



DX NEWS

*the magazine of the
National Radio Club*

— SINCE 1933 —

Volume 47, Number 19

Monday, March 10, 1980.

CPC TESTS

Hope my typo's last time did not confuse you too much regarding the WJAZ-960 test. It was Wednesday, not Monday as I indicated. Keep sending those CPC letters. March is lookin' good! (Pat)

- 3/17 KMNS-620 Sioux City, IA 0130-0230 ELT, 1 kw. Will include 1000 Hertz tones, music, voice and code IDs. Reports to Steve Roberts, CE, KMNS, Box 177, Sioux City, IA 51102. Arr: Wayne Heinen, NRC.
- 3/17 WMLP-1380 Milton, PA 0230-0300 ELT, 1 kw. Will use music with IDs in Mon. between each record. Correct reports to WMLP/WOEZ Radio Inc./c/o H. Bingham, CE, Box 334, Milton, PA 17847. Arr: Dave Rukakoski, NRC.
- 3/18 WHOL-1600 Allentown, PA 0045-0100 ELT, 500 watts, directional N/S. Tue. Will use 400 cycle tone, IDs each 5 minutes. Reports to James A. Herbert, CE, WHOL Radio, 1125 Colorado St., Allentown, PA 18103. Via Bill Bergadano, NRC. Look for them here 3rd MM each month.
- 3/24 KHYM-1060 Gilmer, TX 0100-0200, 5 kw. Will test with tones and Gospel Mon. music. Reports to Al Tarasiuk, PD, KHYM, Route 4, Gilmer, TX 75644. Arr: Wayne Heinen, NRC.
- 3/31 WPIC-790 Sharon, PA 0230-0300, 1 kw. Will use 1000 Hertz tones, music, Mon. and code IDs. Reports to Charles Ring, W3NU, CE, WPIC, 2030 Pine Hollow Blvd., P.O. Box 211, Sharon, PA 16146. Arr: Dave Arbogast, NRC.
- 3/31 KWH0-860 Salt Lake City, UT 0200-0300 ELT, 1 kw non-directional. Mon. Will use 400 Hertz tones, plus possible higher frequency tones and voice ID every 1½ minutes. Reports to Wade G. Howlett, CE, KWH0, 329 E. 200 S., Salt Lake City, UT 84111. Arr: Wayne Heinen, NRC.

Also on MM 3/31 try for KCEE-790 Tucson, AZ after 0230 ELT. They test the last MM of the month (except in April) and use tones, carrier, IDs on the quarter-hour. KCEE, Box 5886, Tucson, AZ 85703. Via Wayne Heinen.

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STATIC FROM HQ

We'll keep 'Static' short this time. The DDXD from Ray Arruda is his last. Ray has been one of the most dependable and knowledgeable editors in NRC history. He has met over 60 deadlines without ever being late and has exhibited a very professional attitude. Besides all this Ray is a fine person who unhesitatingly stepped forward to help NRC when a new DDXD editor was needed. Thanks Ray! Your new DDXD editor's first column will appear next week. We urge you to support Dave Schmidt as you have Ray.

On hold is an article on German radio from Arnim Littek, DXing Asia by Pete Taylor and a rundown of what's heard from NYC, "50 States from NYC" by Bill Bergadano.

After next week's IRISH issue, we'll skip a week and return on March 31. From the material on hand, you can expect a larger bulletin. Please keep supporting DX News and contribute soon.

THE WORLD'S OLDEST AND LARGEST ALL MEDIUM-WAVE DX CLUB

NRC CONVENTION '80

OK folks! It's less than six months to the most interesting and unusual convention NRC has ever had. The hotel we have selected is only a mile from the beach so all you landlocked midwesterners can find out what an ocean looks like. We are working on a bunch of tours. We plan a tour of Beverly Hills (where your host works) and Malibu, made famous on the Rockford Files TV series. For station tours we are looking at KPCC-1230, a 100 watt station, and KWKW-1300 a Spanish station. We may also try for a tour of KBRT which is on Santa Catalina Island and visit the island while we are there. Some other interesting tours we have in mind are a visit to the Cal-Tech Seismology Center and a computerized air traffic control center. A picnic is being planned at Mt. Griffith (yup - a mountain right smack in the middle of the city) and for those who don't get off on picnics, there is an astronomical observatory with all kinds of outer space exhibits guaranteed to fascinate anyone. If you don't care for any of these, there is the regular tourist stuff: Disneyland, Universal Studios tour, NRC Studios tour, Knotts Berry Farm, Movieland Wax Museum, Japanese Deer Garden, Queen Mary tour, Hollywood Boulevard, Marineland and so on. As you can see, there is too much to do in one weekend, so we're going to start the convention a day earlier, on Thursday. If there are enough early arrivals, we will start it even earlier because we can line up enough to keep you busy for a week!

COME SEE THE INCREDIBLE TOYLAND! COME SEE TED F. EAT AT THE TOP OF SCIENCE FICTION'S MOST POPULAR HOTEL--THE BONAVENTURE. COME SEE A REAL MOUNTAIN. COME SEE....OH JUST COME!!

All inquiries go to: H. John Clements
P.O. Box 4768
Panorama City, CA 91412
(213) 893-4778

LOS ANGELES - LABOR DAY WEEKEND

THURSDAY
AUGUST 28
THROUGH
MONDAY, SEPTEMBER 1

DOMESTIC DX DIGEST

NEW EDITOR:
DAVE SCHMIDT
42 CHELWYNNE ROAD
CASTLE HILLS
NEW CASTLE, DE 19720

Editor this week: Ray Arruda, 42 Burt St., Acushnet, MA 02743

Welcome to all new reporters. Deadlines here are Saturdays and don't forget to use ELT and one side of the paper when reporting.

DX TESTS

WROM - Heard by ERC-MA, DS-DE, JS-OH
KURL - Not heard by ERC-MA, JWB-PA. Tentative w/TT only by JS-OH, CH-GA.

FREQUENCY CHECKS

1st Tue. WPCE-1400 Tentative w/TT only 2-3 mins. (ERC-MA)
2nd Mon. KQNK-1530 TT/IDs per list. (PM-IL)
3rd Mon. WMNZ-1050 Not heard (ERC-MA)
 WSLV-1110 Not heard (ERC-MA)
 WWSN-1240 Not heard (ERC)
 WRWH-1350 Tentative w/TT 0005½-0009½ (ERC)
 WBBQ-1340 & WDAX-1410 also tried but not heard. (ERC-MA)
3rd Tue. WAHT-1510 Strong w/TT but ID buried u/WLAC & FFC. (JWB-PA)
3rd Fri. WKSJ-1270 Fair per list but only to 0138 & apparently off, about 5th try & never a trace before. (JWB-PA)

SPECIAL

610 WIP PA PHILADELPHIA - Appears to have a new SP on Tuesday AMs, have not been heard here Tues. AMs recently. (ERC-MA)
640 WESP PA PHILADELPHIA - 2/5 and thereafter, noted 1500 & rest of day until CMQ takes over w/album Rock/Disco, little talk, bad modulation on voice, outlaw or college station? (DS-DE)
940 WESA PA CHARLEROI - 2/10 SM 0215-0300 frequent IDs as "WESA, Super Radio 94"...testing new LKW? No ments. of test, spots for Charleroi jive joint. (JWB-PA)
1430 WENE NY ENDICOTT - Running AN MMS w/rr & other days w/Larry King, so apparently they are now NSP. In the clear MMS w/Cuba gone, & WNJR & CKFH signing off. (ERC-MA)
1520 WIBG NJ OCEAN CITY-SOMERS POINT - in all day w/rr; best on cloudy days, seem best about 1000, some flutter from possibly WTHE-NY. (ERC-MA)
1556 ---- -- ----- 2/18 some sort of Pirate here 0442 w/Supertramp tune, @ 0445 said "goodbye" & carrier off, shallow audio, NYC area? (JS-OH)
1560 WQXR NY NEW YORK - Runs to 0120 on SMS. (ERC-MA)
1590 WQIQ PA CHESTER - Noted off both 2/17 (0605) & 2/18 (0128), maybe they've called it quits AN? Will check it. (DS-DE)
1610 WXT6130H CINCINNATI - 2/11 fair 0326 w/ID by male anncr.."This is WXT613, Traffic Information Radio Station in The Greater Cincinnati Airport." Male & female anncrs then giving parking instructions. (CH-GA)

MIDDAY TO MIDNIGHT

630 WKBX GA SAVANNAH - 2/10 1833 noted weak w/oldies o/u WMAL. (DS-DE)
730 KWOA MN WORTHINGTON - 1/20 fair @ 1813 s/off. (PM-IL)
 KSUD AR WEST MEMPHIS - 1/20 fair @ 1814 s/off right after KWOA s/off. (PM-IL)
780 KSPI OK STILLWATER - 1/16 poor in WBBM null w/wx @ 1829. (PM-IL)
940 KVSH NE VALENTINE - 1/26 poor in mess w/ID, then s/off @ 1830. (PM)
950 WSPA SC SPARTANBURG - 2/16 2151-2235 good w/mx, CBS Nx @ 2200. (RJM-IL)
970 WHA WI MADISON - 1/19 1600 good in WMAV null w/ID, SS programming & SS ID. (PM-IL)
980 CHEX ON PETERBOROUGH - 2/22 1720-1740 poor w/WTRY/WILK w/end of wx, ID, Pop mx, then ID & Financial Nx @ 1730, also numerous spots. (RA-MA)
1050 WACR MS COLUMBUS - fair 2/13 @ 1830 s/off on Philco. (PM-IL)
1060 WMCL IL MCLEANSBORO - noted fleetingly @ 2/2 1808 w/C&W mx, but quickly gone u/pest CJRP, WAMT-FL also there. (ERC-MA)
 WAMT FL TITUSVILLE - 2/18 atop 1730-1740 then faded, but popped back in & out until 1818 when they must have switched to night pattern, no sign of CJRP. (ERC-MA)

1070 KHMO MO HANIBAL - 1/25 1800 fair w/ID. (PM-IL)
 1080 WVCG FL CORAL GABLES - 2/10 1819 noted in passing w/spot, ID, then BFL mx o/WTIC. (DS-DE)
 1110 WMBI IL CHICAGO - 2/12 1803 in good w/nx, wx, traffic reports & REL mx in WBT null. (DS-DE)
 1220 WGNV NY NEWBURGH - 2/11 unneeded, noted in a try for WOMN 1719-1730 s/off. (ERC-MA)
 1250 WRAY IN PRINCETON - 2/9 1227 u/WIZZ w/ID while taking report on WIZZ, #600 heard. (PM-IL)
 1290 WHIO OH DAYTON - 2/5 1800 poor/fair w/ID. (PM-IL)
 WTMC FL OCALA - 2/9 1732-1743 strong w/T40 mx, Tom Parksley Show, right after local WJBR pulled plug for evening. (DS-DE)
 1310 WDOD TN CHATTANOOGA - 2/9 2022 fair w/WIFE w/TN-Vanderbilt BKB game, ID. (PM-IL)
 1330 KFH KS WICHITA - 2/9 2120 w/Olympic donation promo. (RJM-IL)
 1350 WSMB LA NEW ORLEANS - 2/7 xltnt @ 1834 w/nx. (PM-IL)
 1360 KHAK IA CEDAR RAPIDS - 1/17 1728 fair u/WGFA w/program notes, ID. (PM)
 1370 KGNO KS DODGE CITY - 1/17 1759 fair in mess w/ID. (PM-IL)
 1380 WAWZ NJ ZAREPHATH - 2/18 1825-1835 "in like Flynn" much better than WBNX ever makes it, & better than they sounded in dear old Brooklyn 5 yrs. + ago where they were weak at night, SS REL program noted at this time. (ERC-MA)
 1390 WTJS TN JACKSON - 2/7 1900 fair/good w/ID & Girls College BKB. (PM-IL)
 1410 WLBK KY BOWLING GREEN - 2/7 xltnt @ 1829 w/ID. (PM-IL)
 1430 WWWQ FL PANAMA CITY - 2/7 fair 1754 w/T40 mx & "3WQ" IDs. (PM-IL)
 WMNC IN MORGANTON - 2/19 1805 atop w/nx, wx, then C&W mx. (DS-DE)
 1500 WAKE NC VALPARAISO - 2/11 fair/good @ 1815 s/off. (PM-IL)
 1510 CKOT ON TILLSONBURG - 2/16 1746 good w/"Tax Tips" many CKOT-FM ments. (DS-DE)
 WLKR OH NORWALK - 2/16 1748-1756 weak o/u CKOT w/sports program, MoR. (DS-DE)
 WAUK WI WAUKESHA - 2/17 atop w/s/off @ 1831, no SSB, gave s/on as 0630 CST. (JS-OH)
 1520 WKMG SC NEWBERRY - 2/19 1813-1815 noted w/detailed wx, then quick s/off, no SSB. (DS-DE)
 1530 KNBO TX NEW BOSTON - 1/18 u/WCKY, fair @ 1828 s/off w/ID, SSB. (PM-IL)
 1550 WMOO AL MOBILE - 1/17 xltnt @ 1813 w/GOS mx, ID. (PM-IL)
 KOKA LA SHREVEPORT - 1/17 good w/ID & T40 mx 1818. (PM-IL)
 1560 WRIN IN RENSSELAER - 1/26 1131 fair u/WSHY w/ID & AT-40 Countdown. (PM)
 KKA A SD ABERDEEN - 2/9 1850-1905 strong w/C&W mx, CBS Nx. (RJM-IL)
 1570 WBEE IL HARVEY - 1/26 1700 poor w/ID, nx. (PM-IL)
 WYTI VA ROCKY MOUNT - 2/6 noted @ 1800 s/off. (FW-PA)
 WTRB TN RIPLEY - 2/7 & 2/8, clear s/off noted both days @ 1845. (JWB)
 KOLS OK PRYOR - 2/7 boomed in 1855-1900 w/PSA, wx, s/off. (JWB-PA)
 1580 KNIM KS MARYVILLE - 2/16 nice signal for about 10 mins. just before 1900 s/off. (JWB-PA)
 1590 KRAD MN E. GRAND FORKS - 2/9 1912-2115 & 2125-0000 xltnt w/C&W mx on Dave Chandler Show to 2100, then Curt Sampson Show, 1st time heard. (RJM-IL)
 UNID -- ----- 2/8 & 2/14 1835-1845 w/Rosary broadcast, heard on car rx, WNTS? (RJM-IL) Quite likely, Ray. (RA-MA)
 WNTS IN BEECH GROVE - 2/9 1950 mixing w/KRAD w/station promo, ID. (RJM)
 1600 WNEU WV WHEELING - 1/26 xltnt w/T40 mx to 1715 s/off. (PM-IL)
 WTRU MI MUSKEGON - 2/10 1815-1840 Detroit Red Wings hockey atop locals WMCW/WCGO. (RJM-IL)
 WNST WV MILTON - 2/10 loud @ 1800 s/off heard thru locals WMCW/WCGO. Heard regularly at s/off in winter. (RJM-IL)
 WLSN TN LEBANON - 2/16 atop briefly @ 1830. (JWB-PA)
 UNID -- ----- 2/16 sounded like WLKH? @ 2357 s/off, help? (PM-IL)

MIDNIGHT AT THE OASIS

560 WFIL PA PHILADELPHIA - 2/18 0128 noted off, OC & all. 1st time in almost a year! (DS-DE)
 WHBQ TN MEMPHIS - 2/18 0140 in well w/T40 o/WQAM, WFIL off. (DS-DE)
 WJLS WV BECKLEY - 2/18 0305 popping on & off w/WV Nx, wx, C&W mx, "WV 56" switching between day and night patterns/power, sked change on this? (DS-DE)
 570 WAAX AL GADSDEN - 2/10 0034 fair w/wx & ID. (PM-IL)
 610 CKTB ON ST. CATHERINES - AN RS Tues. AM 2/5 @ 0201 ID, C&W mx. WIP either off or ETing w/TT & OC & o/u WIOD. (ERC-MA)
 640 KFI CA LOS ANGELES - 2/12 0219 xltnt on TRF w/rr, IDs. (CH-GA)
 860 KONO TX SAN ANTONIO - 1/27 fair 0248 w/Rock mx, IDs. (PM-IL)

910 WOKK MS MERIDIAN - 2/10 ID noted @ 0210. (JWB-PA)
 KGLC OK MIAMI - 2/19 noted @ 0700 s/on. (FW-PA)
 920 KDHL MN FAIRBAULT - 2/12 0700 ID, nx, then lost in QRM, new. (FW-PA)
 2/16 good w/C&W mx 0110 in RS. (JS-CH)
 980 CKRM SA REGINA - 1/21 0634-0639 good w/ID & C&W mx. (PM-IL)
 1130 WLBA GA GAINESVILLE - 2/18 0208-0215+ ET/C&W mx, IDs about every minute, then OC, way o/WNEW. (DS-DE)
 1140 KMJJ NV LAS VEGAS - 1/27 poor/good w/UNLV BKB, SID @ 0112, State #40, my best catch of yr. ID on tape, splatter from WRVA-1140 running ET/TT @ times. (PM-IL)
 1190 WLIB NY NEW YORK - 2/4 just an ID noted 0049, nothing else, probably ET. (PM-IL)
 KRDS AZ TOLLESON - 2/11 0259 fair/good w/ID on tape & what sounded like portions of s/off announcement w/ments, of ownership, 250W & yet I still haven't logged KEX-1190 w/50KW. (PM-IL) You will in time when cx are right. (RA)
 1300 WERE OH CLEVELAND - 1/26 0000 fair w/ID. (PM-IL)
 1330 WNIK MS GREENVILLE - 2/8 0601 ID broke through u/ever dominant other Greenville...WFBC. (JWB-PA)
 1350 WRWH GA CLEVELAND - 2/18 likely the one w/TT 0005-0009, IDs not heard, if any. (ERC-MA)
 1370 WKMC PA ROARING SPRING - 1/31 noted on PoP w/usual TTs & OC, w/ID @ 0148. (ERC-MA)
 WELV NY ELLENVILLE - 2/17 0600 s/on weak for AM-FM then recorded wx. (DS-DE)
 1380 WBIC NC NEW BERN - 2/16 atop briefly w/s/on @ 0600. (JS-OH)
 1390 WCSC SC CHARLESTON - 2/11 fair w/mx & ID @ 0150. (PM-IL)
 WFLM MA PLYMOUTH - 2/16 0600 s/on noted for AM-FM, briefly atop then gone. (DS-DE)
 1400 WJHO AL OPELIKA - 2/11 0400 atop mess briefly w/ID. (PM-IL)
 WDWS IL CHAMPAIGN - 2/14 0412 local on ET/OC/ID. (PM-IL)
 UNID -- ----- 2/18 0105-0127 w/TT looping E/W w/good signal, no IDs noted, atop channel. (ERC-MA)
 1420 UNID -- ----- Larry King Show noted here SM 2/3 @ 0215, w/WBSM off, but it faded before 1/2 hr. ID. (ERC-MA)
 1430 WJRB TN MADISON - 2/11 0137 noted w/window sticker promo then C&W mx o/WIRE, sked change on this one? (DS-DE)
 1450 WCEV IL CICERO - 2/18 about 90% sure of call from tape replay, had wx, 14 degrees, & Black Programming-but-sked sez this should have been WXOL @ this time, 0410. (JS-OH)
 1530 KFBK CA SACRAMENTO - 2/11 xltnt 0133, only 2nd time heard. (PM-IL)
 1550 KQWB ND FARGO - 2/10 0102 tentatively the one w/modern C&W mx mixing w/KKHI/KKJO, no ID. (CH-GA)
 KKHI CA SAN FRANCISCO - 2/10 0130-0152 fair w/CL mx w/WOKJ off & KKJO phased out, no ID but lengthy CL mx. (CH-GA)
 1560 WPAD KY PADUCAH - Runs til 0307 Sat. & Sun. AMS, C&W mx, CBS Nx & s/off w/solo flute SSB record. (ERC-MA)
 KCJJ IA IOWA CITY - 2/4 0129 fair w/ID, a weak regular here after WPAD s/off. (CH-GA)
 KPMC CA BAKERSFIELD - 2/11 0130 good w/ID: "with 10,000 watts of power, this is KPMC Bakersfield, CA." "Serving the southern San Joaquin Valley." (CH-GA)
 1570 CKLQ MB BRANDON - Suddenly a regular here w/XERF phased out, noted 2/11 0112 & 2/18 0128 w/"Q Country" IDs, C&W mx. (CH-GA)
 1600 WARU IN PERU - 1/21 fair w/ID 0634 for AM-FM-TV. #1000. (PM-IL)

That takes care of another fine DDXD. They've been a little short the past few issues, so if your hearing anything, why not send it along?
 73....

Rocket Rqy

THE BIG 9

JWB-PA Joe Brauner, Punxsutawney, PA
 ERC-MA Ernest R. Cooper, Provincetown, MA
 CH-GA Chuck Hutton, Decatur, GA
 PM-IL Pat Mason, Mahomet, IL
 RJM-IL Raymond J. Nemec, Naperville, IL
 DS-DE Dave Schmidt, New Castle, DE
 JS-OH Jerry Starr, Hubbard, OH
 FW-PA Frank Wheeler, Erie, PA
 RA-PA Rocket Rav, Cush Net, MA

A-2515, Loop, LW
 R-390A, HQ-180, Loop, SM2
 R-390A, 2300' phased bev.
 TRF, Philco, Select-Terna
 Sony 6 Band Portable
 HQ-180A, Looped
 HQ-180A, LW-1, Loop
 S-40B, 175' LW
 SX-122, 12 oz. bev.

Lobby Seeks End to NRC

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INTERNATIONAL
DX DIGEST

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

- 550 CUBA CMAN Pinar del Rio w/LA song by male vocalist. SS talk by male DJ xint w/slight WGTG slop 2/1 1622. (Townshend, St. Pete)
- 600 CUBA CMW San Antipio de las Vegas, The Voice of Cuba 2/18 0921 coming in like a local with a story in EE about black slaves in Cuba during the Spanish colonial period. ID at 0928. (Worst)
- 657 NEW ZEALAND 2YC Wellington with minuet type of piano concert music on 2/14 from 0940-0945. (Wilkinson)
- 690 MEXICO Mexico DF XEN ID only heard at 0501 2/17 through WTIK and another station, possibly the Cuban. (Worst)
- 756 NEW ZEALAND 1YA Auckland with music of the 40's and 50's on 2/14 from 0946-0952. (Wilkinson)
- 765 EL SALVADOR YSKLD Usulutlan heard in // to 770 2/17. ID at 0230 as "KL" followed by LA mx. (Worst)
- 770 EL SALVADOR San Salvador YSKL 2/17 at the same time as above. Both about the same level, generally. (Worst)
- 774 JAPAN JOUB Akita with pgm in EE "Old Japan, New Japan" on 2/17 from 1430 to 1435. In // to 828 and 873 stations. (Wilkinson)
- 846 KIRIBATI T3K was extra loud on 2/18 from 0930 to 0952. Some type of celebration with many speakers. (Wilkinson)
- 873 AUSTRALIA 2GB Sydney very good on 2/17 at 1412 with announcer speaking to someone on the phone. (Wilkinson)
- 882 AUSTRALIA 4BH Brisbane extra loud on 2/17 1406 to 1411 playing "God Made Little Green Apples", etc. Station seems to play two selections between announcements. (Wilkinson)
- 882 NEW ZEALAND 1YC Auckland with piano and orchestra playing classical type music on 2/10 from 1046 to 1051. Also good on 2/14 with classical mx 0954 to 1000 followed by news on Carter and hostages by female anncr. 1YC has been consistently louder than 60 kw 2YC on 657. (Wilkinson)
- 891 AUSTRALIA 5AN Adelaide and 2XW Wellington, New Zealand with definite different programming mixing with each other as well as in and out on 2/17 from 1304 to 1331:40 when 5AN went off the air. Stayed with 2XW until 1406; faded in and out and finally disappeared. (Wilkinson)
- 891 JAPAN JOQK Niigata giving 250 kw HLKB a rough time on 2/17 from 1342 to 1353. Broke through many times for clear reception. (Wilkinson)
- 891 SOUTH KOREA HLKB Busan good on 2/17 from 1258 to 1304. Heard "KBS" and ID pips at 1259:55 followed by news broadcast. (Wilkinson)
- 900 GUATEMALA TGMA Puerto Barrios R. Amatique 2/18 1050 came on suddenly w/ID. XEW off. 1052 went into a SAH. Think it went into religious programming after that. (Worst)
- 950 MEXICO XEYJ Nueva Rosita 2/18 1023 female talking. ID at 1027 by a female including power followed by LA song. Kind of fluttery. KPRC off. (Worst)
- 972 SOUTH KOREA HLCA Kimje in very loud on 2/17 from 1248 to 1256 with a drama/skit with several men and a woman. (Wilkinson)
- 1008 NEW ZEALAND 12D Tauranga is becoming a regular DU for past three weeks. Also is stronger than other DU stations with same power. (Wilkinson)
- 1017 TONGA A3Z Nuku'alofa was extremely loud on 2/18 from 0953 to 0957 with woman speaking in Polynesian lang. @/17 and 2/18 were good for TP's. (Wilkinson)
- 1035 CHINA CPBS station here at good volume on 2/12 from 1400 to 1423. Programming was in CC and not in // to 1044. Heard a rather lengthy code of 5 medium and 1 long beep at 1400 (like ---). Report forwarded to Mr. Ruilliu of Radio Peking's Central Services. Will advise. (Wilkinson)
- 1100 ANTIGUA ZDK St. John's w/sports results by male. Good o/Colombian 2/5 2311. (Townshend)
- COLOMBIA HJCN Bogota, Colombian mx w/accordion, SS talk by man. Fair w/QRM 2/5 2237. (Townshend)
- 1110 MEXICO XEOQ Rio Bravo R. Juventud, a 1 kw daytimer w/ID at 1821 2/17 w/Mexican disco mx. Not // to XEPD-590 this Sunday like I reported last year. However, at several rechecks they were // for certain announcements at xx01 to xx03, more or less. (Worst)
- 1135 GUATEMALA TGVR Retalhuleu LV de la Costa Sur 2/18 0313 ID followed by a male singing a sad song. Some TVI and slop from KWKH-1130. (Worst)

- 1143 SOUTH KOREA KBS Jeju heard from 1110 to 1159:30 on 2/18. Entire pgm in EE and KK alternately. Heard anncr say at 1129:30 "tune in at the same time, same station. This is the overseas station of the Republic of Korea". Suggest that west coast DX'ers try MM between 1100-1200. (Wilkinson)
- 1150 DOMINICAN REPUBLIC Santo Domingo HIAS w/LA song by male vocal. Fair-good 2/5 2232. (Townshend)
- 1165 ANTIGUA St. John's CRL w/Bible messages and hymn by man and boy, good 2/5 2247. (Townshend)
- 1170 HAITI 4VRS Port-au-Prince w/prayer service in FF w/talk by male. Xint 2/5 2227. (Townshend)
- 1188 SOUTH KOREA HLKX Seoul heard from 1200-1209 on 2/17 with male and female speakers, religious type song, other soft mx, chimes, etc. (Wilkinson)
- 1206T NEW ZEALAND 4XO Dunedin, stuck with this frequency from 1036 to 1105 on 2/18 in hopes of nailing this one down. Heard five popular music selections up to 1100:20 then some news items by a male anncr. Static a bit rough at times. A tentative report has been submitted. Will advise. (Wilkinson)
- 1215 THAILAND HSKV Surat Thani believed to be this station heard from 1427 to 1454 on 2/12. Very similar to programming I've heard on other Thai stations on 891 and 1035 KHz from last fall. A tentative report forwarded. (Wilkinson)
- 1240 BAHAMAS Nassau ZNS2 sailing schedule for ships in port given by male, good 2/5 at 1815. (Townshend)
- 1325 HAITI 4VJCD Port-au-Prince 2/17 LA type mx but with occasional EE lyrics. 0250 fairly good level until fadeout 0253. Fade in 0255 but pretty weak. Rather difficult with KXYZ-1320 slop. 3 time pips at 0301:00. (Worst)
- 1325 UNID 2/19 0145-0500 continuous mx, no ID, looped SE. SS mx played with folk guitar, 0145 slop from WEVD 1330 cauding stn to go under. R7 readout said 1325. 0305 female with singing, 0317 male singing; all in SS. 0325 under WEVD again, 0328 and 0405 ABBA songs. 0445 strongest so far (S9+) w/SS male singing. Faded out 0500. (Weinbrum)
- 1575 THAILAND Voice of Free Asia Ban Pachi was extra loud on 2/13 from 1345 to 1355 with male and female announcers alternating. (Wilkinson)

Bill Townshend Ft. Lauderdale, Fla. TRF
Jeff Weinbrum Brooklyn, NY R7, MW1 loop
Hank Wilkinson Santa Rosa, Ca. SP600, Sanserino loop
Mike Worst Beaumont, Texas SP600, 51J4, 20' wire, wedge loop

Radio Moscow speaks to Louisville via Cuba

Louisville Courier-Journal, Sun. 3/2/79

From Staff and AP Dispatches

There they were, just a fraction of an inch down the AM band from Conway Twitty, talking about how the United States isn't doing itself any favors by not selling phosphate to the Soviet Union.

Russians! Last night listeners in the Louisville area tuned to about 600 on an AM radio dial could hear a woman with a British accent gently suggesting that not all U.S. citizens agree with the federal government's policies on trade with the Soviet Union.

"Washington's attempt to speak in a language of economic sanctions is not conducive to better relations" between the two countries, the voice said. And besides, if we don't want to sell phosphate to the Soviets, lots of other countries might, she said.

"It could have a boomerang effect on the U.S. economy," warned the voice, especially on the fertilizer industry, so important to U.S. farmers.

A casual listener might not have realized the intent of the broadcast right

away, but it was clearly propaganda. Radio Moscow style.

Federal Communications Commission officials in Washington first monitored English-language Soviet broadcasts Tuesday in Florida. They were being beamed to the United States from Cuba as part of a stepped-up Kremlin campaign to speak directly to Western citizens.

At that time officials said the radio signal was not extending beyond Florida. Sources in Moscow said yesterday, however, that the Soviet programs are designed to be heard as far north as Washington and, therefore, as far north as Kentucky. Eventually the broadcasts may last from 19 to 24 hours a day, an indication that transmitter power may be stepped up, sources said.

It may also represent a new response to extensive Western radio broadcasts to the Soviet Union, which Soviet officials have long considered a Western propaganda attempt to subvert their population through "psychological warfare."

The Cuban station is apparently broadcasting with 150,000 watts. The maximum legal power of an AM station in the United States is 50,000 watts.

Sources said Cuban authorities initially were reluctant to carry the broadcasts, presumably for fear of provoking further U.S. anger. Nonetheless, the broadcasts, from existing equipment in Cuba, started in late February.

Radio Moscow's English-language service has been on the air to the United States for years on shortwave. But only about 3 percent of American radio sets receive shortwave broadcasts, and radio hobbyists with complex equipment represented much of Moscow's American audience.

But transmissions on the standard AM dial put Radio Moscow's blend of news, music and political commentaries within the reach of any listener in the signal area, even over ordinary automobile and portable radios.

So far, the Voice of America, the United States' international broadcasting service, has refrained from broadcasting to the Soviet Union on the AM dial. Soviets need a shortwave radio to hear Washington, although millions of people have access to such radios, and the U.S. broadcasts are very popular.

Diplomats in Moscow said Soviet AM broadcasts to the United States could create a precedent for a move to the medium waves by the Voice of America's Russian service, which could vastly increase its Soviet audience.

TA TIPS FOR BEGINNERS

DAVE YOCIS

A number of excellent articles have been written in recent months regarding the best way to go about TA reception. Many beginning DXers say, "Who me? Hear TA's? Never!" At least I know I did. Yet, there are some practical tips that can turn you into a relatively proficient TA DXer. The months of March and April were my first really good TA months and, with some patience, luck, and perseverance you just might turn up some remarkable catches.

If you are a beginning DXer, you will no doubt be using a relatively low-priced receiver, without the mechanical filters or digital readout the really proficient DX machines have, such as a TRF or a low-priced communications receiver like the DX-160. Depending on your location and ionospheric conditions, these receivers can pull in TA's. But it takes skill.

The first rule is: Don't waste time. If you can pull in WWV (5, 10, 15, 20 MHz shortwave), check their ionospheric propagation reports at 18 minutes past the hour. If the K index is above 3 or 4, don't bother looking for TA's. The African stations the better DXers report (Senegal-765 and Guinea-1404) just don't have the modulation to push past the slop that the low-priced receivers are so prone to. (I've never heard even a peep from 765, and 1404 has never been at a good level for me.)

If ionospheric conditions look good, such as excellent, strong receptions of single-skip US clears (WLS, WCCO, WHO in New England make good indicators) then start a quick scan through the band. Look for heterodynes from the big European superpowers (1593 is a good high-band indicator, usually the strongest station. 819 and 639 are good beacons to lower-band propagation.) If you catch them, look for other stations. I think the other articles cover very well which stations are easiest to hear. The IRCA Foreign Log is a good reference source to determine easily heard stations in your area.

Picking out a heterodyne isn't easy if you've never tried it before. If you hear what sounds like a TT on 1590, say, try tuning off-center, first to the left, then to the right. If the tone is more prominent on one side or the other, you have a het. In this case, if the station in West Germany-1593, you would notice that the audio from 1590 is quite free from interference on the low side, but the "tt" is powerful only on the high side. If your receiver has a "bandspread" or fine tuning control, by all means use it.

Hearing a het or carrier from a TA station is not really a big event on the Atlantic coast, and you may become bored with just picking up hets from the foreign stations. The next step is pulling audio past the domestic pests. My easiest audio comes in the early hours, after 1 am ELT when WQXR-1560 and CBE-1550 s/off, leaving little or no QRM for France and Malta on 1557. It is also a fact that stations programming talk slop far less than Top 40 ones do. Thus, 1593 becomes easier after midnight in Connecticut when WQQW-1590 programs the Larry King show. Similar situations will exist in your area. Identify them, and keep a list of TA stations likely to suffer the least QRM near your rx. When a TA opening is in progress, use it. Be patient: TA stations have a tendency to take long, deep fades and may only give you readable audio on peaks.

Identifying the station once you hear it is not difficult, since you will likely be dealing with channels with a half dozen or so stations on it, not the forty-station regionals nor the 150-plus-station locals that the F.C.C. has blessed the U.S. with. Become familiar with the basic sounds of the major European languages (FF, SS, PP, GG, II are the most common, plus EE.) Your local library may have tapes for language instruction. Just listen to the basic sounds and you will soon be able to tell the difference.

Finally, be sure to report your catches to DX News. One cardinal rule (which I do not claim to have never violated myself) is that if your reception was tentative, say so! Otherwise you will likely be giving someone else inaccurate information which can lead to confusion. But do let us know if you have any success with these methods, and who knows? You may just turn up a truly remarkable catch!

A ZONAL-ANALYSIS APPROACH TO TA DX

MARK CONNELLY

This article attempts to group Trans-Atlantic countries in a manner which will permit the DXer to recognize different types of openings and to utilize each type in the most efficient manner. This idea has been spotlighted in my earlier "Common Sense TA DX Strategy" article and in articles in recent IRCA Foreign Logs. This article is an updated, more formal, version of previous works.

The paths from eastern North America to Europe and western Asia pass through an area which is often within the auroral oval. This doughnut-shaped absorption zone varies in size according to solar phenomena. The more northerly a route, the more likely it is to be rendered useless by absorption. Trans-Polar DX does occur, however; two different phenomena seem to permit it.

One is that a station skips in the "doughnut-hole" of the auroral absorption zone. The statements to follow refer to the north polar region. A normal skip may occur just south of the absorption zone, a subsequent normal skip occurs in the doughnut-hole, and the following skip occurs south of the auroral zone in the opposite hemisphere. Reception of Russians and other TA's by Brian Vernon in the Yukon appear to result from a first skip (heading out from Yukon) within the doughnut-hole and subsequent skips south of the absorption zone in the eastern hemisphere. His remarkable receptions are aided by high-gain Beverage aerials and by a lack of local stations.

A second type of Trans-Polar propagation involves "chordal-mode" propagation, sometimes referred to by hams as "grey-line" propagation. This enhancement occurs when the shortest great-circle path coincides with the sunset/sunrise line. In spring and autumn, sunset in the northeastern USA corresponds with sunrise in western China. When Wulumqi was on 1525 (clear of European QRM), the long-haul northeast US-to-west China route exhibited viability, especially in late September/early October. Chordal-mode skip is one theory offered by propagation analysts. The idea behind this is that reflective ionospheric layers are tilted at sunrise and sunset in such a way that a Trans-Polar signal bounces from a tilted (sunrise) layer in the eastern hemisphere just south of the auroral oval straight through the arctic region (under, and roughly parallel to, the layers in the region of highest absorption; the signal subsequently arrives at a tilted (sunset) layer just south of the absorption zone in the western hemisphere. From that point southward to the receiving site one or more additional normal skips could occur without excessive absorption.

Despite these Trans-Polar propagation possibilities, reception on far-north paths is generally much less reliable than that on routes farther to the south. Regularity of TA propagation to the east coast can be tagged to two parameters transcending individual station-power and interference-factor considerations: these parameters are the great-circle bearing, specified in degrees east of true north, and the great-circle distance. Based upon years of loggings, it can be stated that TA stations from due north (0°) to 40° (E of N) are usually absorbed by the auroral zone and they offer little chance of reception. They may be heard during periods of low sunspot activity and prolonged auroral "quiet" (several days of low A and K indices). Apparent chordal-mode trans-polar receptions seem to occur for high-band stations on bearings from 0° to 20° at a distance of 5500 to 6500 miles/8855-10465 km. In the table to follow, these are "zone 5F" stations.

In medium-wave TA propagation, the closer the station is to you, the more often you will hear it, if all other factors (power, bearing, freq., band conditions, QRM, etc.) are equal. The possible exception is on polar paths (zone group 5 in the table): stations in the 5500-6500 mile range may do better than closer signals because of the special-case Trans-Polar modes discussed previously.

Based upon loggings, receptions on most bearings of TA stations located farther than 6500 miles/10465 km. from the US listener are exceedingly rare. This is partially due to the high amount of absorption on such a long route (especially if much of the route is over land); also it results from co-channel interference from closer TA's. However, if South Africa had a megawatt coastal station on a good high-band split, it would have a fighting chance to get to the US because of a clear water-path and a very southerly route, far from the auroral oval. Moderate AU conditions could block out

co-channel Europeans and North Africans, thereby clearing the channel. Pete Taylor's recent receptions of American stations from South Africa demonstrate the viability of this long-haul path. South Africa is 7820 mi./12590 km. from Massachusetts, at a bearing of 105°.

The table at the end of this article arranges TA countries into zones, based upon bearing and distance from an eastern Massachusetts QTH (G. C. 70.22° W/41.68° N). This table should be of general usefulness to DXers living between Virginia and Nova Scotia; this region encompasses the great eastern industrial megalopolis from which most TA DX reports emanate. For those outside this area, TA zone tables may be prepared in the same manner by ordering a set of great-circle bearing and distance charts from a computer service. These services advertize in QST and other hobby publications; you will have to supply the service your home geographical coordinates. In my table, zones are specified by a number which refers to the bearing and by a letter referring to distance.

Group 1 refers to stations on the most southerly TA bearings, 90° to 140°. These stations may be heard best during moderately-auroral conditions when the more-numerous Europeans are eliminated and domestic skip is weakened; a typical night will have these Africans in at US sunset, followed by good Latin American conditions. To wit, Dakar - 765 and Surinam - 725 are often heard well at the same time, indicating similar characteristics of favorable propagation modes. The Africans may be heard again in the late evening/early morning as many of them sign-on just before their local sunrise times. Senegal - 765, Mauritania - 1349, and Guinea - 1404 lead the way. If these are strong and Europeans aren't in, you have auroral conditions favorable for the further pursuit of African DX targets. You might check for Gambia - 648, Sierra Leone - 1205 (or 1206), Benin - 1475, Togo - 1502 (or 1503), Gabon - 1554, Ivory Coast - 1493, and Upper Volta - 747. Historically, the spring months have provided the best openings. A coastal site, phased Beverage aerials, and low levels of electrical noise/local station QRM are advisable to "milk" sunset AU condition African openings effectively. Mike Dunn, in his DXing from Nova Scotia in the mid-70s, raised the pursuit of African DX to the status of an art and a science.

Group 2, stations on bearings of 70° to 90°, are fairly consistent, but they can be knocked out by the type of auroral conditions which kills domestic skip. The big Portuguese stations on 666, 719, 756, 782, 1035, 1061, and 1578 are your propagation beacons to zones 2A to 2D. Also check the powerhouse Moroccans on 612, 819, 828, 936, and 1044. Many of the Portuguese and Moroccan stations come in loud and clear on car radios and Realistic TRF's at Massachusetts beachfront locations around sunset. Sudan on 1296 (very rare) signals the potential for other exotic east African DX (zones 2E to 2H).

Group 3, 55° to 70° east of due north, is comprised of stations which are slightly less consistent than those in Group 2. These will be heard on nights when domestic medium skip is strong (e.g. WLS strong in Boston or in Washington). The closer-in Group 3 stations are quite consistently heard at east coast sunset (before stateside QRM builds up) and then again at European sunrise. There are many high-powered stations here, some of which can be considered as 'regular' in the eastern USA. Tune for: Algeria - 531, 549; Andorra - 819; France - 711, 792, 837, 864, 945, 1161, 1206, 1377, 1494 and 1557; Albania - 1089, 1215, 1395, 1458; Italy - 846, 1062, 1332 and 1575; Monaco - 1467; Spain - 585, 639, 684, 738, 774, 855, 1224; Tunisia - 1566; Austria - 1476; and Malta - 1557. If many of these are strong, longer paths may be viable. Israel on 738 may show during fades of the Spaniard. Libya on 827 should be noted hetting Morocco - 828; the 1125 outlet might be heard. Egypt - 1107 has occasionally been noted at sunset on Cape Cod with AA chanting at good levels. Switzerland sometimes over-rides the powerhouse 1566 Tunisian.

Group 4. The vagaries of propagation are much more apparent when we deal with this group of stations, on bearings from 40° to 55°. Paths are frequently impeded by the auroral oval; many nights are "marginal" with only the superpowered higher-frequency (e.g. 1521, 1593) stations making it through, often with very fluttery/fadey signals. "Good" openings to this area occur about 3 days a month from August to March, less frequently from April through July. Auroral blanketing is sometimes total; even the the 1593-type juggernauts don't make it. European dawn has traditionally provided better reception than North American sunset and early evening. You might want to try for the following: Ireland - 567, Belgium - 927;

Czechoslovakia - 1098, 1233, 1287, 1521; Denmark - 1062, 1431; Sweden - 1179; East Germany - 783, 1044, 1359, 1575; West Germany - 1017, 1197 (VOA), 1269, 1422, 1539, 1593; Great Britain - 648, 693, 882, 909, 1053, 1089, 1215, 1296, and 1458; Holland - 747, 1008; Luxembourg - 1440 (dissectible from the domestics during top-notch conditions); Bulgaria - 747; Hungary - 1188; Turkey - 1017; Poland - 1368, 1503; Romania - 1152; Vinnitza, USSR - 1548; Yugoslavia - 1134, 1143; Saudi Arabia - 1521 (remarkably loud for the distance); and Lebanon - 836 or 837. If many of these stations are strong, you have an excellent opening - a comparatively rare event. Given this, it would be wise to seek out rarer DX, such as low-powered British locals or exotic catches like Iraq - 1035; Qatar - 954, United Arab Emirates - 1481, and Oman - 1413 (BBC relay). These have all been heard in North America, primarily at Bill Bailey's Phased Beverage Farm in Holden, MA and at Brian Vernon's Yukon Beverage site.

Group 5 stations, from due north (0°) to 40° E. of N., are generally blanked by the absorption of the auroral oval. The chordal-mode and doughnut-hole mode discussed earlier are the exception. What we conceive of as "normal mode propagation" can occur during very prolonged periods of auroral "quiet" when the oval is at its smallest size. Enhanced high-latitude TA conditions often precede a major geomagnetic "blow-out". The mechanism at work seems to be that during a solar upheaval, radiation travelling at the speed of light enhances DX for a few days before more slowly moving ionised matter reaches Earth's ionosphere. As soon as the matter hits reflective layers, auroral absorption with a vengeance begins and most TA DX is wiped out. If many of the stations in Group 4 are booming in (especially Sweden - 1179), more northerly paths may be open. Norway - 1314; Greenland - 1425; and USSR - 801, 1386 should be checked. You are a very lucky DXer indeed if you get an opening good enough to hear these with readable audio. Other Russian and Scandinavian stations might be heard. Zones 5E to 5H might not be as good under these super conditions as they might be at a time of geomagnetic disturbance when special-case Trans-Polar propagation modes (e.g. chordal) are operative.

The author hopes that this article will spur DXers in other TA-active areas (such as Florida/Caribbean islands and far-northern Canada), experiencing considerably-differing propagation, to write similar articles.

Continued p. 12

ASSOCIATION OF NORTH AMERICAN RADIO CLUBS

15TH ANNUAL CONVENTION

ANARC >>> 80

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JULY 18, 19, 20

University of California Campus

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Banquet fee - \$10.50

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16182 Ballad Lane
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PLAN NOW TO ATTEND! PLAN NOW TO ATTEND! PLAN NOW TO ATTEND! BE THERE!

	A < 2500mi < 4025km	B 2500-3250mi 4025-5232km	C 3250-4000mi 5232-6440km	D 4000-4750mi 6440-7647km	E 4750-5500mi 7647-8855km	F 5500-6500mi 8855-10465km	G 6500-8000mi 10465-12880km	H > 8000mi > 12880km
5 0°-40°	Greenland Iceland	-	Finland Norway USSR Tallinn n. Sweden	USSR Moscow Arkhangelsk Riga Vilnius	USSR Sverdlovsk Tbilisi Zhigulevsk	Mongolia China Wulumqi USSR Alma-Ata Ashkhabad Dushanbe Frunze Irkutsk Tashkent	Afghanistan Bangladesh Bhutan India Nepal Pakistan Tibet	Indonesia Jakarta Burma Christmas Is. Khmer Rep. Laos Malaysia Singapore Sri Lanka Thailand
4 40°-55°	-	Ireland	Belgium Czechoslovakia Denmark E. Germany W. Germany Great Britain Holland Luxembourg Sweden	Bulgaria Poland Hungary Romania Yugoslavia USSR Kiev Minsk	Lebanon Syria Turkey USSR Yerevan	Bahrain Iran Iraq Kuwait Saudi Arabia USSR Baku	Oman Qatar United Arab Emirates	Maldives
3 55°-70°	-	-	Algeria Andorra France Monaco Spain Switzerland	Albania Austria Greece Italy Libya Malta Sicily Tunisia	Cyprus Egypt Israel	Jordan	Djibouti Ethiopia Yemen Rep. Yemen PDR	Seychelles
2 70°-90°	Azores	Canary Is. Madeira Is. Morocco Portugal	Gibraltar	-	Chad	Central African Rep. Sudan	Burundi Kenya Rwanda Somalia Tanzania Uganda	Comoro Rep. Malagasy Rep. (Madagascar) Mauritius Reunion
1 90°-140°	-	Cape Verde Is.	Gambia Guinea-Bissau Mauritania Senegal	Guinea Rep. Ivory Coast Liberia Mali Niger Sierra Leone	Ascension Is. Benin Equatorial Guinea Ghana Nigeria Togo Upper Volta	Angola Cameroon Congo Rep. Gabon São Tomé St. Helena Zaire	Botswana Lesotho Malawi Rhodesia (Zimbabwe) South Africa Swaziland Tristan da Cunha Zambia	Mozambique

MUSINGS

ERNEST R. COOPER
5 ANTHONY STREET
PROVINCETOWN, MASS. 02657

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

(E. Loy, con'd.) and Larry King); WCFL-1000, Chicago; WIS-560 Columbia, S.C.; WSPA-950 Spartanburg, S.C.; KLIX-1310 Twin Falls, Ida.; WFFB-910, Middletown, O.; WAJR-1440, Morgantown, W.Va.; KQV-1410, Pittsburgh; WAKR-1590 Akron; WAKE-1210, Wichita; WMIX-940, Mt. Vernon, Ill.; WWSA-1290 Savannah; KTAR-620, Phoenix, Ariz.; KXKO-1300 Tulsa; WPTF-680 Raleigh; WMT-600, Waterloo, Ia.; KVBR-1340, Brainerd, Minn. & finally WTAX-1240, Springfield, Ill. Something to think over: if AM goes to 9 kHz bandspread, should we re-verify the stations? Should we count them as new stations? Or what? Whatya think, ERC? Oh well, 'tis time to s off. 73s. (I say an emphatic NO to both re-verifying and re-counting 'em -ERC)

HERE ARE SOME MORE "FOOKIES" WHO MISSED THE LAST DEADLINE WHO IS WXQK-970 IN TENNESSEE?

MICHAEL WILLIAMS - 841 Milford Drive - Rossville, Georgia - 30741
***** Well since I just joined and this is my first Muse, I get to introduce myself. I'm M, logged over 500 stations in my almost four years of DXing. February has been good to me so far with WNET-1280 and WBNY-1440 today, but the best day has been 2/10 with WBSG-1350, WAVO-1250, WCOV-1170, WBMC-960, a new station on 970 in Spring City, Tenn. WXQK?, WLEJ-1560, WADE-1210, WFMD-930, WTAD-930, WFIT-730, WAGL-1560, WBYS-1560 & WMSQ-1590. Any information on WXQK? (Nothing here on 'em -ERC) Also if anybody can record stations received in the day or night from their area, I will do the same here and maybe we can trade tapes. Rossville is right next to Chattanooga, Tenn. if you didn't know. Also Feb. 11 received were WKOY-1240, WCOG-1320, WONE-980, WAGC-1560, & WYNY-1550. Feb. 12 I got WTOD-1560 and Feb. 13 I received WFRL-1560 & KLEX-1560. So much for my first Muse. 73 & best of DX. (Welcome to the NRC, Michael, & please Muse often, but double-space, please? -ERC)

AND A HEARTY NRC WELCOME ALSO TO A NEW NEW JERSEY MEMBER

THOMAS J. (SKIP) AREY - 1285 Hornberger Avenue - Roebling, New Jersey - 08554 WB2JHA
***** Since this is my rookie Muse I guess I should write about how I got here and what I am doing here. I have been a short-wave listener and a ham for about five years. Long discussions on two-meters with WALT SHARP, KEATV and TOM SUNDBSTROM, WXQK, made me curious enough to build an air-core loop and wire it up to my DX-160. That's all it took - I got hooked. The receivers I use for listening include, besides my DX-160, a Radio Shack Astronaut 8 and two TRF's (Diversity reception anyone?). For antennas I am currently using my trusty loop and a "slinky" longwire but I change my antenna set-up as often as new ideas pop up in publications. My Club activity in this first year has been to write a few CPC letters for NEIL ZANK but even this has been limited because I am finishing up my Master's Degree. I will graduate, hopefully, in May, after which I hope to find ways to be more active in NRC activities. Until then 73 & good DX.

AND ANOTHER BIG HEARTY HANDSHAKE GOES OUT TO OHIO

ARTHUR BERG - Box 435 - Dalton, Ohio - 44618
***** Hi, greetings from Dalton, Ohio. Since this is my first Muse I'll tell you a little about how I got started in DXing. I have been DXing since 1958 at different times and from three different places. I lived in Indianapolis, Ind. and DXed on two floor model radios. One was an eight tube Zenith and the other one was a nine-tube RCA-Victor which I still own. In less than two years I logged over 500 stations. Then I moved to Dalton, O. where I DXed on my nine-tube RCA-Victor Radio from 1960 to 1964 with a longwire approximately 100'. I logged nearly 850 stations. I still never heard of the National Radio Club. Then I got married and moved to Sugar Creek, Ohio approximately 30 miles away & I started all over & I spent about five years DXing there and in 1977 I moved back to Dalton. At Sugar Creek I logged over 800 stations. Now I'm back at Dalton, Ohio, and since 1960 here at Dalton, counting the ones I got from 1960-64 I have logged over 1,050 stations. I need Montana, Nevada, Alaska, Hawaii & a couple of New England states yet. I learned of the Club through RICHARD TROYER. I used to collect floor model radios at one time. I owned eight of them. I row DX from an SP-600 Hammarlund RX. I own a Space Magnet and this Winter RICHARD TROYER & I have been DXing from a Beverage. DXing has been fantastic here this season. My greatest thrill was logging KOMO Seattle. In my next Muse I'll tell you some of my catches. So long & lots of luck to all you, hear? (Please double-space, Arthur?? -ERC)

HERE'S ERIC'S SECOND MUSING!

ERIC LOY - 604 East Locust - MARGARET, ILLINOIS - 61857 217-586-3255
***** Hello. One vertie came in since Muse #1, it being KVOO-1170, w/v/g, it's pretty neat looking. That's #39, only 4,093 more to catch up to ya, ERC, hill (And 48 years! -ERC) I have a small list of people, in order of QSL's total, but the info's old. I wonder when the Domestic DX Achievements will be in DX NEWS? If everyone (about 775?) would send theirs in, including me, I'd probably get 773rd or so. Oh, well. Sitting on the table, ready to go, are reports to WKWF WDXK KJBF WUBE WKMG WYMK KKJO XEG CBY KGA WCKY & WHAS. I think a Total Vertie column now is just what everyone needs to send more reports. How 'bout you, ERC? I woke up at 6:20am EST 2/20 for some DX; got WESC-660, Greenville, S.C. and two s/ons at 7, neither IDed in the mess. Agh! I looked through an old (1975) Vane A. Jones Guide, & found WLL, Big Delta, Alaska, 100w. day & night! Pest WOCR-180 is now signing off at 6:45 at 7pm. For CPC's I think I'll try WOCR-180, WCLL-102, WROG-1520, WCAZ-1990, WIVS-850, WSLI-1510, WIPD WPPD-1510, WLL-580, WKZI-400, WOKZ-1570 & WAOK-1380, E of 'em! I hope at least two of them will do it. Best chances are for WCAZ & WAOK. Noted w/ Larry King Show (from DX NEWS, myself

AND ANOTHER BIG HELLO AND WELCOME TO AN UPSTATE NEW YORKER

BOB BENFISON - 2 McDonald Drive - Cohoes, New York - 12047
***** To Muse or not to Muse? That is the question. Having never Mused, I gather that the first Muse is the hardest Muse of all. Well, anyway, here it goes! By way of a brief intro, I am a brand new member (2/1) but have been fascinated by DX ever since I got my first transistor in the early 60's. I can even remember the night almost 20 years ago when I first heard XERF way up here in Upstate New York. I am still fascinated by DX so I finally decided to get serious about it. Last year I got the NRC Night Pattern Book to go with White's Radio Log. The first week in January I ordered the NRC Log & two weeks later I ordered a Panasonic RF-2600 Digital Portable to go along with it! (All from Gilfer's - great place.) I am very pleased with the RF-2600 and I think that the digital readout is the great invention since the wheel. The first week I logged in KSL-1160 and WQAI-1200 and have verified both. I also caught ZNS3-810 on 2/4 during local WGY's SP & WEAT-850 lkw from West Palm Beach, Fla. on 2/7 @ 12:20am. My big catch is KFI-640 from L.A. on 2/11 between 1 & 1:30am - my first West Coast station! I was able to copy some rock and ads, & hope to receive a verti shortly. I had very heavy QRM from SS Cuban CMQ - most of the time. I am now working on a listing of day and night regulars so I know what is a "catch." When I find out what is worth reporting I'll issue my second Muse. Till then, 73 and good DXing.

MUSE #9, ON THE 9TH, SHOWS 9 NEW ONES!

SIDNEY E. MARSHALL - 7224 Pam Drive - Millington, Tennessee - 38053
***** Muse #9 is being written on Feb. 9th with nine new stations being heard in the past week. Two of them were most wanted Arkansas stations; KFAY-1250 on 2/2 at 7pm w/ s off & singing SSR, and KFSA-950 on 2/5 @ 7:03pm, for several minutes, with AI NX folo by local & state NX, sponsored by a bank in Fort Smith. My Arkansas station total is now 73 heard. Due to the snow emergency in Kansas, on 2/7, I was able to log KFDI-1070 @ 9:45pm as they were on their daytime power. They were in very strong, for about 20 minutes, blocking out semi-local WDLA! My other new ones are as follows: WKRC-550 O. on 2/3 @ 10:40pm with station promo & several "55-KRC" slogan IDs heard. WTIM-1410, Ill. on 2/4 @ 6:24pm with upcoming events & ID, WOOD-1300 Mich. on 2/5 @ 6:31pm with end of commentary & station address, WTKC-1300 (ex-WBLG) @ 6:43pm with slogan ID, mx, & regular ID. KTLN-920 Texas on 2/7 @ 6:48pm w/WX, spot, ID, & mx. Then at 11:23pm KPRD-1370 Texas boomed in with spot for apartments in Longview, mx, SID, mx, full ID @ 11:30pm and promo for station contest. My station grand total now stands at 694, of which 658 are U.S. stations, for ten months at the dials. The Mizuho Audio Processor arrived a couple of days ago, and, in the short periods of time that I've used it, I'm well pleased with it. I must s/off for now, and, as my DXing sked is unsure for the next few weeks, all I can see is I'll see you when I can! Good DXing to all.

THOUGHTS ON THE LOOP/LONGWIRE COMBO

NICK HALL-PATCH - 3272 Alder Street - Victoria, British Columbia - V8X 1P2
***** I was interested to see Paul Swain's Loop/Longwire Combined Antennae article from Medium Wave News included in DX NEWS. I've been using a similar circuit for some months here (details courtesy of an English DXer), and could perhaps make a few comments regarding it. According to theory, this cannot really be described as a "cardioid" antenna because a longwire is not omnidirectional, but, in practice it can be used to null out some stations 180° away from a desired signal. It is mainly effective on groundwave signals - I can get a total null in the daytime on CHQM-1320 and clearly hear KXRO 180° away; at night, with a sky-wave component to CHQM's signal, no way. On my locals (all strong), an interesting effect occurs (also noted by RON SCHATZ in his LSCA article); I can often null the station's carrier nearly totally, but the sidebands remain to create havoc. That seems to be the circuit's main drawback; it is very frequency selective... the effect is often noted on semi-locals as well. Nulling the carrier alone just isn't good enough unfortunately - you need to null the sidebands too. However, the circuit is simple, and can give you nulls which a loop alone won't deliver - just don't expect too much of it. There seems to be more adjustment of the controls needed than the article implies; I use the two potentiometers a good deal. For those who are IRCA members, more details on the system should be appearing in the IRCA technical column soon. Best of DX to all.

SOMEWHERE ALONG THE WAY WE LOST THE "A.B.C." ISSUE FOR MUSINGS. THIS ONE IS FOR THOSE IN THE CLUB FROM TWO TO NINE YEARS, AND NEXT WEEK WE WILL HEAR FROM OUR IRISH-DESCENT MEMBERS. THAT DEADLINE, OF COURSE, IS PAST. THE NEXT SPECIAL HONORED GROUPS WILL BE:

DEADLINE DATE IN PROVINCETOWN	MEMBERSHIP	MASTHEAD DATE
Monday, March 17	MEMBERS IN ANY STATE/PROVINCE WITH A COASTLINE.	Monday, March 31
Monday, March 31	MEMBERS IN ANY CITY/TOWN WITH MORE THAN ONE WORD IN ITS NAME, LIKE "APPLE VALLEY", FOR EXAMPLE.	Monday, April 14
Monday, April 14th	THIS IS THE DEADLINE DATE, BUT NOT IN PROVINCETOWN - THIS IS THE ISSUE TO BE TYPED BY DAVID YOCIS, WHOSE ADDRESS IS: 502 WEST McDONEL - EAST LANSING, MICH. 48824	Monday, April 28

MORTON D. MEEHAN - 7682 North Star Avenue - Twentynine Palms, California - 92277 2/18/80
 ***** It took me ten hours to drive home from the SCADS February 16th meeting because of floods, mud and rocks on the highway but it was a very pleasant day. The usual HAP auction was held where you pay for junk some other DXer's wife made him throw out. At each SCADS meeting we probably raise as much for HAP as most conventions have. Highlights of the meeting were new receivers displayed by Radio West and a talk on same. Also the Convention was a big item. Low room and meal rates at the University of California (Irvine Branch) made it attractive. This is near the Orange County Airport just S of Los Angeles. The NRC Convention will be held near the Los Angeles (LAX) airport later in the year. SCADS is a remarkable group. It covers DXers from LM to UHF and they come from 150 miles or more around Southern California. Presidents of at least five DX Clubs attend as well as many BOB DXers. I've noticed members of the Scanner Club (RCMA) are catching the DX fever from other bands by attending. NRC'er GARY RAID drove from Las Vegas in the rain on a motorcycle for this meeting. On the DX front I notice the Orient is coming in good once again. The 682 kHz station was stronger than WLS Feb. 16th at 8am EST. On the hour it IDs with three or four short beeps folo by one long one. I thought it was from Japan but a better DXer out here says it is from Mongolia. Wow!

A DAYTIME BROOKFIELD BANDSCAN

MICHAEL JEZIORSKI - 3908 Circle Drive - Brookfield, Illinois - 60513 2/10/80
 ***** Here is a groundwave survey of Brookfield, compiled from many hours of daytime DXing. Following each station is the strength of its signal: e-excellent, v-very good, g-good, f-fair, p-poor, s-seldom or once heard. 540-WYLO vg, 550-KSD-g; 560-WIND e; 580-WILL vg, 590-WKZO vg, 600-WBT vg; 610-WTVR p; WDAF p; 620-WTMI e; 630-CFCO g, KKOK f; 640-WOI p; 670-WMAQ e; 680-WDRB s; 690-WAGO f; KSTL s; 700-WLV g; 720-WGN e; 740-WVLM p; 760-WJR g; 770-WEF s; 780-WBEM s; 790-WSGW f; 800-CKLF f, KKIC s, WKZI s; 810-WJPH s; 820-WAIT e; 850-WIVS vg, KFUP p, KPEZ s; 860-WNOV f; 870-WEAR f; 890-WLS e; 920-WOKY f, WBAJ s; 930-WBCK f; 940-WFAP p; 950-WJPC e; 960-WBET p; 970-WHA g; 980-WITY g; 1000-WCFL e; 1020-WPEO p; 1040-WHO f; 1050-WLIP vg, WDS z; 1060-WHPB vg; 1070-WIBC g, WTSO f; 1080-WNWI vg, WPOK s; 1090-WGLC g; WNU-e; 1110-WMBI e; 1120-KMOX f; 1130-WISM vg, WCXI p; 1140-WVEL f, WISM s; 1160-WJJD e; 1190-WOWO g; 1220-WLPO f, WKRS p; 1230-WJOB vg, WJBC p; 1240-WEDC/WBSC/WCRW e, WSDR s; 1250-WEMP g, WIZZ p; 1260-WNDE f, WKEZ p; 1270-WACA vg, WHEF p; 1280-WMRO vg; 1290-WIRL f, WNIL p; 1300-WTAA g; 1310-WIFE p; 1320-WKAN vg; 1330-WPEZ vg; 1340-WJOL vg, QTRC p; 1350-WIOU f; 1360-WLKB g; 1370-WLTH g; 1380-WBEL s; 1390-WYON e; 1400-WJSM f, WRJN p; 1410-WRMM g; 1420-WIMS f; 1430-WEEF g, WCMY s; 1440-WROK s; 1450-WCEV/WXOL e; 1460-WIXN s; 1470-WMPP f; 1480-WGSB p; 1490-WOPA e; 1500-WAKE p; 1510-WJRC vg; 1520-WHOW p; 1530-WKDC vg, WCKY s; 1540-WLQI p, KKEL s; 1550-WCSJ g, WMR p; 1560-WRIN p; 1570-WBEE vg; 1580-WFVR f; 1590-WONXvg; 1600-WMCG g, WCO3 p, WAAM s; 1610-KMR824 f. 73s. (Where's that last one, Michael? -ERC)

DAVE PLEADS FOR MORE MUSES

DAVE RUKAKOSKI - RFD #1 - Box 409 - Brooklyn, Connecticut - 06234 2/20/80
 ***** Hello again from the "other Connecticut" or what is known to us as Eastern Connecticut, hi. A variety of things to say. Since the first issue of DX NEWS this season a total of 168 members have contributed at least one Muse; why, that's not even close to half of the 700 or so members in the NRC. I've got an idea - what about everybody sitting down right now & writing out a Muse, then swap ERC with hundreds, making one giant of a Musings section? Wouldn't anyone like to see an issue of DX NEWS with over 70 pages for once? Just 168 Muses at one time would be something to see! That would also come as a shock to Ernie who would have to type 'em, hi. On to DX-Land; 2/11-WELV-1370 @ 5:30 s/off, 'twas so loud I could have sworn that their towers were in my backyard, hi! 2/13-unn WDRB-1590 from 5:11-5:13pm w/many spots; then a relog of ex-WBVM, WUTQ-1550 from 5:20-5:27pm w/many "Country UTQ" IDs along with C&W mx & talk. I hear too many unID TTers in the morning hours, my ears ring for the rest of the day, hi! 2/17 had many unID TTers heard; 1310 from 1:19 to 1:30-plus, 1350 one just disappeared @ 1:45am just to name a couple. 2/18-WSPD-1370 @ 12:55am "Statler Bros. on WSPD Radio". 2/19 I heard WSIG-790, WOHN-1440, & unn WAHT-1510 on f/cs per 1980 check list (in Feb. 4 issue of DX NEWS). Larry King says he now has 184 stations on his network, including WTOB-1380; remember when he started out w/28? I think the network will start to crumble soon, what I would hate to see is 90% of U.S. stations join that network! That would make DXing crumble, hi! Total domestic heard has stalled temporarily at 740. 73.

DAVE'S GOTTEN SOME MORE GOOD ONES

DAVE SCHEMIDT - 42Chelwynne Road - Castle Hills - New Castle, Delaware - 19720 2/19/80
 ***** When you have a little DX news, then there's no better time for a Muse, right? To what's heard/reported; 2/9-WTMC-1290 5:33-5:43pm w/r, right on top after local WJBR pulled their OC off for the evening. 2/10-WREX-1530 5:44-6pm w/c/w mx, N.C. net NX, for another try at a verie. Studio location was given as Durham on one spot noted. 2/18-WLBA-1130 2:08-2:17am ET w/c/w mx, IDing about every minute, way atop WNEW. The WROM-710-TEST snuck u/WOR's idle chatter, 2:21-2:29am w/instrumental mx. 2/19-WKMG-1520 6:13-6:15pm w/long detailed WX, then quickie s/off, no SSB. A f4up was sent to WNWG-790. One verie back: "Correct...Yes!" written on my report to WTMC-1290, signed by GM, who also sent a business card, CM, sticker & visitors' info on Ocala. Total: 1,016. It's probably been announced by now that I'll be taking over the DDYD editor's job which RAY ARRUDA is leaving. We all owe Ray a big thanks for a job well done & I hope the support will continue when I take over. Philadelphia area members may want to take a look for a station IDing as WESP on 640, it's very weak here (S-6 tops), very little talk. Either this is an outlaw or a college station that's hooked up wrong, so if anyone hears them please let me know. Take note BEN DANGER-FIELD, WQIQ may be off their AN sked - noted off both 2/17 & 2/18. Till more hits, 73's.

TONY RECALLS HIS ALASKA DAYS

TONY FITZHERBERT - 116 Devon Road - Chalfont, Pennsylvania - 18914 2/22/80
 ***** Hi, everyone! DXing & mail call are great in Chalfont, with a continuous flurry of veries - the biggest success being WHHH-1440, O., as WNPV-1440, down the road, started broadcasting 6am to midnight on 1/21 with an extension of their MOR & local SX format. WBUD-1260 will soon go to a daytime T-40 format, w/Black-oriented programs at night, & WZZD is rumored to be going REL & NX on 4/1. Alaska radio - from my Army days in 1964-65, as promised will have to go to two Musings. Since stationed there, the total number of AM stations, mostly on low clear frequencies has increased from 15 (not counting AFRS) to 28, according to DX NEWS & Domestic Log data. All were ND & there was no live network feed. Out at Milepost 21 of the Alaska Highway we got most of the stations on our copperwire & cyclone fence aerial. KTKN-930 was a 5kw commercial, MOR VAR monopoly in Ketchikan. Sitka was served by commercial POL KIFW-1230, 250w which we could not get, & KSEW-1400, 250w, a non-profit, REL broadcaster no longer on the air. We did not receive KRMA-950, 1kw, in Seward which offered a classical/VAR format at SH (but did occasionally get KJR-950, Seattle). A regular visitor was clear channel KINY-800, 5kw, Juneau, owned by the Midnight Sun Broadcasting Co., with POL format & heavy Juneau NX & SX. The signal was almost local, & was received also on a portable at Fort Lewis, Wash. Not as regular was KJNO-630, 1,000/500, with studios in a Juneau motel, and an album, BFL format. Cordova was represented by KIAM-1450, 250w with album mx, local NX, & VAR at SH. They were 325 miles away, is that a GY achievement? Nome offered KICY-850, 5kw, "The Voice of the Arctic", owned by the Evangelical Covenant Church, the California Meeting of Friends, & the Lutheran Church. Format was local HI hourly, 25 minutes of album mx, & 30 minutes of religion each hour - something for everyone! They were on 6am to 11pm, & the station logo was a polar bear & a cross on an iceberg. The ER on the wet tundra put out a very good signal! KCAM-790, 5kw, in the settlement of Glenallen (1960 population, 1651) - what do they do for AM drive? owned by Central Alaska Missions, with studio in a hut behind the mission hospital, copied KICY's format - local NX; album mx, and 30 minutes REL each hour from 6am to 11pm. Only FM station received at NP 21 was KUAC, local outlet of the U. of Alaska with VAR/GLA from noon to midnight. Anchorage & Fairbanks next time! Sorry this missed both the rookie & Pennsylvania issues, and 73's.

DAVE'S ARRANGED HIS FIRST CPC TEST!

DAVID ARBOGAST - Studios, 3851 Porter Road - Rootstown, Ohio - 44272 216-325-2807
 ***** Hello all. Not much DX going around these parts, mostly CPC work lately. I did manage to get reports out to some semi-local stations. WQFT-1500 is now doing a Sunday morning show with teen-agers jocking and using the call WYOU. They still have to ID as WQFT on the hour, but they go w/WYOU the rest of the time. Is this legal, I wonder? (I doubt it strongly - WYOU-1550'd be interested to hear about it, no doubt -ERC) Other catches include WJMO-1490. They are a very weak station! This was at 11:18am, so they were 1kw. WEST-1260 in fair w/Dan's Poultry Spot w/a character called the Chicken Man, 9:18, 10:39am. Reports out to WWL, WAKR, WCAU & WIAC. Copy of s/on sent to CBL-740. Do they ever say their call letters? I never have heard them transmitted! They always call themselves CBC-740. Oh well. Veries back from WSM & WKNT. I arranged by first TEST! Charles Ring, CE at WPIC, said he would TEST for us! Should be good. I hope CX are favorable. One question for the Ed- which way is WPTP phased? I never can get them - always KEEL. A lot of people complain about murderous slop from WPTP, but I haven't been so lucky. (Lucky??? -ERC) Well, I think we had an AU last night, but I'm new, so I couldn't tell one if it jumped up and hit me in the nose! CHML was not on the channel, just someone in SS. WOWO not noted, another SSB. I couldn't tell what they were saying since I have a "D" average in la clase español. Oh well. That's all for now. BCNU. 73's and good DX to all.

SIDNEY'S GETTING SOME GOOD EVENING DX

SIDNEY E. MARSHALL - 7224 Pam Drive - Millington, Tennessee - 38053
 ***** Due to a delay in my work sked change, DXing continues and Muse #10 is being written on Feb. 17th. Ten new stations heard during the past week, which has pushed me over the 700 mark to a grand total of 704 new ones since April of 1979. On 2/11 four new ones rolled in as follows; At 1:56pm WABG-960 Miss. was in with good signal, for over ten minutes, with several spots, WABG Girl Friday promo, ID, CBS NX, & mx. This has been a tough one for me, as I've been gunning for it for over a month! Later in the day, (2/11) WRTB-590 Ill. in very strong @ 6:29pm with WX, ID & mx, folo by KWR-1380 Mo. @ 7:29pm, in & out several times, for the next 20 minutes, with several spots, mx, couple of ID's & TC heard, then at 9:52pm KOTN-1490 Ark. punched in with "The place for music is KOTN" and then into mx before dropping out. Then the next day, 2/12, three more new ones as follows; WMOB-840 Ala. in very good @ 6:10pm w/WX, ID, local & state NX, then KONO-860 Texas @ 7:02pm, with full top-of-hour ID & TC, heard u/CJBC, and last was WGAZ-910 Ga. in, fair to good, @ 9:09pm. The others were WRBE-1440 Miss. on 2/15 @ 6:44pm w/mx, then full s off & SSB. WNAZ-1400 Miss. was in good on 2/15 at 6:51pm with clothing store spot, ID, and mx, and also on 2/15 at 10:53 pm WCTW-1550 Ind. was in, fair to good, with score of New Castle BKB game, broadcasted a bit earlier, other local area high school BKB scores, WX forecast with travelers' advisory, temperature in New Castle, and ID heard before KKJO took over once again. I would assume it was on past the s/off time, shown in the NRC Log, due to the broadcast of the BKB game(s) or has there been a change in its s/off time? Bye for now, and good DXing to all.

REMEMBER THAT WE ARE TO HAVE OUR BACK-UP EDITOR DO THE MUSINGS SECTION FOR THE APRIL 28th DX NEWS. HIS DEADLINE WILL BE MONDAY, APRIL 14th in EAST LANSING, MICHIGAN. His address is: DAVE YOCIS - 502 West McDonel - MSU - East Lansing, Michigan - 48824. LET'S MAKE SURE HE HAS A LOT OF WORK TO DO FOR THAT ISSUE! PLAN TO SEND HIM A MUSING, AND THE SAME RULES APPLY - STICK TO 30 LINES AND PLEASE DOUBLE SPACE. OUR THANKS TO DAVID FOR THIS OFFER!

Each Summer our family went to Cape Cod, usually to Dennisport or West Dennis. The effects of waterpath enhancement astounded me: WMA-S-730 (now WJTO) was in like a ton of bricks during the day, all the way from Maine. Many of the stations logged were closer to the Arlington, Mass. home location, but over land it is; therefore, they had never been heard until I DXed from the Cape. Maritime CW station WCC in Chatham sometimes got in to the IF of the cheaper portables. Also, there used to be many more modulated CW beacons down around 530 kHz. Police AM transmissions were common just about 1600 kHz; furthermore, Russian trawlers cruising off Cape Cod were evident in the high end. Latin Americans blasted in at night on Cape Cod much more than they did in Boston. During the Summer of 1962, I regularly checked Swan Island on 1160/1165 kHz, a local-like pest in the West Dennis area. In 1962, foreign DXing began in earnest with the purchase of a World Radio-TV Handbook and a portable RX w/SW. Favorite SW shows included the "DX Jukebox" from R. Nederland. The Cuban Missile Crisis of late '62 brought about a bomb-shelter building craze; many U.S. clear-channel stations broadcast SS propaganda to Cuba. I remember using an "Omegas" eight-transistor pocket portable for AM. For a pocket set, the Omegas was a really good "DXin' machine" - I used it to DX on the train when we went down to NYC for Christmas shopping. Other memories include solar-eclipse DX during the Summer of '63. With regards to programming, WORC-1310 is well-remembered because it was way ahead of its time by playing British war hits a year before the British rock "invasion" of early '64. Some of these songs, not heard on Boston stations, were "5-4-3-2-1" by Manfred Mann, "Lucky Lips" by Cliff Richards, & Gerry & the Pacemakers' version of Beatles-written "From Me to You". Late '63 had nights of good TA's & also nights of extremely heavy AU CX, with the band being wiped clean of all domestic skip. Hearing the "pirate ship" stations off of England became an important DX objective, especially after I saw an episode of "Secret Agent Man" on TV, depicting such a station. DX "regulars" included Bermuda on 1235 & ZNS on 1540; for reason I'm not too certain about, ZNS was much easier in '63 than it is now.

NOT MUCH NEW, BUT SEVERAL INTERESTING STATIONS

ERNIE COOPER - "THE CAPE TIP DAKER" - 5 Anthony Street - Provincetown, Massachusetts - 02657
 ***** Only one verie in, but it is Country #79, Denmark-1062 for reception in 10/79, v/1-EE, nice & definite. It is my European #85; correction from the figure I gave you a while back. Newsies on the Larry King Thing: KAKE-1240, KCMJ-1010, WDAK-540, WFOR-1380, WTSE-1310 and there's 186 of 'em now. DX: 2/12- Two Tters on 1270 @ 12:48am, no ID from either. One on 610 w/rip off; perhaps 'tis WIP doing the testing. CKFH-1130 & KRLM-1570 were also off. 2/13- Umm XEHA-540 atop @ lam. Umm Semi-local WLNK-990 on, relaying their AN FM BFL mx @ 1:27. On 970, WUSH was on OC only, w/WAVE behind it. In the SSS, WCSH-970 was totally off @ 5:19 w/CBZ filling the void, but hopes for a 970 cleanup were dashed when they came back on @ 5:39 saying they'd been having XR troubles. P.Q. stations don't go off day pattern this month till 6:30 which is 1:15 later than our local WVLC-1170! Howcum? 2/16- TT on 1410 @ 1:01 & 1400 1:05-1:27, no announcements noted, then HJAS took over the channel from Barranquilla. On 1230, @ 1:46, umm WSOX atop, indicating AU CX. WPKR-3540 was on OC only, but 1550 was just a mishmash of hets or TTs or a combo of both. Umm WMEL-920 w/WJAR @ 2:43am. SM 2/17- WSAR-1480 & WBEK-1420 were both off, as was Cuba-590. Umm WNEF-1290 noted @ 1:07 end of NX, & WQXR-1560 on till 1:20 today. Umm WTMA-1250 atop @ 3:16. MM 2/18, Worthington's Bashday. A tentative report was sent to WRWE-1350 r/c, noted 12:05-12:09, no IDs caught. A Tter on 1290 @ 12:28-12:50 went unIDed - their fault, hi. WBAL-1090 s/off @ 12:41 w/Band SSP. A Tter on 1390 @ 1:24am, soon lost w/WBXX. WNN-1050 was off for the first time in ages today & a R. Nacional in Venezuela was holding forth there, no XEG noted; also a Colombian in there. Umm WROM-710-TRST was in, no KURL-730 though. While trying to relog WYWS-790 u/CRSO, my last-season "cuckoobird" was heard again in there - I still don't know who he is. YAMT-1060 was good @ SSS today. 2/19- Very noisy; umm WHOL-1600 r/c-TT made it through WUFR/WVRL/WIXY today, & I sent 'em a report. I note a loud OC on 1329 now, it must be the Haitian slipped off of 1330. WIP-610 was off for the third consecutive Tuesday. 2/20- Summerlike noise today, DX impossible, alas, for a call from ROLLAND LINDBLADE told me much-wanted KUOM-770 was on testing w/ol mx. 2/21- HIZ-730 was way atop at 12:55 to 1:01am s/off w/their NA, I still need this one; not enough this time for a report. That OC on 740 isn't CBL's as I heard them s/off through it, so it has to be CBBM, a remote-controlled CBC station. HJAS-1400 good again today. Umm WFMJ-1390 had an ET/TT & IDed @ 3:02am through the AN mob. 2/22- An FCC giving the "CBOF" call is burrowing in w/o WOR around lam these AMs- they carry the CBC net FF NX @ 1, then s/off w/o Canada @ 1:03 - is this CIPC, per chance? No individual IDs are given as far as I can discern. And, it's their carrier that stays on AN thenceward! I'd like to thank these kind NRCers for their phone calls of late: FRANK MERRILL, GARY LOVEGREN, RAY ARRUDA, ROLLAND LINDBLADE, DAVE SCHMIDT, RON SCHATZ, & JERRY LEON. And, I had two swell visits recently, from the afore-men-tioned FRANK MERRILL and RAY & ARLENE ARRUDA. Thank you for coming, and come again! C U N 7.

HARRY HAS A STRONG WEEKEND!

HARRY J. HAYES - Star Route - Box 226c - Gouldsboro, Pennsylvania - 18424 EST
 ***** DX for the weekend of 2/16-17 follows. 2/16- 5:45pm, WPCS-760 Tarboro N.C. in alone w/rr on this somewhat AU eve, s/off 5:45. 6pm, WRHL-1130 Rainelle, W.Va. s/off weak to fair w/96.7 FM promo. I don't know if this was in strongly w/c/w ten minutes earlier; new one. 6:30pm, WIZO-1380 Franklin, Tenn. long country-style SSB before s/off. SM 2/17- 2:03am KPI-640 slightly better than on 2/10. 2:15, WPAD-1560 Paducah, Ky. weakly w/SIDs between c/w. 2:55, WEAM-1390 Va. AN w/Mor & standards. 3:55, WERC-960 AN-rr. 4:05, WJCV-910 Johnson City Tenn. w/state NX into long SX report @ 4:10, c/w @ 4:20 "The King of the Country." WCHS-580 W. Va. strong, going AN w/T-40. A-Index on WVW was at 46 for 2/15; this didn't seem to affect DX on 2/17. Best regards.
 RON SCHATZ called with the info that R. MOSCOW's N.A. service, same as on 'SV, is now on the 600 Cuban in EE from 6pm to midnight daily, also 6-9am. This station is silent 9am-6pm!

HOW IT ALL BEGAN

STEVE FRANCIS - "THE NO-FRILLS DXer" - 1530 Lodge Street - Alcoa, Tennessee - 37701
 ***** Since this is the "1 thru 9" issue & since I've wasted (hi) nearly a decade of my life in this hobby, I guess now's as good a time as any for a summing up. Sometime in January or February of 1969, I was searching for a rock station somewhere on the nighttime dial (rock was worth listening to in those days), local WOX-990 having left the air a few minutes earlier for its regular M.F.P. I had dialed way up to the high end when I heard an EE ID for what I would later know as XEZF-1570. All I caught was the "X" call & the mention of Mexico, but it was enough. The AM dial & its jungle of unintelligible interference at night suddenly acquired a fascination in my eyes that persists to this day. Shortly afterwards, I discovered CEW-990, and, a few weeks later, KSL-1160. Being woefully ignorant of U.S. geography and only knowing that Salt Lake City was "Out West somewhere like Chicago", I nearly fell over when I got the U.S. map out and found it. How I found out about DX clubs is too complicated a tale to go into; suffice it that it involves an article GLEN HAUSER sold to TV Guide on TV DX which led to trying for some which led to picking up XHY-2 which led to the U. of Tenn. library to try and find out where in Mexico XHY was, which led to the WRTE, which led to the NRC & IRCA addresses in the back. But for that TV Guide story, I'd probably still be getting off on XEZF & KSL, hi. Formal DX & keeping a record of each station heard began in April 1970, shortly after the arrival of my first sample bulletin. My biggest goal has always been to hear all 48 continental states. 45 of them were tagged in the 1970-1974 period, Oregon made it in '76, but Nevada & Maine remain unheard after almost ten years. Do they really exist? All my DX has been on the \$29.95 Realistic TRF with no external antenna or other hardware - just me, the TRF, the tape recorder and the wall plug. Current totals of 2,301 are broken down into 1,928 U.S.A., 77 Canadians, 289 Pan Americans, four Europeans, and two Africans. All six TAs & 17 of the Pan-Am's are splits - rest are all on ever frequencies. It's been fun - may it continue. A big "Thanks" to ERNIE COOPER and all the other editors, publishers & contributors who make DX NEWS a reality. A little recent DX: 2/14- WJQS-1100 hiss, downright loud @ 12:59am w/c/w to 1 s/off w/choral SSB, had been my only needed Jackson for several years. MM 2/18- No sign of the TESTS from KURL-730 or unnn WROM-710 - I doubt whether the latter showed - but I did hear my first TIS station. While monitoring 540 @ 4:30 for CBT's reported s/on (how's that for optimism?) I heard a weakie on 530 IDing as "Gatlinburg Information Radio" giving info on accommodations, road closings, etc. in a continuous four-minute tape loop. The narrator calls himself "Smoky Mountain Sam." It was really weak ever at this close distance, probably no more than a watt or two. 73, best DX.

GERNY'LL SOON MOVE INTO HIS NEW HOME

GERNY THOMAS - 2355 West Michigan Avenue - All - Pensacola, Florida - 32506 2/12/80
 ***** I haven't Mused since the Solid South issue so I guess it's high time. Local WCOA-1370 is in the process of moving its three towers about five miles N of their present location. This will position them about one mile away and will make them easily visible from my "radio room" window (along with the towers of WYEM-610 & WPPA-790). Luckily, we should be moving around the middle of March so the effect of the WCOA re-location will be tempered somewhat. The new house is really in a unique location - a part of Pensacola called "Baycliff" which is the highest point (100'+ plus above sea level) in Florida which borders the sea. Several hams in the area swear by the location so I'm looking forward to some good DX. And speaking of DX (which is what we're supposed to be talking about anyway, I guess), I've noticed that several NRCers have followed MARK CONNELLY's lead and have sent in Musings containing daylight catches and groundwave surveys. You folks who scan the band during the daylight hours might be interested to know that a new Midday DX Records (distances & totals) column is now appearing in IRCA's DX Monitor - you might want to check it out. Another thing, the February 1980 issue of Scientific American contained an article entitled "The Allocation of the Radio Spectrum." The article makes for interesting reading but the highlight is a chart which delineates the frequency bands to which various types of communications services are assigned. It covers 10 kHz to 300 GHz & is something I've been looking for for some time. Finally, my Muse in the Solid South issue stated that it is not possible to align the IF stages of the GE superradio for improved selectivity. That was a misprint. It definitely is possible. I'm way over, so 73's.

WELL-KNOWN DJ "COUSIN BRUCIE" BUYS WRAN-1510

GERALD H. BARKOW - 29 Sedgewick Drive - Morris Plains, New Jersey - 07950 2/11/80
 ***** DX has slowed down here but I've still managed to get a few new catches. MM 1/21 I had an apparent Eter on 1550 transmitting regular programming from their FM outlet & IDing as "2WD" from 1:15 to 1:24am when they cut to an OC. Music was T-40 w/EST TC's. The signal was very strong. Any idea who this might be? MM 1/28 produced newie WVLV-1550 w/T-40 music 1:25 to 2 s/off with "That's all, folks" through another WMOO ET. 1/29, good SSS opening to the S produced two new catches. WEYY-1580 5:50-6pm s/off using the slogan "When WEYY signs off, even the sun goes down." I stayed on 1580 and heard WMP with Paul Harvey rews until 6:15pm s/off. 2/2- WPIV-1580 w/a PoF test 12:10-1:00-plus killing another Saturday AM WYFA ET. Veries in from WEDH (two months), WYFA, for an Oct. 1979 report. WFMC and WNCN. The WFMC verie was typed on the back of a bumper sticker. Local WRAN-1510 has been sold to ex-WABC/WABC DJ Bruce (Cousin Brucie) Morrow & partner Robert Silverman for a price in excess of \$1 million. They already own WAIL-1340, Middletown, N.Y. Their plans are to expand to a 24 hour sked and to apply to the FCC for a daytime power increase to 50,000 watts & a nighttime increase to 1,000. Just what we need, another Aner. 73's.

RON SCHATZ CALLED, AT GOING-TO-PRESS TIME WITH THIS INFO: THE CUBAN ON 600 STARTED NIGHTLY RELAYING OF RADIO MOSCOW'S EE BROADCASTS FROM 6pm TO MIDNIGHT, & FROM 6:00-7:00am & WFLI: IT IS // MOSCOW'S EE SW PROGRAM. FROM MIDNIGHT TO 6am THIS STATION RUNS ER AND ASKS FOR RECEPTION REPORTS. THEY ARE SILENT FROM 9:00am to 6:00pm. IT HAS A POWERFUL SIGNAL.

NEIL LOGS SOME RATHER RARE QUES

NEIL G. ZANK - 623 Lyncrest Drive - Lincoln, Nebraska - 68510 2/19/80
***** I have been meaning to kuse, so nere goes with it. It has taken a while to build up some DX to report, but with five newies on 2/18 & 2/19 it makes it worth the effort.

GUY'S HOBBY IS COLLECTING HOBBIES

GUY KUDLEMYER - 1314 City View #1 - Eugene, Oregon - 97402
***** Howdy. This Muse is intended for the 2-to-9 year member issue. I've been a member for going on four years now, so I felt it was time to let myself be heard from again.

PAUL'S NEW ANTENNA IS PULLING 'EM IN

PAUL SWEARINGEN - Box 500 - Moran, Kansas - 66755 2/9/80
***** Well, I'm snowbound again, & when that happens I always DX & write letters. First, a big thank you is in order for the NRCers who wrote in response to my call for technical help in the 12/28 issue, including ED LAWLOR, MICHAEL COUGHLIN, & DALLAS LANFORD; I hope I didn't forget anyone.

JEFF'S BANDSCAN: PART II

JEFF FALCONER - Box 63 - Chatham, Ontario - NOW ILO 2/14/80
***** Hi everyone and Happy Valentine. Continuing my daytime band scan from the last time: 1210: WKNX/weak WCAU. 1220: WGAR/CHSC. 1230: WMPC/CKMP. 1240: CJCS. 1250: CHWO/WXOX.

CKRC-630 HAS A NEW C&W FOREAT

MORRIS SORENSEN - Box 764 - Leaf Rapids, Manitoba - R0B 1W0 2/12/80
***** First of all, contrary to ERC's headline in the Feb. 4th DX NEWS I was not in Toronto in December, but rather in Kirkland Lake, 365 miles N of Toronto. Last weekend I was in Winnipeg for a track meet & took the TRF along.

STEVE FEELS PESSIMISTIC ABOUT THE 9 kHz SEPARATION

STEVE KENNEDY - Box 231 - Immokalee, Florida - 33934
***** Howdy from the Ear of the Everglades. No DX to report, I will have plenty in next one. The remainder of this kuse I wish to comment on the proposed 9 kHz spacing which the FCC has given an affirmative nod.

A CAPTAIN IS TEARING UP TERRY'S LOCAL WDRO-580

TERRY L. KRUEGER - 84 Winter Park Drive, South - Casselberry, Florida - 32707
***** It's been some time since I've sent anything in to the NRC due mainly to work & other interests here. Some recent observations noted include P. Haiti-Inter ultra-strong on 1325, ex-1330. The Cuban on 600 blasts in nightly from 13:00am in EE, much of the programming consisting of old trash from H. Havana, Cuba.

O.K., ALL YOU SEA CAPTAINS AND FISHERMEN & LONGSHOREMEN - OR ANYBODY ELSE WHO LIVES IN A PROVINCE OR STATE THAT HAS A SEACOAST OR GULF COAST - GET YOUR MUSINGS IN FOR THE MARCH 31 ISSUE - THE DEADLINE IS NEXT MONDAY, MARCH 17. PLEASE BE SURE TO DOUBLE SPACE! -ERC

CONVENTION TIME IS COMING! MAKE THOSE VACATION AND TRAVEL PLANS NOW - DON'T BE LEFT OUT!

VERIE SIGNERS

A - Ken Chatterton	F - Bill Regan	K - Dave Yocis
B - Kenmit Geary	G - n.m. Bill Stone	L - unsigned
C - Neil Zank	H - Martin Foltz	M - Yngve Mattsson
D - Karl Jeter	I - Rick Carr	N - Juergen Trochimczyk
E - Ray Arruda	J - Wayne Heinen	O - Ernie Cooper
570 KCNO 1 Mona M. Hansen, Asst M	L 1260 WIYD m u/u	I
590 KHHS 1 Robert Roberts, CE	C	KPSO lmb Raymond O. Creely
600 WFST pm Leo J. Geriz (?), CE	F	WIBV 1 Norman S. Greenburg, SM
KSJB q Harvey Van Erom, CE	F 1270 CJTN 1 Thomas Snider, M	B
WCVP p Max M. Blakemore, CE	G 1280 CJSJ q James Hutchings, CE	M
610 WRUS 1 W. P. Soch, GM	D	WYND lmb David Hay, ACE's
WTVN q u/u	E 1300 WFKC 1 Robert E. Chick, CE	B
620 WRJZ f Kevin D. Douglass, CE	H 1310 KAAM pu u/u	I
WTMJ q Engineering Department	F 1340 KAND lum James Barlow, CE	J
690 WAPE pu(3) Arthur F. Delljer	F	KTCQ 1h Gary Peterson, CE
770 WCAL q Tim u/u, D	I	WWFL 1 Andrew J. Douds, GM
780 KSPI r William Platt, GM	C 1350 WDFC lmb Stephen Michaels	N
790 WPPA 1 John Albright, GM	D	CKAR 1 John C. Smith, Prod M
810 KAFE pu Dale Wood	I 1380 WYMK q Donald P. Brown, PD	B
WKBC p Paul L. Whitney, E	D	CKLC 1 David Mitchell, Prog Sup
CJVA 1 Francois A. Jacob	E 1390 WVON 1 Jack Layton, CE	M
850 WMAG lum William Williams, GM	I	KFRA 1bw Chris Duplechain, GM
860 WAQE lm Ronnie Croker, CE	A 1400 KEYE 1 John V. Ellzey, OP, VP	J
910 WTOY rm u/u, CE	A	KBRB 1 Randy L. Brudigan, E
CKLY fu Robert Eskins, PD	F	KCOW 1 Larry Patrik, CE
920 WGST q Milton C. Thurlow, CE	F	KATI 1 Daniel Roberts, GM
WOKY q Thomas A. u/u, EIC	H	CHQA 1 Peter L. S. De Wolf
KLMR lm James E. White, CE	I	WIRA 1 William Brown, SM
930 WITK pu Robert E. Frower, GM	F 1410 WZST 1 (Jerry Glaze, Sales M	N
940 WINZ qu u/u	F	(Robert Andrews, CE
960 WFIK 1 Robert Yankowitz, CE	A	WEGO r Kenneth R. Kennedy, CE
980 WFHG q Joseph P. Durham	F	CFMB 1 Andrew Mielewicz, Op M
WONE q Robert Minten	F	KEYN lmb Orin Friesen, CE
CKGM q Bruno Larivee, TD	F 1420 WOC 1 Eugene E. McHenry, AstDoE	M
KCIJ lm u/u, VP, GM	I	KTOE 1 Bub Quimby, CE
WTRY pu Norman Avery, CE	A	CKPT 1 John Mariasine, Pub Rel
WNBI 1 T. E. Forth, CE	C	WLET 1 Jan J. Bethke, CE
990 WFFF p Eloise Thomley, PD	G 1430 KCOH 1 Larry Brandenburg, CE	N
1010 WGUN p Benjamin Ackerman	G	WWGS r W. E. Sides, SM
WBIX p Stephen Plaster	G	KSTB lu Lloyd C. Mayberry, GM
WIOI p Tyrone Henry, CE	G 1440 WRDD p L. E. Hombrow (?)	F
KIQI p James J. Gabbert, O, P	G 1450 KBMW 1 D. Du Lo Pointe, E	C
1050 WBRG 1 Thomas Buckley, GM	D	WCVS 1 Marty Wright, NRC
WEGI lb Chris Dixon, PD	F 1460 KLLL 1b George C. Harris, GM	I
1060 EKKQ 1 Don Richards, PD	L	WRKB 1 George Quesinberry, E
WKKQ 1 Jerry J. Collins, M	O 1470 KXQA ql Hank Schwartz, CE	L
CJRP q "Public Relations"	E	WLAM 1 Herbert Wiles, CE
WNOE q Lynn Willoughby, DoE	E	WFSR 1m Jerry Kadlec
1070 WANM pum Robert Badger, GM	I 1480 KWIZ 1 Pat Michaels, SM	M
WINA p Scott G. Turner, CE	G 1490 WPXE 1 Donald W. Miles, GM	N
WTSO p Sherman Stern, CE	G	KNOW 1 Gil Garcia, E
WDIA f Alonzo Pendleton, CE	D	KRTN 1 Robert Schaefer
1110 WZAM xl John Heimerl, CE	E 1510 CJRS q Robert u/u	J
1120 WUST f Gary Hess, TD	D 1530 KAWS lum Mrs. Du Waine Holland	I
1130 EDGY qb Terry True	F	KUUY rb u/u, CE
1140 WKCM 1 Kelly L. Ward, CE	B	WCKY q James Ranney, CE
WVEL 1 John F. Neal, M	B 1540 WSMI 1 Brian Talley, CE	C
1150 KIMM 1 Bruce Bradfield, CE	C	KZLA 1 M. W. Massey, CE
WJBO f Thomas E. Oliver, CE	D	CHIN f Mrs. Coleen Sertl, EDep'tE
1170 WAMB q u/u	I	EGBC 1 Luke M. Stripling, CE
1190 KRZJ f Robert Zellner	C 1550 WLUX 1 Leonard E. Benson, TD	N
WJES 1 (Michael Casey, Op M	D	WSAO 1 Cinci Smith, Trf D
1	E 1560 KRBB 1 Paul S. Demaree, P	J
1180 WLDS q John C. Coe, CE	D 1570 CKLA lm Harvey Davidson, P, GM	O
1220 KBNO mb u/u	I	WSSA p Thomas G. Hill
1230 KPRQ r Jay Gardner, GM	L 1580 WSRF q R. Hoffner, CE	E
KFPW lum James L. Friddle, CE	I 1590 WETT 1 J. Allen Lerner, CE	M
1240 WSFC lmw Robert L. Shoopman Jr., CE	I	WDNH r u/u, P
KTLO 1 Robert Knight, GM	I	WAIK 1 Timothy White, PD
KADS 1 Joseph Tilton, M	C	KBBQ 1 Ronald Christian, PD, MD, DJ
KPRC r J. Huff	C 1600 WWRL c George C. Erbas (?), CE	K

WE HAVE ANOTHER GOODLY GROUP OF SIGNERS ON HAND - MORE AS THE TIME ALLOWS. KEEP 'EM COMING!

NRC PUBLICATIONS

The National Radio Club is proud to announce its list of booklet publications. All of these items are available from the National Radio Club Publications Center, P. O. Box 401, Gales Ferry, Conn. 06335.

DOMESTIC LOG

This spiral-bound volume contains listings of all U.S. and Canadian A.M. stations including locations, addresses, powers, antenna operations, networks, schedules and other useful information. Cost is \$6.50 to members and \$7.50 to non-members. (New edition Oct. 1978)

NIGHT ANTENNA PATTERN BOOK

*Temporarily out of stock. Availability expected mid-1980.

This spiral-bound volume features the nighttime directional antenna patterns of Canadian and U.S. stations on map pages of 8 1/2 x 14 inches. These patterns are drawn to scale from official government sources. Commercial publications of this sort cost more than ten times as much for this most valuable DX reference. Cost to members is \$6.50 post-paid and \$7.50 to non-members.

ANTENNA REFERENCE MANUAL

This manual is a compilation of numerous articles on the subject of antennas for MW DXers which have appeared in the pages of DX News over the past several years in one handy volume. Includes data on air- and ferrite-core loops, antenna tuners for longwires, and beverage antennas, along with coupling devices. 5 1/2 x 8 1/2 booklet format. \$2.50 in the U.S. and Canada.

GETTING STARTED IN MEDIUM WAVE DX'ING

This booklet is designed to assist the novice DXer in pursuit of the hobby. It includes introductory articles on foreign and domestic DXing as well as related topics. Included are articles on reception reports and safety and preventive maintenance of your DX gear. All members who pay the New Member Fee automatically receive a copy of this booklet. For non-members the cost is \$1.25 in the U.S. and Canada.

RECEIVER REFERENCE MANUAL

This manual is similar to the manual on antennas, except that the subject is DX receivers. It includes useful articles on receiver modifications and accessories, and reviews of many of the commonly used MW DX receivers currently available. A must for the serious DXer/Experimenter. 5 1/2 x 8 1/2 booklet format. \$2.50 in the U.S. and Canada.

LOG & PATTERN BOOK UPDATERS

Periodic updaters for the NRC Domestic Station Log and the NRC Night-time Antenna Pattern Book are published in the pages of DX NEWS. Non-members may obtain reprints of these updaters in composite by ordering them through the NRC Reprint Service. Cost is \$1.00 for members and \$2.00 for non-members, covering all updaters from time of the most recent edition of the Log or Pattern Book to the date of the order.

***Note: Prices subject to change without notice. Orders from outside North America, please contact Publications Center for applicable rates and methods of shipment.