554.997	ZIZ	913.984	HANI	1164.988	CEL
595.006	Dominica	1004.06	Colossal	1212.3	R. Moran
635.014	YSS	1035.007	Haiti	1264.984	Paradise
674.962	Sonora	1055.029	Centro	1315.015	R. Bani
704.99	St. Vincent	1142.3	Cuba jammer	1403.000	Guinea
724.973	SRS	1145.094	unid-Haiti	1415.765	R. Marien
765.008	Senegal	1146.015	Caribes	1526.166	R. Bayba
834.007	Belize	1124.690	Super/Ellis	1555.000	Cayman
885.011	ZJB	1155.188	YJCF	1595.934	Femina
894.990	R.N.M.	1158.531	Artenisa		

Underlines indicate that the digit in question is not stable. If you have any questions on locations of some of these please consult the LA split list of a few months ago.

The verie department: Hank Wilkinson has (1) a card from R. St. Vincent 705 and literature on the island in 4 months via registered mail. V/s illegible. Country 72.

Pank W's veries, continued ... (2) 495, Toowoomba, 750 khz sent an ABC card from Box 293, RPO, Brisbane 4001. (3) 4VME, Radio Nouveau Monde, 895 khz sent a verie letter forreports of 10/20 and 11/17/77. The present transmitter operates on both 895 and 910 with 5 kw but is going to 10 kw June 20th. V/s Edner-Jude Jean-Louis, Directeur Technique et de Programmati n. (Wonder how the same x is operating on both 895 and 910?? No doubt this technical marvel was accomplished by the same engineer who designed the flying towers-CH) Kelly Andrews' veries of recent: HJES 030 sent a picture postcard verie after 6 months in response to a taped report in SS and mint stamps. Address as per 78 WRTH. HILK 860 sent an oversized 3 color QSL for taped report and mint stamps. Full address is Apartado Postal 205, Zona 2, Ave. Prolongacion Mexico, Santo Domingo. No w/s. Strangely enough, it was run thru a New York City FO meter and had US stamps. (CIA ties no doubt-CH) Norm Maguire reports: 3sH 1330, 1410 JOIF, 1380 JGIX, 790 XERPC letter from Jose Luis Medina R., Caracas, 850 JHEO letter from Russell Roberts, KH6JHI, 910 Mexico XERO letter from Jose Luis Truaba Aguirre, Caracas, 1100 Marshall Islands W320 pped from Justin Le Baum, Program Director, and 1150 YXK w/MZBC QSL from K.J. White. Brian Vernon from north of the frozen north has... veries from Australians ZBL 740, 2CL 810, 2CY 850, 2IC 1230, 2NA 1510, 2JJ 1540, 2UX 950, 2KY 1020, 2CF 1210, 2RE 1560, 3LD 770, 3IC 1600, 4Q: 630, 4QV 710, 4Q: 790, 4RK 840, 4Q: 430 910, 4Q: 1030, 4IF 1010, 4C: 1200, and 4K 1300. 4IF played part of a cassette recording Brian sent along on the air. Ditto for 4G: RE 48K, the Brisbane Telegraph saw fit to make mention of Brian's reception. Somehow Tandy Electronics (owners of Radio Shack) got word of the 400 reception and placed a note of it in the company newsletter. (All in all not such bad DX Hr. Vernon-CH) Du/D' veries from Vernon- Austria 1475, Belgium 926, England 681, 1214, and R. London 1457, Czechoslovakia 1520 (111-CH), East Germany 728 and 782, France 602, 710, 1070, Greenland 1210 and 1425, International Waters R. Caroline 962, Japan NHK2 ex 690, 830, 980, 1150, 1390, NHK1 on 1190, JOHN 1280, JOHN 1290, JOG: 1450, JOK: 950, JOVP 1440, JOF: 1330, JOOR 1180, and JOLF 1240. Leaving all those boring 'D' receptions behind.... Marshall Islands 1100, same details as Norm M's report, New Zealand: cards from ZYS 800, 328 980, 12D 1000, 423 1040, 12B 1070, 32B 1100, 1YC 880, 3YC 960, Solomon Islands 1030, HEMA 1570, HLMX 1190, Tahiti 740 Tonga 1020, West Germany 1421, and Norway 674/1313.

- 529 ALGERIA Aln beida poor w/AA meaning s/u storm QAN 0334 6/4. (Con)
- 515 GRENADA Morne Rouge fair w/calypso and reggae ex 0122 6/25. (Con)
- 540 MEXICO San Luis Potosi KEWA 1003 s/en. (Maguire) Date??-CH
- 548 ALGERIA Oran poor w/drum ex 0124 6/25. good w/male chanting 0403 6/3. (Connelly)
- 553 ST. KITTS Basseterre fair w/rhythmic Caribbean dance ex, then EK talk 0127 6/25. (Connelly)
- 580 PUERTO RICO San Juan WKAQ noted w/San Juan ex atop several other LA's 0107 6/4. (Connelly)
- 575 ALGERIA Bechar fair w/AA ex //548 0406 6/3. (Connelly)
- 584 SPAIN Madrid good (WEEI nullied); folk ex then woman in SS 0308 6/3. (Connelly)
- 590 CUBA San Antonio de las Vegas QGW Well v/WEEI; SS and EE soul ex 0343 6/4. (Connelly)
- 595 DOMINICA Roseau fair w/Low Rawls, then man in Caribbean EE, followed by more soul ex 0336 6/4. (Connelly)
- 600 COLOMBIA Barranquilla HJHJ heard w/something about "mas potente de Colombia", dominant 0407 6/3. (Connelly)
- 600 SURINAM Paramaribo atop w/East Indian ex then Hindi talk 0038 6/4. (Connelly) Very good-CH
- 625 COSTA RICA San Jose TIJC R. Cucu 0926-0951. (Maguire) Date??-CH
- 640 SURINAM Paramaribo RADIKA dominant and loud w/East Indian style ex then man in unfamiliar lang; audio heavy, compressed, and somewhat muffled 0035-0037 6/4. (Connelly)
- 650 MEXICO Los Mochis XEINT R. 65 0234-0310 s/off. (Maguire) Date??-CH
- 655 EL SALVADOR San Salvador YSS fair w/man in SS interspersed w/pop ex 0410 6/3. (Connelly)
- 665 PORTUGAL Lisboa good w/man in FF 0302 6/3. (Connelly)
- 670 VENEZUELA Caracas YVLL atop channel w/"Motrumbos" ex pgn, I note chime sequence sounded between each item 0340 6/25. (Connelly)
- 705 ST. VINCENT Kingstown poor w/Caribbean dance ex, doped by storm QAN 0032 6/4. (Connelly) tentative, suspected w/reverberated talk and soul ex 0129 6/25. (Connelly)
- 710 VENEZUELA Perlarar YVDE good/dominant w/R. Vision ID, then fast LA vocals and brass 0130 6/25. (Connelly) Loud w/R. Vision ID, LA jazz instrumentals and vocals 0311 6/4. (Connelly)
- 725 SURINAM Paramaribo up w/outrageous local-like signal; pop-rock in EE, then full ID in OD 0031 6/4. (Connelly)

725 SURINAM Paramaraibo SRS noted w/talk in weird lang, then soul mx 0131 6/25. (Connelly)

730 COLOMBIA Bogota HJCU atop several others w/Melodia ID, then xylophone mx 0110 6/4. (Connelly)

740 TAHITI Papeete 5/18 0648-0733 s/off. (Maguire)

750 NICARAGUA YNX Managua 0900-0918, heard several occasions about this time. (Maguire)

750 VENEZUELA/UNID YVKS Caracas atop w/Simon and Garfunkel, ads, R. Caracas jingle, then Roberta Flack song 0112 6/4. Intriguing was the second stn w/raspy audio on SS talk which mentioned Argentina and then promptly faded. Maybe LRA?? It bears further listening from the Cape Cod listening post during local sunset. (Connelly)

760 GUYANA Georgetown 8RG R. Demerara finally bagged-sometimes quite in the clear. Dominant at sunset before Venezuela/Colombia/WJR fade-ins. Man read a list of recent deaths, apparently mentioning each of the relatives of the deceased person; frequent references to Georgetown Hospital, relatives in Trinidad and other Caribbean islands, and many Moslem and East Indian names by a man in accented EE, also Demerara mentioned 0013-0031 6/4-chief QRM was WHEB 750 slop. (Connelly) A nice reception-wish I could hear them-CH

760 COLOMBIA Barranquilla HJAJ good w/LV de Barranquilla ID 0225 6/25.

760 VENEZUELA Puerto La Cruz YVQQ atop HJAJ; speech about Venezuelan politics 0120 6/9. (Connelly, last 2)

765 SENEGAL Dakar good w/mellow African vocal harmonies, then man in FF 0037 6/25. (Connelly) Poor-fair w/weird moaning 0011 6/4. (Con)

770 VENEZUELA Valencia YVKK atop WABC w/ID, SS mx 0050 6/4. (Connelly)

780 BRITISH VIRGIN ISLANDS Roadtown ZBVI loud w/reggae mx, a summertime sunset regular on Cape Cod 0008 6/4. Good w/soul-rock 0038 6/25-noted w/advert for reggae show, \$6 admission fee 0337 6/25. (Con)

790 MEXICO XERP Ciudad Chihuahua R. Ranchito 0727-0803. (Maguire) Date?

800 NETHERLANDS ANTILLES Bonaire still on, blasting in w/PP talk, R. Transmundial ID, then SS talk 0115 6/4. (Connelly) Excellent w/man and woman in PP then mx 0039 6/25. (Connelly)

810 PUERTO RICO San Juan WKWM noted w/SS mx, KWM jingle, nx headlines in SS-fair w/QRN 0100 6/25. (Connelly)

810 COLOMBIA Bogota HJCY dominant w/ w/Sutatenza ID, ads-one about Futbol, 0116 6/4. (Connelly)

830 VENEZUELA San Antonio de los Altos YVLT loud w/R. Sensacion ID, then spirited brassy mx leading into male SS vocal 0318 6/4. (Con) Loud w/R. Sensacion ID, TC 8:46, then male SS vocal 0046 6/25. (Connelly)

850 HAWAII KHLO 5/18, last report from Hawaii. (Maguire)

890 UNID SS under WLS around 0300, ID's as R. Super. (George) Sorry, don't know anything about it.CH

910 MEXICO XEHO Ciudad Obregon R. Centro 0809-0813. (Maguire) Date??-CH

960 COLOMBIA Magangue HJHN atop jumble w/World Cup Soccer results in SS //810 0117 6/4. (Connelly) Good/dominant w/accordion mx w/SS male vocal 0335 6/25. This pretty well kills any chances to get ZFB Bermuda under weakened domestics cx. (Connelly)

980 MEXICO XENR Nueva Rosita 0430-0454. (Maguire) Date????????????-CH

980 MEXICO XEKE Navajoa R. Favorita 0430-0454 u/XERN. (Maguire) " " "

1000 VENEZUELA Moron YVNM atop w/R. Mil ID o/graveyard like mess of other LA's 0312 6/4. (Connelly)

1005 COLOMBIA Neiva R. Colosal fair w/festive style SS male vocals 0106 6/4. (Connelly) Heard many times about 0950. Too much static, will await cooler weather before reporting. (Maguire)

1020 VENEZUELA La Ascuncion YVRS way o/KDKA; Margarita mentions, fast emotional SS talk (sporting event?), 0310 6/4. (Connelly)

1045 PANAMA Las Tablas HOJ2 assumed here w/female SS vocal 0105 6/4. (Connelly)

1060 MEXICO R. Educacion heard almost nightly w/classical, folk, and some pop mx. (George) Calls? Location? CH

1100 AN TIGUA St. John's ZDK good w/soul mx 0140 6/9. (Connelly) Bombing in w/oppressively loud local signal; steel drum mx alone on channel at 0102 6/4. (Connelly)

1110 COLOMBIA stn not ID'ed-many ads for firms in Monteria and Magangue 0100 6/4. (Connelly)

1110 VENEZUELA Carupano YVQT noted w/R. Carupano ID, talk mixed w/instrumental mx, then male SS vocal; totally over-riding WBT 0328 6/4. (Connelly) 0001-0005 6/4, ID'ed as R. Rumbos, talk in SS by CM, s/off w/NA hrd after WBT s/off. Good signal. (Townshend)

1120 NEW ZEALAND 4YQ Queenstown 5/13-reference 6/12 DXN. (Maguire)

1140 MEXICO XEMR R. Alegria Monterrey 0405-0445. (Maguire)

1160 COLOMBIA R. Aeropuerto noted w/clear ID, then mentions of Barranquilla; briefly o/het-growl 0331 6/4. (Connelly)

1165 ANTIQUA St. John's Caribbean Radio Lighthouse good w/EE religious ppm 0058 6/4. (Connelly)

1205 FRANCE Bordeaux fair to good w/FF talk, then rock mx 0349 6/25. (Connelly)

1240 MEXICO R. Mexicana XECC Nogales 0953-1016. (Maguire)

1265 ST. KITTS Basseterre R. Paradise xint w/EE preaching 0055 6/4.

1349 FRANCE Nice very powerful (killing 1350), FF anncr then soul-disco mx 0317 6/3. (Connelly, last 2)

1376 FRANCE Lille running potent OC 0316 6/3. (Connelly)

1390 MEXICO XEV R. Fiesta Ciudad Chihuahua. (Maguire) Time?? Date??-CH

1403 GUINEA Conakry very loud w/African vocal group mx and drumming, strong het from OC on 1404, 0314 6/3. (Connelly) In and out of slop and storm QRM; bits of African mx noted at low audio level 0114 6/25. (Connelly)

1529 VATICAN CITY R. Vatican putting strong het on WCKY; fragments of cl mx surfacing 0110 6/25. (Connelly)

1578 PORTUGAL/ITALY (tentative) one stn here w/operatic vocal o/u other carrier yielding fast SAH, both signals strong 0312 6/3.

1586 WEST GERMANY Langenberg poor to fair through WQQW slop; male GG vocal 0311 6/3. Poor w/man in GG, badly slopped by WQQW 0105 6/25. (Connelly, last 2)

1602 WEST GERMANY Munchen fair but fadey w/mx 0310 6/3. (Connelly)

Brought to you by . . . .

Mark Connelly, Arlington, Mass. R390A, 2 37 m. phased wires  
 Charles George, Dallas, Texas SSR1, SM2  
 Norm Maguire, Honolulu, Hawaii SPR4, Sanserino loop  
 William Townshend, Washington D.C. TRF

## NRC AWARDS PROGRAM

The National Radio Club is currently issuing two series of certificates to members of the NRC similar to the sample illustrated on page 34 of DX News #27, June 12, 1978.

The first series is for total verifications. This series is issued in steps of 500 veries from different stations (i.e. 500, 1000, 1500, etc.). These certificates are issued on the honor system. When you reach or pass a 500 verie step, contact the NRC Awards Manager and a certificate will be issued to you.

The second series is for Countries Verified and is issued in steps of 25 Countries Verified (25, 50, 75, etc.). For any of the country awards, please send the Awards Manager a list of the countries verified with details from a representative verie from each country: Call or slogan, location, frequency of operation and date (either date of reception or verification). The Awards Manager reserves the right to request a copy of any verie that might be questionable.

Postage on certificates is paid by the NRC. However, in the case of members requesting re-issue of an old certificate by one of the new certificates, return postage is requested.

The Awards Manager is open to any suggestions from members for any new series of certificates that he or she might feel would be of interest to fellow NRCers.

The current Awards Manager is:

Norman L. Maguire  
 6105 Del Campo NE  
 Albuquerque, New Mexico 87109

Ron Musco started the ball rolling for new certificates and Kelly Andrews followed up by handling the composition and printing.

# The Great **NRC LOG** Bogdown

The NRC Log Editor finds his face red.

I had made an estimate to HQ last January that the log could be completed as far as the manuscript is concerned by mid to late May ... and ready for delivery by mid to late June. There were several factors that led to the defeat of this overoptimistic miscalculation.

Bear in mind that the NRC Log is typed by hand, and it takes about 25 minutes per page (considering mistakes that are made and the liquid paper drying time factor.) The IBM Executive typewriter is in the News Room at WMIX, and not at home ... but it would make little difference if it were at home because Mrs. Log Editor objects to overtime spent on the project!

A one-man news department's job is not a 40-hour per week thing -- it's more like 60 to 70 hours -- and it has to be fun or there wouldn't be so many one-man news departments. It also is something that isn't absolutely scheduled, so time that is set aside for log-typing sometimes gets used up in news preparation instead.

Then, there have been some unique elements that have occurred this time around. During the typing process, the "M" key on this typewriter started "flying", and we started having things that looked like "W<sup>M</sup>IX" and "Ca<sup>m</sup>eron TX." It took much longer than it should have to correct the problem! While the typewriter was out of commission, the Log Editor received the latest SRDS and BYB, and started checking address information. Despite several thousand changes that had crossed the log in the updaters since the last issue, there were several hundred more, just in spot checks.

So time has been spent checking the previously typed manuscript against other available sources because the log editor doesn't like to send out copy he suspects is inaccurate -- and correctible.

Photocopies of each of the first 76 pages of the log (through 1220 khz) have been sent to three NRC'ers, who have proof-read those pages and come up with some errors that need to be corrected. Those corrections have been made and in today's (May 19th) mail, those first 76 pages have gone to Russ Edmunds.

That means the log typing is about 40% completed.

It will go faster now that the typewriter is fixed and the sources are being checked, but it won't be as soon as promised, and there aren't going to be any more promises about timetable. I know there have already been many advance orders, and everyone wants his new log as soon as possible. I have not received any static from anyone, and I am grateful for that. I trust that patience will prevail.

If you do get upset about the lateness of your log, don't blame Louisville ... don't blame Russ Edmunds ... blame me (but don't let me know about it!)

-- John Callarman



# DXCHANGE

RUSS EDMUNDS  
P.O. BOX 127  
BOONTON, N.J. 07005

FOR SALE  
(receivers)

(\* denotes shipping included /or/ paid

HAMMARLUND SP-600 JX-17, with complete extra chassis. In good shape! Make offer. (John Johnson, 318 Washington St., Hoboken, NJ 07030; (201) 798-7321, no collect calls!)

HAMMARLUND HQ-170 Ham bands receiver. 6 thru 80 meters, w/ 12-hour clock/timer. With manual and original carton. \$85 \*. (Neil Zank, 623 Lyncrest Dr., Lincoln, NE 68510)

HAMMARLUND HQ-110 Ham bands receiver. 6 thru 80 meters, w/ 12-hour clock/timer. \$45 \*. (Zank)

REALISTIC DX-160, with added tape monitor. Recorder included. \$70 or best offer. (Mark Strickert, 5715 N. Kenmore, Apt. 302, Chicago, IL 60660)

HAMMARLUND HQ-180AC. Immaculate cx, recently checked over by Steve Bohac. \$350. (Angel M. Garcia, 32 Hillside Rd., Hackettstown, NJ 07840; (201)-852-4639) \*\* See N. Kazaross ad below - rje)

SEARS SILVERTONE 8-band portable, tube type, 3-way antenna. AC or batteries (not incl.) w/ manual. \$20, you pay postage. (Mrs. Earle Whitney, 8000 120th St. N., Seminole, FL 33542.) Prefer local pickup.

FOR SALE  
(ham gear)

HEATH MARAUDER HX10 Transmitter, 180w SSB/CW, 80-10 meters, VFO, VOX. Good novice thru extra, exc. cx. \$150. (Garcia)

FOR SALE  
(accessories)

NATIONAL (PANASONIC) reel-to-reel taperecorder, mono-stereo, auto reverse, detachable speakers, VU meters. Exc. cx. \$75. (Garcia)

RCA WV-516A volt/ohmmeter. Exc., complete w/ test leads and instructions. Factory assembled. \$27.50 \* (within US only). (Albert S. Lobel, 10514 Caminito Baywood, San Diego, CA 92126; (714) 566-0092)

FOR SALE  
(miscellaneous)

OLSON Auto Reverberation Unit X-75. Never used. Airmail, 4) 15¢ stamps; surface mail 2) 15¢ stamps. Canadians may substitute 14¢ stamps. (Nick Hall-Patch, 3272 Alder St., Victoria, B.C., Canada V8X 1P2)

TUBES: 1) 6SL7WGT; 2) 6SG7; 5) 6AC7; 1) 6CG7; 1) 6BE6; 2) 6EK7B; 1) 7054; 1) 6FG; 1) 6K6GT; 2) 6AB7; 1) 6J5; 1) 6AT6; 2) 6J7GT; 2) 6C5; 1) 6CB6; 1) 6BA6; 3) 6L6G; 2) 5Y4G; 1) 83; 3) 6SA7. All except 83 tested. The lot for postage costs - \$4 airmail, \$2.50 surface. Individual tubes for 3) 15¢ US stamps or 3) 14¢ Canadian stamps. Bulk price in either US or Canadian funds. (Hall-Patch)

FOR SALE  
(publications)

1977 WRTH. Nearly mint cx. Airmail, \$5.25; Surface \$4.00. (Hall-Patch)

North American Radio-TV Station Guide by Vane Jones, 11th ed. Fair cx. All pages intact. \$2.50 \* (US only). (Lobel)

WANTED  
(receivers)

HALLICRAFTERS SX-42. Give all details first letter. (Levi Myers, 116 N. Queen St., York, PA 17043.)

LAFAYETTE HE-30. Must be above average ex, complete and have manual. Needed for personal collection. Will pay top dollar for the best one available! (Steve Kennedy, P.O. Box 132, Immokalee, FL 33934, or prepaid calls after 1500 EDT at (813) 657-4747.)

HAMMARLUND HQ-180A. (Neil Kazaross, 30 King Phillip Rd., Pawtucket, RI 02861)  
\*\* See Garcia's ad above - rje

WANTED  
(accessories)

SB-620 Spectrum Analyser, in working condition. Ship or can schedule pickup in NYC area if needed. (W. T. Farmerie, 62 Sunrise Ave., Grafton, MA 01519; (617) 839-5143.)

WANTED  
(publications)

BACK ISSUES OF DX NEWS; Any issues, Vols. 36-41 and also especially need Vol. 43 #9 (12/15/75), as somehow lost my only copy. (RJE)

Well, that's it for another round. I also have info available on a 1929 Atwater Kent which is available, without tubes, or which should still be available for about \$60 in the NYC area. If interested, drop me a line, and will send info.

73's

KEEPING A LIVELY

## COURTESY PROGRAMS COMMITTEE

We feel now, YES NOW, in the midst of Summer static, is the time to urge our members to participate in one of the most important parts of the hobby, the arranging of DX tests. The NRC Courtesy Programs Committee (CPC) is an informal group open to all. The Committee is in business for one main reason; that reason being to allow members to hear and verify new stations. It is often the ONLY way to hear certain stations for the majority of us.

Our hobby has lost much of its early usefulness to broadcasters and cooperation of stations has lessened. Most of the old-time radio engineers are gone and their replacements often have little understanding or appreciation for the hobby. In this regard, the CPC program can serve to promote both the hobby and the National Radio Club.

With the Committee occupying such an important place in the DX scheme of things, it is hard to imagine members being unwilling to participate. Sadly, too often this has been the case. We wish to take this opportunity to encourage you to join in and share the load in arranging tests. Back in the 1976-1977 season, all the various clubs together arranged 81 tests. Back in the 1955-1956 season the number was nearly 150. We sincerely believe it is not impossible for NRC alone to arrange 150 tests today!!! All we need are members who are willing to say, "I'll Help".

Several members this year arranged a large numbers of tests. We don't want you to be discouraged that you don't have time to write dozens of letters, however. Just consider what type of test program we'd have if each member just arranged ONE test!

For information on how to participate, please refer to the special "CPC Issue" which appeared on August 22, 1977 (#28), or write to our CPC Chairman. His address: Jerry Starr, c/o WSRD Radio, Youngstown, Ohio 44505.

REVIEW OF

## HQ-180 SERIES RECEIVERS

DALLAS S. LANKFORD

INTRODUCTION The Hammarlund HQ180 series receivers are sophisticated, tube-type, general coverage communications receivers. Not only are they very popular receivers among BCB DX-ers, but they also account for much of the foreign BCB DX that is heard in the continental USA. Moreover, the NRC rates them as the best compromise between price and performance on the new and used receiver market today (1).

Reviews of the HQ180 are in (2,3,4), and advertisements which summarize the circuitry and operating features of the HQ180 occur in many issues of Q and QST between November 1959 and June 1963, and for the HQ180A between July 1963 and January 1970. A brief discussion of the HQ180, HQ180A, and X models is also found in the NRC Receiver Reference Manual (5).

DESCRIPTION OF THE '180 The primary differences between the HQ180 and HQ180A are (i) B+ rectification is done with a 5U4G tube in the HQ180 and with two silicon diodes in the HQ180A, (ii) the HQ180 does not have provisions for 230 volt 60 hz operation, while the HQ180A does, (iii) the HQ180A has a separate filament transformer for the high frequency first oscillator and first mixer which is permanently on as long as the receiver is plugged in (which, according to Hammarlund advertisements, drastically reduces warm-up time), (iv) the HQ180A has a 500 ohm audio output (both have a 3.2 ohm output), (v) the HQ180A detector selection switch has three positions -- AM, SSB (product detector with BFO fixed tuned to 60 khz), and CW (product detector with BFO variable tuned to 60 ± 2 khz) -- while the HQ180 provides only the first and third detector options, (vi) the HQ180A has an accessory socket and a system socket for use with external converters and transmitters, and (vii) the HQ180A is newer (1963 - 1970) than the HQ180 (1959 - 1963).

Both the HQ180 and HQ180A also come in X models, which have an additional 60A oscillator that provides up to 12 crystal controlled reception frequencies. Except for the differences we have mentioned, the different models of the HQ180 series are virtually the same receiver, so we will often refer to them as the '180.

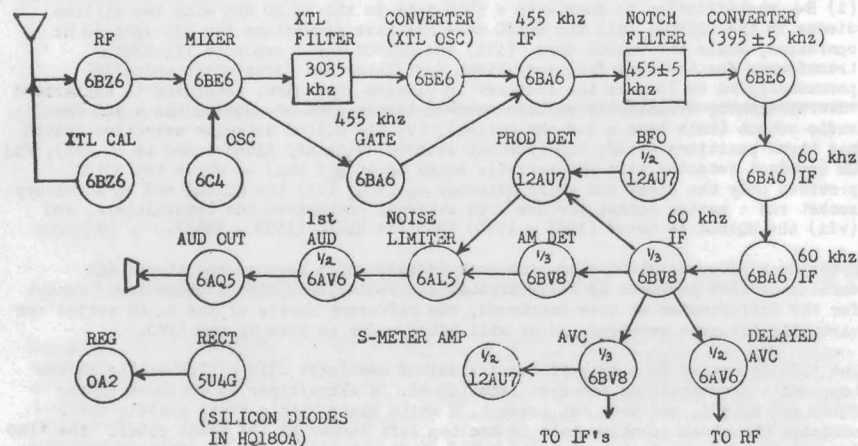
The '180 is housed in a grey-finished aluminum mesh case with a lift-up lid in the top, and a grey-finished die-cast front panel. A clock/timer is optional in the HQ180 and HQ180A, and when not present, a white plate with a clear plastic cover occupies the clock mounting hole in the top left corner of the front panel. The '180 tunes 0.54 - 30 mhz in 6 bands: (i) 0.54 - 1.05, (ii) 1.05 - 2.05, (iii) 2.05 - 4.04, (iv) 4.0 - 7.85, (v) 7.85 - 15.35, (vi) 15.35 - 30. Double conversion, 455 & 60 khz, is used on bands (i) - (iv), while triple conversion, 3035, 455, & 60 khz, is used on bands (v) & (vi). Bandspread tuning is inoperative on bands (i) & (ii), and is calibrated for the 80, 40, 20, 15, and 10 meter amateur bands and also includes a 100 - 0 logging scale. The main and bandspread tuning shafts are flywheel weighted and edge-drive circular dials which in turn drive the tuning capacitors through reduction gears. This arrangement spreads the dial markings over about 320 degrees on both dials, and gives a tuning reduction of approximately 23:1. The circular dials are equivalent to at least 7" of linear dial on band (i) up to 14" on band (vi). Bands (i) & (ii) are divided into 10 khz intervals, band (iii) into 20 khz intervals, band (iv) into 50 khz intervals, and bands (v) & (vi) into 100 khz intervals. Sensitivity is rated as 1.5 microvolt for a 10:1 signal to noise ratio on AM, and 0.7 microvolt for SSB/CW. Maximum audio output is one watt into 3.2 ohms. Power consumption is 120 watts. The '180 is 10 1/2" H, 19" W, & 13" D and weighs 38 lbs. The serial number is located on the chassis rear, just above the S-meter zero and sensitivity controls.

Antenna input options on the chassis rear include balanced and unbalanced binding terminal arrangements, and an unbalanced coaxial socket. Antenna input impedance is rated as 50 - 600 ohms. A 100 khz crystal calibrator gives markers on all bands. The front end is a conventional tube RF amp, mixer, and variable high frequency oscillator, except that the antenna trimmer tunes the first RF tuned circuit. From the first mixer, a signal follows one of two paths, through a 455 khz gate on bands (i) - (iv), or through a 3035 khz crystal filter and a crystal controlled converter on bands (v) & (vi). The two paths join at a 455 khz IF amp and continue through a



bifilar T trap notch (slot) filter. The slot is tuned by an 8:1 vernier control, and provides up to 60 dB attenuation over a range of  $\pm 5$  kHz from the 455 kHz IF center. After passing through the notch filter, a signal is converted to 60 kHz. The 395 kHz third conversion oscillator is tuned by an 8:1 vernier  $\pm 3$  kHz and provides fine tuning. Selectivity is obtained by tuned circuits in the 60 kHz IF strip, and is controlled by two switches, one three position switch that selects upper, lower, or both sidebands, and one four position switch that selects bandwidths of 0.5, 1, 2, & 3 kHz at 6 dB down, with a 60:6 dB shape factor of 3:1. These two switches act together to give bandwidths of 0.5, 1, 2, 3, 4, & 6 kHz. Two detectors, a diode for AM, and a product detector for SSB/CW, are selectable. There are four AVC positions — off, slow, medium, and fast. When on, delayed AVC voltage is applied to the RF amp, and AVC voltage is applied to the 455 kHz IF amp, the third converter, and the first two 60 kHz IF amps. Manual gain is applied to the RF amp and the 455 kHz IF amp in all AVC positions. The noise limiter is a diode type with adjustable threshold, and may be turned off. The audio section includes Hammarlund's well-known auto-response circuit (6) which automatically narrows the audio bandpass as audio gain is increased. The headphone output is designed for high impedance headphones. Audio output may also be taken from binding terminals on the chassis rear. In the HQ180A, accessory and system sockets on the chassis rear provide B+ and filament voltages, audio output, and other features.

#### HQ180 AND HQ180A BLOCK DIAGRAM



**COMMENTS** I purchased an HQ180A, serial no. 6652, with manual for \$350 in January 1977. Currently, a typical price range for HQ180A's is \$300 - \$380, and about \$100 less for HQ180's, although I have seen selling prices of \$200 - \$380 for both. There are a variety of potential ways to locate a '180, such as, Buyers & Sellers (7), and for sale ads in *CQ* and *QST*. I found mine by placing a wanted ad in *QST* Ham Ads (8). Regardless of how you locate a '180, be sure to give the receiver a careful personal inspection and use it for about an hour before you give any money. All '180's are at least 7 years old, and many of those offered for sale have at least a few minor problems. In addition, personal bad experience and conversations with others have convinced me that some sellers intend to rip the buyer off, and the remainder see major problems as minor problems, and often don't see minor problems at all.

By all means, get a manual if you purchase a '180. The 74 page manual (9) abounds with data which will assist you or a competent repair person in almost any repair or maintenance. The manual includes operating instructions, front end and IF alignment procedures (an error on line 4, pp. 48 reads "... bottom slug of T2 and peak T1 ...", but should read "... bottom slug of T1 and peak T2 ..." (10)), chassis removal and replacement procedures, tube operating voltages and resistances, a parts list (inductances of coils and transformers, and capacitances of the main and bandspread tuning capacitors are not listed), clock installation, 230 volt wiring option (on the HQ180A), parts placement diagrams (tubes, coils, and transformers), and schematics. An addendum (10,11) describes changes and modifications made in late model HQ180A's. These modifications include removing the plastic dust covers on the main and bandspread tuning capacitors, and removing tube shields from the RF, 455 KHz IF, first two 60 kHz IF's, and noise limiter tubes.

Superficially, the HQ180A I bought was in very good condition, with no scratches, dents, or noticeable signs of wear. It was in good electrical and mechanical condition, with some scratchiness in the antenna trimmer, RF, AF, and noise limiter controls. The scratchy antenna trimmer was fixed by an application of commercial contact cleaner (several brands are available at most electronics dealers), but the scratchiness in the other controls persisted. Disassembly and cleaning cured the AF control, but not the RF and noise limiter controls, and so far I have been unable to locate replacement parts. Presently, I have replaced the (linear) RF control with an audio (logarithmic) control. The scratchiness is gone, but gain control is now logarithmic rather than linear. This emphasizes that one can expect to encounter difficulties when one attempts to maintain or repair an older receiver.

The front end alignment of the HQ180A was good, almost perfect on the SW bands, and about 5 kHz off on the ECB. Using the manual, I went through the front end and IF alignment procedures with little difficulty. Some frozen cores in the 455 kHz IF strip were unfrozen by careful application of force, thanks to a helpful hint from Arthur Peterson (10). A slight amount of dial spreading is noticeable at the edges of the dials, but calibration is still accurate throughout most of the bands.

Generally, I have been pleased with the condition and performance of my HQ180A, and agree that the '180 deserves its popularity among ECB DX-ers. However, the '180 has a few idiosyncrasies which ECB DX-ers should be aware of.

Because the antenna trimmer tunes the first tuned circuit, an antenna tuner is needed for best long wire performance. But the '180's antenna input options are ideal for loops and beverages, which are superior to long wire antennas for weak signal reception on the ECB.

In my opinion, the inoperative bandspread on bands (i) & (ii) is the most annoying feature. The slow main tuning is usually adequate for the ECB, and when it is not, the vernier fine tuning suffices. But estimating a split signal's frequency would be easier and more accurate with operative bandspread tuning. Also, those who would add exalted carrier reception via a Q-multiplier might experience tricky tuning on the ECB.

When using an amplified loop on the ECB, the first three harmonics of the third conversion oscillator are audible. For example, if the oscillator is tuned exactly to 395 kHz, then the first three harmonics are heard at 790, 1185, and 1580 kHz. The exact frequencies of these harmonics depends on the alignment of the oscillator and the setting of the vernier fine tuning. Fortunately, the vernier fine tuning can be used to move these harmonics approximately  $\pm 6$ ,  $\pm 9$ , &  $\pm 12$  kHz respectively, and thus harmlessly away from any weak DX signals. Interestingly, using these harmonics, both the 455 and 60 kHz IF strips can be aligned with only a 455 kHz signal: first zero beat the first or third harmonic to 790 or 1580 kHz using a domestic ECB signal, and then use the 455 kHz signal to align both IF strips.

The manual indicates that low impedance headphones can be used satisfactorily with the high impedance headphone jack, but I have found the arrangement disappointing because of resulting objectionable 60 Hz hum. For low impedance phones, I use a 4 watt 1000 - 8 ohm audio transformer, installed in a metal case and connected to standard phone jacks.

**CONCLUSIONS** The '180 in good condition is indeed a prima donna ECB DX receiver. Through careful personal inspection, it is possible to locate and purchase a '180 with a few minor problems that you can either live with or repair. When last sold new, the HQ180A sold for about \$600, which, given the high rate of inflation during the early '70's, is equivalent to over \$1000 today. Compared with new narrow bandwidth receivers that start at about \$3000, a reasonably priced '180 represents a very good value. I estimate that about 10,000 '180's were manufactured, which means they should be available in reasonable numbers on the used receiver market for several years to come. However, don't expect to find one easily. Reasonably priced '180's in good condition sell very quickly.

**ACKNOWLEDGEMENTS** I would like to express my appreciation to Bruce and Evelyn Portzer for reading an earlier draft of this article and making helpful criticisms. I would also like to thank Arthur Peterson for his assistance.

Continued on Page 18

## PACIFIC

MIKE HARDESTER

In the ten or so years I have been DXing, I have only occasionally seen mention of radio stations located in the Trust Territory of the Pacific Islands, and known only one DXer from that area: Bob Bundy of Truk (I wonder where Bob is at present?). I suppose my increased interest in that area of the world came from the closure of the FEBC station (JOFF-1020) here on Okinawa with plans to move to Saipan. It was with that interest I did a bit of reasearch and came up with the present information.

The Trust Territory Government owns and operates six AM stations: WSZO, 10 kw station located on Majuro, frequency of 1100 kHz; WSZD, 10 kw station located on Ponape Island and operating on 1450 kHz; KUSI, a 1 kw station on Kosrae Island operating on 1500 kHz; WSZC, a 5 kw station on Moen Island operating on 1300 kHz; WSZA, a 1 kw station, soon to be upgraded to a 10 kw output, located on Yap Island and operating on 1480 kHz; and WSZB on Koror which operates on 1500 kHz with 250 watts which will soon be increased to 5 kw.

There are three other AM stations on Saipan: KJQR, 1 kw station on 1350 kHz. This station is owned and operated by the Government of the Commonwealth of the Northern Marianas. Another station is owned and operated by the Pacific Broadcasting Corporation; this is WSZE on 1050 kHz with 1 kw. The third station is owned by the Far East Broadcasting Company: KSAI, a 1 kw station on 940 kHz.

From FEBC on Saipan comes this word--The shortage of land makes it difficult to obtain a site on Saipan, and for this reason they chose to request the Government for 25 acres of land on the north end of Saipan. At present, the new site has been leased for the tower and the transmitter building but the environmental permits have to be approved before work can begin.

The Saipan Community Church has agreed to allow FEBC use of a section of their land for a studio, and construction of the studio has been completed. Also, permission was granted for temporary use of the area for a small transmitter and FEBC is presently on the air; having started with 5 hours of test programs. Their planned schedule was for KSAI to sign on at 6 AM local and sign off at 7 PM local (2000 to 0900 GMT). At the present, the major language will be English, and Chamorra, the local language, will be added as they are able to get the staff to provide it and a Christian to make the programs for them. The emphasis is more on public service with an element of Christian programming in order to attract listeners from the almost 100% Catholic community.

Plans exist for a small station to be placed in each of the other districts with Ponape and Truk Islands already having plans on the board; search for land is under way. The shortwave site on Saipan is still held up pending the acquisition of about 12 acres of land. With the facilities in Manila and Korea still able to operate unmolested, the urgency at this stage is not particularly great.

Continued from preceding page

## REFERENCES

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2. QST, June 1960, pp. 42 - 43.
3. QST, July 1960, pp. 45.
4. CQ, April 1960, pp. 59.
5. The N.R.C. receiver reference manual. (same address as reference 1) pp. 25 - 28.
6. QST, January 1957, pp. 35.
7. Buyers and Sellers, P.O. Box 73, Boston, MA 02215, (Now out of business--editor)
8. QST Ham Ads, QST Magazine, 225 Main Street, Newington, CONN 06111, personal ads cost 20 cents per word.
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11. Addendum to technical description and operating manual no. 52787-1 HQ180 series communications receivers, addendum no. 9001-15-00001.

## MEMBER CERTS

We are pleased to announce the availability of Membership Certificates. The composition and printing was handled by Kelly Andrews. Due to cost considerations, they will not be a part of the new member package, but rather will be sent upon request to the Secretary. In this one facet of club operations we are requesting return postage. Size is 8½ x 11 and printing is black on a high quality off-white stock. Requests go to NRC Secretary, P.O. Box 32125, Louisville, Kentucky 40232.



The officers and membership of the

## NATIONAL RADIO CLUB

hereby officially recognize

KELLY ANDREWS

*as having exhibited an active interest in the hobby of Broadcast Band DXing as well as an ability to receive long distance radio transmissions on the medium wave frequencies and, having paid his annual club dues, is entitled to all the rights and privileges of a full*

## MEMBER

*in good standing of the National Radio Club and the international radio fraternity.*

Certified by:

*Pat Heritage* Secretary  
For National Radio Club

Date of issue: July 17, 1978

# DOMESTIC DX ACHIEVEMENTS

BOB WALKER  
2220 W. HWY. 524  
WESTPORT, KY 40077

As it is probably announced earlier in this issue, this will be my last Domestic DX Achievements Column. There are several personal reasons for which I am doing this, including my entering the real estate profession which will cut my DX time considerably. I've enjoyed every minute of it-especially the many whom I corresponded with in my short tenure. My deepest thanks to all who have contributed during my reign.

Now to my final column:

## DOMESTIC DX ACHIEVEMENTS July 1, 1978

YR	NAME & LOCATION	TDH	TDV	SV	FV
23	ALLEN, SF Bay Area	3,006	2,501	49	8
58	WESOLOWSKI, E-NE	2,030	1,925	49+	9
30	WHEELER, NW-PA	2,694	1,636	50	9
62	PISTEK, Chicago	1,385	1,211	50+	10
60	RUGG, Montreal	1,141	1,121	47	10
70	FORTH, Chicago	1,756	1,061	48	10
67	EDDIE, St. Louis	1,232	986	49+	5
62	MUSCO, Hartford	1,095	971	46+	9
63	ARRUDA, near Boston	1,149	637	47+	9
74	CARR, C-IL	830	636	42+	5
64	STRAUS, NYC (NJ)	1,110	445	40	8
68	PIMPER, near Salt Lake City	1,365	400	45	6
64	HATHAWAY, C-IL	666	309	40	5
62	ATKINS, Louisville	1,338	258	43+	4
62	EDMUNDS, NYC (NJ)	1,446	257	41+	6
73	MOUNT, NYC (NJ)	444	216	33+	5
??	KAY, Toronto	305	211	35	8
74	WATERMAN, W-MA	674	189	37+	8
74	WALKER, near Louisville	503	163	33	4
76	KORINEK, near San Diego	369	117	??	5
73	HANAVAN, San Diego	663	99	33	2
76	KROMKA, NYC (NJ)	1,230	71	37	3
70	HAYES, NE-PA	893	56	23	2
70	BUEHLER, near St. Louis	589	54	26	1
67	SCHHEEL, E-IA	880	50	35	6
70	FRANCIS, E-TN	1,926	36	35+	0
74	MORBY, upstate NY	681	23	16	1
73	MURPHY, Louisville	1,412	7	7	0
66	SIEGEL, Toledo	2,140	4	3	0
60	HARDY, B., coastal WA	640	2	2	0
69	HARDY, N., coastal WA	717	2	2	0

Thanks again to you all.

*Bob*

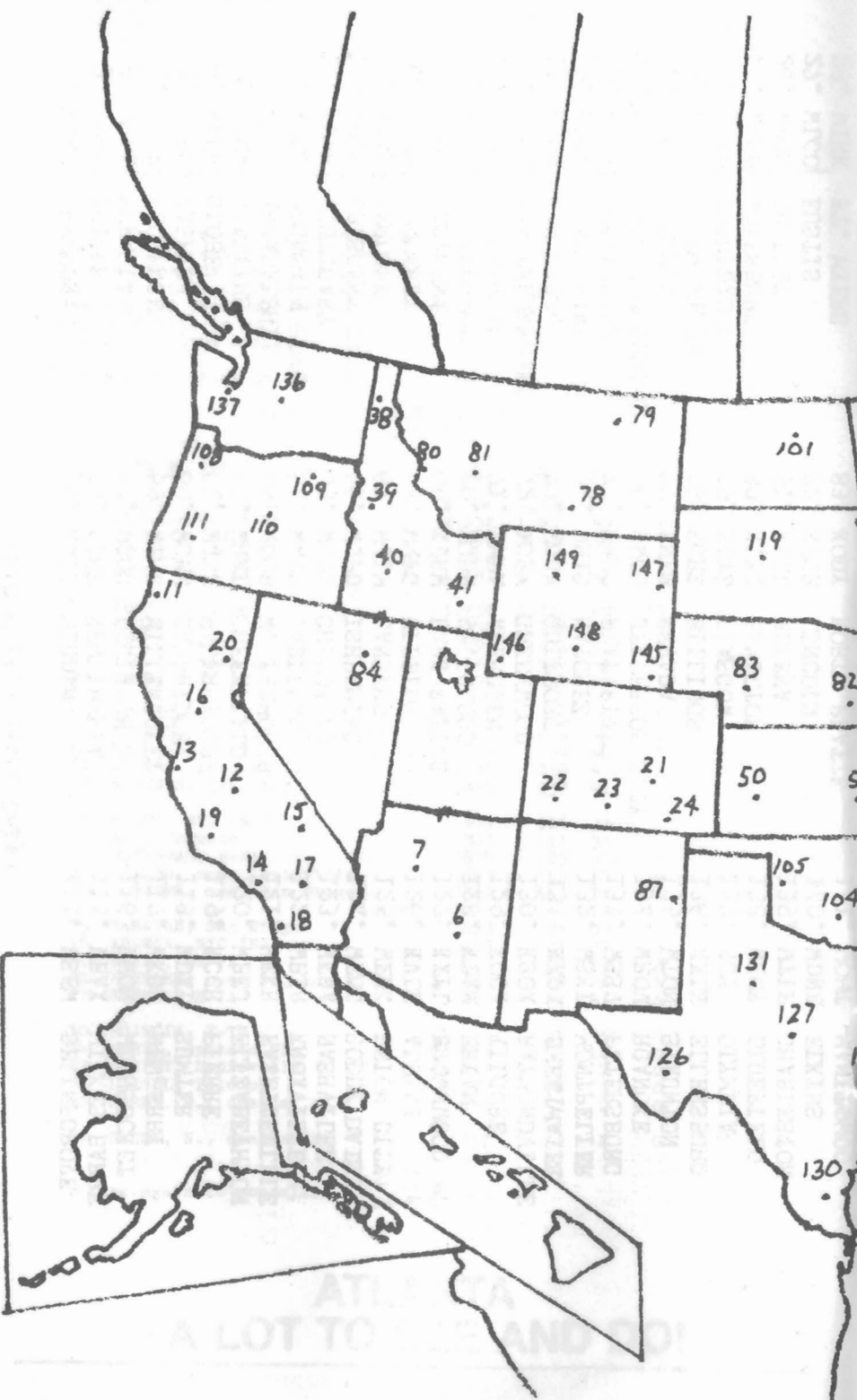
**ATLANTA**  
**-A LOT TO SEE AND DO!**

1.	WBJ	BREWTON	56.	KASO	MINDEN	114.	WSEW	SELINGROVE
2.	WPRN	BUTLER	57.	KANE	NEW IBERIA	115.	WBAX	WIKES BARRE
3.	WJLA	EUFPAULA	58.	WCOU	LEWISTON	116.	WMON	MOONSOCKET
4.	WBCF	FLORENCE	59.	WMKR	MILLINOCKET	117.	WKDK	NEWBERRY
5.	WAFB	JASPER	60.	WCEN	CAMBRIDGE	118.	WDXY	SUMTER
6.	KPPR	GLOBE	61.	WJEJ	HAGERSTOWN	119.	KCCR	PIERRE
7.	KBWA	WILLIAMS	62.	WHAI	GREENFIELD	120.	WBEJ	ELIZABETHTON
8.	KVRC	ARCADELPHIA	63.	WOCB	W. YARMOUTH	121.	WEKR	FAYETTEVILLE
9.	KTLO	MOUNTAIN HOME	64.	WATP	CADILLAC	122.	WBIR	KNOXVILLE
10.	KWAK	STUTTGART	65.	WCBY	CHEBOYGAN	123.	WKDA	NASHVILLE
11.	KPIY	CRESCENT CITY	66.	WJPD	ISHPEMING	124.	MEDG	SODDY DAISY
12.	KOAD	LEMOORE	67.	WJTM	LANISING	125.	WENK	UNION CITY
13.	KMBY	MONTEREY	68.	WMFG	HIBBING	126.	KVLF	ALPINE
14.	KPPC	PASADENA	69.	KPRM	PARK RAPIDS	127.	KXYL	BROWNWOOD
15.	KLOA	RIDGECREST	70.	WJON	ST. CLOUD	128.	KTAM	BRYAN
16.	KROY	SACRAMENTO	71.	WMPA	ABERDEEN	129.	KOCA	KILGORE
17.	KBON	SAN BERNARDINO	72.	WGRM	GREENWOOD	130.	KSOX	RAYMONDVILLE
18.	KSON	SAN DIEGO	73.	WGCM	GULFPORT	131.	KXOX	SWEETWATER
19.	KSMA	SANTA MARIA	74.	WMTS	NATCHEZ	132.	WSKI	MONTPELLIER
20.	KSUE	SUSANVILLE	75.	KFMO	FLAT RIVER	133.	WSSV	PETERSBURG
21.	KRDO	COLORADO SPRINGS	76.	KWOS	JEFFERSON CITY	134.	WROV	ROANOKE
22.	KDGO	DURANGO	77.	KNEM	NEVADA	135.	WTON	STAUNTON
23.	KSIV	MONTTE VISTA	78.	KGRZ	BILLINGS	136.	KXIE	ELLENSBURG
24.	KCRT	TRINIDAD	79.	KLTZ	GLASGOW	137.	KGY	OLYMPIA
25.	WMCQ	WATERBURY	80.	KLYQ	HAMILTON	138.	WKQY	BLUEFIELD
26.	WBGC	CHIPLEY	81.	KBLL	HELENA	139.	WTTP	CHARLESTON
27.	WJCO	EUSTIS	82.	KFOR	LINCOLN	140.	WDNE	ELKINS
28.	WINK	FT. MYERS	83.	KODY	NORTH PLATTE	141.	WOMT	MANITOWOC

1240 Khz (Domestic Only)

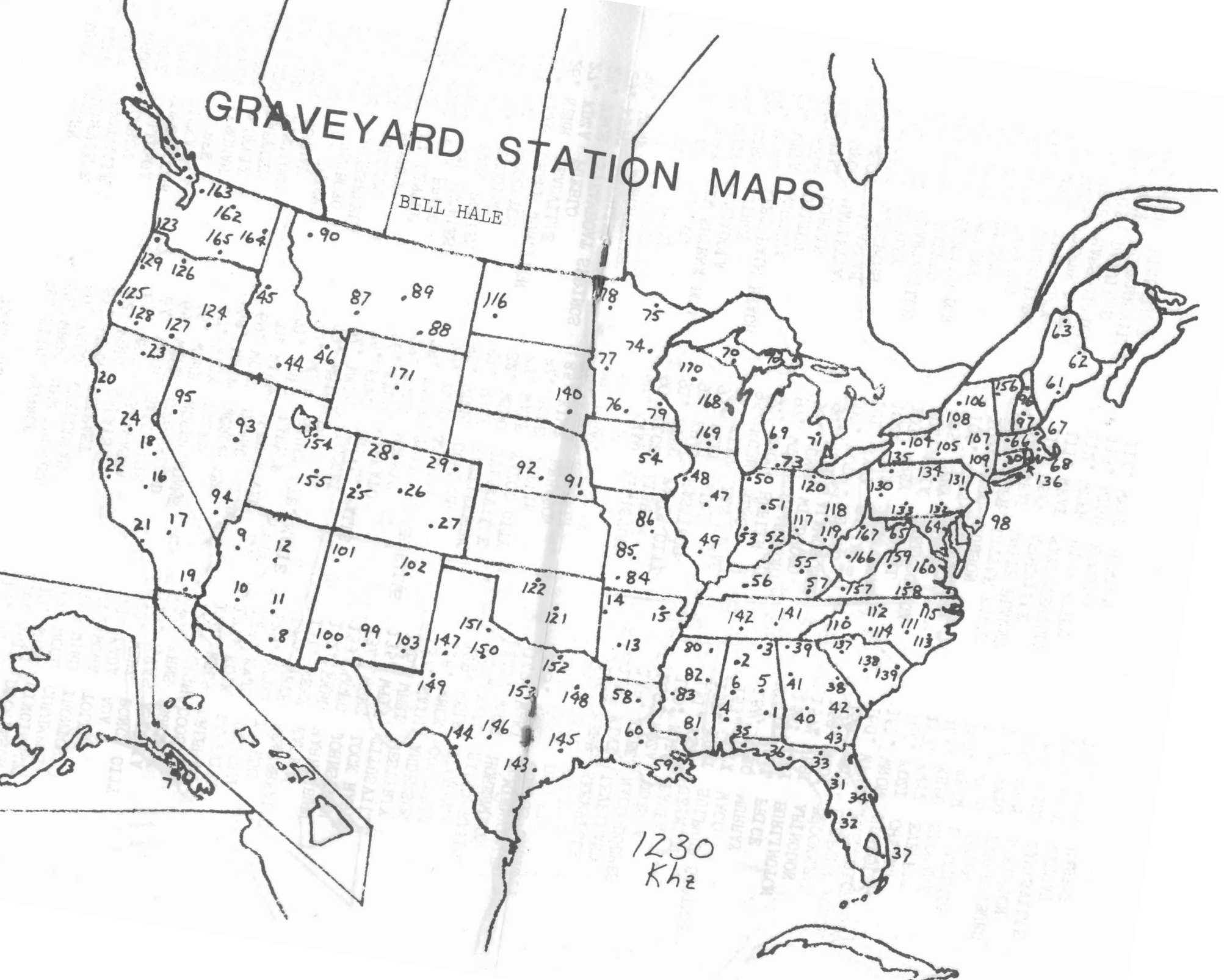
1230 Khz (Domestic Only)

- |          |                   |          |                   |           |                |
|----------|-------------------|----------|-------------------|-----------|----------------|
| 1. WAUD  | AUBURN            | 58. KLIC | MONROE            | 115. WCBT | ROANOKE RAPIDS |
| 2. WJBB  | HALEYVILLE        | 59. WBOK | NEW ORLEANS       | 116. KDIX | DICKINSON      |
| 3. WBHP  | HUNTSVILLE        | 60. KSLO | OPELOUSAS         | 117. WUBE | CINCINNATI     |
| 4. WHOD  | JACKSON           | 61. WBMS | BELFAST           | 118. WCOL | COLUMBUS       |
| 5. WNTZ  | TALLEDEGA         | 62. WQDY | CALAIS            | 119. WIRO | IRONTON        |
| 6. WTBC  | TUSCALOOSA        | 63. WSJR | MADAMASKA         | 120. WQWA | TOLEDO         |
| 7. KITW  | SITKA             | 64. WTHH | BALTIMORE         | 121. KADA | ADA            |
| 8. KSUN  | BISBEE            | 65. WCMD | CUMPERLAND        | 122. WBBZ | PONCA CITY     |
| 9. KAAA  | KINGMAN           | 66. WNNB | NORTH ADAMS       | 123. KVAS | ASTORIA        |
| 10. KRIZ | PHOENIX           | 67. WFSX | SALEM             | 124. KRNS | BURNS          |
| 11. KATO | SAFFORD           | 68. WNEB | WORCESTER         | 125. KHSN | COOS BAY       |
| 12. KINO | WINSLOW           | 69. WCUZ | GRAND RAPIDS      | 126. KPDR | GRESHAM        |
| 13. KCON | CONWAY            | 70. WTKB | IRON RIVER        | 127. KQIK | LAKEVIEW       |
| 14. KFPM | FT. SMITH         | 71. WMPG | LAPEER            | 128. KYJC | MEDFORD        |
| 15. KBTM | JONESBORO         | 72. WSOO | SAULT STE. MARIE  | 129. KTDO | TOLEDO         |
| 16. KCEE | BAKERSFIELD       | 73. WSTR | STURGIS           | 130. WBVP | BEAVERFALLS    |
| 17. KWTC | BARSTOW           | 74. WKIK | CLOQUET           | 131. WEFX | EASTON         |
| 18. KIBS | BISHOP            | 75. KGHS | INT'L. FALLS      | 132. WKBO | HARRISBURG     |
| 19. KYXO | EL CENTRO         | 76. KYSM | MANKATO           | 133. WCRO | JOHNSTOWN      |
| 20. KDAC | FT. BRAGG         | 77. KPRS | MORRIS            | 134. MBPZ | LOCK HAVEN     |
| 21. KKTT | LOS ANGELES       | 78. KTRF | THIEF RIVER FALLS | 135. WTVV | TITUSVILLE     |
| 22. KPRL | PASO ROBLES       | 79. KWNO | WINONA            | 136. WERI | WESTERLY       |
| 23. KRDG | REDDING           | 80. WCMA | CORINTH           | 137. WAIM | ANDERSON       |
| 24. KWG  | STOCKTON          | 81. WHSY | HATTESBURG        | 138. WNOK | COLUMBIA       |
| 25. KEXO | GRAND JUNCTION    | 82. WSSO | STARKVILLE        | 139. WOLS | FLORENCE       |
| 26. KBRR | LEADVILLE         | 83. WAZP | YAZOO CITY        | 140. KISD | SIOUX FALLS    |
| 27. KDZA | PUEBLO            | 84. KODE | JOPLIN            | 141. WMIR | HOHENVAID      |
| 28. KBGR | STEAMBOAT SPRINGS | 85. KIMT | LEBANON           | 142. WAKI | MCMINNVILLE    |

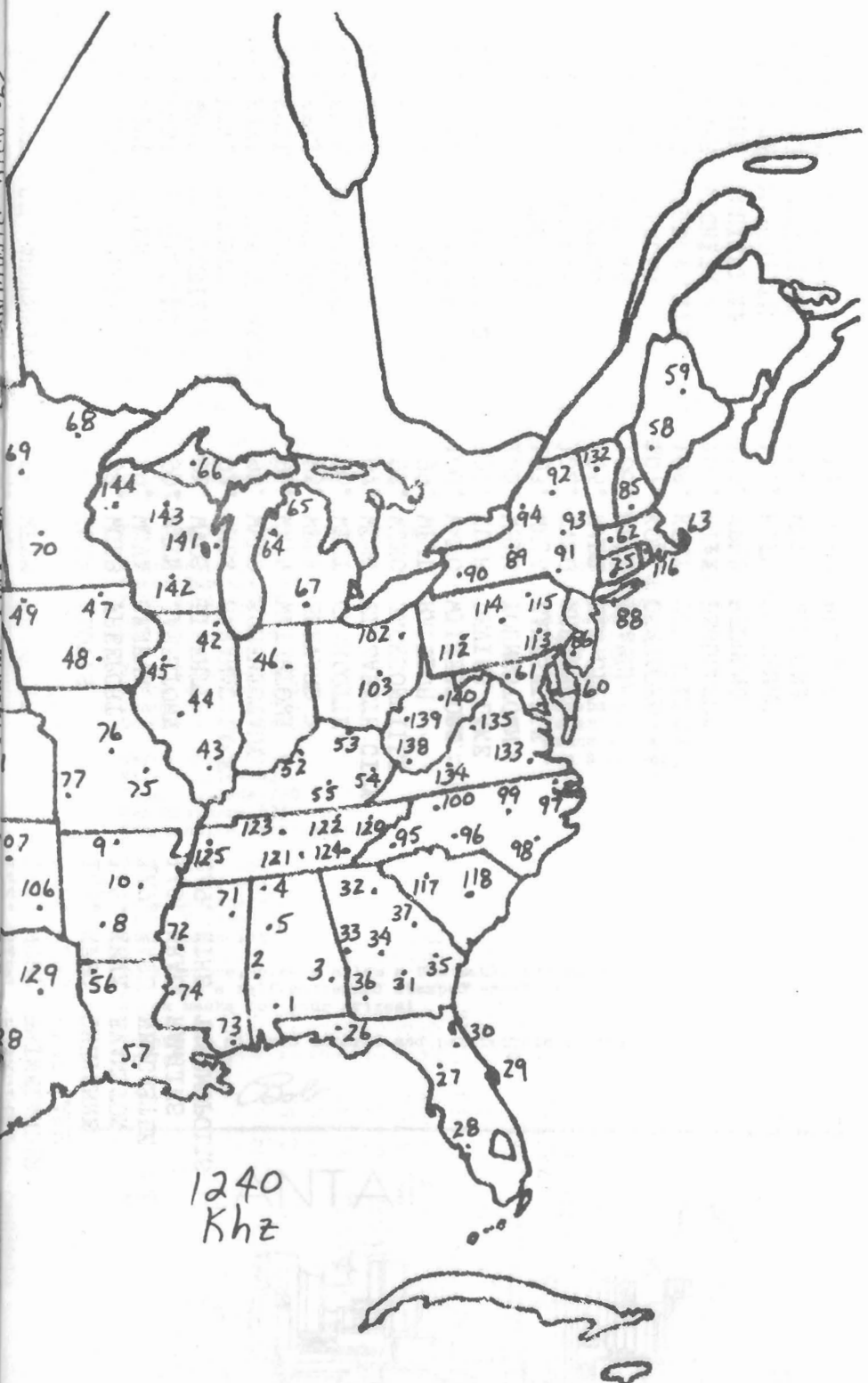


# GRAVEYARD STATION MAPS

BILL HALE



163  
123 162  
165 164  
129 126  
125 128 127 124  
145  
20 23 44 46  
24 18 95 93 154 28 29  
22 16 94 155 25 26  
21 17 9 12 101 102 92 91 54  
19 10 11 8 100 99 103 147 150 92 91 54  
144 146 145 60 86 85 84 49 48 50 51 120 118 117 119 167 65 64 98  
143 59 80 2 3 39 137 138 139 110 112 111 115 113  
82 6 5 41 38 83 4 1 40 42 81 35 36 33 31 34 32 37  
178 75 77 74 70 70 76 79 168 69 71 73 135 134 131 130 133 132 106 108 107 109 104 105 66 67 68 61 62 156 97 63 136



- 27. WOL MANCHESTER
- 30. WINF GAINESVILLE
- 31. WGGG LAKELAND
- 32. WNNN MADISON
- 33. WMAF NEW SMYRNA BCH.
- 34. WSBF PENSACOLA
- 35. WNVY QUINTCY
- 36. WCNH WEST PALM BEACH
- 37. WJNO AUGUSTA
- 38. WBLA DALTON
- 39. WBLJ DUBLIN
- 40. WXLI MARIETTA
- 41. WFOM SAVANNAH
- 42. WSOK SPARTA
- 43. WAYX BURLEY
- 44. KBAR GRANGEVILLE
- 45. KORT REXBURG
- 46. KRKX BLOOMINGTON
- 47. WJBC MOLINE
- 48. WQUA SPARTA
- 49. WHCO HAMMOND
- 50. WJOB LOGANSPORT
- 51. WSAL TEIL CITY
- 52. WTCJ TERRE HAUTE
- 53. WBOW MARSHALLTOWN
- 54. KFJB DANVILLE
- 55. WHIR HOPKINSVILLE
- 56. WHOP PINEVILLE
- 57. WANO
- 80. WMLA BOZEMAN
- 87. KBNM HAZARDIN
- 88. KHDN LEMISTOWN
- 89. KXLO LIBBY
- 90. KLCB FALLS CITY
- 91. KTNC HASTINGS
- 92. KHAS ELY
- 93. KEKY LAS VEGAS
- 94. KLVY RENO
- 95. KCBN BERLIN
- 96. WMOV CLAREMONT
- 97. WTSV WILDWOOD
- 98. WCMC ALAMOGORDO
- 99. KALG DEMING
- 100. KOTS GALLUP
- 101. KYVA LAS VEGAS
- 102. KFUN ROSWELL
- 103. KRST CHEEKTOWAGA
- 104. WNTA EIMIRA
- 105. WENY GOVERNOUR
- 106. WIGS HUDSON
- 107. WHUC LITTLE FALLS
- 108. WLFH WHITE PLAINS
- 109. WFLS ASHEVILLE
- 110. WSKY FAYETTEVILLE
- 111. WFAI HIGH POINT
- 112. WAFR KINSTON
- 113. WISP NEWTON
- 114. WNNC
- 143. KSIX CORPUS CHRISTI
- 144. KDJK DEL RIO
- 145. KNUZ HOUSTON
- 146. KERV KERRVILLE
- 147. KLVN LEVELLAND
- 148. KEEB NACOGDOCHES
- 149. KOZA ODESSA
- 150. KGRO PAMPA
- 151. KSEY SEYMOUR
- 152. KSSST SULPHUR SPRINGS
- 153. KMTX WACO
- 154. KPRQ MURRAY
- 155. KOAL PRICE
- 156. WJOY BURLINGTON
- 157. WBBI ABINGDON
- 158. WODI BROOKNEAL
- 159. WXCF CLIFTON FORGE
- 160. WFVA FREDERICKSBURG
- 161. WNOR NORFOLK
- 162. KOZI CHELIAN
- 163. KMYZ EVERETT
- 164. KSPD SPOKANE
- 165. KREW SUNNYSIDE
- 166. WLOG LOGAN
- 167. WKYG PARKERSBURG
- 168. WHBY APPLETON
- 169. WCLO JANESVILLE
- 170. WXCX MAUSAU
- 171. KVOC CASPER

BOB WALKER  
2220 W. HWY. 524  
WESTPORT, KY 40077

# CONTESTS

The 1977-78 Contest Season has come to a close and our Grand Prize winner is Mike Heppe of Houston, Mississippi. Mike wins a Broadcasting Yearbook for his efforts over the past year. Mike along with our other seven mini-winners also deserve our congratulations. The standings in the last two contests went as follows:

VII--Nancy Hardy-111  
Bill Hardy - 93\*  
Paul Mount - 65  
Frank Wheeler-29

VIII--Paul Mount-263  
Mike Heppe -132  
Gordon Anderson-122  
Frank Wheeler-101\*  
Bill Hardy-84  
Nancy Hardy-69  
Mike Tuggle-43

The above asteriked winners please notify me as to what prizes you would like to receive.

Now for the final statistics:

Mike Heppe-3,284  
Nancy Hardy-1,965  
Bill Hardy-1,791  
Harold Cox-1,776  
Paul Mount-1,574

John Kromka-1,438  
Frank Wheeler-1,083  
James Hicks-1,024  
Gordon Anderson-984

Wayne Heinen-752  
Mike Tuggle-742  
James Wallace-720  
Sam Brainerd-635  
Konstantine Rychalsky-525

Doug Allen-464  
Jack Staff-403  
Jack Faulkner-320  
Harry Hayes-269  
Mike Hogan-145

To everyone, please allow a few weeks for your certificates (if you sent a self-addressed stamped envelope). Also please allow a few weeks for your prizes!

Thanks to all who entered and participated, I've enjoyed doing it for you!

73s.

*Bob*

## ATLANTA!!!!



27.	WFOY	ST. AUGUSTINE	04.	WFTN	FRANKLIN	142.	WIBU	POYNETTE
30.	WBHB	FITZGERALD	85.	WSNJ	BRIDGEFON	143.	WOBT	RHINELANDER
31.	WDUN	GAINESVILLE	86.	KGLV	CLOVIS	144.	WJMG	RICE LAKE
32.	WLAG	LA GRANGE	87.	WGBB	FREERPORT	145.	KPBC	CHEYENNE
33.	WBML	MACON	88.	WGVA	GENEVA	146.	KEVA	EVANSTON
34.	WVNS	STATESBORO	89.	WJTN	JAMESTOWN	147.	KASL	NEWCASTLE
35.	WPAX	THOMASVILLE	90.	WVOS	LIBERTY	148.	KRAL	RAWLINS
36.	WTWA	THOMSON	91.	WNBZ	SARANAC LAKE	149.	KTHE	THERMOPOLIS
37.	KVNI	COEUR D'ALENE	92.	WVMD	SCHENECTADY			
38.	KMCI	MC CALL	93.	WATN	WATERTOWN			
39.	KFLL	MOUNTAIN HOME	94.	WPNF	BREVARD			
40.	KWKI	POCATELLO	95.	WIST	CHARLOTTE			
41.	WEDC	CHICAGO	96.	WCNC	ELIZABETH CITY			
42.	WCRW	CHICAGO	97.	WJNC	JACKSONVILLE			
	WSBC	CHICAGO	98.	WPJL	RALEIGH			
43.	WEBQ	HARRISBURG	99.	WVWC	MIKESBORO			
44.	WTAX	SPRINGFIELD	100.	KDIR	DEVILS LAKE			
45.	WSDR	STERLING	101.	WBBW	YOUNGSTOWN			
46.	WHBU	ANDERSON	102.	WHIZ	ZANESVILLE			
47.	KDEC	DECORAH	103.	KVSO	ARDMORE			
	KWLC	DECORAH	104.	KADS	ELK CITY			
48.	KBIZ	OTTUMWA	105.	KBEL	IDABEL			
49.	KICD	SPENCER	106.	KOKL	OKMULGEE			
50.	KIUL	GARDEN CITY	107.	KFLY	CORVALLIS			
51.	KAKE	WICHITA	108.	KTIK	PENDLETON			
52.	WINN	LOUISVILLE	109.	KPRB	REDMOND			
53.	WFTM	MAVSVILLE	110.	KQEN	ROSEBURG			
54.	WPKE	PIKEVILLE	111.	WPTA	ALTOONA			
55.	WSFC	SOMERSET	112.	WHUM	READING			
			113.					

# 12 VOLT CONVERTER

ERIC ROSSITER

DXing in the boondocks with a decent portable such as the Realistic TRF can be rewarding, but, in the case of some receivers, expensive due to their voracious appetite for dry cells. Your auto battery, however, will be pleased to freely donate some surplus amperes, albeit at 12 volts.

The following circuit will reduce the voltage to a well-regulated 6V, up to 1A, exactly to the taste of many radios and recorders.

Construction is simple and flexible but the IC regulator must be heat sunk. If a metal case is used it can serve by bolting the component to it, preferably with a thin layer of heat sink compound between the regulator copper plate and the bare metal of the case.

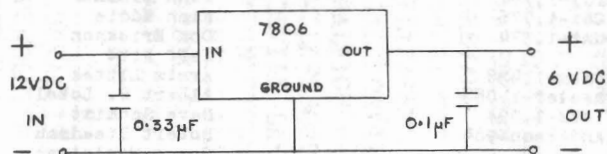
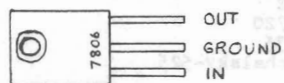
Connect the output via alligator clips or wired-in binding posts to the battery holder in the set and the input to the cigarette lighter socket through an adaptor.

Parts:

- 1 - 7806 3-terminal voltage regulator
- 1 - 0.33 $\mu$ f capacitor
- 1 - 0.1 $\mu$ f capacitor

Hardware and heat sink compound

All parts are available from Radio Shack except the 7806. The latter or a substitute are widely available elsewhere.

TOP  
VIEW

NRC 1978  
CONVENTION  
SEPT. 1-4

*See ya there!*  
*Plan now!*

## GET-TOGETHERS

**July 28-30** WTPDA Convention in Louisville at the Holiday Inn Southeast, same site as for the 1976 NRC Convention. Agenda includes a unique DXpedition on the steamboat Belle of Louisville. Banquet speaker will be Clarence Henson, builder of the first WHAS FM station in the 1940s and owner of 4 AM and FM stations. Also there will be several station tours, tech sessions by experts on TV and FM DX and SCA reception, equipment displays. Registration is \$17.50 in advance or \$20.00 at the door. Motel rates are \$18 single, \$12 per person double and \$11 each in a triple. For more info contact Ted Fleischaker, 3023 Tremont Drive, Louisville, KY 40205, or phone (502) 451-5558.

**July 30** United World Radio DX Club will hold a get-together at the Cagle Terrace Meeting Hall, Renford Drive, Knoxville, TN starting at 1:30 p.m. For details write UWRDXC, Box 1075, Elizabethton, TN 37643. Enclose a SASE.

**August 11-13** International Radio Club of America (IRCA) Convention in Portland, Oregon, at the Flamingo Motel, 9727 N.E. Sandy Boulevard. They have planned an active schedule with guest speakers, tours of KYXI-1520 and KGON-92.3, DX lectures, a picnic on Sunday and the annual business meeting and banquet. A Saturday night auction is planned. Registration fee is \$16.50. For those not wishing the banquet the fee is \$11.50. Room rates are \$21.50 single, \$22.50 double, \$24.50 two people/two beds, and \$4 for each additional person. Room rates do not include 5% tax. For more information contact Bill Block, 9307 S.E. Clay St., Portland, OR 97216, but HURRY, as registration forms must be in by August 8th. A registration form was in DX News June 12.

**August 11 and September 8** Minnesota DX Club gatherings in Minneapolis. This group meets monthly and details can be obtained from 5212 Drew South, Minneapolis, MN 55410. They cover SW and MW.

**September 1-4** Where else but in Atlanta for the annual NRC Convention? The registration appears elsewhere in this issue. Be there!

**September 10** New England DXers Outing at Black Rock State Park, Watertown, CT. This is the 3rd year for this event. DX gear and equipment will be displayed at a "Sell and Swap-athon". For details write Sam Barto, 245 Cherry Ave., J-11, Watertown, CT 06795. Enclose a SASE please for reply.

**October 12-15** DX Camp in Essen, West Germany. This is the 3rd year for this all-wave event. Information from Kurzwellenfreunde Rhein-Ruhr, P.O. Box 600 384, D-4630, Bochum-Wattenscheid 6, Federal Republic of Germany. See 3 IRCs for reply.

### Shots fired at cable put radio station off air

PITTSBURGH (AP) — A series of shots fired at a WAMO-FM radio transmission cable 90 minutes after a controversial talk show caused an estimated \$30,000 damage and knocked the station off the air, station officials said.

The shooting at a Reserve Township transmitter tower temporarily knocked WAMO's sister station, WYJZ-AM, off the air as well for about an hour Saturday.

Chief Engineer Dana Puopolo estimated it would be several weeks before full power is restored to WAMO, which operates on 72,000 watts.

The shooting occurred shortly after a public affairs talk show during which host Bev Smith criticized prison officials for their treatment of black inmates.

"It was a very controversial program," Puopolo said. "They got a lot of calls. A lot of people were really upset."

He said the station was expected to resume broadcasting on limited power late Sunday using a temporary transmission system airlifted to Pittsburgh from Indiana.

The incident is under investigation by the FBI, Puopolo said. He said several shots were fired into a 270-foot cable. The AM station does not use the same transmission cable.

"A transmission line has dry air in it. It has to be completely free of contamination," he said. "When this one was hit, it started on fire. Some of the smoke got inside, making it useless."

CLIPS, CLIPS, CLIPS!

WE NEED THEM. SEND

YOUR CONTRIBUTIONS

TO HQ. NOW, PLEASE.





# ITU FREQUENCY ALLOCATIONS & THEIR IMPACT ON TA DX'ING

Mark Connelly

We shall soon be embarking upon a new era in international medium-wave DXing. This should occur in November when the new frequency allocation scheme takes effect. As a trans-Atlantic DXer of some experience, I feel that I may have a few ideas to assist the TA hunter next winter.

The first step in judging what will be heard is to analyse existing reception patterns governing the ease of hearing different areas of Europe and Africa along the "northeast corridor" from Virginia to Maritime Canada. The two major criteria to specify reception paths are the bearing (degrees east of north) and the distance. From the standpoint of ease of reception, empirical data culled from years of listening points to the fact that stations whose bearing is farthest south (minimising the effects of auroral disruptions) and those whose distance is the shortest are those most consistently heard.

Conditions have been analysed in terms of the probability of hearing TA's; receiving conditions have been broken down into four categories: minimal, marginal, good (normal winter), and excellent. These are defined as follows:

**Minimal night:** The worst auroral conditions. Domestic are weakened and Latin American stations dominate. Only TA's are weak carriers from Senegal and Guinea.

**Marginal night (normal spring):** Short/medium skip domestics prevail. TA's in Africa from Mauritania southward. Algeria, Morocco, Portugal occasionally in. Spotty (fluttery) reception of high-powered Germans at European dawn on the high end of the band.

**Good night (normal winter):** Local sunset - wide open to Spain, Portugal, Morocco, Algeria, Andorra, France, Monaco, Italy, Albania and British Isles. Low band stations are favored over high-banders. European sunrise - most of those countries audible at local sunset plus other countries on a more northerly bearing such as Holland, Luxembourg, Germany, Switzerland, Austria and Czechoslovakia, will show. This time the higher frequency stations "win out".

**Excellent night:** Band wide open to Europe from an hour before local sunset to an hour after western European sunrise. Southern Scandinavia (Stavanger, Norway and Hørbø, Sweden) and eastern Europe (Poland, Romania, Bulgaria) audible. High-powered Middle East stations may show. The possibility of logging numerous low-powered British locals becomes viable for DXers in New England and Atlantic Canada. Africans tend to be pushed into the background by the stronger and more numerous Europeans.

## Nights Per Month Analysis

Conditions	WINTER	SPRING	SUMMER	AUTUMN	
Minimal	9	12	13	7	A month is defined as 30 days.
Marginal	9	12	12	8	
Good	10	5	5	11	
Excellent	2	1	0	4	

An insight into which countries will be most easily heard is given in the list that follows. I have broken up the European, Asian and African region into reception zones specified by a number from 1 (most southerly bearings) to 4 (most northerly bearings) and by a letter from A (shortest distance) to E (greatest distance). The reception-probability factor reflects the ease of

**Editor's Notes:** This article uses the ITU Frequency Plan list which appeared in the Oct. 31, 1977 DX News. The list is also available as reprint P1 - 8 pages - available from NRC Publications Center. Please use the order form found in the May 15, 1978 DX News.

Mark's predictions are based on authorized powers and some stations may come on the air with lower power at first, or may not even be on the air when the ITU plan takes effect on November 28, 1978. You will note some prominent current stations did not appear on the ITU Frequency Plan list--and may affect the predictions when they reappear on their new assigned frequency.

hearing a given country compared to others if power and frequency are the same.

Reception Probability Factor	Zone	Countries
8.0	2A 1A	Azores, Portugal, Spain, Madeira Islands (no land areas)
7.5	2B	Morocco, Algeria, Tunisia, NW Libya, s. Italy, s. France, Albania, Monaco, Andorra
6.0	3A 1B	British Isles Senegal, Guinea, Sierra Leone, Guinea-Bissau, Gambia, Mali, Mauritania
5.0	3B	n. France, n. Italy, Yugoslavia, Hungary, Czechoslovakia, Germany, Belgium, Holland, Luxembourg, Austria, Switzerland, Poland
3.0	1C	Liberia, Upper Volta, Ivory Coast, Ghana, Togo, Benin, Niger, Nigeria, w. Chad, Cameroon
2.5	2C 3C	s. Libya, NW Egypt, Israel Syria, Lebanon, Turkey, Greece, Bulgaria, Romania, Ukraine SSR, Armenian SSR
2.0	1D	Angola, Gabon, Zaire
1.0	4A	Iceland, Faeroe Islands
0.5	2/3D 4B	Jordan, Iraq, Saudi Arabia, Iran Norway, Sweden, Denmark, Finland, Russia, Baltic USSR
0.4	1E	SW Africa (Namibia), S. Africa, Botswana, Mozambique, Zambia, Rhodesia, Kenya, Tanzania, Malawi
0.2	4C 4D	easternmost European USSR/SW Siberia w. China (Sinkiang), Mongolia, n. India, NW Siberia, Afghanistan, Pakistan

In terms of power, a 100 kW. Portugese station is on equal terms with a co-channel 500 kW. German station.

Now, on to the

## PREDICTIONS

Freq.	Most Likely Heard
531	Algeria will dominate most nights. Faeroe Islands possible during excellent conditions.
540	Morocco possibly o/u CBT at local sunset on coast, not likely inland.
549	Algeria o/possible German; USSR and Saudi Arabia are remote possibilities.
558	Likely to be a nearly dead channel. Libya, Egypt, and Switzerland possible contenders during excellent conditions.
567	Morocco o/u Ireland.
576	Same battle as present 575 mess: West Germany/Algeria o/East Germany and Bulgaria.
585	3-way dogfight w/Spain o/Tunisia and Austria.
594	West Germany should dominate.
603	Weak 3-way between France, Cyprus and Egypt.
612	Morocco atop Yugoslavia and Ireland.
621	Canary Islands o/u Belgium.
630	Domestics.
639	Spain o/Czechoslovakia.
648	England o/Morocco, Albania, Saudi Arabia.
657	East Germany after 0400 GMT, weak Italy earlier.
666	Portugal o/West Germany.
675	France o/Ireland and possible LA QRM. Holland also possible.
684	Spain o/Yugoslavia.

- 693 England o/East Germany during European openings. Zaire possibly in during African conditions.
- 702 Morocco o/Andorra per present 701 status. Monaco doubtful because of directional antenna.
- 711 Morocco o/u France.
- 720 Portugal will be heard at coastal locations at local sunset o/possible Tunisia/Canary Islands before WGN/CMGN fade in.
- 729 Interesting possibilities including Ireland, Greece and Morocco.
- 738 Spain o/Algeria, both o/Poland and Israel.
- 747 Holland dominant during conditions favoring N. Europe. Several 100 kW Africans listed--Upper Volta is not among them.
- 756 Portugal o/u West Germany, both o/Romania. 250 kW Nigerian remotely possible during auroral conditions.
- 765 Senegal o/Ireland, Switzerland, Turkey. Saudi Arabia unlikely to dominate.
- 774 Spain o/u Morocco, both o/Egypt.
- 783 Portugal o/East Germany. Syria unlikely.
- 792 France o/Greece, neither strong under average conditions.
- 801 Morocco o/u West Germany (Present Spanish outfit on 800 not listed). Zambia probable during African openings.
- 810 Domestic. England possible at sunset from Nova Scotia/Newfoundland.
- 819 Morocco o/u Andorra, both o/Poland and Egypt. Zambia possible during African conditions.
- 828 Morocco o/u Libya, both o/Bulgaria. (Spanish outfit now on 827 not listed).
- 837 France o/Lebanon.
- 846 Italy should dominate.
- 855 Spain o/Romania/West Germany during European conditions. Ivory Coast a good African opening possibility.
- 864 Morocco o/u France.
- 873 West Germany o/Moldavian USSR. (Spain now on 872 not listed).
- 882 England o/East Germany/Yugoslavia during European conditions. Numerous Africans possible, Ivory Coast most likely to be heard.
- 891 Algeria/Ireland o/Austria.
- 900 Domestic. Italy possible at sunset from Cape Code and Atlantic Canada during topnotch conditions.
- 909 4-way battle among England, West Germany, Algeria and Morocco. Conditions and operating schedules will decide dominance.
- 918 Spain and Yugoslavia.
- 927 Belgium will usually dominate. Guinea looks like a reasonable African conditions possibility.
- 936 Morocco well o/Ukraine SSR. Benin, West Germany and Mozambique are unlikely.
- 945 France should be the boss here, LA QRM permitting. Saudi Arabia a longshot for the phased-beverages crowd.
- 954 Spain/Czechoslovakia atop, Qatar sneaking in under during prime conditions.
- 963 Tunisia should prevail.
- 972 West Germany o/Morocco. Neither strong during average conditions.
- 981 Algeria should be loud here. Last year on my trip to Ireland, they had a monster signal on 980.
- 990 Domestic.
- 999 Malta/Mauritania possible contenders here.
- 1008 Holland o/Morocco during European openings. Upper Volta possible during deep African conditions.
- 1017 West Germany o/u Turkey.

- 1026 Spain/Austria yielding audio during better openings.
- 1035 Portugal o/Egypt. Iraq not listed. Haiti will be a problem here.
- 1044 Morocco o/East Germany.
- 1053 England o/u Morocco, both o/Romania.
- 1062 Portugal o/Guinea (Guinea-Bissau?) and Denmark.
- 1071 France may occasionally show through CBA QRM.
- 1080 Domestic.
- 1089 England o/Albania.
- 1098 Czechoslovakia should dominate o/the other stations listed. (Spain and Canary Islands absent from list).
- 1107 Spain/Egypt o/West Germany and Lithuanian SSR.
- 1116 Morocco/Italy.
- 1125 Libya/Belgium o/Bulgaria. (Spain not listed).
- 1134 Yugoslavia/Spain dominant. Kuwait a distant possibility.
- 1143 Ireland/Algeria possible, neither likely to be strong. (AFN now on 1142 not listed).
- 1152 Romania will be in during good-excellent conditions.
- 1161 France should dominate.
- 1170 USSR/Algeria o/u WVLC at local sunset in Newfoundland on beverage, otherwise, no TA's here.
- 1179 Sweden o/u Malta may show during good-excellent openings. Of course, we'll get grief from WHAM.
- 1188 Belgium/Hungary will make occasional appearances here (along w/TGT pest).
- 1197 VOA Munich, West Germany should be dominate here during above-average conditions. (Morocco not listed).
- 1206 France o/Morocco.
- 1215 England/Albania o/Malta.
- 1224 Spain o/u Bulgaria.
- 1233 Morocco o/Czechoslovakia.
- 1242 France should clearly dominate.
- 1251 Libya well o/Hungary.
- 1260 Domestic.
- 1269 West Germany o/Yugoslavia.
- 1278 France should dominate, per present 1277 conditions. This one is weak for its power.
- 1287 Czechoslovakia will dominate. (Portugese stations now on 1286 not listed).
- 1296 England (and possibly Gibraltar). Sudan may be bagged here also.
- 1305 Algeria and Senegal may occasionally be heard here. Less frequently noted will be the Polish station.
- 1314 Spain weak during average conditions. Norway will dominate during good/excellent periods. United Arab Emirates a longshot.
- 1323 East Germany atop Algeria.
- 1332 Italy alone on channel.
- 1341 BBC Northern Ireland o/Hungary during European conditions. Canary Islands/Guinea on low-latitude nights.
- 1350 France o/Mauritania possible from coastal locations before sunset where domestics are not a problem.
- 1359 Megawatter listed for Spain should be a local-like pest many nights.
- 1368 Senegal possible during African conditions. Morocco (probably weak) during normal conditions. Poland may show during excellent conditions.
- 1377 France o/Morocco.
- 1386 Liechtenstein will be dominant here, a new country for all. Guinea possible during auroral conditions.
- 1395 Albania, Holland and Spain -- 3-way here with conditions and program schedules determining dominance.

- 1404 Guinea will usually dominate; France will show during conditions favoring high-latitude paths.
- 1413 Spain o/u Yugoslavia.
- 1422 West Germany o/Algeria.
- 1431 Portugal o/East Germany on average nights. Denmark unlikely to dominate. Mali and Afars-Issas loom as good African possibilities.
- 1440 Luxembourg may show at local sunset from coastal locations not near 1440 domestics. Not likely after sunset.
- 1449 Italy should be heard during good conditions.
- 1458 Albania o/England should be normal situation. Mali likely on African dominated nights.
- 1467 Monaco should be its usual loud self here with negligible competition.
- 1476 Austria generally o/Spain. Guinea/Benin possible during AU conditions.
- 1485 British locals possible on best TA nights.
- 1494 France possible at weak level. USSR possible on excellent nights. (Ivory Coast on 1493 not listed).
- 1503 Poland o/u Spain.
- 1512 Belgium well o/Yugoslavia and Saudi Arabia.
- 1521 Czechoslovakia o/Tunisia. Saudi Arabia and China possible during unusual conditions.
- 1530 Vatican possible at or before local sunset from Cape Cod and Atlantic Canada.
- 1539 West Germany may occasionally make it through the usually-invincible 1540 slop.
- 1548 Vinnitza, Ukraine the only likely listed possibility. (British locals not listed).
- 1557 France and Malta will likely be the contenders. India an enticing possibility for pre-sunset beverage reception.
- 1566 Tunisia o/Switzerland.
- 1575 East Germany o/Italy.
- 1584 British and other locals may show under the best possible conditions.
- 1593 Langenberg, West Germany should dominate with its usual excellent signal.
- 1602 Unlikely to yield any receptions with 1 kW. the maximum power and the likes of WWRL and WUNR with which to contend.

The list above should clearly demonstrate that some countries will become easier for us to hear, such as Malta and Liechtenstein. Others, chiefly those presently on channels ending in 9 who will be moving to channels ending in 0, will get more difficult to hear. Vatican, Luxembourg and Mauritania fall into this latter category.

Radio News for September, 1923

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## MUSINGS

The opinions expressed in this column are those of the individual members, and do not necessarily reflect those of the editors, publishers or NRC.

### NEIL VISITS WAYNE; SKIP VISITS NEIL

NEIL ZANK - 2445 "E" Street - Apt. 6 - Lincoln, Nebraska - 68510

My DX results and time spent have reached a standstill around here by now. A few catches since last Muse are listed here: 3/25- WLB-1450 Marshfield, Wis. popped up for an ID & about one minute of programming after midnight one night. KDAY-1580 Santa Monica, Cal. for a report, not very common reception here. 3/27- WXAP-860 ATLANTA, logged on TEST for about 15 minutes, fair signal. 3/26- XEMR-1140 Monterrey pretty good during WRVA's SP while ROB KENEY was visiting at my location. The morning of 3/28, XEVK-1010 Torreon, was heard at dawn. 3/31- KKOW-1420 Hot Springs, Ark. noted on for five minutes 6:10-6:15am ET w/TT & ET ID - I suspect this was a f.o. 5/8- KMAV-1520 Mayville, N.D. on for ET w/s/w mx & IDs; sorry about those people whom I notified about a supposed TEST from KKEE Rochester, Minn. at this time. A "no show", but I hope they got KMAV instead. 5/16- YEABC-760 Mexico City noted at dawn while trying for Hawaii or New Zealand. The second & third week of April were spent on a trip West by car ending up at Tucson, Arizona. Some local stations were taped and photographed along the way. On the return trip a nice overnight stop was made at Colorado Springs staying with the Pike's Peak DXer & spouse - thanks, WAYNE HEINEN! Any of you people who are travelling this Summer along I-80 are invited to get in touch with me when passing the Lincoln area. FM DX has not broken open for me yet, but I am standing by for it. I had a couple hours' visit from SKIP DABELSTEIN last night as he was in town. I hope that the rest of you will take a short time to Muse this Summer so that when we all receive DX NEWS there will be something to read about in Musings of the Members. Watch for a new directional MW antenna from K-tal, hi. 73's.

### LAMENTS DROPPING THREE-LETTER CALLS

GARY SIEGEL - 2728 106th Street - Toledo, Ohio - 43611

Time for another Muse so here goes. The biggest DX news around here will be the changing of call letters by WWJ-TV-4 in Detroit to WDIV-TV some time in June, possibly about the time this sees print. The change results because Detroit's Evening News Association is swapping their TV station with WTOP-TV in Washington owned by Post-Newsweek. Likely WTOP-TV will also switch calls too. These two companies sought the sale by the FCC to avoid the wrath of the media duplcity rule. I sure hate to see an old three-letter call get changed but at least WWJ will still exist on radio. If I had to guess I'd say the D in WDIV will stand for Detroit and the IV for Roman numeral 4. Does anyone think I might be right on this? Probably the brickbat of the decade award goes to WRR-1310 in Dallas for being so absolutely foolish for wanting to change that old three-letter W call West of the Mississippi. Instead of switching to KAAM they should have requested KDOM because that is what they are! That's just my opinion folks but I put this change somewhere below the changes made by KOL & KTW in Seattle. Being equally fair the bouquet goes to KRE-1400 for reacquiring that call by giving up KPAT on their 50th anniversary. Sometimes I wonder what the broadcasting corporation heads use for brains. I guess only DXers realize the history and rarity associated with the three letter call. Changing those call signs is like melting down a 1913 Liberty nickel and restringing it to a 1978 date. No one in his right mind would do that, would he? Not much DX here lately. I recently added the following on 1340: WROD in Daytona Beach, CFBQ Parry Sound - this one used to be CKAR-1 relaying CKAR-630 Huntsville which is now CHUN but they also give the CFBQ call for Parry Sound - strange. Also on 1340 recently was CJAN in Asbestos, Que. Lots of French in for about four hours on 5/20 overnight. The other possible new one on 1340 is CKDK but I'm not sure where they are. Are they the old CKOX in Woodstock or someone else - help! (They ARE ex-CKOX -ERC) Also does anyone know the location of CELFT-9 on Channel 68? How about it, Canadian members? 73's.

### KORL MAY NOT BE YOUR BEST BET FOR HAWAII

BILL HARANG - 811 Nevada Avenue - San Jose, California - 95125

Although KORL-650 is the most widely heard Hawaiian station by DXers, I wouldn't say that they're always the first station every DXer hears. True, San Jose is different from much of the West Coast because of the Santa Cruz Mountains, but I've never heard KORL with what I'd personally consider an excellent or good signal. Their signal either seems to be fair or poor. Frankly, I feel KORL is a disappointing station for the type of wattage and frequency they have. Therefore, I feel that many DXers wanting to hear Hawaii shouldn't get their hopes too high on hearing KORL and have been disappointed time after time. In my personal experience, the first Hawaiian I heard was KPOI when they were on 1380. This was a shock to the San Jose group of DXers, since none of them heard it before. They all tried a few weeks later themselves and found this station to be a regular almost every MM ever since when they heard it themselves. Of course, later on, KEEN-1370 went NPY wrecking the 1380 frequency (at least) in this town by its slop. Now that KPOI switched frequencies, DXers may want to try on WHO's SP. The second Hawaiian station I heard was the Lihue station on 1350 before they switched their call letters to KIVH. This station came in with a very good signal regularly. Their signal came in so strong here that I feel KORL hasn't even come close enough to compare to it. I've heard KBU-760 & KIKI-830 and also agree that over here that I've heard them stronger than KORL when I've heard them. KGMB has been heard by DXers in this area, but this one is a toughie. So is the one on 550.

THE NEXT MUSINGS DEADLINE IS MONDAY, JULY 31st. LET'S MAKE IT A MID-SUMMER NIGHT'S DREAM!

CONVENTION IS SHAPING UP

KARL JETER - 2816 Frontier Trail N.E. - ATLANTA, Georgia - 30341

Once again, after a long absence, I return to these pages, but with very little DX to report. Most of May was spent finishing a final design project prior to graduation, for which I won a cash prize. I graduated with a B.A. in Architectural Engineering on June 10, but with no job lined up yet. I'll be spending two weeks in Barbados beginning July 10. The '78 Big Bash is taking shape, after nearly lying dormant during May for the above reasons, so it is shaping up to be a good time for all who come! On to my meager DX exploits: Way back to 5/11 for one of my three May loggings - WDOJ-1460 very poor w/s/on @ 6:02am. 5/15- WIPM-1540 w/s/off @ 8:30pm, after Jackson Browne mx, then to 1520 for #3 newie of May same night, WRSL-1520 w/ad for c/w mx club & gospel mx, 8:36pm. 6/2- WMRB-1490 good w/s/off unnn, but needed verie - this @ 12:10am after CSS NX & SX. 6/5- WDSL-1520 s/off fair, 8:45pm. 6/10- A newie, WKYE-1550, s/on 6:02am. 6/12- WQPI-1490 heard, new, @ 1am for #2 from Bristol, Tenn. in two days! 6/14- WJVA-1580-TEST heard, ID @ 1:01am, then TT & ID @ 1:14, poor, with mucho QRM. Unn WEED-1390 ETLing @ 12:24am on 6/14 w/TT & ID. I was surprised to note WCLS-1580 running Larry King AN, instead of their usual rr: from their promo, this is six nights a week for them. Now on to veries, which are a little more abundant. A first - a "talking" verie received from WDSL-1520 - a tape enclosed with the v/l with the CE talking & playing the s/off that I heard, and "verifying" my report! A batch of f/ups using the new "Broadcasters' Guide to DX" folder have brought results: V/PP/C's from: WJHO-1520, WDDL-1470, WCHL-1290, WRCP-1540, WAOA-1520, WRFM-1530 (finally!) & WBBS-1290. V/l's from: WHIC-1520, CHOO-1390 (two f/ups) WPCF-1430. Not too bad for the Summer doldrums, hi! That's about all from ConventionTown - see you Labor Day, I hope! 73s.

STILL HAS HOPES FOR CONVENTION

KARL FORTH - 630 South Ardmore - Villa Park, Illinois - 60181

June DX: (Times in EDT, underlined> are new here). 6/7 found WOOO-1550 ETLing @ 3:43am, over them was KQWB-1550 with rr & what sounded like RS, so their CP for night operation may be in effect. 6/9- WKRM-1510 fair/poor w/s/on @ 6:01am. 6/10- KMUS-13 80 fair w/s/on @ 6am. 6/11- WSMX-1500 ETLing w/TT, OC, ID heard @ 2:44am; WLLL-1290 Miles, Mich. finally heard @ 6am s/on, poor u/WHIO/WJHL, & WMRO-1280. WUNN-1110 then heard @ 6:01am w/s/on & religious program o/KFAB. 6/12- WOOO-1510 poor u/LAC/WLKM w/s/on @ 6:02am. 6/13- KHHN-1320 ETLing @ 5:58am w/TT & ID, WKPR-1420 w/s/on @ 6:01@. 6/14- WLCX-1608a La Crosse, Wis. heard @ 2:24am w/RS, I assume //1490. This thing hasn't been heard since early last year. 6/15- WQAP-1080 fair/good w/s/on @ 6:02am, & finally, on 6/18 WQAP-980 w/(what else?) s/on very poor u/WONE @ 6am. As can be seen by the loggings above, most of my DX activity has consisted of taping and reporting untaped and unverified semi-locals at sunrise. This has resulted in the new loggings of WLLL & WQAP, however, both high on the list of "closest unheards", so Summer DX doesn't have to be all bad. Two veries, both v/l - WJOR-140 & WBUK-1560. Hopes for attending ATLANTA have been dimmed somewhat by the lack of Summer work here - I've only been able to work three days in five weeks. 73.

KEN'S BACK WITH NEW ADDRESS

KEN ONYSCHUK - 239 Fir - Park Forest, Illinois - 60466

Hi again, DXers & DXesses! I got my first DX NEWS in four months on Saturday June 10. It was a pleasure. Back to normalcy again, hi! Well, after a long six-month strike, I went back to Pullman Standard, Hammond, Ind. on 4/7. Normal pay checks again, too. I sold my house in February, & moved to my co-op on May 30. The strike left me broke so I couldn't afford another home. So I ended up in this three-bed coop for only \$175 a month, 1 1/2 blocks from another DXer, IRCA's Curtis Hayes, a great guy & a real jockey & antique car fan. My updater: I'm 29, married, two boys, one girl, & one non-DXing wife, hi. My RX-es, all five portables: Realistic WX RX, Panasonic AM-shirt pocket model for Cub games at work, Realistic TRF, Realistic AM-FM, & Longines Symphonette four-band. Update on new stations since I left the NRC: 3/6 in WIND-560 SP, I caught WIS-S.C. in nicely 5:45-5:55 alone. 5/25- WJEL-1260 Holland, Mich. ID @ 6:53am. WJEL can usually be heard here in daylight in WNDP's null o/u WIBV but I never IDed it before. New DX in Park Forest: 6/3- WRRL-1060 Rochelle at 8pm SID during Cards BB in good WJFB null. One of the hardest Northern Ill. stations to hear here in South Cook Co. 6/21- WJVA-1580 Ind. w/weak ID before c/w @ 7:45pm. I usually hear weak WFRV. WCNW-1560 Co. after WRIN reduced to CH power, in wall w/ID @ 8:05 pm after NX. WJSD-1590 Tenn. w/strong T-40 mx & ID @ 8:30pm while still looking for WAWA, Wis. I noticed Mike Tuggle verified WGO from Bal Air, Md. They must be rough to hear in the Eastern states, with XR at Joe Orr Road & I-294, they're directional NE/SW, though I've heard it on my car radio in downtown Chicago! They're an early s/off too, 7:15 EDT Mon.-Sat., 7pm Sunday. Make note of this please. We had unusual CX Sat. May 27, about 2:30pm. Doing an afternoon dial check for CX, I was very surprised to hear WMP-1470 East Chicago Heights off the air w/XR problems. I called both the station & XR in Crete, Ill. to find the cause of this pleasant condition. No answers! Anyway, WED was coming in very nicely for a half hour. Announcer gave a contest phone about 2:35, so I decided to surprise them. They were & I got mentioned on the air twice. Funny though, the announcer thought I was operating an illegal radio since I was hearing them way NE of their N/S directional coverage! How about that? I better s/off before this ends up as a double Muse. I hope you enjoyed this Muse & the rest that follow. 73. (Welcome back, Ken! -ERC)

THAT WAS WCHL TESTING ON 1360 6/12

BRUCE TINDALL - Box 404 - Chapel Hill, North Carolina - 27514

In case anyone heard an ET on 6/12 from 1 to at least 2am on 1360, and wonders who it was, it was WCHL. I listened to their TT & OC for an hour and never heard an ID. Their test sked is irregular, so I couldn't predict when they might do it again. Anyway, WSAI probably drowned them out this time. 73.

STEVE BOHAC FIXES HIS HAMMARLUND

KENNETH G. BROWN - Keats Circle - Salisbury, Maryland - 21801

Guess it's about time that I Muse again. Mainly because of hours worked I haven't been very active during the last season. About a year ago, I purchased an HQ-180A & took it to a highly recommended local shop to be aligned and checked. I was disappointed in it when I got it back. My Grundig Satellit performed better. After reading ERC's comments on STEVE BOHAC's work, I contacted Steve about my problems, I sent the HQ-180A to Steve by UPS. About two weeks later I drove the 300 miles and picked up my reconditioned set plus an FET amplifier, for my 4' NRC loop. Like he did for Ernie, Steve had added a mixer trimmer to my set. When tuning, I can see it peak on the S meter. The set works beautifully! Everything that didn't seem right had been corrected. It does make a difference having a set reconditioned by somebody who knows what he's doing. During the first two hours of listening I added five new stations to my log. The best catch was WISE-1560. (Anybody else interested, Steve's address is 97 Shaler Avenue, Fairview, New Jersey, 07022 -

HEARD WPRW-1460 WHILE NEARING AZORES

BILL TOWNSHEND - 4500 Connecticut Avenue N.W. #901 - Washington, D.C. - 20008

Now I'd like to discuss why some relatively close stations even with 50kw are hard to hear. On one occasion while I was downtown (20 years ago with a Zenith Royal 500 transistor set), the local yokal WTOP-1500 just 10 miles/16 km away, had a weaker signal than WCKY-1530, over 500 miles/800 km away in Cincinnati. Also local yokal WBAL-1090, only 37 mi/60km away, came in weakly while WBT-1110, 350 mi/560 km away, bombed in. This is all a matter of nighttime radiation patterns made necessary to protect other clears on the same frequency from QRM. While aboard the late British liner Canberra en route to the Canary Islands and Senegal to observe a six-minute total solar eclipse in mid-1973, I heard two DC-area stations, WTOP & WPRW-1460 (Manassas, Va.) while 350 mi/560 km SW of the Azores (Radio Luxembourg on 1439 was heard in the same hour). I didn't expect to hear WPRW but there it was, plain as day. I later found out that the radiation pattern pointed E toward Europe & Africa. I was using a pocket transistor set on the ship's hurricane (poop) deck with some metal line as an antenna. 49 (hexadecimal), 111 (octal), 73 (decimal) & good DX. (The NRC Night Pattern Book illustrates this graphically - ERC)

VISITING NEW YORK? VISIT BILL

BILL WURTZEL - 32 West 31 Street - Studio 7 - New York, New York - 10001 212-594-4892

My DX GTG had only six in attendance. Visitors included: MIKE MAGHAKIAN, MARTIN WISNIEWSKI, PAUL MOUNT, FRANK MERRILL, MURRAY BERNSTEIN & myself. Three states were represented: N.Y., N.J. & Ohio. Dinner was served, we had plenty of drinks, new friends were made. I may celebrate the Fourth of July by drinking a fifth with Canada Dry. I think NRC members are too busy boozing to send in a Musing. When I was a kid, a radio transmitter was my babysitter. I joined IRCA and am now in four radio clubs. The only unusual DX to report is who is the SS station on 1390 at night alternating with WJEL, Syracuse N.Y.? Any DXers visiting New York during the Summer are welcome to stop by and visit; I even have room to put up overnight one or two people. If anyone wants to see the top of the Empire State Building or Madison Square Garden, they are close by. Here is my poem called "The DX Blues": I'm waiting for my DX NEWS to arrive I guess I'm having the DX Blues My license expired, I cannot drive From waiting so long for my DX NEWS I've looked out the door but still must wait The U.S. Post Office is awfully slow The mail today, as usual, is late It would come faster if broadcast on the radio. All you DXers going to the ocean for the Summer, take along a radio. DXing is great along the water. I can teach DX at the beach. If any New York area DXers want to combine a beach trip & DXing call me up & let's arrange a trip. There is nothing like DXing and swimming. Don't be shy, give it a try! Don't get sunburn, give your tuning dial a turn. Here is a limerick about HERTZ: After I rented a truck from Hertz The radio picked up a strange mega-hertz While tuning by I noticed the reason why: There was no antenna, and that hurts!

DX NEWS KEEPS DX HOBBY ALIVE

WILLIAM GILBERT - 26 Terrill Lane - Kings Park, New York - 11754

It's been a while since my last Muse. I haven't been DXing as much as in the Winter. Since last time I have started business school full time. I hope this will get me a job. I still get a few new catches at odd minutes of the day when I'm not busy with homework and when the TV sets are off (I live in a rooming house). Can someone tell me where I can get a membership list? (The latest one is in the 11/28/77 DX NEWS - Vol. 45, #7 -ERC) I am glad we will have AM stereo some day. I am sure this will upgrade development of AM receivers. When I get bored of the hobby, I can refile my interest just by reading DX NEWS. Involvement in an interest is the way to keep it alive. New catches: 3/10, Fri. - WEEL-1310 Fairfax Va. w/rr @ 12:24pm-11:30 (?) -ERC then s/off. 3/17- WRIR-1580 Hamonton N.J., a daytimer on after SSS @ 7-7:42pm, IDed as FM-105, WRD Radio. They were on because of flooding. 3/30- WJNE-1350 Honey Radio, Portsmouth, Va. @ 12pm. 4/14- WJEB-750 Portsmouth N.H. @ 7pm w/good signal, ID, & s/off. Great news, TRF fares well with static. 4/27- CHUM-1050 Toronto, w/rr @ 9:23pm u/WHN. 5/13, Sat. - WSAR-1480 Fall River Mass. @ 1am w/s/off. 5/29- CBEF-540 Windsor w/NX & ID @ 12:40-1am. Fri. 6/9- PJB-800 w/super signal, bible stuff & 11 pm. All kinds of beacons above 1600 this night, also SSeS heard on following frequencies: 820, 720, 700, 690, 670, 680, & 630. Only Canadian heard was CHLW-1570. Sat. (next day) CHLW-800 with strong signal, complete change of CX from right before. I think we will have a new member soon thanks to my great salesmanship and his interest. Thassit for now. 73.

FCC FIELD ENGINEER SAYS CODE ID'S ARE LEGAL

JOHN KROMKA - Box 86 - Montville, New Jersey - 07045

I'm well now & can get out & enjoy this great (well, almost great) WX. I sincerely hope none of you gets hepatitis, for those who know of it, it's a rotten disease. Anyway, DX has picked up slightly with the following heard during June: 6/12- WLBZ-620 @ 12:08 mixing w/WHEN w/ads, promo. I should have tried for this long ago. WJRO-1590 heard well @ 1:15 w/MOR. Very unusual why I couldn't hear this one at SSS or SRS. 6/19- At 12:26 WTOB-1380 w/ET & the KUDA TEST was heard. It was very weak but ID made it @ 1:10, report sent. At 1:19 WLBZ-860 conducting PoP, with excellent signals. That's about it. I am spending a lot of my free time writing or calling stations for CPC TESTS. The four in this issue came by quite pleasantly. WMMW-1470 was conducting an ET so I called them to let them know they were coming in with block-busting signals. The CE & I got to talking & I popped the question of a TEST or any other tests in the future. He told me he is the CE of FOUR stations in Connecticut. He gave me the f/c times & dates for the stations he works for. "Boy, he must be on the go constantly. None of these is in the 1978 f/c List, but they will be included in the 1979 edition, hopefully. Talk about being lucky! WJWL-900 will be doing PoP next year in the winter & WVCH-740 will do a PoP very soon - just as soon as they install their new XR. I don't know of a possible power change. I want to set all CPCers straight on something. In Vol. 45, #20 (3/13) DX NEWS, CHUCK HUTTON reported the FCC is checking into stations who use CIDs illegally. Recently, I received a sample bulletin from the GNDXA. In their "BS from HQ" section there was a report on CIDs. Maybe some of the members received it. Anyway, for those who don't know the situation, here it is: It is illegal, if a station, while testing, IDs with Morse Code only if it is the ONLY form of identification. CIDs are perfectly legal if the station first IDs, either at the beginning of the TEST, on the hour, or at the conclusion of the test. Then, it can ID in code at any other time. EDDIE RYAN asked a local FCC field engineer in Seattle, Wash. about it and the preceding is exactly what he told him. This was verified by all the other employees in the local FCC office there. So, we can now ask stations to ID in code, only if they ID in voice first. I'm glad because we all know how well code breaks through interference so much better than just a simple VID. Veries received recently were KNWS-TEST w/v/l & WTNK-1390 Meridian, Miss. for their f/c of 1/12/78, also v/l. Have a safe Summer, don't forget that winter isn't long off, and DX will improve greatly.

RECEPTION OF U.S.A. STATIONS NOT SO GOOD IN ITALY

DARIO MONFERRINI - 8 Via Davanzali - 20158 Milano, Italy

Big CIAO to all the gang. This is my Muse after many months. One reason is connected with the very bad CX on AM band noted here after the end of March. In effect the last NA peak was here on 3/23 with good signals from the usual 50kw of WHN, WNEW, WQXR, & some Jax: WAZE, WBBP, but after this day here no more noted. I have seen instead noted quite a few Europeans from East Coast in U.S., may be proof the reception is better from East to West than from West to East! During more active sunspot period? (I'm hoping no one will kill me for this personal guess, hi!) How about the new ITU Plan expected to start the 22 November at 7pm next? Well some little moves noted yet, over 1323 now operates R. Peninsular Campo de Gibraltar "en los 228 metros" s/off around 6:08pm ('cause in Spain there is Solar Time so the time is GMT + two hours). I wish really to compliment with R.J. EDMUNDS for the very interesting article "Metereological Effects on MW Groundwave Reception Propagation". Concerning DX NEWS #24 about J. KITTI's request of the correct address of R. Paradise-1265, I assure the address is still Box 423, Basseterre, St. Kitts. My DX activity after a plenty last week of December & good January has become almost null in February and so for remaining active I have been forced to switch to FM & SW. The most recent DX from here resulted in R. Apolo-1320 from Venezuela w/a nice taped ID the 3/22 @ 8:34pm. Domestic DX permitted me to hear R. Logica, Imola operating 80 watts over 1053 kHz about 200 kilometers from here, 24 hour sked. Independents radio stations now here are more than 3,000 & TVs more than 500. This is why the WRTH-78 doesn't mention them, if you need more news like frequencies or addresses, exist a publication edited in April '78 by Millecanali (90 pages offset A4 size) which you may ask to my address sending five IRCs & you will get it by printed matter surface mail. A bit better about new stations verified: CJQH-920, CBYJ-750, CFDA-2380, WJR-760, ZDK-1100, CJMS-1280, WABK-1280, Ogun State BC-945 (strange this is rarely reported in your area because s/off at 7pm & operates a split frequency); & last R. Logica-1053 my first independent Italian station verified on AM - domestic DXing is growing here, hi! My totals for USA are 44/19; for Canada are 27/6. my thanks to all the friends which have started a regular DXchange of material of radio stations of our countries, naturally I am always pleased to go up with these matters. If I will note others remarkable changing of frequencies due the enter in service of the new ITU plan I will drop a line. I wish good Summer holidays from raining Milano half of which was in the past days under the Seveso River. 73, Dario.

YAESU-MUSSEN FRG-7000 WILL BE AVAILABLE IN NOVEMBER

MIKE HARDESTER - C F A O - Box M E - FPO - Seattle, Washington - 98770

6/17/78

I thought I'd drop a line or several to let those interested in the Yaesu-Mussen FRG-7000 know the unit is now available in Japan; it is not presently available on Okinawa - I purchased the only unit they had. Considering the continual drop of value of the U.S. dollar on the world market (including Japan), the unit is now retailing for US \$455.81 & that's up US \$6.27 in two days and will most likely continue to rise as the dollar's value decreases. A review should be available before November when I believe the unit will become available in the States. On other matters, we've got 317 days remaining on "the rock" until rotation back to the USA & either to California or possibly Tennessee; Millerton area near the Naval Regional Medical Center. Any DXers in that area who have the time, would appreciate knowing the DX CX in that area. Thanks. Very 73.

HIS VERIE RETURN IS 95% AFTER 18 YEARS

ANDY RUGG - 668 de Gaspé - Apt. 408 - Nuns' Island, Quebec - H3E 1H9

VEZAQP

Here is a Musing to wind up my DX season. In '77/'78, my TRF snagged 31 new catches, which is adequate in this low-rise apartment. But it doesn't come close to the esoteric stuff I used to get in my former Pointe Claire shack. On 24/3, I finally heard an ID from WJBO-1440 @ 5:22pm, but there was too much CFCO QRM for a logging. Shortly after, I stumbled across logging #1548. At 6:05pm, much-wanted WSOQ-1220 topped the channel for a few minutes. On 6/4, logging #1549 was HJZW-100, atop YVOZ from 9:08-9:42pm. On 30/4, un-CHUC-1450 was reported on their new frequency (my 1961 verie is for 1500k) with Jays' WC game from 12:32-1am. On 5/2, a call change, WITS-1510, was logging #1550. At 5am on 6/2 I couldn't sleep, so I took a report on #1551, another call change, WWAQ-1460. New veries are WCJW-1140-TEST, GJMR-1190-PP/c, WSOQ-1220, WHEB-1330, WZLX-1350-PP/c WIXZ-1360 WPUT-1510-TEST WKID-1560 PP/c WUNR-1600. I also reverified CHWO-1250 (my 9/62 verie was for my old location in Waterloo, Ont.) - CHRDL-1480 (my 6/62 PP/c was on 1340k). After 18 years of on-and-off BCB DX, my verie return is 95.2% - 1476 veries from 1551 loggings. Of my loggings, the best state is N.Y. with 130, folo by Pa. with 121. Ontario is next with 81. Mass. & Quebec are tied in fourth place with 61 loggings. My best foreign countries sre Venezuela-31, Mexico-28, Colombia-25 & Puerto Rico-15. This season, reports are still out to CRL-1165 CRIX-1170 HJZW-1200 WWAQ-1460 & WITS-1510. And I'm still waiting a reply from un- WKDR-1070 -TEST. At the present time, GJMR-1190 & CHWO-1250 share a common CE, who appears to be reluctant to verify DX reports. (His signature is illegible). My CHWO v/l states, "Sorry OM, we do not as a rule QSL. Your report, however, is verified." Perhaps he liked my name. I won't attend ANARC's mid-July Montreal convention, becuz I'll be in Calgary that weekend. It is annoying to see the FCC frown on CIDs, but there is a potential alternative. On TESTS, stations could maintain a constant pattern in their TT (such as 25 seconds on, five seconds off), or vary the pitch at certain times. These little quirks might help a DX'er pick out a station that can't be IDed verbally. 73.

A PLUG FOR THE "PERSONAL TOUCH" IN CPC EFFORTS

FRANK DAILEY - RFD #5 - Route 12 - Preston, Connecticut - 06360

Greetings fellow NRCers. Perhaps this should not be called a Musing but rather an editorial for the CPC effort. Last season I scored zero on TEST requests. This was partially excusable due to increased workload in Publications Center. RAY ARRUDA & myself are committed to 50 requests each - so that's 100 requests out. Now here is my appeal to the membership. Contact your local stations for DX TESTS for next season. When you have personal contact it generally works better than a letter from half-way across the country. For example; here are some stations that would be good TESTS and each station has an NRCer in the town. (Note: this list is drawn up from a New England standpoint and clear channel pests would have to be off). Richmond: WANT-990, WEST-1320, WGGI-950. Peoria: WIRL-1290 WPED-1020. Memphis: KWAM-990 WNEE-1430. Lincoln: KECK-1530. Albuquerque: KKH-1000, KZLA-1580. Rockford: WPJW-810. Grand Junction: KREX-1100. Kittinging: WACB-1380. P. n. t. a. c. : WPOK-1080. Franklin: WIZO-1380. State College: WRSC-1390. New Prague: KTMF-1350. Willoughby: WELW-1330. Rockford: WJPW-810. Wilmington: WMAW-1090 (WKFI v-ERC). Athens: WATH-970. Ashtabula: WAQI-1600. Rockford: WRRR-1390. Madison: WJQM-1550. Baltimore: WAYE-860. Brownsville: WASP-1130. Galesburg: WALK-1590. Corning: WGBA-1350. Tullahoma: WJIG-740. Kingsport: WQOC-1090 & WKIN-1320. Evanson: WBAW-1330. Hamlet: WDKX-1250. St. Croix: WWVI-1000. Austell: WAXC-1600. Saginaw: WKNX-1210. Indianapolis: WERT-1500. Savannah: WEAS-900. Tucson: KUAT-1550. Annapolis: WANN-1190. Hastings: KICS-1550. That's 43 stations where just a casual glance yielded cities with NRC members & where I think it could be heard in New England. Apply that nation-wide and you can see the amount of local contact we have for potential CPC TESTS. Okay members - especially those in the cities and towns listed above - check out the possibility of getting your local on a DX TEST, time permitting, of course. 73s.

MOVING TO CORAL GABLES

MARK STRICKERT - 5715 North Kemore - Apt. 302 - Chicago, Illinois - 60660

Hello again from the Lakefront Logger! The weather is (comparatively) beautiful now, which distracts me from the dials a bit (good old Mr. Static a la thunderstorm doesn't help much, though). We had a nasty one on 6/17 that cut power in many parts of C. g. -cagoland. I took a shot at the KUDA TEST on 6/19. I got the WOOD-1300 s/off @ 12:58, CBS NX on WHIO-1290 @ 1:06, folo b marching mx & a 1/2 minute TT @ 1:10:15. It controlled the frequency, but just as it ended I was hit with a loud case of BG's from WIRL. At 1:15 I cut off the AM & turned on my FM (gasp!) just as Dr. Demento (a DJ based in L.A. who plays well-demented tunes!) was playing the classic "KOS-Chaos Radio" bit - I thought I had WLS on a 1,000th harmonic for a minute there! I was planning on being in ATLANTA for the meet, but at this moment I'm saving my pennies for a return move to Coral Gables - Floral Goblets - Chorus Girls - oh, just some rundown city on Miami's SW border. I figure to move by mid-October. By the way, I have a friend in that vicinity who is considering joining up, as soon as he can rustle up \$15 (he had an unfortunate encounter with his gun in the Everglades, as his foot tried to stop a stray bullet - this would tend to limit one's earning power for a while). Well, I'm out of lines, so I'll just say Sayonara, and if you're in Chi-town call 561-3249. The new WRTH is fun reading, and the trusty TRF still brings 'em in like no portable old KBHU 2151's ever owned. 73-2-U!

A GREAT ARRAY OF NRCERS ARE COMING TO THE ATLANTA CONVENTION. THIS WILL BE A GOLDEN OPPORTUNITY TO MEET THEM, TALK WITH THEM ABOUT YOUR FAVORITE SUBJECT, AND HAVE ONE GRAND TIME FOR THE BIG LABOR DAY WEEKEND BASH. MAKE THOSE PLANS PRONTO! BE PART OF IT - LIVE IT UP!

HAS NEW WOLLENSAK RECEIVER

JEFF LOCKWOOD - 3131 El Prado Boulevard - Tampa, Florida - 33609

Greetings from the land of the Brahman, Gator, Seminole, Buccaneer, & Rowdy. Not much DX to report on this end, but I tried some daytime on a Wollensak AM-FM radio-cassette recorder and caught WML, WMOE, & WPUP-1190 all under slop from locals which made these stations completely inaudible on the Midland. My best midday catch on the latter is WMLP-590. I just got the receiver manual (finally) and plan to do whatever I must to improve on the Midland's barn-door selectivity. It looks like some MF's in addition to the loop ought to do it. Tentative completion of the loop is mid-August. The wait is just as well, since I'm taking some not-so-easy engineering courses this Summer. Other news: The Gainesville tornado on 5/4 toppled four of WRUF's five towers. I don't know what power or pattern they were using, though. TIM BENKO shipped some "Windy City Aircheck" souvenirs to me and BROCK WHELEY. Thanks to all who sent info on the McKay Dymek DA-5 antenna. I knew it couldn't be that good, it didn't seem too popular for DX enthusiasts. I'm going to see how many college and NFL games I can pick up this Fall. WFLA is flagging the Bucs - looks like Jack Harris or Dick Crippen will do the play-by-play. Network information is not always available especially for college teams. I wrote to WAPT-1070 for a list of the Auburn U. network and only 22-23 stations had signed contracts; the others apparently wait until the last minute. ATLANTA is still in the picture. 73.

LOOKS FORWARD TO NRC HAM NET THIS AUTUMN

DICK TRUAX - 3003 Gleason Lane - Jeffersonton, Kentucky - 40299

Greetings once again from the sunny & HOT South. As I sit here sipping a 'bootleg' Coors (it now is for sale here for thrice what it sells for in Colorado, but I got mine by other, cheaper, means, hi) & listening to Ted Fleischaker's oldies show on WUOL-FM, I was inspired to Muse. DX has been sparse since April, but on 4/4 @ 9am WML-570 Miss. was in weakly covering regular WXYX. On 5/7 WDEL-1590 Tenn. s/off @ 8:52pm EDST. 5/14- WKSR-1420 @ 11:55pm w/Final Edition NX. 5/15- WHIP-1350 N.C. ID on ET @ 12:13am. So much for DX. I recently have gotten active again in ham radio - I would like to suggest that when the BCB Net gets started next season that a frequency above 3900k be chosen so that more participation from Generals & hence more DX tips may be passed around. In recent issues of QST several items advertised by Palomar Electronics caught my attention: a directional loop capable of BCB & LW usage, and an LW or VLF converter. Has anyone had experience with either device? If so, how about some comments or a short product review in an upcoming issue? That's about it for now, I hope to make it to ATLANTA on Labor Day weekend.

LOGS TWO NEW HAITIANS

RONALD F. SCHATZ - 5651 S.W. 2 Court (106) - Margate, Florida - 33068 305-971-3605

Greetings. By the time you read this I'll be on my way back from a Convention in San Jose, Cal. The "Hot-Lanta" Convention is only some six or seven weeks away now; Cesar Obispo & I will be there. 10-4 good buddy! Local ZNS-3-810 is blasting in these days, so I guess they've gone to 5kw. R. Clarin-860 relay nightly on 850, assumed Santiago de los Caballeros (St. Jack of the Knights, hi). R. Soleil-1170 new Haitian, and strongest. R. Roger, same place, drifting off to 1207 kHz. As of 6/21 PJB-800 is still on the air & in EE, SS, & PP. Solar flux values are too high for comfort lately. Gone are DX seasons like '63-'64 & my 100w Brazilian graveyards - never again! I'm getting quite favorable comments on my propagation article. A sequel is forthcoming. I also continue to get comments that my TSM simply plagiarises Nelson's E-20. Again, they work on different principles, entirely & have only purpose in common. Besides, E-20 should not work, since Nelson believes that the F layer, not the E, dominates MW DX; he made this fallacy plain in many of his past "tech" articles. 73 de RFS.

STAN'S DOING A LITTLE SUMMER DXING THIS YEAR

STAN MORSS - Route 3 - Bradford, Massachusetts - 01830

WJBQ-1440 was granted 5kw fulltime - another AN-7 no doubt. And QKND has refiled for 620 fulltime, from 1480. WYFA had license modification, so may be done on soon. And Van Buren, Ark. granted 1060, 500-D. WEZE-1260 noted off @ 2 MM, WNRX/CIHI on yop. I tried for needed WJGC but no luck. WXY-1600 noted OC 5kw non-DA per announcement. OC @ 2:30 on 1030, also some TT, too weak for WBZ & too strong for KTWO. WXIV-1450 noted AN Fri. & Sat. AM so they're still AN - local AN show, lots of WOXD IDs with WXIV's, & lots of commercials. WAEN verie in WHPA envelope & wrote on my f/up letter. A few more f/ups out to WHEB-1350 WMLB-1550 & CHPR etc.

ERIC HEARD ERC'S "EXITOSA" IN BAYSIDE

ERIC FADNER - 23-35 Bell Boulevard - Bayside, New York - 11360

Hi gang.. I just got the 6/12 DX NEWS & was glad to see an ID of ERC's "Provincia Central" thing. I have a tape of what I had figured had to be the same thing, heard here 1/10/78 10:45-11pm. Now that I knew what to listen for, it was easy IDing it, hi. This time, I picked out a clear ID, "Exitosa" along with lots of reverbs, none of which sounded like "Provincia Central". So, chalk it up for Panama, hi. No recent BCB DX, but I did chalk up 26(1) FM newies Monday (6/12) as most New York locals were off MM due to maintenance at the Empire State Building. Why don't BCB guys do that? I couldn't swear I wrote a Muse for last issue - sorry guys, hi. 73's.

WANT A CKJD-1110 STICKER?

RON SIBBITT - Box 723 - Sarnia, Ontario - N7T 7J7 VE3CKU 6/25/78  
Anyone who would like a sticker from CKJD, please send 15¢ postage, either U.S. or Canadian, to me, and I'll see that you get one! (Ron is CE there -ERC) 73.

HAS NEW "FROG" - AND NEW PROBLEM

BILL HARDY - 2301 Pacific Avenue - Aberdeen, Washington - 98520

6/22/78

Argggh, the postal rate hike. I may have to resort to sending Musings on 10¢ postcards rather than 15¢ letters, so if my next Musing is extremely short you'll know what happened, hi! (Not much you can say double-spaced on a postcard!) (We'll allow postcards to be single-spaced, Bill, hi - ERC) I used part of my Federal Income Tax refund to buy us a new RX, the Yaesu FRQ-7, known around this DX den as "The Frog" since its arrival on 5/9. At night, we can pull in DX on 1310, 1330, 1440, & 1460 right next to our locals on 1320 & 1450 respectively. However, from sunrise to sunset, my sloppy 1kw signal from local KGHO-1560, 1/2 mile away, ruins almost everything above 1200 on the Frog. This is with an SM-1 antenna. Any other Frog users have ideas how to correct this? Around 6/10 I noticed a very strange problem - a 1 kHz TT would appear on 1270 when I tried SSS DX, disappear after 15 or 20 seconds, then reappear several minutes later. I finally traced this problem to KGHO-1560. Whenever the DJ would turn on his studio mike to talk, the TT popped up on 1270, then disappeared when the DJ went into a song or commercial! I've also noticed this on 1370, & maybe it's there on other channels as well! This rates as one of my all-time strange receptions. I will try to figure out why this happens. For now, the SM-1 is set up with a switch, so that we can use it with the HE-30 or the Frog. Not too much in the way of DX here. I caught KBRC-1430 on RS 5/31 @ 3:28am w/rr, femme announcer, KARM nulled. ID 3:31 as "KBRC, near Mt. Vernon" which is the way they've IDed for years & I see they haven't changed. NICK HALL-PATCH had heard KBRC say "soon to be 24 hours" on 5/23, so it looks like they're AN, SPU now. 6/1- 12:20am I finally logged CFVR-850, first time for them since they moved from 1240; the GY QRM was easier to overcome than KTAC/KOA on 850. In fact, CFVR's sister station CKGO was logged months ago on 1240. In closing, I'd like to thank everyone who sent baseball info to me for the 1978 lists that appeared in May. I'd like to ask for any & all info that anyone can send me for the 1978 NFL season. If you live in an NFL city, please send me their station lineups as soon as possible! I'll soon need NBA, NHL, & WHA info too, if anyone has it. And I'd also like some ideas on how to shorten the sports lists in DX NEWS - are you really interested in sponsors, for instance, or in titles of license which you could easily look up in your NRC Log? 73, & may you have good Summertime DX.

WINS CONTEST AND FREE N.R.C. LOG

50907

WAYNE HEINEN - "The Pike's Peak DXer" - 427 East Caramillo Street - Colorado Springs, Colorado Here is another Mid-West update. DX has been poor to zip with much T-showers & bad static, typical for June. Verie as a result of second f/ups, including PP/c's from KDKB-1510, KIXZ-940, KPAG-1400, KLIF-1190, KCJB-910, KAAT-1090, KEM-1400, KOOL-1410, KULY-1420, KHOB-1390. v/q- KARN-920 (kept my PP/c & sent a v/q), KPAX-1100. V/L- KCSJ-590, KXIV-1400 (ex-NRCer Cliff Reno, CE), KEMY-1240 (six months with no f/up), KMAV-1520 (thanks, NEEL ZANK!), KSL-1340. V/f- WTK-1390, KIMN-950 (took two weeks for in-coverage-area report!). I hope to support the verification help column. With a dedicated veri collector like RON SCHILLER as the editor I'm sure it will be a great success. No new DX to report, mostly catching up on local & semi-local loggings. I'm really looking forward to my FREE NRC Log - love those contests! Hats off to JAC who I know is busting his tail to get it done. It was nice to see NEEL ZANK on his recent pass through C. Springs, all BCB DXers are always welcome here. I will be in Buffalo area 7/8-24 for my brother's wedding & will see if CHUCK RADER really still exists! ATLANTA looks doubtful. 73's to y'all.

HEARS A'WAY CORP. HAS BOUGHT THE MUTUAL NETWORK

STEPHEN H. PONDER - Box 22635 - Fort Worth, Texas - 76122

6/26/78

Hello from Cowntown! Whew, it's H-O-T-I! The temperatures have soared to the 100° mark for the past several days, leaving the city really hot & bothered, hi! Summer school is winding down, my projects are almost finished, & I've been evicted from my dorm room while maintenance remodels and repaints my floor. As a result, I've had a roommate on another floor, so DX has been limited to the times I could sneak up to my old room and use my equipment. Not too much DX to report, but here goes: 6/16- KLO-1230 in Opelousas, La., topping channel @ 6:05am. Later on that afternoon, I heard KALA-1400 in Many, La. on groundwave at 12:55pm; KR0F-960 also heard @ 1:21pm. Oh yes, I forgot to mention reception of KAWS-1530 (it's ON!) @ 11:12am on the 16th. I desperately need their address, anybody? (Hemp-hill, Tex., 75948 should do it, Steve -ERC) Veries received: KNIN-990, WGSO-1280, KDXE-1380, KVOL-1400, KTFS-1400, & KNEO-1530. All were f/ups, with HEINEN & K130 sending maps. Now that WRR-1310 has changed to KAMM-1310, they are IDing as KA-AM, bringing AM back to the Metropolis and have changed their format to a combination of T-40 & MoR. I also forgot to mention that all DX above was heard at my parents' location back in Louisiana. For the DX heard in the past few days, only one station to report - KR0B-1510 (500 watts!) completely covering WLAC in early evening @ 9:10pm until s/off @ 9:31 on the evening of the 24th. Needless to say, a hasty report has been sent! Has A'way Corporation really bought the Mutual Network? I heard that on a local newscast and couldn't believe it. Special thanks to NRCer ARTIE BIGLEY for his phone call from San Antonio, Tex. That's all for now - maybe I'll have some good DX to report next time. 73 & good DX.

AS THEY SAY IN KINGMAN, ARIZONA, "KAAA-1230" - "KEEP AIMING AT ATLANTA"! YES, THOSE BALA CONVENTION DAYS ARE ALMOST UPON US. IF YOU HAVE BEEN PROCRASTINATING, NOW IS THE TIME TO CEASE FURTHER DELAY AND MAKE THOSE ARRANGEMENTS TO BE THERE SO THAT YOU TOO CAN PARTAKE OF THE CONSTANT FUN AND ENJOYMENT AND EXCITEMENT OF BEING WITH MANY OTHERS WHO SHARE YOUR HOBBY! AGAIN, THOSE DATES ARE SEPTEMBER 1, 2, 3, 4 - IN ATLANTA, GA. LET THOSE WHO ARE HOSTING KNOW YOU ARE COMING. THEY WILL BE HAPPY TO ADD YOU TO THE FESTIVITIES. THE MORE THE MERrier!

WANTS CORRESPONDENCE AND NR CHECKS

JOHN CLEMMER - 2937 West Gilbert - Peoria, Illinois - 61634

By the time you read this I will have renewed my membership in NRC for the third year so I guess a re-intro is in order. '81, will be a junior in the Fall at Bradley University majoring in Finance. I would really like to own a radio station some day, which is the main reason I'd like to get a third class w/endorsement operator's permit soon. I just got my amateur radio license. Calls are KA9AXT. My DXing remains my favorite hobby however. Very little DX here. On 6/6, WJXN-1460, Dixon, Ill. was heard for the first time. Usually WMBD slop makes 1460 unDXable. WSDR-1240 was also heard for only the second time here o/WTAL. Both were heard around 2:30pm on a day when stations from the North were coming in very strong. There were very unusual CX that day, but work prevented me from exploring these conditions further. Any correspondence is welcome here & would be willing to trade air checks of radio stations with anybody interested. I also collect play lists & bumper stickers and would gladly exchange with anybody. I'm almost sure I will be at Louisville for WTFDA, & hope to get to ATLANTA for NRC Convention, as I love to travel. 73's.

LEAVES LAND OF THE GRASS SKIRT FOR LAND OF ENCHANTMENT

NORMAN L. MAGUIRE - 1406 Bryn Mawr Drive N.E. - Albuquerque, New Mexico - 87106

Greetings from the Land of Enchantment. I have my SPR-4 and Sanserino Loop with me & am getting re-familiarized with DXing from New Mexico. I'm happy to find lots of clear channels and plenty of open space to catch split-frequency stations when the static level drops. That is one thing that I did not have to put up with in Hawaii the past several years. I hear many stations in there now, but am waiting for quieter CX before I try and log them. Albuquerque has a minimum of images and spurs in this location & I'm hoping that my permanent location several miles North of here will produce equally good reception conditions. I think that KORN-650, KIKI-830 and KPOI-1040 must have hidden in my receiver, as I have heard all three stations here. Lots of stations from Mexico and Central America and several from South America have put in their appearances. Daytime DX will be curtailed for a while at my new location as they are still building many new homes near my new townhouse. I will be interested to see how badly KOB fouls up the dial as I will be about five miles nearer the XR, but away from most other local stations.

RETURNS TO DX AFTER FOUR DECADES

RICHARD WRIGHT - 5276 L Street - Sacramento, California - 95819

After almost 40 years I have returned to the BCB DXing scene. In about 2 1/2 years of DXing from 1937 to 1939 I collected 400 veries from 47 states (Nevada was never heard), the District of Columbia, Puerto Rico, Canada, Cuba, Guatemala, El Salvador, Mexico, Bahamas, France, New Zealand, Hawaii, Argentina, and Brazil. I used a Silvertone six tube radio hooked to an RCA Spider Web antenna, in Chicago. Today I am a lawyer specializing in legislative work and live in Sacramento, Cal. After getting a Realistic Patrolman 9 receiver at Christmas last year I decided to start in DXing the BCB again. The Prolman 9 is adequate to get my feet wet again, though I expect to get a good communications receiver one of these days. Starting in March, I have verified 15 out of 16 states logged, including Hawaii, British Columbia, Baja California Norte and Chihuahua. My best stations so far are KORN Honolulu, WBEM & WGN Chicago, WSM Nashville, & WOAI San Antonio. I hope to have more to report when the BCB season resumes next Fall. Meantime, it's good to be back. (Welcome to the NRC, Richard, and we will be looking for more reports from you, please! -ERC)

HEARS TTS, no IDs, & LOSES COUNT OF HIS VERIES

ERNEST R. COOPER - 5 Anthony Street - Provincetown, Massachusetts - 02657 617-487-3337  
Several returns received: WJZ-860 WNST-1600, & on f/ups: WAEN-1590 CJVA-810 (with picture of CEI) WMLB-1550 WQLN-1170, & unnn second veries from WASA-1330 & WLEG-860. Yerks, now I've lost count - I'll have to count back to the beginning of the season, 10/11! DX: 5/31- It seems the 1140a Cuban jammer is gone, what think ye the rest? 6/1, PM - WNLG-1510 strangely atop @ 8:16pm. WSAR-1480 not only carries Yankees BB, but also the Pawsox of the I.L. (in Pawtucket) when their games don't conflict with the Yanks. 6/2- TT on/off on 910 12:44-1:01 ID, missed. Likely unnn KFVS-960's r/c-TT I heard there 1:10-1:15. Also a TT on 970 1:16-1:24. WOCB-1240 was off today, & TGK heard once again @ 2:02. I noted the Larry King Show coming from Crystal City, Va. on MBS, during a power blackout there! SM 6/4- Nothing but noise & driving rain. MM 6/5- TT-1520 1:14-1:27, & 1600 1:19-1:25. Unnn WLEE-1480 topping there, 1:31. "The station that keeps you up" they said. On 740, a Colombian w/ER, likely R. Guatapurri. WNST-1600 noted on ET/mx thanks to an appreciated phone call from BILL COLEMAN, 3:14-3:34 s/off. Then new WJZA-1600 (ex-WHBT) ETing @ 4:02, so I called Bill back to tip him as he had for me. 6/6- Unnn WFAU-1340 on WC Red Sox game @ 1:33 w/WFAU-FM. UnID TT on 940, 1:49, & OC on 740 1:54. Unnn WMOO-1550 ETing @ 2:21 w/"Radio Alabama" ID. I noted WEEZ-1260 w/their new format, religion, w/CIHI right below him, then WOKK. 6/8- Raining hard. TT-1590 2:17-2:30, unID, s/off @ 2:41. Loud TT-1350 2:47-3:32+. 6/10- Unnn WCCP-1560 TT 1:40-1:55. SM 6/11- Yankee WC BB game on WINS-1010, WSAR-1480 WOKO-1460 & WIBX-950 noted after 1. Unnn CJTR-1140, FCC, extra loud w/WRVA off. MM 6/12- Another call from BILL COLEMAN netted me bits & fits of WJIE-1540 ET/mx u/WPT's trashy splashy signal, but my letter returned by P.O., the old address in NRC Log ain't no good, hi. WABC-770 & WNBC-660 off. but WJZR-1430 on RS, AN-7 now! Unnn WJUP-1600 & WJCB-1270, rr, atop circa 2:40. WJZ-860 on ET-rr relaying FM WMO @ 4 ID. 6/13- UnID TTer on 1550 1:40-1:44 off. 6/14- Unnn WERT-1230 ending Mets' BB @ 12:55. CC TT-1550 back again today, 1:33. TTer on 1400 also, 1:56-1:59. 6/15- Is that supposed TT on 1260 maybe a high-side net instead? Seems so to me. WOKO-1460 advertising a hypnotist @ 1:34 - isn't this illegal on radio? UnID TTer on 740, 2:25-2:30. 6/17- TTer up & down on 1570, 1:20-1:23+. SM 6/18- Cuban AN now spoils 740 Yks, poot. An unID all-NXer u/WPEI-950 noted 2:15-2:30, who's this? MM 6/19- WITC-1080 off; talk about Picadors via ABC heard well on KRLD, & exactly 1/2 hour later, I heard the exact same commentary on WOMB-1460! Unnn WLEG-860 ET-TT 2:13. Unnn WJWJ-1150 AMing, w/MoR. WOR-WABC-WBEI all off. Other phone calls from STAN MORSS, BOY BARSTOW, BURTON ZACHS & C. ALAN TAYLOR. C U N 281

BRUCE IS BROADCASTING IN BOSTON

BRUCE A. CONTI - 10 Forsyth Street - Stetson West - Box 218 - Boston, Mass. - 02115

I've been having fun ---- In the hot summer sun  
And studying at school. -- But I must be a fool

As I sit here drinking a beer called Beck's --- Not finding some time to do some DX!  
I'm back in Boston at Northeastern University and on the air at WRBB. Note my new Musing address. I've been getting some DX in while on the road between New York, Rhode Island, and Boston. Here are a few interesting notes from my travels. During the daytime, WNBC-660 comes in strong from New York to Exeter, R.I. on I-95, while WABC-770 gets lost in engine noise and static once past New London. Southbound on I-95, upon entering Stonington, Conn. WJYN-560 was in L&C. WJNO-550 made it to Westerly, R.I. before I tuned to WJYN. WJCC-600 covers the Conn. & Long Island coastline from Glen Cove to Mystic Seaport during the day. On Sunday night, when New York's T-40 stations go to public service programs, CKLW-800 was my best bet for T-40 from R.I. to N.Y. 73's.

MO TH BALL MEMORIES

CHAPTER LXXXIV - BOB SELLECK TELLS OF HIS BEGINNING IN THE DX HOBBY.

I have long enjoyed this section and would not like to see it discontinued, so I'd like to offer my own humble reminiscences should no other articles be submitted. I got into DXing in the early 60's through the influence of my neighbor, childhood chum and still active NRCer, CHRIS LUCAS. My first intro to the DX was in Chris' cellar where he'd DX on an old 40's type cathedral RX while we played ping-pong. He caught the stations while I caught the points (hi). I finally joined the NRC in 1963 and the first and strongest impression was made on me by the Musings of the all-time great DXer, HANK TYNDALL. More than his reported 'milestones', especially his 'century' states (over 100 veries each), I recall his affection to both the hobby and its enthusiasts, and his marvelous anecdotes and perceptive insights on subjects which are still topical (i.e., poor reports, NSPers, non-verifiers, pirates, 'valid' loggings, etc.) Inspired by both a friend and an idol, the early to mid-60's were retrospectively my personal heyday, especially the '64-'65 season when you could often tell whom you were DXing just by looking at the clock. After 3am EST, anything still on was very often a West Coaster and my favorite veries, KTYM Cal. & KRKO Wash., were acquired under such CX. My greatest dilemma was deciding which DX TESTS I'd have time for, since finding cooperative stations via the CPC was much easier and a half dozen TESTS per MM was not uncommon. Today, the bulk of my DX is reliant upon CPC TESTS and I'd like to conclude with a salute to the silver-tongued devils who, considering the virtually exclusive 'business only' attitude of most stations, persuade and connive with the interlocutory skills of a diplomat.

NEXT MONTH- We'll reminisce about some old radio shows with PETE KEMP.

**TIRED OF SUMMER STATIC?**



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