



DX NEWS

*the magazine of the
National Radio Club*

— SINCE 1933 —

Volume 45, Number 27 Monday, June 12, 1978.

STATIC FROM HQ

Welcome back, folks...the receiver and antenna manuals are once again available from the NRC Publications Center, so if you need or want one of either or both, order now. Thanks to all who worked on them to get them ready! Now is also a good time to take Gen. Sherman's suggestion and plan to visit Georgia this summer--like Labor Day Weekend for the NRC Convention. We hope to have a large turnout, so make plans early and be there! Also, speaking of conventions, large or small, we welcome bids for the 1979 NRC Convention. Why not bid your city or town? This is a 48 page edition of DX News and we want to thank the members for their continued support during the summer so far. Don't forget us as June, July and August march onward--remember also to take your NRC Membership List when you travel and stay in touch with NRCers in places you visit--and don't forget to send in Muses when you get back so we'll know who's visited where and DX conditions around the country.

Continued on page 2.....

CPC TESTS

We thought the test season was long over, but we were suprised (very pleasantly) thanks to the continuing work by the membership--good work folks!

- Wednesday June 14 0100-???? WJVA-1580 South Bend, Ind., 1000w, ND. This is a Proof of Performance. IDs are $\frac{1}{2}$ hourly. v/s is Jim Lies, Engineer. No prepaid calls. 1129 N. Hickory St., South Bend, Ind. 46615. Arranged: John Kromka.
- Monday June 19 0100-0200 KUOA-1290 Test will use 5000 watts and will include tone test and frequent IDs. If you wish a verie please report immediately! Send reports to: Hugh Lineback, CE, KUOA Radio, Box 3145, Siloam Springs, Ark. 72761. Arr: Ron Musco.
- Tuesday June 27 0015-0045 WNYC-830 New York. Will be 1000 watts non-directional. Test will consist only of tones with IDs given every 5 minutes. Veries to: Jack Toleman, WNYC Radio, 2530 Municipal Building, New York, N.Y. 10007. Arr: John Kromka.
- Monday July 10 0045-???? WHHO-1320 Hornell, N.Y. Test will use 5000
or watts non-directional and will include tones, open
Monday July 17 carriers and possible music. IDs will be every 10
minutes. Prepaid calls to 607/324-2000. Veries to:
Ralph Van, WHOO Radio, P.O. Box 624, Hornell, N.Y.
14843. Arr: John Kromka.

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Static continues.....we are a little slower than anticipated, but we do wish to announce that John Clements will be editor for the NRC Question and Answer column which will begin in August's DX News. Send your questions (answers?!) to John at 9010 Tobias Street, Suite 258, Panorama City, Calif. 91402. Also we wish to announce that Ron Schiller will be editing the new NRC positive approach to verification problems. More details on this new column will follow shortly.

This just in as we put DX News together. Regretfully, the expected completion date of the Domestic Log has been extended to August 1. During the typing of the Log, John Callarman received extensive data which, to insure the most accurate and up-to-date Log, required redoing numerous pages. At the same time, he had trouble with his typer, causing an additional delay. We ask your indulgence. We think you'll agree the Domestic Log is worth the wait, especially if it is more accurate and useful.

WE GET LETTERS

PAT HARTLAGE, NRC HQ
P.O. BOX 32125
LOUISVILLE, KY 40232

DX NEWS SCHEDULE for the near future: #28, July 17; #29, August 14, #30, September 4, and #31, September 25. Deadline in Louisville is 10 days prior.

SMALL, too small. The sample page of the Domestic Log in the last issue was a goof on the part of the printer. The Log pages are the same as in past editions, 5-3/4 x 8 1/2 inches.

TAKE YOUR WIFE AWAY to Atlanta. Karl Jeter tells us they are working up a program for wives who are not DXers, for the Convention. They need to know how many to expect for the Sept. 1-4 NRC gathering. Write to Karl at 2816 Frontier Trail, NE, Atlanta, Ga. 30341...ASAP, please.

THANKS, THANKS, THANKS to César Objío for translating the new brochure "The Broadcasters Guide to DX" into Spanish. This is an outstanding publication in English and we expect the Spanish version to be very useful when printed late this Summer. Right now, however, more help is needed. We need someone having a thorough knowledge of Spanish who can get the material set in type for photo-offset printing. Please contact me if you can help. On the subject of help, similarly, we need someone to prepare masters for NRC Stationary, report forms and Spanish language report forms. HELP!

WE'D LIKE TO, but we can't print everything we receive. For various reasons, mostly space considerations and time-value, some items are not used. Still, we really appreciate those who take time to contribute. Keep those cards and letters coming.....

RENEWING in NRC recently: Clifford Barnes, Erlend Nilsson, Harry Hayes, Dick Nelson, Levi Myers, George R. Cook, John Topel, Charles A. McHarg, Richard Howarth, Eric McIntosh, Richard Russell, Robert Heckenlively, Mike Beckett, Dr. Mel Bernstein and Albert S. Lobel. A later list of renewals wasn't on hand when this was typed, and will appear next time.

AFR GRAPH scale shown in the May 1 DX News should have been 1/2 of values listed. This was my error...sorry, Russ.

THEY JOINED

Ken Onyschuk, 239 First, Park Forest, Ill. 60466 (Rejoins...Welcome back!!!)
C.H. Etheridge, Jr., 326 Edgewood Road, Forest Hills, Penna. 15221
Lawrence Rubin, 99-34 67th Road, Apt. 2H, Forest Hills, New York 11375
Johnny M. Pribble, 4309 Belford Road, Fayetteville, N.C. 28304
Henry R. Lazarus, 1313 Dauphine Street, New Orleans, Louisiana 70116
Jim Chenard, 350 Minute Arms Road, Union, New Jersey 07083
Chris Baskind, 603 Enger Drive, Pascagoula, Mississippi 39567
Ed Phillips, 30 Nutt Road, Knollwood Apts. A-3, Phoenixville, Penna. 19460
Bowman Graton K1KHC, P.O. Box 6, Snug Harbor Station, Duxbury, Mass. 02332
Michael Trotta, 56-27 195th Street, Flushing, N.Y. 11365
Richard Wright, 5276 "L" Street, Sacramento, Calif. 95819
Donald R. Swope, 365 Chocolate Avenue, Mount Joy, Penna. 17552

Welcome and please send a muse to Ernie Cooper soon introducing yourselves.

Have a friend interested in the hobby? If you think he or she is a good prospective member, just send us the complete name and mailing address and we'll take it from there by sending the newly revised NRC Information Booklet. Referrals go to Ron Musco at NRC Membership Center, P.O. Box 118, Poquonock, Conn. 06064.

Happy 4th of July to all from the LPC. See you again on July 17th.

DOMESTIC DX DIGEST

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

Some editing has been done on clear channel DX and old tips. Items for the most part that go back to Feb. and Mar. have been deleted. Please use one side of paper and keep your information recent. Try not to include clear channel DX if it can be readily heard at your location, unless it's long distance or a new SP, sked change, etc. Many good reports this issue, so here goes...next deadline will be an early one due to work schedule, June 28.

DX TESTS

WMEV - Not heard by ERC.
WIZE - Tent. w/Tf around 0145, but no IDs noted. (ERC)
WAKE - Heard by PD, KDF, LVE. Not heard by PRM.
KNIX - Heard by ERC, GAS, LVE. Not heard by DS.

C9UA
Radio Acadie Etée

FREQUENCY CHECKS

3rd Mon. KWKY-1150 TT only. (PRM)
 WWNS-1240 Not heard. (PRM)
 WGSR-1570 (KDF)
3rd Thu. WQPC- 940 (KDF)
 WJZM-1400 (KDF)
 WHII-1570 (KDF)
4th Mon. WCVS-1450 (KDF)

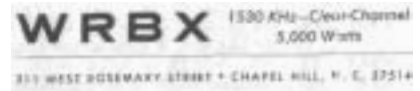
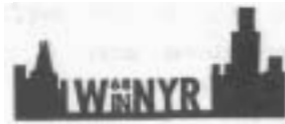
SPECIAL

900 UNID -- By Doug Beard, DXN #25, is OKDR with CJRL-1220 & CPOB-800 relay O&W early mornings from CHMM-FM Winnipeg, MB. (BV)
990 WJED PA PHILADELPHIA - Per verie, have weekly SP on Sat. 0400-0500. (ERC)
1000 WOPF IL CHICAGO - Per Mutual Larry King Show, this station has been purchased by The MBS and will become their very 1st O&O station ever...call change imminent? (ERC)
1170 WJMQ MA NORFOLK - Now on RS, but no signal at all heard on Cape Cod w/WVLO, though when they were daytime testing, they were fairly strong over here. (ERC)
 WWVA WV WHEELING - Normally off the 1st Sun. 0400-0600, but (ERC) did not go off 1st Sun in April, but continued on AN-7.
1240 WBAX PA WILKES-BARRE - Now O&W AN-7, ex-rrr, via Harry Hayes. (ERC)
1330 WPOW NY NEW YORK - Now s/on 7 mornings a week at 3, adding SMs to this sked. (ERC)
1340 WFAN DC WASHINGTON - 4/23 1230 noted off the air & shut down for good by FCC order as of 4/23 0000. Had SS pgms. (WPT)
1390 WEAM VA ARLINGTON - Only DC area SS outlet carrying SS pgms 2300-0600 nightly except MMs. (WPT) (ERC)
1410 WPOP CT HARTFORD - Has weekly brief SP on Sun. either 0200-0300 or 0300-0400, otherwise it's Larry King Show 0000-0600.
1420 WBSM MA NEW BEDFORD - No longer has SP SMs, but AN show 0000-0600. (ERC)
1510 WITS MA BOSTON - EX-WMEK with Information, Talk, & Sports. Is MBS/AN-7/Larry King Show 0000-0600/Flagship station for the Boston Red Sox. (PRM) (ERC)
1600 WIXY MA EAST LONGMEADOW - Per verie, they will be NSP when they go fulltime around mid-July, O&W, 2,500W at night. (ERC)
1610 WIZXOM IOWA, AVOCA - 5/22 0352 tentative, poor u/static w/man/woman annrcs & wx info. (KDF)

MIDDAY TO MIDNIGHT

540 WDMV MD POCOMOKE CITY - 4/17 1220 xint w/ads, farm nx. (WPT)
550 WSWA VA HARRISONBURG - 4/14 1231 good w/farm nx, talk. (WPT)
610 WHPL VA WINCHESTER - 4/14 1228 good w/nx & ID. (WPT)
 WIP PA PHILADELPHIA - 4/17 1217 fair w/T40 u/WHPL. (WPT)

690 WNNT VA WARSAW - 4/17 1229 fair w/nx, wx & ID. (WPT)
 710 WOR NY NEW YORK - 4/17 1212 good w/nx after nulling WPIK slop. (WPT)
 850 WRAP VA NORFOLK - 5/7 1238 fair w/Soul mx, ID. (WPT)
 870 WRBU PA READING - 5/18 1116 talk by YL, good o/WRAP. (WPT)
 880 WFLO VA FARMVILLE - 4/27 1205 fair w/nx u/WAYE slop. (WPT)
 910 WFSB NC NEW YORK - 4/14 1150 good w/nx & mentions of Rainbow Grill. (WPT)
 940 WFLV FL FLINT - 3/30 2118-2133 w/Pop mx, OBS Net, good signal. (GFL)
 950 WPEA PA LEBANON - 5/18 1147 xlint w/O&W mx. (WPT)
 PHILADELPHIA - 4/23 1255 rr mx, fair w/WXGI in null of WOTN. (WPT)
 WWJ MI DETROIT - 4/25 1915 good o/WPEN w/wx & ads. (WPT)
 WXGI VA RICHMOND - 4/23 1250 fair in null of WOTN w/VA 500 stock car race. (WPT)
 960 WBOC MD SALISBURY - 4/18 1139 xlint w/temp/Carpentering ad/T40 mx.(WPT)
 1000 WSPF NC HICKORY - All alone 4/28 1855-1900 s/off w/T40 mx, brief s/off details & mx jx. (KA)
 WRAR VA TAPPANNOCK - 4/18 1142 xlint w/several ads. (WPT)
 WKYB SO HEMINGWAY - 5/1 2015 ment. of Rte 51 at s/off, fair. (WPT)
 1030 WBZ MA BOSTON - 4/24 1204 State nx, ID, fair signal & my farthest midday catch (390 mi/625 km). (WPT)
 1050 OHUM OH TORONTO - 5/2 2249 fair w/T40 mx. (WPT)
 1060 KYW PA PHILADELPHIA - 4/14 1209 xlint w/NBC nx. (WPT)
 1070 WINA VA CHARLOTTESVILLE - 4/17 1235 good o/WKOK w/VA State Nx.(WPT)
 WKOK PA SUNBURY - 4/14 1219 fair w/nx & wx. (WPT)
 1080 WVEP PA PITTSBURGH - 4/18 1237 fair w/O&W mx after nulling WBAI slop. (WPT)
 1130 WNEW NY NEW YORK - 5/9 1143 good u/WUST slop w/mx. (WPT)
 1150 WDEL DE WIMMINGSPO - 4/14 1204 good w/ad for Tri-State Mall.(WPT)
 1170 WYVA WV WHEELING - 4/18 1242 fair w/ad for local race track.(WPT)
 WCLN SC CLINTON - 5/9 2015 fair w/s/off by Operations Mgr. (WPT)
 1240 WJNC NC ELIZABETH CITY - 5/5 2004 fair to good w/NO nx & wx.(WPT)
 WJFJ MD HAGERSTOWN - 5/18 1202 fair w/nx u/WOEM. (WPT)
 1250 WNCN PA YORK - 5/9 1156 u/WEER fair w/talk by YL. (WPT)
 1290 WPTA VA COLONIAL HEIGHTS - 4/21 1845 good w/ment. of FM outlet during s/off. (WPT)
 1300 WKOY VA HARRISONBURG - 4/17 1205 good u/WFER w/wx/O&W mx. (WPT)
 WING NC GOLDSBORO - Finally logged the last of my hometown stations 5/13 at 2015 s/off after WKOY dropped their carrier, IDs as Music Radio 13 in the s/off and closes w/jx. (KA)
 WNLW NY WHITE SULPHUR SPRINGS - 5/12 2030 s/off, xlint level w/inst. version "Help Me Make It Through The Night" u/detailed s/off which mentioned FCC regs. do not allow AN operation on this regional freq. of 1310 khz. Sure would be a surprise to WGH/WDDO/WOAM who are heard here in evening! (KA)
 1320 WBET VA RICHMOND - 4/21 1211 fair to good w/wx rpt. (WPT) (WPT)
 1330 WGET PA GETTYSBURG - 4/24 1219 good w/wx rpt & farm machine ad.
 WFSR VA TASLEY - 4/21 1146 good w/Sports/ID u/WFAN slop. (WPT)
 WASA MD HAYRE de GRACE - 4/24 1147 xlint o/WFSR w/talk & ID "First with Big City Sound." (WPT)
 WBAV IL EVANSTON - 4/24 1930 good w/end of SS pgm then s/off with "Now That Day's Over." (WPT)
 1340 WKLT GA DUBLIN - 5/6 2018 O&W mx, good signal. (WPT)
 WEPN NY MARTINSBURG - 4/23 1236 fair w/ads, WFAN off. (WPT)
 WJMA VA ORANGE - 5/14 1431 tent. w/T40 format, unable to ID due to WPEM QRM. (WPT)
 WOKB SC CHARLESTON - 5/15 2100 fair atop GY pile w/ID/nx. (WPT)
 1350 WHPA VA HOPEWELL - 5/19 2047 fair w/rr & frequent wx rpts. (WPT)
 WFLS VA FREDERICKSBURG - 4/18 1239 xlint w/ads & O&W mx. (WPT)
 WZLX PA YORK - 4/24 1149 Tasty Kake ad then into talk o/u WFLS. (WPT)
 WGAD AL GADSDEN - 5/5 2359 fair o/WSLR w/wx & ID. (WPT)
 1360 WIZZ PA MOCKESPORT - 5/16 2100 fair to good w/banjo mx/ID/nx. Station listed as daytimer in Communications World. (WPT)
 1410 WDOV DE DOVER - 4/18 1136 good w/end of MBS Nx, ID/T40 mx. (WPT)



P.O. BOX 227 • ROCHESTER, NEW YORK 14601

1420 WOOJ PA COATESVILLE - 5/16 2030 good w/promo, ID & start of Phillies BB game. (WPT)
 WRCG GA COLUMBUS - 5/6 2150 good w/Braves BB game, EX-WRBL.(WPT)
 1430 WNJR NJ NEWARK - 5/12 2043 fair to good w/Rock Show promo. (WPT)
 1460 WBNS OH COLUMBUS - 4/27 WBMD off, weak w/T40 time(?), phone#, ads. (JC)
 KSO IA DES MOINES - 4/27 strong w/WMBD off w/O&W @ 2044. Usually WMBD slop here making frequency unDXable. (JC)
 1470 WMBD IL PEORIA - 4/27 off during RS from 2023 to at least 2103. Back on at 2125, first time ever noted off during RS, now 24 hrs. but unsure if MSP. (JC)
 KARE KS ATCHISON - 4/27 weak w/KC Royals BB game, ads in WMBD SP. (JC)
 UNID -- ----- 4/27 big jumble here w/WMBD off, heard ABC Nx ending at 2035 then SID which was unreadable, possibly some O&W, Methinks it was WKMP Flint, any ideas? (JC)
 WTRR MD WESTMINSTER - 4/17 1159 good w/O&W mx. (WPT)
 WJDY MD SALISBURY - 4/25 1201 fair w/MOR mx, nx w/moderate WTRR QRM. (WPT)
 1490 WVEC VA HAMPTON - 4/18 1904 xlint w/ABC Nx, consistently above GY heap, and a pest on 1490. (WPT)
 1520 WDGL GA DOUGLASVILLE - 5/10 2030 s/off w/full details, mixing badly w/WKBW. (KA)
 WDSL NC MOCKSVILLE - 4/22 1900 s/off fair in QRM. (WPT)
 WTRI MD BRUNSWICK - 5/1 1800 fair w/O&W & ID by YL ancor. (WPT)
 WVOB MD BEL AIR - 4/23 1300 WVOB News, oldies/rr mx. fair. (WPT)
 1530 WOTN MD CHESTERSTOWN - 4/18 1853 fair ending talk show o/u WFWG.3
 WYFO PA MCCONNELLSBURG - 5/18 2015 good w/s/off amount. (WPT)(WPT)
 1540 WTGF SC PICKENS - 5/1 2030 fair w/s/off. (WPT)
 WRPL NC CHARLOTTE - 4/16 1900 good w/s/off. (WPT)
 WKIE VA RICHMOND - 5/2 2015 fair w/s/off after local WDOH w/off. (WPT)
 WPMF PA PUNXSATANWHT - 5/21 2030 fair w/s/off. (WPT)
 WRCP PA PHILADELPHIA - 5/2 2015 good w/s/off moments after WDOH/WKIE s/offs. (WPT)
 1550 WYVE VA BRISTOL - 5/10 2030 finally at s/off very weak w/ment. of studios located in Iroquois Bldg. (KA)
 WXVA WV CHARLESTON - 4/16 1201 fair ending religious pgm, ID then nx. (WPT)
 WYOU FL TAMPA - 5/12 2016 good w/s/off & mention of SS pgms.(WPT)
 1560 WKOG GA GORDON - 5/7 2017 ID, O&W mx, fair w/pest WQXR QSBd.(WPT)
 1570 WSSA GA COLLEGE PARK - 5/7 2028 good w/O&W mx, s/off w/Dixie.(WPT)
 1580 WORG SC ORANGEBURG - 4/16 1900 fair w/s/off. (WPT)
 WESY MS LELAND - 5/1 2100 fair w/s/off. (WPT)
 1590 WACA SO GAMDEN - 4/18 1900 fair w/s/off. (WPT)

MIDNIGHT IN THE MADHOUSE.....OR.....EARLY MORNING AT THE RANCH

540 KNOE LA MONROE - 3/6 0354 poor w/TC/ID/O&W mx. (LMP) (LMP)
 CBK SA REGINA - 3/13 0130-0200 fair w/Band mx & CBG ID @ 0200.
 WDAK GA COLUMBUS - Date? 0150-0156 ET w/rr & ID @ 0156. (LMP)
 550 WKRO OH CINCINNATI - Solidly atop WGR 5/17 0100-0120 News, ID, then promo for Joe Lomas After Midnight Club. (KA)
 I guess his After Midnight Club includes the entire NRC! (RA)
 570 WKBN OH YOUNGSTOWN - 5/22 0048 good w/ID jx, O&W mx. (WPT)
 WFAA TX DALLAS - 4/28 0230-0240 w/tele-talk show. (GAS)
 590 WVLK KY LEXINGTON - 4/29 0010 weak but 2 IDs noted in WRBC local splatter. (GAS)
 CKEY ON TORONTO - 5/15 good @ 0405 w/spot for place in Oakville, wx. (PRM)
 620 WRJZ TN KNOXVILLE - 3/4 0210 fair w/woman DJ & rr. (LMP)
 640 KFI CA LOS ANGELES - 3/20 0200-0205 fair w/local nx, ads, followed by talk show, much stronger than usual. (LMP)
 650 WSM TN NASHVILLE - 3/12 off air @ 0600 but back on again @ 0700. (LMP)
 690 WVOK AL BIRMINGHAM - 3/14 0330-0340 loud on ET/TT/ID & some music. (LMP)



730 WPIT PA PITTSBURGH - 5/1 0600 w/s/on, nx, wx followed by religion & instrumental mx. (LVH)

820 WBAP TX FT. WORTH - 4/14 0000 fair w/ID & nx. (WPT)

900 WJWL DE GEORGETOWN - 5/19 0600 fair w/s/on moments before local WLMD s/on. (WPT)

910 KRIO TX MCALLEN - 4/27 0140 good signal with area wx. (GAS)

920 KDHL MN FARIBAULT - 4/25 2350 wx for SE MN caught my ear. (GAS)

930 WGNT WV HUNTINGTON - 4/27 0140 a regular now w/very good sig. w/discussion on local economy. (GAS)

WKY OK OKLAHOMA CITY - 5/2 0247 came up briefly for ID. (GAS)

940 KIOA IA DES MOINES - 3/14 poor @ 0326 w/mx from Saturday Night Fever. (LMP)

----- TT noted 4/14, 0132-0139 & on. (ERC) (GAS)

950 KPRC TX HOUSTON - 4/28 0110 wx & mention of next Astros BB BC.

970 WFLA FL TAMPA - 5/6 0532-0545 "97-FLA" noted atop w/nx, wx, then MoR. (DS)

980 WONE OH DAYTON - 5/22 0330 off for a rare SP/ET, leaving KMLZ/WRO/CKRM. (KDF)

990 WZZD PA PHILADELPHIA - 5/6 noted on 00 0555, evidently has a Sat. AM SP, 0400-0600 or thereabouts. (DS) This noted also by ERG, Dave. (RA)

WNOX TN KNOXVILLE - 5/2 0245 weak w/wx, "99 NOX" & rr. (GAS)

1060 WNOE LA NEW ORLEANS - 4/16 0001 fair w/T40 u/KYW. (WPT)

1090 KAAV AR LITTLE ROCK - 4/17 0034 fair w/talk u/WWWE slop. (WPT)

1230 WBHP AL HUNTSVILLE - 4/24 0300 very weak but 2 IDs noted. (GAS)

1240 WFFD NY SCHENECTADY - 5/22 fair/good w/T40, 3WD IDs on Bob Green Show, spot for Lou's Pizza, gave request line #. No WGBB noted 0119-0132. (PRM)

1250 WTAE PA PITTSBURGH - 4/24 0300 on ET/ID/00. (GAS)

WREN KS TOPEKA - 4/25 0103 ID after nx, wx, then rr mx. (GAS)

WEMP WI MILWAUKEE - 4/30 0200 ID w/mention to change clocks to daylight saving time. (GAS)

1260 WIBV IL BELLEVILLE - 4/28 0005 good w/many IDs, local wx. (GAS)

KGBX MO SPRINGFIELD - 5/2 0030 wx mixing w/WIBV. (GAS)

CGHI NB FREDERICTON - 5/15 in w/Atlantic TC's all morning, no commercials, not reported. (FD)

WGWR NC ASHEBORO - 5/6 0513 noted briefly w/Toyota spot, promos, mentioned "the only station you'll ever need" then gone to WWDG. The guy was right, I needed 'em-hi! (DS)

WJBL MI HOLLAND - 5/22 0631 poor u/WNDE w/wx & ID. (KDF)

WALM MI ALBION - 5/22 0632 just behind WJBL/WNDE w/wx & ID. (KDF)

1270 CFGT PQ ALMA - 5/22 FF talk, ID, mx 0300-0301, loud MM pest. (PRM)

1280 CJMS PQ MONTREAL - 5/22 talk w/OJMS ID in FF, time tone 0300, WADO off. (PRM)

1290 WJFP NY BINGHAMTON - 5/15 don't hear this one much, but good this MM w/T40, local spots, wx 0240-0255, no ID, but mentions of Binghamton in wx. o/C&W station. (PRM)

WHIO OH DAYTON - 5/1 0200 good w/ID & CBS Nx. (WPT)

CJBK ON LONDON - 4/14 0209 fair w/ID/T40 mx. (WPT) Atop 0040-0050 5/17 w/Rock, ID & DJ talking to caller on "The Winner Line at CJBK." (KA)

1300 WRBO MS JACKSON - 4/28 0020 1st time heard here w/local bank spot. (GAS)

WAVZ CT NEW HAVEN - 5/15 ET/00/ID @ 0237 u/UNID talker. (PRM) UNID could be WERE Cleveland, Paul. (RA)

1310 WTIK NC DURHAM - 4/23 0600 good ending relig. pgm, followed by political ad. (WPT)

WGH VA NEWPORT NEWS - 5/8 0028 fair w/ID & T40 mx on Powerline pgm. (WPT)

1320 WHHO NY HORNELL - 4/23 0030 noted on ET/TT/MoR mx, mostly o/CPGM/WKTQ. (DS)

WVOJ FL JACKSONVILLE - 5/15 good 0233-0237 w/C&W, editorial, better w/Space Magnet near the radio. (PRM)

KXYZ TX HOUSTON - 4/25 0100 Nx/wx & IDs as "XYZ 1320." (GAS)

1330 WASA MD HAVRE de GRACE - 5/1 0043 ET/00/Jx, non stop. (DS)

UNID ----- TT noted, OG also 4/14 0230-0250. (ERC)

1340 WROD FL DAYTONA BEACH - 5/8 0009-0017 & on, mostly atop this all AM w/rr, very little talk by female DJ. (DS)

WBBQ GA AUGUSTA - 4/24 0100 fair surfacing atop GJ pile at ID time. (WPT) They always fade out at ID time for me. (RA)

WOOV NC GREENVILLE - 4/27 0000 surfaced briefly for ID at news-time. (WPT)

WONI KY ASHLAND - 5/6 0018 ID/T40 mx, fair w/GY QRM. (WPT)

1370 KFRO TX LONGVIEW - 5/2 0259 good w/local nx, wx, new here. (GAS)

WKMO VA ROARING SPRINGS - 4/16 0532 good w/s/on. (WPT)

1380 WTVR PA RICHMOND - 4/24 0530 good w/s/on. (WPT)

WAMS DE WILMINGTON - 4/28 noted w/brief period of TT 0232-0235 then right back into regular rr RS. (DS)

1390 GHOO ON AJAX - 5/1 0001 s/off w/vocal version of O'Canada u/WEAM OG. (WPT)



VALLEY BROADCASTING COMPANY
Box 115 • Lehighton, Pennsylvania

1400 UNID -- ----- 4/18 TT noted 0122 in pile up. (ERC)

1410 UNID -- ----- 4/18 TT noted 0154-0210 & on u/WPOP, no IDs. (ERC)

WMYR FL FT. MYERS - 5/5 0542-0558 way atop w/farm nx, rr, no WPOP/KQV/WING. (DS)

KQV PA PITTSBURGH - 5/20 equal to WING/WPOP 0100-0106 w/nx, IDs, Larry King Show. Also noted UNID Tfer per tip from John Kromka. (PRM)

1420 WASR NH WOLFEBORO - 4/26 strong TT 0002-0003 o/u WKK, looping in right direction. Could this be another Cambridge Crystals' non IDing f/o? (DS) Yup, & a tough one at times to verify, too. (RA)

WOOJ PA COATESVILLE - 5/8 0205 rare ET w/mx, normally their regular programming sounds like a test. (DS)

WKSJ TN PULASKI - 4/25 0000 s/off "from the land of milk & honey." (GAS)

1430 KELI OK TULSA - 5/2 0100 unkn. but heard in passing w/strong signal. (GAS)

WVAM PA ALTOONA - 5/19 0605 good w/wx. (WPT)

WVEE TN MEMPHIS - 5/8 0140-0155 & on, ET w/automated sounding mx, IDed for ET @ 0143, way atop frequency. (DS)

1450 WDNG AL ANNISTON - 5/9 0207 wx followed by ID. (LVH)

WOL DO WASHINGTON - 5/22 0100 plus, usual MM pest w/Soul and loud announcers. (PRM)

WMPJ FL DAYTONA BEACH - 5/15 Rock 0201-0208, caught ID 0205 not quite WMAJ PA pest, called 0315, on again 0330-0345 w/more ETs, WOL QRM. (PRM) Nice catch! (RA)

1460 WWHG NY ROOSEVELT - 5/20 01-0100. (PRM)

WBNS OH COLUMBUS - 5/9 0210 w/local ads & ID. (LVH)

1480 WHBC OH CANTON - 4/14 0135 good w/nx/SID/T40 mx. (WPT)

1490 WMRB SC GREENVILLE - 5/1 0009-0013 noted briefly w/CBS nx, sports, wx, then s/off, "Murph Radio." (DS)

KDRS AR PARAGOULD - 4/25 2241 ID popped up briefly. (GAS)

KOTN AR PINE BLUFF - 5/2 0140 out of the mud for ID & AR wx. (GAS)

WTUP AR TUPLO - 5/2 0140 mixing w/KOTN w/R&B mx. (GAS)

1500 WDBE MI DETROIT - 5/12 0131 fair w/C&W & rr mx, ID, mentions of Motor City. (WPT)

1520 WENW NY BUFFALO - 4/29 0711 rr mx fair to good 2 hrs. after SR. (WPT)

1530 WTTI GA DALTON - 3/13 0259 on ET/mx. (LMP)

KFBK CA SACRAMENTO - 3/13 weak w/nx @ 0300. (LMP)

1540 KPOL CA LOS ANGELES - 5/15 0226 talk show w/GM of station. (LVH)

WPTN NY ALBANY - 4/14 0212 good o/KXEL w/ID/T40 mx. (WPT)

WKIE VA RICHMOND - 3/6 0215 ET/ID/mx & taking phone calls from listeners, said test was going mostly north & west. (LMP)

WRBJ - A M & M Stereo

Ditmer Broadcasting Co.

P. O. Box 320

ST. JOHNS, MICHIGAN 48879



269 S. PORTAGE PATH - AKRON, OHIO 44320



BLOOMINGTON, INDIANA



1550 **KEDD** KS BODGE CITY - 5/17 0224 fair o/WOKJ w/TT/ID. (KDF)
KGMO MO CAPE GIRARDEAU - 3/13 0258 RT/ID announcing test for
 maint. (LMP)

1560 **WKOJ** GA GORDON - 4/29 0300 ID on RT. (GAS) (GAS)
KOJJ IA IOWA CITY - 4/27 0250 ID w/USID...was looking for KPMO.
 Noted 5/15 0229 w/ID, nr, then SID. (LVH)

1570 **UNID** -- ----- - 4/21 TT, varying pitch & OO 0109-0235 & on,
 looped West, no IDs noted. (SRG)

1580 **WCLS** GA COLUMBUS - 5/2 0300 unkn. but best. of Contest & IDing
 as "CLS." (GAS)

KDAY CA SANTA MONICA - 4/24 0201-0231 strongest signal noted
 on this one during ENII test (not heard), MKN talk pgs,
 some religion, mostly o/KLOU, strongest signal ever. (DG)

1590 **WETT** MD OCEAN CITY - 5/22 good o/WAKR w/soft Rock, automated?
 Had Drake 10/jr 0222, otherwise local annors after nx
 0215-0232. Station had been off totally for awhile. (PRX)

WQQW CT WATERBURY - 5/17 0058 in briefly w/WAKR/WOGE RT w/end
 of MBS show, local spot, into CBS N. (KDF)

WAKR OH AKRON - 3/6 noted off from 0000-0200. (LMP)
WYIG ME JACKSON - 4/30 0115 EX-WWUN, IDs as "Y-16." (GAS)
WXVI AL MONTGOMERY - 5/2 0118 EX-WAFX. (GAS)
WINX MD ROCKVILLE - RT/TT 5/15 0355-0415 plus, nice signals
 thru WRRL 00. (FD)

WRRL NY WOODSIDE - 4/14 0145 fair w/Rock Show proms & wz. (WPT)
WPRC ND REIDSVILLE - 4/28 0459 good w/nx, wz. (WPT)
WNST WV MILTON - 4/26 load on RT/TT/nx, ID 0010 as "program
 test only." Wonder what time they run the tone during
 the day? (DS)

WERN DE DOVER - 4/30 a/on noted 0600 w/SSB, mentioned still on
 500 days/1000 nights. (DS)

WENR ON SIMCOB - 4/30 noted a/on 0558 w/GSQ. (DS)

UNIDS (all from GAS)

4/24	0300	740	TT	4/28	0300	1570	TT
	0300	750	Test w/nx.		0217	1010	TT
	0130	1450	TT		0245	920	TT
	0130	1160	TT				
5/1	0100	-	0115 1530 TT				
	0115	-	0130 1190 TT				
5/2	0300	-	1570 TT				

Thought I heard Monroe, WISE?
 mention of OO or KYNW.

That's all for this issue. Remember to use ELF when reporting, with the next deadline coming on June 28. This column made possible through the exclusive efforts of the following:

- | | | |
|-----|--------------------------------------|----------------------|
| EA | Kelly Andrews, Richmond, VA | HQ-180A, 4' NRO Loop |
| JO | John Clesmer, Peoria, IL | TRF, SM2 |
| NER | Ernest H. Cooper, Provincetown, MA | HQ-180, SM2, Loop |
| FD | Frank Dalley, Preston, CT | HQ-180, SM2, LW |
| KDF | Earl Perth, Villa Park, IL | HQ-160 |
| LVH | Larry Van Horn, Brighton, TN | DX-160, LW |
| GL | Gary Lovegren, St. Paul, MN | TRF |
| PEM | Paul Mount, Teaneck, NJ | TRF, SM1 |
| LMP | Louis M. Poda, Akron, OH | Guardian 7700, LW |
| GAS | George A. Santulli, III, Memphis, TN | Heath GR-91, LW |
| DS | Dave Schmidt, New Castle, DE | HQ-180A, Loop |
| WPT | William P. Townshend, Washington, DC | TRF |
| RA | Ray Arruda, Acushnet, MA | SX-122, SM1 |

Ernie's and William Townshend's reports just missed getting into the 5/15 DX News.

Thanks for the continued support, it's 0237 and that means rack time so 73.....

Ray

I missed one reporter.....

BV Brian Vernon, Elms, VT, Canada

INTERNATIONAL DX DIGEST

CHUCK HUTTON
 1035 LATHAM ROAD
 DECATUR, GA. 30033
 (404) 633-1198
 (BEFORE 2300 ELT)

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

Creetings. Ron Schiller received a verie from XESU which lists all stns owned by the same people. Included are XELO Chihuahua on 1010 with 1000 watts and XEES Chihuahua on 1110 with 1000 watts. Oops, that is supposed to be from a list of all stations in Chihuahua, not stns owned by the same people. Ron says these are not listed in the 76 WRTH and as I am at work and can't check the 76 WRTH I'll just pass these on.

More Dominican Republic changes from Richard Clark. 760 HI.. new stn in Santo Domingo, 640 HIAB ex 870, 1100 HI.. R. Jimini, Jimini is new, 1100 HMP R. Ocoa, San Jose ex 1340, 1140 R. Anacoona, San Jose HI.. is new, 1190 HIAG ex 1470, 1240 HICV now 5 kw, 1290HIGA ex 1420, 1320 R. Boys in Sabana Grande has the calls HIRZ, 1390 HISS ex 1370 in Barahona, 1400 HISS in San Juan ex 1390, 1430 HILF ex 1440, 1530 HI.. R. Action in Santiago is new, 1550 HITS R. Enriquillo in Tamayo is new, 1560 HIJC ex 1550, and 1580 R. Samana is inactive. Thanks for the list, Dick.

Via Arctic Radio Club. . . Belgium 926 and 1484 carry pgs for foreign workers Saturdays from 0715-0900. Languages include Polish, Arabic, Greek, Serbo-Croat, Ukrainian, Portuguese, Hungarian, Turkish, Spanish, and Italian. Between 0800-0820 there is the usual RTI news and press review. Czechoslovakia Jihlava is now on 1331 with 14 kw carrying the First Program. West Germany 1502 WDR Munster closed last November. East Germany 557 and 1052 Radio DDR Ferienwelle are now on the air with programs produced from studios in Rostock. Iran 576 Abadan is now on the air from a/on at 0150. R. Bandar e Tingej is now using 1116 with 2 X 125 kw. There is Wn EE pgs at 1900. Senegal the stn on 1224 that has been heard for the last year seems to be the Ziguinchor regional stn with 20 kw. International Waters Radio Hebo II is now announcing 1610 kHz with the address Box 113, Zurich, CH-8247. Spain R. Peninsula de Campo de Gibraltar on 1325 ex 1313. Cambodia the RS has been observed on 720 in addition to 917. China Lanchow Kansu Provincial Radio is on 684 ex 730. Rhodesia 1002 is the new freq for Gwelo, who now carry a Third Program. Morocco Tetuan now on 1060 ex 1052. Egypt Assuan 1273 ex 1277. Morocco a stn in Rabat is on 1456. Ecuador HCBX1 1435 ex 1443.

From the New Zealand Radio DX League- Colombia R. Uno 660 and R. El Sol 980 are now RCN ex Tbdelar. La Voz del Valle 1140 is now Tbdelar. R. Sonar, Oceana is now on 1260/4915 ex 1000. Paraguay 2270 R. Primero de Marzo 780 is now on 24 hrs a day. This stn plans to go to 50 or 100 kw. Venezuela R. Fe y Alegria in Caracas on 1390 is new. YVIC R. Sonita has moved from 1320 to 1520. East Germany Bernberg has moved from 1385 to 1430. Philippines PRBC is seeking to increase DWAS 1390 from 1 kw to 5 kw. DXAS 1430 is to be relocated from Jolo to Zamboanga City. Turkey Voice of Cyprus is now being heard on 755 with 20 kw.

News from Unes DX Club- Somalia R. Mogadishu is still being heard on 963. Angola the former R. Clube de Malanje has returned as Emisoras Regional de MALANJE and operates 0600-2200 on 1187/4940.

Via Danish Shortwave Club International- Algeria the French Net signs off at 0003 ex 2300. Iran a new stn has been noted on 605 in Parsi. Iran Voice of the Masses is carried on 692 0258-2100, 906 0530-1400 and 1800-2305, 1035 0258-0600, 1330-1755, and 2000-2305. Libya a foreign language pgn in English and French is carried on 1406 from 1410-1600 and 1600-1828. Nigeria Yola on 1017 is new and is testing 0500-0800 and 1400-2000. Poland changes to 78 WRTH: Pgm 1 is carried on LW only. Pgm 2 is on 0327 (Sun 0427)-2300. Regional programs on this net are carried Wednesday only from 0545-0610. The LW stns relay the regional R: stns of Pgm 4 at that time. Warsawa 818

is the only exception; they carry their own local pm at their time. the Egyptian newspaper "Al Jumhuriyyah" published a statement by the Qatari Information Minister that 2 new 750 kw transmitters will begin broadcasting on the tenth anniversary of Qatari radio in June. Expected frequencies are 935 and 1232. Saudi Arabia the Holy Qur'an service from Ridayh is now aired 1500-2300 on 548. South Korea new is KBS Pohang on 560 //970. AFKN has moved from 560 to 550. United Arab Emirates new is On el Quein on 845 with 20 kw. Yugoslavia Foreign Service on MW carries Albanian 2130-2200 on Titograd 881, English 2200-2215 and French 2215-2230 on Novi Sad 1268. China (via the BBCMS) Homeservice: broadcasts to Taiwan 2000-0610 (Sun 0705), 0830-1900 on 590, 602, 675, 690, 730, 750, 785, 910, 1030, 1090, 1120, 1350, 1430, 1510. These are relayed by the PLA Fukien Front Station 0400-0415, 1200-1215, and 1700-1715. PLA Fukien Front Stations: Network I 1000-0530 on 630, 670, 930, 1020, and 1270. Network II 0230-1900 on 820, 950, 1010, 1380, and 1540. Regional stations in NE China: Heilongjian Region (1) Heilongjian PBS 2040-0630 (Tue 0515), (815-1450 on 615, 800, 840, 870, 880, 890, 900, 950, 1060, 1100, 1110, 1430). (2) Mudanjan PBS 2025-0020, 0250-0530, 0855-1500 on 680.

Rest of China next time. Now, on to the loggings.

540 COLOMBIA Bogota HJKA fair o/other SS LA's; LA style version of Beethoven's "Für Elise" then Horizonte ID followed by electronic organ mx 0425 2/6. (Connelly)

555 ST. KITTS Basseterre ZIZ in w/potent OC, WGAN pest nulled 0437 5/6. (Connelly)

570 CUBA Santa Clara QMHI //600 w/SS talk about workers 0427 5/6. (Con)

560 JAMAICA Kingston JBC very surprisingly even with WQAM 5/22 at 0224. Never even a trace of him before. (Hutton)

580 PUERTO RICO San Juan WKAQ loud w/fast SS talk about economic development and the electric company, then spoken WKAQ ID 0429 5/6. (Connelly)

590 CUBA San Antonio de las Vegas QMW wasting WEEI; SS pop vocal //570, 600 at 0435 5/6. (Connelly) The Cuban is back, first noted 4/29 eve. (Cooper) Noted back on the air after being off since last summer or fall. Signal bombing in w/ID's as R. Rebelde 0500 4/21. (Townshend)

595 DOMINICA Roseau 0930 3/11 loud het and poor voice. Loops SE. Test tones end 0930, then singing and man talking-in EE? At same time only a faint het heard on usually stronger 555 and none at all on 545. (Poda) Note the correct location for the 595 location, Louis. Dominica is all EE except for a little French occasionally. 545 is off the air, and the reason you heard only a weak het on 555 was because ZIZ does not sign on till 1000, leaving a very weak YNS R. Tic Tac-CH

600 COLOMBIA Barranquilla HJHJ briefly o/Cuba; romantic SS vocal mx 0438 5/6. (Connelly)

600 CUBA San German QMKV good, SS //570 0427 5/6. (Connelly)

630 CUBA Santa Clara QMHQ (atop other SS LA who mentioned Bogota) loud w/violin mx //640 0431 5/6. (Connelly)

640 CUBA Havana QMQ 0600 3/4 apparently not on the air, same for 670 also. Only thing heard on 640 was a poor KFI and a faint low het. 0300 3/5 both 630 and 640 at fair volume. Cubans on 570 and 600 also fair w/mx, 600 had loud low het. (Poda)

640 VENEZUELA Puerto La Cruz YVQO dominant w/clear "Ondas Portenas" ID o/bad ticks from Mantucket Lorán C harmonic 0556 5/7. (Con)

650 DOMINICAN REPUBLIC Santo Domingo HIAT atop w/local ads, ID's as R. Universal, then pop SS vocal 0514 5/7. (Connelly)

650 HAWAII KORL Honolulu extra loud from 1210-1220 on 5/14 with pop mx and frequent KORL ID's. (Wilkinson)

670 CUBA/VENEZUELA San Pedro de Cacocum Q:KP in w/Cuban theme mx and SS talk o/u Caracas YVLL w/Rumbos slogans and ID's 0445 5/6. (Connelly)

680 UNID 2 SS's o/u nulled WRKO 0449 5/6. WAPA and a YV or HJ suspected. (Connelly)

700 JAMAICA Montego Bay dominant w/reggae mx pgm w/accented EE anncr 0455 5/6. (Connelly)

710 VENEZUELA Caracas YVKY atop WOR and a second LA; fast LA mx and rock, reverberated R. Capital ID 0505 5/6. (Connelly)

720 CUBA/UNID QMGN Colon had non-stop SS talk; other LA, perhaps YVOE, noted at equal level, pgm was festive LA mx, no ID's given, 0510 5/6. (Connelly)

725 SURINAM Paramaraibo SRS loud w/Commodores 0113 5/6. (Good w/EE (725, continued) anncr about DX test for the Malmo SW Club in Sweden, EE ID and jingle followed by DD talk 0207 5/7. (Connelly)

725 COSTA RICA San Jose ILLXX poor-fair through CKAC sloop; rhythmic SS vocal mx w/heavy drumming followed by apparent "Columbia" ID 0554 5/6. (Connelly)

730 COLOMBIA Bogota HJGU o/u CKAC; SS operatic male vocal, R. Melodia ID and slogan "mas noticiosa, mas deprtiva, mas musical" 0514 5/6. (Connelly)

730 MEXICO? Mexico City? 0330 3/31 SS looping SW. Man talking-mentions Tampico and possibly Mexico. (Poda)

735 ECUADOR Quito HCBC1 good w/festive LA mx 0544 5/7. (Connelly)

740 UNID SS, runs AN Sunday mornings only. ID is R. Cristal, often with a wolf whistle also. (Cooper) I think it is the new Panamanian listed in IDXN changes acouple of months ago as being HON21 R. Cristal on 750. Either the 750 was a typo or they moved to 740 when your 800 Panamanian vacated their old freq of 740-CH

748 CUBA? city unknown, 0325 3/13 at fair volume looping SE. Loud het on the low side of WSB, music and then man and woman talk. Later at 0445 it was fair-big band songs in EE. Man in SS over record and at 0455 bells and "Radio Liberacion, Havana". (Poda)

750 VENEZUELA Caracas YVKS good w/SS talk, R. Caracas ID 0134 5/6. Good w/ID, then "Disco Inferno" o/other LA's 0518 5/6. (Connelly)

760 CUBA La Habana QMCI o/WJR w/SS talk about Cuban governmental affairs, then R. Reloj Nacional ID and time tone, 0521 5/6. (Con)

760 MEXICO XEABC Mexico DF 5/16 1015-1040 fair w/morning pgm; low key anncr, telephone talk, romantic vocal mx, clustered spots. ID at 1030 "R. ABC International". Sorry, no QRM from KGU or IYA. (Zank) Absence of said QRM being so unusual that you feel obliged to report such conditions?-CH

775 COSTA RICA San Jose TIW fair w/ELO 0546 5/7. (Connelly)

780 BRITISH VIRGIN ISLANDS Roadtown fair w/soul mx and Caribbean EE talk o/fluttery SAH 0132 5/6. (Connelly)

800 NETHERLANDS ANTILLES Bonaire PJB at good level w/PP rlgx mx; AU cx made this the loudest non-groundwave stn 0108 5/5. Like a local w/man in SS 0131 5/6. (Connelly)

800 MEXICO Ciudad Juarez XEROK good 5/2 AM with ID's as "Everyday OK". (Cooper)

800 UNID SS hrd often, ID is "Provincia Centrale". Who is it? (Cooper) Per your tape, the stn ID is "La Exitosa". That reverbed thing may or may not be "Provincia Centrale" but it is not the ID. Consequently, your stn is R. Exitosa in Panama, a new stn that operated briefly on 740, explaining why you heard the same thing on 740 a while back-CH

810 COLOMBIA HJGY Bogota w/mx in SS by QM; signal wiping out WGY completely 5/3 0340-0344. (Townshend)

820 COLOMBIA Cali HJED a juggernaut here, ploughing in w/"Modello" ad, "primer (something) de Colombia", mx about the Aldo Moro kidnapping in Italy, CARACOL ID, brassy mx, disco ad 0531 on 5/6. (Connelly)

830 COLOMBIA Medellin HJDM leading the pack w/R. Vision ID 0531 5/6. (Connelly)

830 HAWAII Honolulu KIKI stronger than KORL from 1138-1145 5/14 with pop mx and frequent "KI"- "KI" ID's and commercials. (Wilkinson)

834 BELIZE Belize City 0320 3/6 good for a few minutes with jazz mx and ad by a man. Woman talks for a few seconds at 0325 but had faded. More mx after this. Loud het on WCCO, fair on WHAS. (Poda)

840 AUSTRALIA 4RK Rockhampton was strong and clear from 1232-1238 and good again from 1241-1246 on 5/13 with several men with British accents in a discussion pgm concerning Australians and Americans. (Wilkinson)

850 COLOMBIA Bogota HJKC o/u other LA's, WRDH nulled w/phasing unit; brassy mx //820 0528 5/6. (Connelly)

860 DOMINICAN REPUBLIC Santo Domingo HILLR loud w/festive LA mx, long dissertation w/political mentions of "Balaguer-Presidente!", then more talk followed by R. Clarin ID and electronic sounds 0538 5/6. (Connelly)

870 CUBA Guantanamo QMDN dominant o/low het; man and woman in SS 0535 5/6. (Connelly)

880 AUSTRALIA (tentative) possibly 4SH Brisbane from 1220-1237 on 5/14 with pop mx and British accent. Not very strong. Long frequent fading periods. Will follow up on this. (Wilkinson)

880 CUBA Pinar del Rio QMAF with a woman anncr and semi-cl mx was heard many evenings after KRVN s/off these past few months. Sometimes WCBS comes in with them but more often Cuba is alone. Have never heard a clear ID. (Meehan)

- 880 HONDURAS last night (May 8) I heard R. Honduras again but on 880 kHz at 0600 fighting the Cuban. (See 890-CH) A few hours later Cuba was all alone on the freq. So this brings up the question..... is there a 880 and a 890 kHz R. Honduras sharing time in the same city or did I err some place? WRTVH shows a 10 kw stn in Tegucigalpa on 880 and a 1 kw on 890. (Meehan) Think we have 2 separate new stns here. I heard 880 around 0200 last year and somebody else hrd 890 about the same time so I vote for different stns-CH
- 890 AUSTRALIA SAN Adelaide hrd from 1237-1246 on 5/14. Became progressively stronger up to 1246 and then downhill. Had musical pgm with anncts in EE accent. Not as strong as 4RK on 5/13 even though five times the power. (Wilkinson)
- 890 COLOMBIA Bogota HJCE at good level, clearly dominant w/LV de Bogota ID and brass fanfare 0547 5/6. (Connelly) Beautiful signal with WLS coming in poorly 5/8 at 0530 and remained good the next two hours. (Meehan)
- 890 HONDURAS R. Honduras beautiful signal with no trace of WLS from 0800-0900 5/4. WLS was dead and only started coming back about 0915. I taped one ID and played it back to John Clements who identified this for me. Guess I should tape more of these Latins and get them identified. (Meehan)
- 910 VENEZUELA Maiquetia YVRQ bombing in w/Aeropuerto mention and other ID slogans, then LA mx 0600 5/6. (Connelly)
- 919 COLOMBIA (tentative) Cartagena HJAE suspected here thrashing WJAR w/fierce het 0550 5/6. (Connelly)
- 940 CUBA Cienfuegos (?) Reloj Nacional outlet here atop oother LA; man in SS w/monotone voice reading nx, time check w/tone given every minute 0554 5/6. (Connelly) unlisted Reloj Nacional outlet heard well nightly since 5/10. Have not checked to see if this replaces the Dobleve stn on 940. (Hutton)
- 945 ECUADOR (tentative) Guayaquil HCDE2 probable w/disco rock here w/bad 944 het 0556 5/6. (Connelly) Matches Ifesa's format-CH
- 950 VENEZUELA Caracas YVKG R. Vision very good (alone on channel) w/slow SS vocal, then R. Vision ID 0128 5/6. (Connelly)
- 970 COLOMBIA HJCI La Voz de la Victor, Bogota quite good 5/11 at 0320 w/several ID's. (Hutton)
- 995 ECUADOR Guayaquil HCEW2 poor in slop; operatic male SS vocal noted at 0548 5/7. (Connelly) Heard many mornings quite easily of recent w/romantic mx. (Cooper)
- 1000 COLOMBIA Cartagena HJAJ SS talk by QM, YL, plugs, mentions of Colombia, ragtime mx, fair to good o/WCFL 5/3 0202-0206. (Townshend) Fair o/other LA w/"La Voz de Cartagena" slogan 0048 5/5. Noted again w/same ID 0115 5/7. (Connelly)
- 1000 CUBA unlisted R. Guama outlet hrd weakly many times, best at 0120 5/26. Sounds like 250 watts or so. (Hutton)
- 1000 VENEZUELA YVNM R. Mil, Moron heard 5/10 AM topping WCFL and the Mexican. (Cooper)
- 1005 COLOMBIA Neiva good w/mellow instrumental LA mx, then man in SS w/reverberated R. Colossal ID 0116 5/7. (Connelly)
- 1020 VENEZUELA La Ascencion YVRS loud w/R. Margarita ID, jingle, and female SS vocal 0010 5/7. (Connelly) 0605 3/13 man in excited voice gives R. Margarita ID and then into mx. (Poda)
- 1025 COLOMBIA? 0712 3/13 poor and fadey SS. "Radio ? Grande" and Colombia mentioned. (Poda) Colombia is only stn on at that hour-CH
- 1030 MEXICO Mexico DF R. Centro XEQR about 0600 3/13 man in SS w/R. Centro ID and whistle, then into light mx. (Poda)
- 1030 PUERTO RICO San Juan WOSO is AN MM's, heard well 4/24 and a second report sent. Carries CBS nx, MoR, EE anncts, and has a moving van commercial right before the 0600 nx. (Cooper)
- 1034 PORTUGAL Porto Alto 0640 3/20 poor-guitar mx and at 0645 man talking. Het also on 1043 at the time. (Poda)
- 1040 COLOMBIA (not sure of stn) "Modello" ad, misleading mention of Maracaibo, Venezuela; followed by CARACOL ID and partial list of network affiliates, then fanfare and SS mx 0530 5/7. (Connelly)
- 1070 VENEZUELA Maracaibo YMA noted w/R. Zulia ID then rustic SS vocal mx just o/low het 0525 5/7. (Connelly)
- 1092 COLOMBIA Monteria HJAW good w/SS mx 0137 5/7. (Connelly)
- 1100 ANTIGUA St. John's ZDK good w/soul mx, ID as "The Super Station", "ZDK" 0136 5/6. Good w/reggae 0006 5/7. (Connelly)
- 1100 CUBA QMHU R. Ciudad del Mar, Cienfuegos fair 5/21 at 0049 w/ an ID and then another just before the hour. QRM only from ZDK and a weak SS LA. (Hutton)
- 1110 VENEZUELA Carupano YVQT good w/ad-jingle, R. Carupano ID, SS talk by man 0005 5/7. (Connelly)
- 1120 DOMINICAN REPUBLIC Santo Domingo HICN good w/mentions of "studios en Santo Domingo", ads for Santo Domingo businesses, then female SS vocal o/het-growl 0138 5/7. (Connelly)
- 1120 NEW ZEALAND 4YQ Queenstown race results (greyhounds) 1300-1310z. (Maguire) Date?-CH
- 1150 NEW ZEALAND 1YZ Nelson 1248-1305z. (Maguire)
- 1160 UNID 6 time pips on the hour 1300 followed by news. (Maguire)
- 1165 ANTIGUA St. John's CRL fair o/mains QRN; EE religious talk noted at 0015 on 5/7. (Connelly)
- 1170 HAITI Port-au-Prince R. Soleil fair-good 5/23 at 0045 w/ID by female after many back-to-back records. Thanks to Schatz for tip on this new stn. (Hutton)
- 1180 CUBA? 0800 2/26 time ticks and man in SS every few seconds. Poor volume. (Poda) Certainly sounds like R. Reloj-CH
- 1180 USA Voice of America, Florida w/"Pure Natural Love" sung in EE, SS mx w/frequent mentions of Estados Unidos. Xlnt, nearly bombing out WHAM 5/5 from 0155-0200. (Townshend)
- 1190 COLOMBIA HJHO R. Mira, Tamaco xlnt and totally in control of the channel 5/21 at 0105 with an ID including slogan and call letters. Never heard even a trace of them before. (Hutton)
- 1200 COLOMBIA Riohacha HJZW in w/non-stop SS talk, mention of R. Almirante o/2nd LA 0152 5/7. (Connelly)
- 1210 AUSTRALIA 2GF Grafton 1247-1312z. (Maguire)
- 1220 CUBA CMGY R. Veinteseis LA mx w/SS talk, ID at 0128, then Cuban military mx and athletic event. I thought XEB Mexico DF was in until I heard the military mx and mention of Pinar del Rio wiped out WGAR 5/5 0110-0140. (Townshend)
- 1230 AUSTRALIA 2NC Newcastle 1211-1246z not needed. (Maguire)
- 1240 ??? Australia or New Zealand w/race call and results at xlnt level. No ID hrd 1220-1246z. (Maguire)
- 1265 ST. KITTS Basseterre about 0300 3/13, poor. Religious singing, man reads reception report from Manitoaba. (Poda) Good w/evangelist preacher in EE 0150 5/7. (Connelly)
- 1360 CUBA CMBG R. Guanaboca, Habana assumed the Cuban w/numerous "en la ciudad de Habana" mentions, Cuban nx, etc. He just wouldn't give an ID at the right times, 5/26 at 0030. (Hutton)
- 1370 COLOMBIA HJBO R. Piloto, Barranquilla good both 5/3 and 5/11 with several taped ID's. (Cooper) Yes NRC'ers, Mr. Cooper has indeed purchased one of those new tape recorders! Seriously, a nice catch and a good tape-CH
- 1380 VENEZUELA YVJD Ondas del Mar, Puerto Cabello good 5/11 AM topping the channel, no WBNX or WTRN. (Cooper)
- 1420 CUBA QMDX Baracoa SS talk by QM, fair u/WRCG 5/7 0150. (Townshend)
- 1470 CUBA CMGE Cardena, SS talk by QM. Mention of Soc. Republica de Cuba, fair to good 5/7 0231. (Townshend)
- 1470 SOUTH KOREA KBS wrote that it was not their station I heard in Korean. Hank Wilkinson thought it might have been HLCN. (Maguire)
- 1493 UNID 4/28 heard French with strong carrier at 2350 tune-in. I could not get any ID. In till about 0020 but faded then. 1403 was in good at the time and I wonder if I could have had Ivory Coast? (Barstow) Certainly, they are on till 0200-CH
- 1540 BAHAMAS ZNS2 broadcasting closing ceremonies of Silver Jubilee Regatta, fair o/WPIR 0130 4/23. (Townshend)
- 1550 PUERTO RICO Yauco WKFE strong AN 5/11, ID at 0730, unn. (Cooper)
- 1570 UNID 5/11 from 0540-0550 w/marimba mx topping the channel, no ID, TVBE suspected. (Cooper)
- 1580 COLOMBIA HJQZ R. Principe, Barzanquilla weak u/WCLS 5/11 AM. (Cooper)

Roy Barstow, Tearicket, Mass. HQ180, 50' LW
 Mark Connelly, W. Yarmouth, Mass. R390A, 2 37 m phased wires
 Ernie Cooper, Provincetown, Mass. HQ180's, 4' loop
 Chuck Hutton, Decatur, Ga. R390A, 1900' phased Beverage
 Norm Maguire, Honolulu, Hawaii SPR4, Sanserino loop, R. West loop
 Mort Meehan, 29 Palms, Ca. FRG7, Sanserino loop
 Louis Poda, Akron, Ohio Lafayette 7700, R300, 60' LW
 Bill Townshend, Washington, DC TRF
 Hank Wilkinson, Santa Rosa, Ca. SP600, HQ180, Sanserino loop
 Neil Zank, Lincoln, Neb. HQ180A, 2' loop

INDIAN MEDIUM-WAVE PLAN

The new plan for medium wave from All India Radio is listed below. It was extracted from the Indian DX Club International "DX Digest" by Glenn Hauser. The new plan is effective November 23, 1978.

New Freq	Old Freq	Location	New Freq	Old Freq	Location
531	530	Jodhpur -A	1107	1110	Gulbarga
540	540	Aijawal	1116	1120	Srinagar-A
549	560	Ranchi-A	1125	1170	Udaipur
558	550	Bombay-B	*1134	1130	Calcutta (Ext Sce)
567	570	Dibrugarh	1143	1100	Rohtak
576	580	Alleppey	1143	1140	Ratnagiri
585	590	Nagpur-A	1152	1230	Ranchi-B
+594	590	Calcutta (Ext sce)	1161	660	Trivandrum-A
603	600	Ajmer	1170	1220	Hyderabad-C
612	610	Bangalore-A	1179	1180	Jabalpur
621	620	Patna-A	1188	1190	Bombay-C
630	630	Trichur	1197	1220	Jodhpur-B
639	640	Kohima-A	1197	1200	Shillong-A
648	650	Indore-A	1197	1200	Timmelveli
657	670	Calcutta-A			
			1215	1570	Delhi-D
*675	*660	Itanagar	1224	1200	Srinagar-C
675	1050	Bangalore-B	1224	1220	Calcutta-D
684	680	Calicut-A			
684	680	Portblair-A	1242	1240	Varanasi
693	690	Rajkot-A	1251	1250	Sangli
702	710	Jullundur-B (Urdu)	1269	1270	Agartala
711	700	Siliguri	1278	680	Lucknow-B
720	720	Madras-A	1287	780	Chhatarpur
729	730	Gauhati-A	1296	1160	Darbhanga
738	740	Hyderabad-A	1305	1300	Parbhani
747	760	Lucknow-A	1314	1310	Bhuj
756	750	Jagdalpur	1314	1350	Cuttack-A
765	1360	Dharwar-A	1323	1320	Calcutta-C
774	770	Simla	1332	1330	Tezu
783	1550	Madras-C	*1341	*1490	Kohima-B
792	790	Pune-A	1350	1350	Jullundur-C
801	820	Rewa	1350	1160	Dharwar-B
			1359	800	Bhadravathi
819	810	Delhi-A	1368	1370	Delhi-C
828	880	Panaji-A	1377	1380	Hyderabad-B
828	880	Silchar	1386	1390	Gwalior
837	840	Vijaywada-A	1395	1330	Bikaner
846	850	Ahmedabad-A			
			1422	1420	Rajkot-B
*854	*1090	Shillong-B	1431	1230	Chandigarh
873	870	Jullundur-A	1431	1090	Calicut-B
882	920	Imphal	1440	1550	Kampur
891	1060	Rampur	1440	1400	Ahmedabad-B
900	900	Cuddapah	1440	1440	Portblair-B
909	910	Corakhpur	1449	860	Sambalpur
*918	*920	Suratgarh	1458	1470	Bhagalpur
927	930	Vishakhapatnam	1458	1470	Mangalore
936	940	Tiruchi-A	1467	1460	Jeypur
			1475	1480	Jaipur-A
954	950	Nazibabad	1485	1200	Bhopal-B
963	960	Jalgaon	1485	1420	Allahabad-B
972	970	Cuttack-A	*1485	*1500	Baroda
981	980	Raipur	1494	1170	Trivandrum-B
990	990	Jammu-A	1503	1490	Srinagar-B
999	1010	Coimbatore	1503	1500	Vijaywada-B
1008	1000	Calcutta-B	1521	1520	Aurangabad
1017	1020	Delhi-B	1521	1530	Tawang
1026	950	Allahabad-A			
1035	1030	Gauhati-C	1539	1540	Panaji-B
1044	1040	Bombay-A	1584	1270	Jaipur-B
1053	1050	Leh	1584	1590	Indore-B
1062	1060	Passighat	1584	1150	Madras-B
1062	1060	Pondicherry	1584	1420	Bhopal-A
1082	1060	Rajkot (Ext Sce)	1602	660	Nagpur-B
+1071	1070	Rajkot (Ext Sce)	1602	1230	Pune-B
			1602	1500	Patna-B
1089	1540	Jammu-B	1602	1400	Mysore
1089	1080	Udipi	1602	1480	Tiruchi-B

+ 1000kw tx # * New stations

DXPEDITION: MEDELLIN, COLOMBIA

César Objío

Since my trip in 1975 to Colombia (Bogotá and Barranquilla) I have been planning another trip to this country, but this time to Medellín, the capital city of the tango. Yes, this may sound strange to all of you, but tango is played, sang and heard in Medellín more than in Buenos Aires, Argentina. Taking advantage of one of the tours announced in the newspapers in a long weekend when Labor Day (May first) was this time on Monday, I decided to join. We left on Saturday April 29 in the afternoon to Barranquilla where we arrived 90 minutes later. While at the airport we were not allowed to leave the plane as we had to pass through customs but in Medellín. A thirty minutes stop and I tried to log some stations from inside the plane and here is what I could hear:

600 - R. Libertad, Barranquilla
 720 - Emisoras Unidas, Barranquilla
 1010 - R. Sutatenza, Barranquilla
 1040 - R. Tropical, Barranquilla
 1070 - Emisora Atlántico, Barranquilla
 1100 - R. Reloj, Barranquilla
 1130 - Emisora Río-Mar, Barranquilla
 1160 - R. Aeropuerto, Barranquilla
 1190 - La Voz de la Costa, Barranquilla
 1220 - R. Visión, Barranquilla
 1290 - La Voz del Turismo, Santa Marta
 1330 - R. Vigía, Cartagena
 1370 - R. Piloto, Barranquilla
 1400 - Emisora Veriedades, Barranquilla
 1450 - R. Galeón, Santa Marta
 1470 - R. Rodadero, Santa Marta
 1580 - R. Príncipe, Barranquilla

At 2200 GMT we left for Medellín. We had to rush as this airport is closed at night due to the fog covering the city, probably the smog as Medellín is the first industrial city in Colombia, only second to Bogotá in population. The city is in the middle of a valley on the Andes Mountain, so the plane had to fly higher and drop into the valley.

Medellín, capital of the Department of Antioquia, is situated in the valley of Aburrá, discovered by Jerónimo Luis Tejero on August 24, 1541. Through hardships the Spaniards arrived here only to meet the Indians in fighting around the place named Guayabal. They defeated them and found the Indians to be afraid of these strangers so strong. The Spaniards named the valley as San Bartolomé de los Alcazares, as this Saint was honored on this day. Many years passed before any city was founded on this place. On March 22nd 1616 Francisco Herrera Campuzano, visitor to the province of Antioquia, decreed the creation of the village of San Lorenzo de Aburrá with some Spaniards and 300 Indians. After building a chapel the inhabitants wanted to have a church instead and started building one designating the place as Nuestra Señora de la Candelaria de Aná. On November 22, 1674 the place received the title of Villa granted by the Spanish queen Mariana de Austria. This event was celebrated on November 2, 1675 when Don Pedro Portocarrero y Luna, count of Medellín, was president of Consejo de Indias who had great interest in the creation of Medellín, was president of Consejo de Indias who had great interest in the creation of the Villa. Since that date the place was named Medellín. On March 31, 1678 the city received its coat of arms. On August 21, 1813 received the title of City and on April 17, 1826, was proclaimed as the capital of Provincia de Antioquia. Now the city is a metropolis of about one and a half million inhabitants, sitting in the valley 1538 meters (think metric) above sea level. Climate is cool the year around (73°F), no winter or summer is noticed, they announce it as "365 days of spring" with flowers blooming all the time.

Medellín is not a good place for DXing. Only local stations are heard probably because the city is lying in the bottom of the valley. On the first evening I only logged all locals. The tour included a visit to Rio Negro, a small town higher on the mountains, about 2000 meters above sea level and 38 kilometers from the city through winding and very good roads. Stations logged at noon in Rio Negro are marked (RN). On the evening after returning a heavy rain fell over the city and conditions seemed to improve when Bogotá stations started to be heard. Even R. Cristal 570 Santo Domingo was heard after 0500 when R. Nacional s/off. After local midnight some stations started to ID only as Caracol, R.C.N., Tdelar and R. Suceso (a newsreel), the station name was not mentioned, just music and ads. Here are my loggings in Medellín with my Sony TRF1000WA. TRF is not known here yet.

- 540 - Tropicana, Guayaquil, Ecuador.- Horizonte, Bogotá.
 550 - R. Nacional, Medellín (s/off at 0500)
 560 - English speaking station at 0535 on 5/2, supposed to be Jamaica.
 570 - R. Nacional, Bogotá.- R. Cristal, Santo Domingo, after R.N. s/off.
 590 - R. Sutatenza, Medellín, s/off at 0400.- R. Rebelde, San Antonio de las Vegas
 600 - R. Libertad, Barranquilla
 610 - Emisora Nueva Granada, Bogotá, RCN
 620 - R. Ciudad de Cali, Cali
 630 - R. Menizales, Menizales (RN).- R. Liberación, Santa Ulara.
 640 - La Voz de Santa Marta, Santa Marta
 670 - R. Calidad, Medellín
 710 - R. Super, Medellín
 720 - Emisoras Unidas, Barranquilla
 730 - R. Melodía, Bogotá
 750 - La Voz de Antioquia, Medellín
 770 - R. Tequendama, Bogotá
 790 - R. Junín, Medellín
 800 - FJB, Bonaire
 810 - R. Sutatenza, Bogotá
 830 - R. Visión, Medellín
 900 - La Voz del Rio Grande, Medellín
 920 - Emisoras Fuentes, Cartagena
 930 - R. Continental, Bogotá
 940 - R. Eco, Cali
 950 - La Voz del Café, Pereira
 960 - R. Sutatenza, Barranquilla
 970 - La Voz de la Victor, Bogotá (RN)
 990 - La Voz de Medellín, Medellín
 1010 - Emisora Mil Veinte (1020), Bogotá (RN)
 1020 - Emisora Claridad, Medellín (Todelar)
 1050 - R. Familiar, Medellín
 1060 - Transmisora Caldas, Menizales (RN)
 1070 - R. Santa Fe, Bogotá (RN)
 1080 - R. Reloj, Medellín
 1090 - Ondas del Nevado, Menizales
 1140 - R. Cristal, Medellín
 1170 - R. Nutibara, Medellín
 1200 - R. Colibrí, Medellín (Sistema Colibrí)
 1230 - La Voz de las Américas, Medellín (s/off 0450). R. Calidad, Cali
 1260 - R. Exitos, Medellín
 1280 - R. Suroeste, Concordia (RN)
 1290 - R. Ritmos, Medellín (not heard in Rio Negro)
 1310 - R. Santa Bárbara, Santa Bárbara (RN)
 1320 - La Voz de la Independencia, Medellín
 1350 - Ondas de la Montaña, Medellín (Cadena Líder)
 1370 - Ecos de Rio Negro, Rio Negro (not heard in Medellín)
 1380 - R. Industrial, Medellín
 1400 - R. Mía, Santa Bárbara (RN)
 1410 - Emisora Cultural, Medellín (ID not heard)
 1440 - R. Popular, Medellín
 1470 - R. Musical, Medellín (ex-R. Ye)
 1500 - R. Disco, Medellín
 1520 - La Voz del Suroeste, Jericó (RN)
 1550 - R. Fantasía, Bogotá
 1560 - HJXX, Nuevo Medellín, Poblado (ID not heard, just HJXX)
 1590 - La Voz de la Música, Envigado.

INTERNATIONAL DX ACHIEVEMENTS

NORM MAGUIRE
 1406 BRYN MAWR DR. N.E.
 ALBUQUERQUE, N.M. 87106

#	DXer	Location	T.V.	CTYS	FOR.	Europe	Best
58	B. Dangerfield	Pennsylvania	430	117	353	145	HV-2 Vatican 782 2kw
38	R. Anderson*	Virginia	1448	105	514	128	Kalundborg II, Denmark
34	H. Gustafson	Illinois	851	107	305	111	Frøderikstad, Norway 1578
51	R. Schiller*	Texas	2133	86	375	72	N. Ireland 1340
39	H. Robie	Massachusetts	263	90	148	56	CSB-81 Azores
60	A. Rugg	Quebec	1457	60	1259	50	Sofia, Bulgaria 827
61	A. Imprescia*	New York	1573	67	253	32	Vatican 1529
74	S. Waterman*	Massachusetts	239	39	89	32	Norway 1313
33	D. Reynolds	California	1368	85	493	30	BBC 1214 60kw
36	N. Maguire	Hawaii	3016	81	530	24	Nantes, France 1366 10kw
33	R. Sperry	Connecticut	1669	42	249	15	R. Tirana, Albania 1394
39	C. Freeman**	California	1571	67	368	15	Linz II, Austria 1025
32	H. Wilkinson	California	402	72	378	14	RTF Bordeaux, France 1205
?	S. Dellit**	Australia	262	36	127	5	Munich, W. Germany 1602
40	G. Allen	California	2876	65	540	4	AFN Normandy, France 1204
?	R. Pistek*	Illinois	1141	34	121	4	R. Mi Amigo, Int'l Waters
64	E. Reynolds**	Missouri	1103	28	121	2	Nice, France 1554
75	R. Carr	Illinois	693	28	108	2	RNE Spain 854
31	F. Wheeler	Pennsylvania	1703	24	189	1	WDR Langenberg 1586
70	K. Rychalsky	Connecticut	225	11	46	1	WDR West Germany 1596 800kw
58	E. Wesolowski*	Nebraska	1898	24	168	—	—
58	W. Powis*	Virginia	264	20	199	—	—
73	P. Mount*	New Jersey	216	6	24	—	—
?	J. Kay*	Ontario	212	3	154	—	—

Hope you DXers will take a little time off during the Summer to up date your standings. Please address all correspondence to me at: 1406 Bryn Mawr Drive NE, Albuquerque, New Mexico 87106. I will be there before this appears in print. Also invite all NRC members to join or re-join this column. Would like to see it enlarged like we had it several years ago. Good health and DXing from this Sandwich Islander who is returning to the Land of Enchantment.

73 and Aloha, Norm

(Below) Pictured at left is Eric McIntosh, a member of NRC, and at right Norm Maguire. Picture taken at Tiwai, New Zealand.



OAKLAND, CALIFORNIA



GRAVEYARD DX ACHIEVEMENTS

HARRY HAYES
STAR ROUTE, BOX 226C
GOULDSBORO, PA. 18424

Welcome to another trip through the Graveyard. This time 1340 is reviewed. So now, on with it.

*denotes pre-1960 logging

1340

mi. DXer & loc.	station & loc.
2700 Ron SCHILLER Avenel NJ	KPRW Pasco WA*
2670 Gene ALLEN Vallejo CA	WGAW Gardiner ME*
2530 Gene ALLEN Vallejo CA	WHED Washington NC*
2500 Stan MORSS Bradford MA	KHUB Watsonville CA*
2400 Stan MORSS Bradford MA	KIHR Hood River OR*
2370 Hank HOLBROOK Chevy Chase MD	KMOR Oroville CA*
2370 Hank HOLBROOK Chevy Chase MD	KAPA Raymond WA*
1900 Norm McGUIRE Albuquerque NM	WEIM Fitchburg MA*
1900 Norm McGUIRE Albuquerque NM	WGAW Gardiner ME*
1600 Ralph SPERRY Fairfield CT	KFYO Lubbock TX*
1435 Don KASKEY Omaha NE	KFIR North Bend OR*
1420 Don KASKEY Omaha NE	KAPA Raymond WA*
1400 Ralph SPERRY Fairfield CT	KRSD Rapid City SD*
1400 Alan IMPRESCIA New York NY	KOLE Port Arthur TX
1335 Dan PHILLIPS Cookeville TN	KGPC Grafton ND*
1250 Rick CARR Bloomington IL	KPGE Page AZ
1210 Andy RUGG Montreal PQ	WROD Daytona Beach FL
1195 Ernie COOPER Provincetown MA	WPBR Palm Beach FL
1165 Dan PHILLIPS Clinton TN	KPDN Pampa TX*
1120 Frank WHEELER Erie PA	KAND Corsicana TX
1085 Brett HANAVAN Chula Vista CA	KWKC Abilene TX
1075 Ernie COOPER Provincetown MA	WROD Daytona Beach FL
1015 Rich EDDIE St. Louis MO	WDCR Hanover NH
1010 Andy RUGG Montreal PQ	KXEO Mexico MO
1005 Frank WHEELER Erie PA	KRMD Shreveport LA
1000 Alan IMPRESCIA New York NY	WTAN Clearwater FL
990 Jeff FALCONER Clinton ON	WROD Daytona Beach FL
945 Neil DICKERSON Sharptown MD	KICK Springfield MO
910 Neil DICKERSON Sharptown MD	KETA Batesville AR
900 Russ EDMUNDS Parsippany NJ	KXEO Mexico MO
900 Robert WIEN San Jose CA	KKIT Taos NM
860 Dave SCHMIDT New Castle DE	KXEO Mexico MO
845 Bill HARDY Aberdeen WA	KQIL Grand Junction CO
830 Robert WIEN San Jose CA	KSIL Silver City NM
825 Bruce WINKELMAN Greensboro NC	KSEK Pittsburg KS
820 Russ EDMUNDS Parsippany NJ	WAGN Menominee MI
810 Jeff FALCONER Clinton ON	KSEK Pittsburg KS
800 Stephen McINTIRE Des Moines IA	KOLE Port Arthur TX
795 Geoffrey PARRISH Deerfield IL	WDCR Hanover NH
785 Bill HARDY Aberdeen WA	KRAM Las Vegas NV
785 Michael SCHEEL Davenport IA	WHAT Philadelphia PA
780 Tim KERFOOT Weston ON	WOKE Charleston SC
780 Jerry STARR Hubbard OH	KSEK Pittsburg KS
775 Forest OSBORN Hooker OK	KPRK Livingston MT
760 Jerry STARR Hubbard OH	KVBR Brainerd MN
740 Rich EDDIE St. Louis MO	KLBK Lubbock TX
735 Mike HEPPE Houston MS	KLBK Lubbock TX
680 Michael SCHEEL Davenport IA	WOKS Columbus GA
675 Karl JETER Atlanta GA	KTOW Sand Springs OK
660 Nancy HARDY Aberdeen WA	KMAK Fresno CA
640 Don DAVIS Warner Robins GA	KERS Springdale AR
635 Geoffrey PARRISH Memphis TN	WEXL Royal Oak MI
635 Tom SUNDSTROM Willingboro NJ	WBBQ Augusta GA
630 Ron MUSCO Windsor CT	WJRI Lenoir NC
625 Brett HANAVAN Chula Vista CA	KQIL Grand Junction CO
625 Karl JETER Atlanta GA	KOLE Port Arthur TX
615 Forest OSBORN Hooker OK	KOLE Port Arthur TX
600 Tom SUNDSTROM Willingboro NJ	WOKE Charleston SC
575 Stephen McINTIRE Des Moines IA	KPDN Pampa TX
570 Dave SCHMIDT New Castle DE	WBBQ Augusta GA
510 Paul MOUNT Teaneck NJ	WJRI Lenoir NC
505 John BOWKER Valparaiso IN	KSEK Pittsburg KS
490 Nancy HARDY Aberdeen WA	KCAP Helena MT
480 John BOWKER Valparaiso IN	KVBR Brainerd MN
475 Bill LACKEY Kingsville TX	KLBK Lubbock TX

- 465 Rick CARR Bloomington IL
- 460 Harry HAYES Baltimore MD
- 430 Bob WESSOLOWSKI Milwaukee WI
- 420 Tim KERFOOT Weston ON
- 410 Harry HAYES Gouldsboro PA
- 405 Bill LACKEY Kingsville TX
- 395 Mike HEPPE Houston MS
- 390 Jeff KOSNETT Charleston WV
- 375 Bruce WINKELMAN Greensboro NC
- 320 Ron MUSCO Windsor CT
- 305 Bob WESSOLOWSKI Milwaukee WI
- 295 Paul MOUNT Teaneck NJ
- 295 Stephen PONDER Fort Worth TX
- 290 Don DAVIS Warner Robins GA
- 250 Konstantine RYCHALSKY Bridgeport CT
- 150 Stephen PONDER Fort Worth TX
- 60 Jeff KOSNETT Charleston WV

- KZNG Hot Springs AR
- WKGK Knoxville TN
- WEGN Bowling Green KY
- WRIT Milwaukee WI
- WCMI Ashland KY
- KRMD Shreveport LA
- KSEK Pittsburg KS
- WOKE Charleston SC
- WEGN Bowling Green KY
- WEPM Martinsburg WV
- WIZE Springfield OH
- WDCR Hanover NH
- KOLE Port Arthur TX
- WROD Daytona Beach FL
- WOOK Washington DC
- KWEC Abilene TX
- WXEE Welch WV

DEADLINE for 1400 will be Saturday, June 17, 1978. Send your best two loggings on the six Graveyard channels. Only stations in U.S. Canada, Mexico, Cuba and Bahamas will be accepted.



... THE HAMILTON NIGHT OWL ...

SAYS HELLO 2 - U - MY FRIEND

Atwater Kent Set Member N.R.C. - R9LL

S 8 W L

RADIO SWL QSA 5 R 9 Weather Rainy

QSL 100%. Friendship is my aim.

Please pass on my QRA. Thanks a million.

Remarks: *Just Game the SWL Business* JOSEPH J. BECKER, Sr.
415 South 11th Street
Hamilton, Ohio

SWL Card No.

JOE BECKER - Former NRC President. Card from Mort Meehan.

1939

BROADCAST FREQUENCY ALLOCATIONS

...An Update on Current U.S. Thinking

John D. Bowker

On May 5, 1978, the FCC released its "Eighth Notice of Inquiry" outlining its present thinking on all frequency allocations to all radio services. The purpose is to prepare "position" papers for discussion at the 1979 General World Administrative Radio Conference to be held in Geneva. In reading their comments, therefore, you should not assume that such changes are necessarily going to happen, but it's nice to know "what's up".

I have separated out only the portions of the 122-page document that relate to MW broadcasting. There are other sections on LW, SW, and TV broadcast allocations as well as amateur, satellite, microwave and all other radio services.

The following excerpts are verbatim quotes from the Eighth Notice:

"Many comments were received (in response to the Fifth Notice of Inquiry) regarding the proposed extension of the present broadcast allocation to 1800 kHz on a shared basis with the radiolocation service. The need for increased allocations for broadcasting was questioned by many parties; however, we believe that the requirements expressed in the AM Broadcast Service Working Group report are still valid. Feasibility of sharing between the two services was also questioned by many. In response to these concerns, and in order to further develop the United States proposal on this subject, the technical parameters of the various radiolocation systems in use in this band were explored with particular emphasis on the determination of their susceptibility to interference from a broadcast type emission. It was determined that through a slight modification of the broadcast emission (the addition of a notch filter), a broadcast station could operate in close proximity, both in distance and frequency, to radiolocation systems operating under certain conditions without causing harmful interference. However, it was recognized that two principles are of the utmost importance: the necessity for the broadcast operations to protect all radiolocation systems equally, and the requirement to permit maximum range of operations on the part of the radiolocation service as petroleum exploration extends further and further from coastal waters. Since no method of sharing could be developed that would respect these two principles, it is apparent that separate national frequency allocations would have to be made to the two services.

"It is proposed to leave that decision as to how the allocation should be divided between the two services for each individual administration in Region 2, since the needs for either service vary from country to country. In some countries there may not be a need for separate allocations because of the geographical separation between sites of radiolocation activity and potential sites of broadcast stations.

"In anticipation of a continuing frequency allocation to radiolocation in this country and a number of others in Region 2, and in view of the foregoing comments, an additional exclusive allocation to broadcasting is proposed in the band 1800-1860 kHz, to supplement the possible future national allocation to broadcasting below 1800 kHz."

"Travelers Information Stations The intention for the use of the bands 525-53 kHz and 1605-1615 kHz is to provide for information to be passed to motorists and travelers."

END

WHAT TIME IS IT?

Bill Hardy

Daylight Saving Time begins at 2am, local standard times, on the last Sunday morning of April every year, and ends at 2am, local daylight times, on the last Sunday morning of October, in 46 or more states of the U.S.A., plus the District of Columbia. DST is less uniform in Canada, which has no nationwide laws regarding DST; hence, local practices vary from province to province, as may start-and-stop dates for DST.

In order to provide DXers with information regarding those parts of North America which do not observe DST, here is information current as of spring 1978 based on newspaper reports and various DXers:

- Alaska? - - From 1967 thru 1977, Alaska has consistently observed DST every summer, statewide. An item from Ernie Wesolowski in the 4/3/78 DX News says, "Alaska does not use Daylight Saving Time." But a federal-government press release on DST, issued in late April 1978, did not list Alaska among the excluded states (which were Hawaii, Arizona, and parts of Indiana, plus U.S. possessions such as Puerto Rico and the Virgin Islands). So, the government seems to indicate that Alaska is on DST. Since the author of this article cannot hear Alaska consistently, he hasn't had an opportunity to confirm or deny this yet; help, anyone?
- Arizona - - Stays on MST year-round, except for the Navajo Reservation, where DST is observed.
- Hawaii - - Stays on Hawaiian Standard Time year-round.
- Indiana - - Most of the state stays on standard time year-round, but there are exceptions. The portions of Indiana which are in the Central Time Zone (the northwest corner near Gary, which is in metro Chicago, and the southwest corner near Evansville) go to CDT for the summer. Jeffersonville and New Albany, IN, which are just across the Ohio River from Louisville, KY, observe EDT with Louisville. The rest of the Eastern Time Zone in Indiana stays on EST year-round. Since EST = CDT, this means that all of Indiana (except Jeffersonville and New Albany) is on the same time during the summer.

Now, information on time zones in Canada, courtesy of Brian Vernon and Nick Hall-Patch:

- Alberta - - MST in the winter, MDT in the summer.
- British Columbia - - The majority of B.C. uses PST in the winter and PDT in the summer. The northeast corner of the province is in the Mountain Time Zone, and may or may not go to DST in the summer.
- Manitoba - - CST in the winter, CDT in the summer.
- New Brunswick - - Atlantic Standard Time (EST plus 1 hour) in the winter, Atlantic Daylight Time by annual government proclamation in the summer.
- Northwest Territories - - This sprawling territory covers four time zones. However, two of the time zones include LPRT's only. Mackenzie District contains CHAK-860, CFCT-600, and CFYK-1340, all of which use MST in the winter. Although Nick Hall-Patch doubted that there was any DST that far north, Brian Vernon says these stations did use MDT in the summer of 1977. Since most of N.W.T. is sparsely populated, the presence or absence of DST probably makes little difference!
In Franklin District, the only station using more than 40 watts is CFFB-1210, which uses EST winters and EDT summers.
- Nova Scotia - - same as New Brunswick.
- Ontario - - EST in the winter (except CST west of 90°W Longitude). DST in the summer is by local option, but most communities seem to observe DST.
- Prince Edward Island - - same as New Brunswick.
- Quebec - - EST in the winter (except Atlantic Standard Time east of 63°W Longitude). DST in the summer is by local option, but most communities seem to observe DST.
- Saskatchewan - - Time zone is up to the individual communities. Hence, the MST-CST border changes from time to time. Most are now on CST year-round. Those communities in western Saskatchewan which still use MST in the winter seem to go to MDT in the summer, putting the whole province on the same time then.
- Yukon Territory - - Uses PST year-round. They call this "Yukon Time," rather than PST. Don't confuse this with "Yukon Standard Time," which is no longer used in the Yukon itself!

Oops: Left out Newfoundland - where DST is used throughout in the summer.

DIVERSITY RECEPTION

CHUCK HUTTON

Diversity reception is the use of more than one antenna and receiver in an effort to reduce fading and QRM. It is a very old technique, having been used by military and commercial receiving installations for many years.

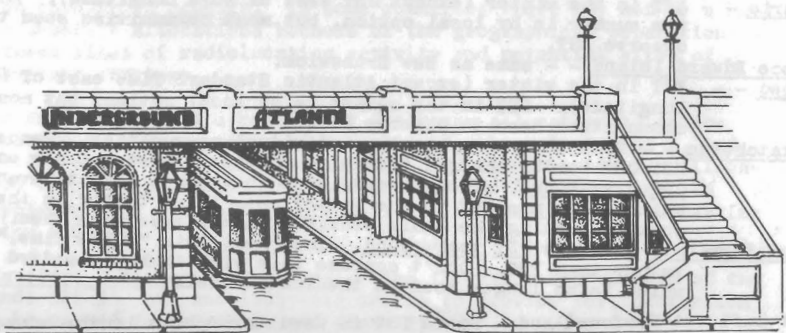
There are three forms of diversity reception: frequency, space, and polarization diversity. Space diversity is usually the most effective of the three, followed by frequency and then polarization diversity.

Space diversity is based on the principle that fading is rarely simultaneous on antennas separated by at least a significant fraction of a wavelength. The literature generally states that at least $\frac{1}{2}$ wavelength is necessary for appreciable diversity effects. However it is seen in practise that much smaller spacing is actually necessary to obtain a significant improvement. DX'er Bill Bailey has mentioned respectable results on the BCB with spacing of only 100 feet between 2 Beverage antennas. Generally each antenna is connected to a separate receiver and the AVC systems are tied together so that whichever receiver is being fed the stronger signal sends its AVC voltage to the receiver with the weaker signal and cuts it off, preventing it from making a contribution to the audio output of the system. Of course the 2 receivers must be identical if the AVC systems are to be linked together. The audio outputs of the receivers are then mixed and sent to phones. On the SW bands a system such as this can turn a rather poor signal into a very good signal, due to the elimination of the frequent, rapid fading. ON MW it is not quite as effective but still very helpful.

Frequency diversity is effective because it has been proven that fading is not simultaneous on frequencies separated by as little as a few hundred cycles. Evidence of this is the frequent instances where a carrier will fade down leaving a sideband by itself with resultant distorted audio. On some occasions it is possible to improve reception by tuning from a fading sideband to the other sideband, which may not have faded to the same degree. An even better answer would be to generate a stable carrier in the receiver and phase lock it to the station carrier, insuring proper demodulation. Sometimes the Q-multiplier form of exalted carrier reception can decrease distortion during carrier fades. Another trick is to use 2 receivers, one to each sideband. Each receiver is then connected to one side of a pair of stereo headphones. Then, any noise or distortion not common to both channels does not meet inside your head and therefore is not as bothersome.

Polarisation diversity is a rarely used form of reception based on the fact that fading is not always simultaneous on antennas of different polarisation. However, the differences in fading are not as great as with the other forms. Also, one polarisation is generally favored over the other at any particular frequency and type of signals being received.

THINK ATLANTA!!!



WREN leaves no doubt as to what is needed for a verification.

WREN

"The good life"

RADIO 1250
P. O. BOX 1280
TOPEKA, KS. 66601
913 - 232-0505

RUSSELL W. GIBSON, GENERAL MANAGER

Sir;

I am sorry to inform you that we cannot confirm your reception of WRFN. The information that you listed for confirmation did not include any that we could check on the program log.

In all fairness, we can only confirm (QSL) reception reports that list items that were broadcast at that particular time and can be checked in the stations program log.

To assist you in the future, the following guidelines are listed:

- (1) NEVER rely on song titles as the only time any station keeps a record of what songs were played is during ASCAP or BMI ascertainment week.
- (2) NEVER give any of the patter that a DJ says...there is no record of it and DJ's memories are extremely short.
- (3) NEVER give weather or news or sports stories...they are covered on all stations and are not peculiar to any one broadcast.
- (4) DO list the name of any sponsor and the time of the commercial, as they are required by law to be recorded on the stations program log.
- (5) DO list any unusual program types...such as a remote broadcast of a local football game (list the team names) or a shopping center remote broadcast.
- (6) look for the following and list them in your reception report:
 - public service announcements & times (i.e. American Cancer Society)
 - commercials, sponsors, & times
 - promotional announcements (i.e. up coming programs, events, etc)
 - program titles & times (i.e. Lum&Abner Comedy Hour, Back-to-the-Bible, Howard Cosell's Speaking of Sports)
 - political ads or broadcasts & times & names
 - news bulletins, special reports, live coverage, etc.
 - any sports play-by-play broadcast, listing teams, scores, etc.

Basically, listen for anything that the station will have to put down in its program log. Better luck next time and keep listening.

See

Lee Yazell
Chief Engineer

AN
ALF M. LONDON
RADIO STATION

AMERICAN
INFORMATION
RADIO NETWORK

ATLANTA!!!!

NRC 1978 CONVENTION

SEPT. 1-4, 1978

PLAN
NOW!

TIPS ON REMOTE TAPING

R. J. EDMUNDS

Since the appearance of the article entitled "Receiver/Accessory Interfacing Made Cheap and Simple" (DXN 5/21/77) and the article "An AC Power Supply for the NRC Loop" (DXN 12/19/77) appeared, some questions have arisen about just how one goes about setting up to record DX while away from the rig. This brief article will attempt to answer them.

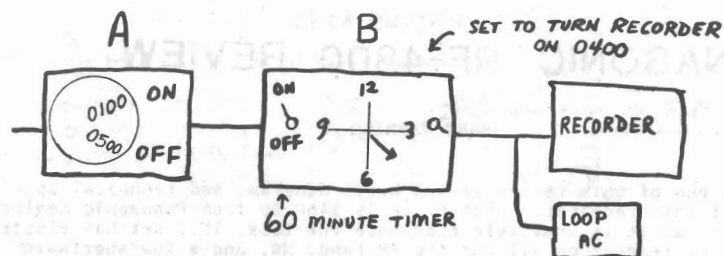
The concept of recording DX while the DX'er is away from the rig (either out of the house, or asleep, or otherwise) has been around for several years, and is used by a number of DX'ers. While some individuals may question the ethics of this technique, no judgement in either direction is to be found herein.

One of the most frequent uses is to chase DX TESTS which cannot be dx'ed "live". The technique involves the use of a timer or clock-timer to set the recorder to capture a segment of what is heard on a given frequency at a pre-ordained time. Either a 24-hour timer with automatic, pre-settable turn-on and turn-offs as frequently used to turn lights on and off at night in the home may be used, or an actual clock-timer of the type used in clock radios may be used. Either will do the job, although the latter may provide a little more versatility. Use of two units (preferably one of each type) will allow for even more complicated setups.

Unless you have a very stable, transistorized receiver which is not prone to drift in frequency over long periods of time, it will be best to warm up the receiver until it is stable, set it, and leave it on until after the remote recording is made and then turn it off. If you are using either an AC-powered loop, a longwire, or an unamplified loop, you have no serious power problems, as the former may be wired into the timer along with the tape recorder and the latter require no power. A battery-powered loop will have to be left on along with the receiver, unless you wish to construct a relay system for that voltage, which is both more expensive and more trouble than building an AC supply. Leaving the batteries on for long periods of time is quite wasteful of batteries and can become expensive, hi. If you do decide to go the battery route, the best bet is to buy the largest ampere-hour rating you can (Everready 266 is about the smallest one to use!).

Now, on to the basics: The timer plugs into the wall, and the recorder (and loop AC supply, if used) plug into the timer. The timer is set for an on-time and an off-time in accordance with your DX target (s). The interval between these two settings is determined by the playing time of the tape in use. A reel-to-reel machine set at 3 3/4 ips for a 1200 foot reel will go just under an hour. The same recorder supplied with a 3600 foot reel and set at 1 7/8 ips will run for about 6 hours on one side! (Remember that you ultimately have to listen to a tape for that long to see if anything useful is on it, hi). It is helpful to use a stereo recorder, so that you can run WWV or CHU from SW into the other channel from another receiver to provide an accurate time reference, although this is not necessary -- you can determine time from various station TC's if you have to.

Let's go a step further, and say that you have two DX TESTS, both on the same frequency, but about 3 hours apart, and only an effective recording time as dictated by your tape and speed of 2 hours. Using the two timers, this can be done. Take the first one and plug it into the wall, plug the second (this one the clock-timer type) into that. Set the clock-timer's 1-hour on cycle timer to full on. Then plug the recorder into that. Let's say that the first test is at 0100. Set the first timer to go on at 0100, and the timer on the second unit will shut it off again at 0200. Then, you can set the clock-timer turn-on for 0400 (that's the second timer in the line) for the second test. Then, if you've set the first timer to shut off at 0500, you should have a tape with the DX on that frequency from 0100-0200 and 0400-0500 on it.



- 2200 - Setup
- 0100 - Timer A preset on; Timer B cycle-timer on; power on
- 0200 - Timer B cycle-timer off; power off.
- 0400 - Timer B preset on; power on
- 0500 - Timer A preset off; power off.

Naturally, if you're so inclined, you'll be able to figure out a number of alternatives to the above method once you get the hang of it. Just remember that the presets on most timers are not precise and that you should allow about 15 minutes leeway before and after the desired program segment to compensate for this.

CONVENTION MEMORIES - BOSTON, MASS.
Shown at the 1968 Convention are Gordon Nelson (seated, left), Randy Kane (next), Tom Holmes (standing), unknown, Hal Robie (seated, far right).



PANASONIC RF-4800 REVIEW

GRANT MANNING

At the end of this review is the block diagram, and technical specifications of this receiver. List price is \$460.00 from Panasonic dealers. This is high, as it is available elsewhere for less. This set has electronic digital tuning readout on all but the FM band, MW, and a low shortwave band (1.6 - 3 MHz).

After playing with the receiver quite a bit for a month now, I've sort of reached some opinions on it's performance across the bands.

The FM is quite poor. Poor sensitivity, poor image rejection, and cross-mod immunity. No digital tuning.

The AM is also a loss, with tons of spurious, and no digital on a 4" (lengthwise) dial. Loopstick antenna, and no provisions for a loop or shielded antenna input. Relatively insensitive, and broad as a barn door. While on the subject of selectivity, um, the specs say *plus or minus*; the best you get is 3 KHz at -6db and 12 KHz at -60db. It's worse than this, I'm quite sure. The AM, and all SW functions of IF amplification and frequency conversion are handled by one IC. There is, (unfortunately) so much leakage through the chip, you can break the signal path and still have audio! Ditto on the 1.6 - 3 MHz segment of SW. Insensitive, no digital, easy to overload, broad, poor frequency calibration, etc.

On shortwave, it is sensitive as heck. Probably the most sensitive in the house. However, it overloads the easiest too, and will go into a cross-mod condition on R. Maldives. If the receiver is run with the RF gain cranked down to where the S meter sits around S9, the front end more or less operates in a sane manner, and it's okay.

The dial and tuning system, (it has a fast-slow tuning knob), is great except that it has about 0-1 KHz backlash. They provide a VFO off-set to zero the receiver to the display on the front panel. I've found that once set, it need not be changed. The receivers' oscillators drift however, and my receiver exceeds their specifications of less than 500 hz per half hour. It's around 5 KHz per hour. So after you turn it on, you have to retune every so often to stay on frequency especially on marginal stations, where passband placement becomes important. The set is nice to operate, but the volume control is in the wrong spot, and it's the wrong size.

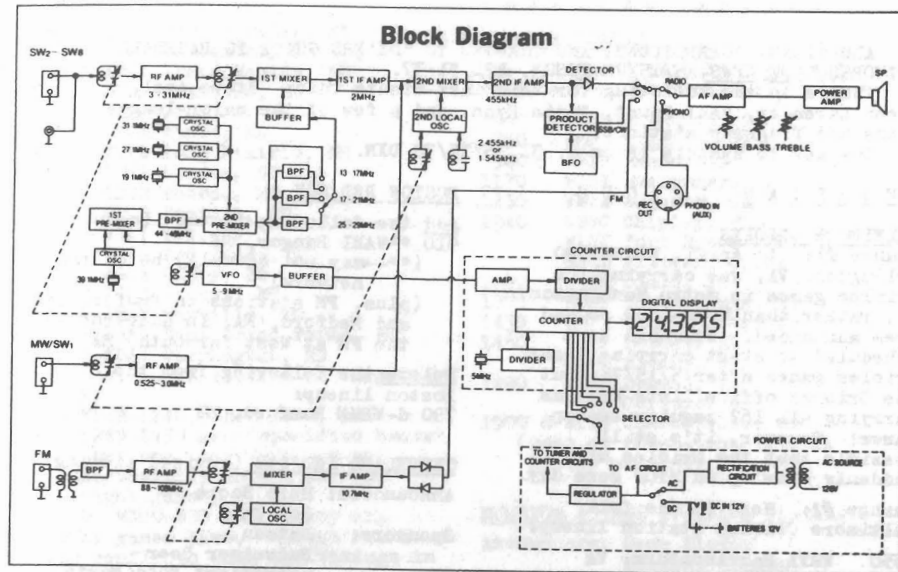
The beast is big! 18" x 11 1/2"D x 7"H. Weighs nothing (12 lbs), is black, has R-390 handles (chrome no less), and NC-98 dials, with a digital display at the center top.

I tried to modify the biggest problem the beast has, namely, the lack of selectivity on SW. I can live with the cross-mod; (S meter freaks will have to learn that "lots" isn't necessarily "best" or be plagued with overload/resultant cross-mod.) The IC that is the IF, (plus two ceramic filters and a couple of interesting transformers), has so much leakage that I was unable to fit a mechanical filter to it, or so far anyway. A 3.8 filter would be just fine with this set.

Basically I like it. I wouldn't buy it for a main receiver, but as something nice looking for stand-by work and maybe some "easy" SWing. On the 19, 31, and 49 meter bands, the wide filters, and quality speaker plus tone controls are great! Hi fi DX! However, if you "turn it up", the audio distorts, and pilot lamps flicker from poor power supply regulation.

So, if you are in the market for a fancy entertainment portable, with direct readout on SW, go for it. If you want a *communications* type receiver, keep looking.

The RF 2800 was also tested at this time - initial results were better, considering the price, and this will be covered in a later article.



SPECIFICATIONS

Power Source:	AC 120V, 60 Hz DC 12V; eight 1.5V batteries (Panasonic UM-1 or equivalent), or any external 12V DC source (such as a car or boat battery through a car-battery adaptor)	SW2	S/N 10 dB 1.3 μ V S/N 26 dB 8.0 μ V
Power Consumption:	10W	SW3	S/N 10 dB 0.8 μ V S/N 26 dB 5.0 μ V
Receivable-Signal Types:	FM, AM, CW, and SSB	SW4	S/N 10 dB 1.2 μ V S/N 26 dB 7.0 μ V
Frequency Range:	FM 88-108 MHz MW 525-1605 kHz (571-187m) SW1 1.6-3.0 MHz (187-100m) SW2 3.0-7.0 MHz (100-42.9m) SW3 7.0-11.0 MHz (42.9-27.3m) SW4 11.0-15.0 MHz (27.3-20.0m) SW5 15.0-19.0 MHz (20.0-15.8m) SW6 19.0-23.0 MHz (15.8-14.7m) SW7 23.0-27.0 MHz (14.7-11.1m) SW8 27.0-31.0 MHz (11.1-9.7m)	SW5	S/N 10 dB 1.2 μ V S/N 26 dB 7.0 μ V
Reception Method:	FM Superheterodyne MW/SW1 Superheterodyne SW2-8 Double-Superheterodyne (variable oscillated-frequency up-converting, premixing system)	SW6	S/N 10 dB 1.2 μ V S/N 26 dB 7.0 μ V
Intermediate Frequency:	FM 10.7 MHz MW/SW1 455 kHz SW2-8 1st IF 2 MHz 2nd IF 455 kHz	SW7	S/N 10 dB 1.3 μ V S/N 26 dB 8.0 μ V
Frequency Display:	SW2-8 (3.0-31.0 MHz) 7-segment, red LED 5 digits Easy reading to three decimals in MHz (below 1 kHz to the closest round number)	SW8	S/N 10 dB 1.3 μ V S/N 26 dB 8.0 μ V
Antenna:	FM External antenna (75 Ω) MW Built-in ferrite-core antenna and external antenna (75 Ω) SW1 External antenna (75 Ω) SW2-8 External antenna (75 Ω), or M-type coaxial- cable antenna (75 Ω)	Image Ratio:	FM 30 dB (96 MHz) MW 40 dB (1000 kHz) SW1 30 dB (2.3 MHz) SW2 65 dB (5 MHz) SW3 60 dB (9 MHz) SW4 55 dB (13 MHz) SW5 50 dB (17 MHz) SW6 45 dB (21 MHz) SW7 35 dB (25 MHz) SW8 35 dB (29 MHz)
Sensitivity:	FM 3 dB down limiter 1.6 μ V S/N 26 dB 3 μ V MW S/N 10 dB 60 μ V/m S/N 26 dB 400 μ V/m SW1 S/N 10 dB 1.0 μ V S/N 26 dB 6.0 μ V	Selectivity:	(SW2-8 is 1st IF image ratio.) FM \pm 200 kHz (35 dB), \pm 400 kHz (70 dB) AM WIDE \pm 2.5 kHz (-6 dB), \pm 15 kHz (-60 dB), NARROW \pm 1.7 kHz (-6 dB), \pm 6 kHz (-80 dB)
		Frequency Stability:	Thirty minutes after power-on, fluctuation is less than 500 Hz
		Input Jacks:	AUX mini-type...20mV, 300 Ω REC OUT mini-type...400mV, 4k Ω EP/EXT. SP 4-8 Ω
		Output Jacks:	SW2-8 Tuning Control: Fast/Slow Ratio...12:1 Retardation Ratio...1:9.5 (Fast) 1:114 (Slow)
		Semiconductors:	5 IC's, 3 FET's, 34 Transistors
		Power Output:	RMS 2.0W
		Speaker:	10 cm, 4 Ω
		Dimensions:	482(W) x 200(H) x 354(D)mm
		Weight:	8 kg (without batteries)

Specifications subject to change without notice.

BASEBALL NETWORKS

ADDITIONS, CORRECTIONS, AND CHANGES TO "DX'ERS GUIDE TO BASEBALL NETWORKS," DX NEWS, 5/15/78 ISSUE, PP. 31-37.

Thanks to the following for this last-minute info: Steve Apel, Glenn Lavender, Paul Mount, Eddie Ryan, and a few of the major-league teams and flagship stations.

The key to symbols is on p. 31, 5/15/78 DXN.

AMERICAN LEAGUE

BALTIMORE ORIOLES

Change #1: In April, WEAM-1390 Arlington, VA, was carrying the Orioles games in metro Washington, DC, rather than WTOP-1500 as had been announced. WTOP had been scheduled to start carrying "most" Orioles games after 5/15/78; but the Orioles office lists WEAM as carrying all 162 regular-season games! However, it's still possible that the Orioles might suddenly show up on WTOP some day.

Change #2: Here is the full Baltimore Orioles station lineup:

550 WAVA Harrisonburg, VA
 930 +WFMD Frederick, MD
 960 WBOC Salisbury, MD
 970 WAMD Aberdeen, MD
 1010 d+WCSB Berkeley Springs, WV
 1090 WBAL Baltimore, MD
 1220 d+WLSB Big Stone Gap, VA
 1230 +WBHI Abingdon, VA
 1240 +WCEM Cambridge, MD
 WJEJ Hagerstown, MD
 WSSV Petersburg, VA
 1250 d+WBER Warrenton, VA
 1280 WHVR Hanover, PA
 d+WTTX Appomattox, VA
 1330 d+WASA Havre de Grace, MD
 1340 +WKBY Covington, VA
 +WJMA Orange, VA
 WEPM Martinsburg, WV
 WKIK Leonardtown, MD
 1370 WEAM Arlington, VA
 1390 +WHLF South Boston, VA
 1400 d+WDDY Gloucester, VA
 1450 WTHU Thurmont, MD
 1460 +WBMD Easton, MD
 +WRAD Radford, VA
 1470 d+WTR Westminister, MD
 1490 WOPI Bristol, TN
 WVEC Hampton, VA
 WAYB Waynesboro, VA
 1520 d+WEXM Jamesville, VA
 1590 WCBG Chambersburg, PA

(plus, 6 FM stations in MD, VA, and WV that are not associated with AM stations)

(NOTE: The Orioles office says that out of all these stations, only WBAL-1090, WBOC-960, WEAM-1390, and the FM outlets in Cumberland and Westminister, MD, will carry all 162 regular-season games live. Most stations are scheduled for 120, 140, or 150 games; some for even fewer.)

BOSTON RED SOX

Add the following to the lineup:

910 **WABI Bangor, ME
 (**--may not actually be on the network)
 (plus, FM stations in Rumford, ME, and Medford, MA, in addition to the FM at West Yarmouth, MA)

Delete the following from the Boston lineup:

790 d-WRUM Rumford, ME

CLEVELAND INDIANS (revised listing)

Announcers: Herb Score
 Joe Tait
 Datsun
 Sponsors: Budweiser Beer
 Convenient Food Marts

900 d-WFRO Fremont, OH
 960 d-WWST Wooster, OH
 990 d-WTIG Massillon, OH
 1100 WWEB Cleveland, OH
 1240 +WBBW Youngstown, OH
 1260 WLKK Erie, PA
 1280 WONW Defiance, OH
 1340 WNCO Ashland, OH
 1400 WMAN Mansfield, OH
 1450 +WLEC Sandusky, OH
 1520 d+WKNT Kent, OH
 1540 d+WBCO Bucyrus, OH
 d-WBTC Uhrichsville, OH
 1600 d-WAQI Ashtabula, OH
 (plus, FM stations in Delphos, Fostoria, Johnstown, and New Philadelphia, OH)

MINNESOTA TWINS (revised listing)

Announcers: Herb Carneal
 Sid Hartman
 Rod Carew
 Joe McConnell
 Sponsors: Midwest Federal Savings
 and Loan
 Chevrolet
 Pabst Beer

570 WNAX Yankton, SD
 580 d-KANA Anaconda, MT
 600 KSJB Jamestown, ND
 830 WCCO Minneapolis, MN
 920 KWAD Wadena, MN
 1040 WHO Des Moines, IA
 1230 WKLK Cloquet, MN
 KTRF Thief River Falls
 1240 KICD Spencer, IA
 WMMG Hibbing, MN
 KDLR Devils Lake, ND
 *KTHE Thermopolis, WY

(continued next page...)

Minnesota Twins, cont.

1250 KBRF Fergus Falls, MN
 1260 KROX Crookston, MN
 1320 KOZY Grand Rapids, MN
 1340 KVRB Brainerd, MN
 KXPO Grafton, ND
 1390 KKOA Minot, ND
 1400 KEYL Long Prairie, MN
 *KBJM Lemmon, SD
 1410 KRWB Roseau, MN
 1450 KBUN Bemidji, MN
 WKLY Ely, MN
 *KRBN Red Lodge, MT
 KCCA Rugby, ND
 1480 KGCX Sidney, MT
 1520 d-KMAV Mayville, ND
 1590 KRAD East Grand Forks, MN
 1600 d-KDAK Carrington, ND
 (plus, an FM station in Virginia, MN)
 (*--KTHE-1240, KBJM-1400, and KRBN-1450 are "specified hours" stations, and thus are not necessarily on the air for night games)
 (Note: WCCO-830 will carry all Twins games live, "except for a few conflicts with the Vikings in the fall.")

NEW YORK YANKEES (revised listing)

Announcers: Phil Rizzuto
 Frank Messer
 Bill White
 Sponsors: (still unknown)

550 *WHLM Bloomsburg, PA
 560 d-WCKL Catskill, NY
 610 WSWG Torrington, CT
 790 WWNY Watertown, NY
 920 WKRT Cortland, NY
 950 *d-WHPN Hyde Park, NY
 WIBX Utica, NY
 960 d-WATS Sayre, PA
 1000 d-WHVB Rutland, VT
 1010 WINS New York, NY
 1230 WINP Manchester, CT
 WERI Westerly, RI
 1240 WWDW Schenectady, NY
 1250 WDAE Tampa-St. Petersburg, FL
 1270 d-WDLA Walton, NY
 1280 WROC Rochester, NY
 1320 WATR Waterbury, CT
 1340 WNEC New Haven, CT
 WENT Gloversville, NY
 WALL Middletown, NY
 1360 WKOP Binghamton, NY
 1400 WDOT Burlington, VT
 1410 d-WBZA Glens Falls, NY
 WDOE Dunkirk-Fredonia, NY
 1440 d-WJLL Niagara Falls, NY
 1450 WCLI Corning, NY
 1460 WOKO Albany, NY
 1480 W SAR Fall River, MA
 1490 WNUS West Springfield, MA
 WKNY Kingston, NY
 (plus, FM stations in Waverly, NY, and Tomauqua, PA)
 (*--Our source is unsure if WCKL-560 and WHPN are actually on the Yankees network, since he heard them with other programming while WINS-1010 was airing a Yankees game.)

NATIONAL LEAGUE

ATLANTA BRAVES

The following is only a partial Atlanta network listing:

630 WBBX Savannah, GA
 750 WSB Atlanta, GA
 940 WMAZ Macon, GA
 1170 WCOV Montgomery, AL
 1230 WRJA Augusta, GA
 1240 WBGC Chipley, FL
 WINK Fort Myers, FL
 WBHB Fitzgerald, GA
 1290 WTCM Ocala, FL
 1370 WDEF Chattanooga, TN
 1430 WPCF Panama City, FL
 1450 WDIG Dothan, AL
 WGPC Albany, GA
 1490 WFTO DeLand, FL
 WJMJ Cordale, GA
 1500 d-WIAP Clarksville, GA
 (rest of 60-station network lineup unknown)

HOUSTON ASTROS (revised listing)

Announcers: Gene Elston
 DeWayne Staats
 Sponsors: (still unknown)

910 KAMD Camden, AR
 950 KPBC Houston, TX
 1150 *+WTAW College Station, TX
 (*--daytime, but with CP to go fulltime)
 1200 WOAI San Antonio, TX
 1230 KSIX Corpus Christi, TX
 KWTX Waco, TX
 1250 KPAC Port Arthur, TX
 1280 WGSO New Orleans, LA
 1310 WRR Dallas, TX (call-letter change to KAAM has been applied for)
 1350 d+KTEL Jasper, TX
 1410 KNAL Victoria, TX
 1490 +KSAM Huntsville, TX
 (plus, 5 FM stations in Texas that are not associated with AM stations)

MONTREAL EXPOS

The following is the full station listing for the English broadcasts:

600 CFCF Montreal, QU
 800 CJBQ Belleville, ON
 960 WBAV Plattsburgh, NY
 1340 *WMSA Massena, NY
 (*--WMSA is a "specified hours" station, and thus is not necessarily on the air for night games)
 1350 CKLB Oshawa, ON
 1400 WBRL Berlin, NH
 WSLB Ogdensburg, NY
 1450 WSNQ Barre, VT
 1490 WICY Malone, NY
 (plus, FM stations in Potsdam, NY, and Ottawa, ON)

N.F.L. FOOTBALL BROADCASTS DATA IS NEEDED - please send to Bill Hardy, 2301 Pacific Ave., Aberdeen, WA, 98520 as soon as you can obtain any NFL info - hopefully by 8/1/78!

M W IONOSPHERIC PROPAGATION

Ronald F. Schatz

This article is being presented as a prerequisite to our upcoming article on Terminator Transit Mechanix (TXM). It represents several weeks of hard research at major university libraries in the South Florida area. The approach will be a fresh one, unlike the standard ARRL-type "short-wave" propagation outline that medium-wave DX'ers have had to suffer in the past as an explanation for what goes on at their end of the spectrum. New terms and concepts, representing the latest scientific discoveries and terminology, will be incorporated, and factors having naught to do with medium-wave propagation, such as the F₁ layer, will be left out. We hope you will find this novel presentation informative and useful to your DX'ing pursuits.

The ionosphere is a broad region of the upper atmosphere containing plasma; i.e., gases broken up by solar and cosmic radiation into free electrons and positive molecular ions. The plasma tends to concentrate into several horizontal layers, where electron densities (N) are thick enough to return radio-wave energy back to earth, absorb it, or both.

The lowest of these layers is the D layer, at an effective height of about 55 miles. The D layer is formed mainly by ultraviolet radiation from the sun, and its "N" values follow solar intensities very closely, reaching a maximum at noon and almost vanishing instantly as the sun's final rays disappear beyond the horizon at dusk.

The D layer absorbs MW signals during its daylight existence through a process called non-deviative absorption, thereby preventing ionospheric propagation until nighttime. There are exceptions, however:

During autumn and winter months the low angle of the sun may so attenuate the D layer that some sky-wave propagation may be possible even at local noon, though signal strengths never approach anywhere near nighttime levels.

And during geomagnetic storms, solar particle bombardment can reform the D layer at night, bringing "daytime" reception to the band during what MW DX'ers call "auroral conditions". More on this later.

Just above the D layer is the E layer, at an effective height of some 60 miles. It is generally useless for MW reception by day because of the absorbing D layer only some five miles beneath it.

At night the E layer is formed mainly by constant bombardment from meteoric dust and other cosmic radiation, therefore E-layer "N" values tend to reach a maximum at local midnight, especially in tropical latitudes.

Medium-wave signals are propagated by the E layer via both reflection and refraction, since medium wavelengths are relatively large compared to the plasmas densities encountered in this layer. The refraction path tends to follow a parabolic curve, as illustrated in Figure 1. A lot of attenuation occurs this way, since much of the signal "gets lost" on its way from point A to point B, a process called deviative absorption.

The reflected signal tends to dominate the refracted one, since it is not reduced as much by having to travel through the plasma. Reflection occurs at the points of refraction, through a process well known in optical physics. This subject will be treated more fully in our article on TXM.

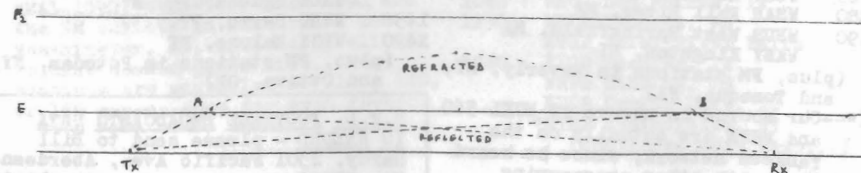


Fig. 1

The E layer is not uniform but systematically irregular in electron density (N) distribution due to tidal forces, standing waves, and gigantic eddy currents, all of which cause it to behave like a motor as it rushes across the earth's geomagnetic lines of flux. The original dynamo theory was the first to postulate the existence of the ionosphere back in the 1880's! Most long-term fading observed on the MW band is the result of this dynamo activity in the E layer.

Sporadic E (E_s) are super-thick patches of plasma occurring at E-layer heights, especially at night over tropical areas. It causes highly localised enhanced receptions on medium waves.

The only other ionospheric layer that may affect MW propagation is the F₂ layer, at three times the height of the E layer, or about 190 miles. Its existence at night is mainly due to delayed recombination (or recombination) of the plasma back into neutral gases due to the thinness of the atmosphere at that altitude.

The F₂ layer is the principal nighttime reflector of short-wave signals, but it plays only a very minor rôle on medium frequencies, which are overwhelmingly E-layer territory.

The critical frequency (f_c) of a layer is the highest frequency that will be returned by that layer from straight overhead. The "f_c" for the night E layer averages about 400 kHz, higher at sunspot maxima, lower at minima. The oblique critical frequency (f_{co}) rises as the grazing angle drops, reaching the maximum usable frequency (MUF) at the lowest practical grazing angles (about 3°). Cf. Figure 2. For the night E layer, the MUF averages 2 MHz, similarly varying with sunspot activity.

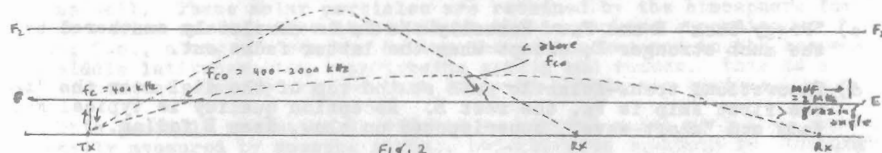


Fig. 2

Frequencies greater than the "f_{co}" for a given grazing angle will pass through the layer. Medium-wave signals that are aimed too high will therefore pass through the E layer to be reflected by the F₂ layer far above it. This sometimes happens at the top of the band on short-distance paths.

Therefore, almost all medium-wave ionospheric signals are propagated by the night E layer. F₂-layer propagation is possible at the top of the band over short distances during solar-quiet (Sq) conditions, otherwise it is normally completely buried by stronger E-layer signals - except during deep fades.

A DX'er with a trained ear can tell if a sky-wave signal is being propagated by E skip or F₂ skip. E skip is characterised by strong, steady signals; fades are slow and several minutes apart. F₂ skip is normally only half as strong and has a characteristic "short-wave" sound to it; fades are constant and rapid, only seconds apart.

During deep E-layer fades at the top end of the MW band, fady F₂ skip may take over for several seconds until the E layer recovers. A chart of that event may look something like Figure 3. Such a signal never really fades out completely, since a "backup" system is at work.

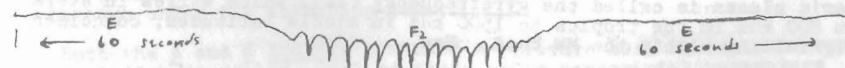
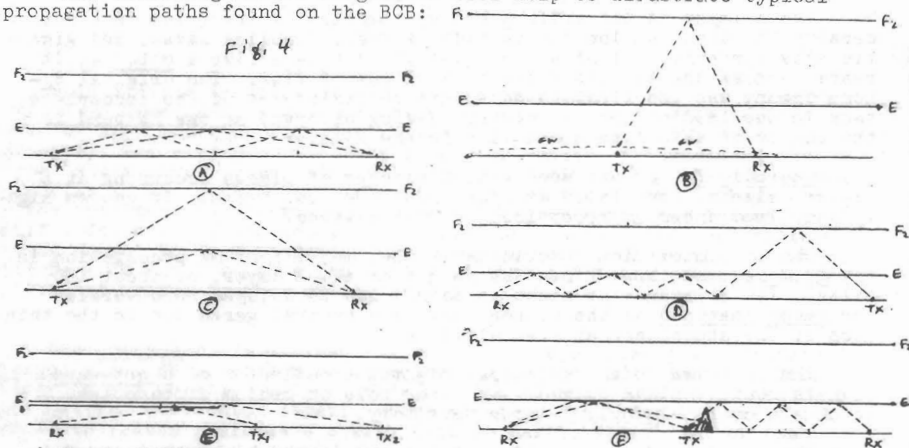


Fig. 3

Sky-wave signals may make several trips through the ionosphere by bouncing off the earth's surface a number of times. Typical MW paths across the Atlantic Ocean involve 4 to 5 E-layer hops.

The maximum skip distance via the E layer is about 1300 miles, but double E skip (2E) normally dominates past 1050 miles. Skip distances are notably greater at lower latitudes and over water paths. One skip per thousand miles or fraction is a fair rule of thumb for most DX locations.

The following vector diagrammes will help to illustrate typical propagation paths found on the BCB:



- Typical MW ionospheric modes over a thousand-mile path. Both single and double E skip are present, vying for domination and causing occasional fading in the process.
- Hi-band semi-local at night, F_2 due to steep grazing angles. Severe fading is experienced due to interference from the ground wave and the fady nature of F_2 skip.
- "Piggy-back" E and F_2 . Normally the F_2 is completely smothered by the much stronger E, except when the latter fades out.
- Theoretical trans-Atlantic path at the top of the dial near the " f_{co} ". The first skip is F_2 , the rest E. Reception quality is typical F_2 , fady and "short-wave", superimposed on slow, deep E fading.
- D-layer blanketing during "auroral conditions". Tx-1 can't get through, while Tx-2, though much further away, can.
- Horizon blockage caused by a mountain backdrop. The signal is weaker than it should be, since the reflection area is cut down, and more hops are necessary due to the lack of low-angle paths. Signals in the opposite direction are strongly enhanced, as the mountains act as a "reflector" for them.

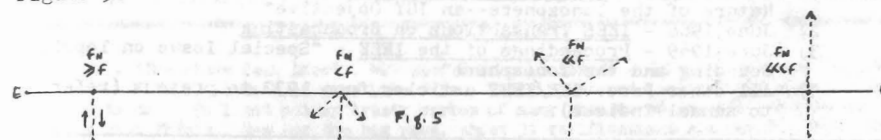
Fading on the MW band varies from the rapid flutter of polar-cap absorption to the all-night rise and fall of E layer cosmic bombardment (midnight peak). Almost all fading is the result of ionospheric N values changing with time or similar changes in layer heights; the ionosphere being an extremely turbulent medium. The frequent presence of more than one signal path compounds the fading situation, such as when ground and sky waves interact at short distances.

The study and prediction of solar-induced (dawn and dusk) and E-layer standing-wave fades are the specific concern of Terminator Transit Mechanix (TXM), which are covered in a separate article.

The natural frequency of movement of free electrons in the ionospheric plasma is called the **gyrofrequency** (f_w), which varies in average from 800 kHz in the tropics to 1500 kHz in middle latitudes, coincidentally falling within the MW band. Now ...

The presence of the earth's magnetic field causes refracted radio waves to split into **ordinary** (O) and **extraordinary** (X) rays. The overall effect is that the E layer will not return the X wave at or anywhere near " f_w ". Therefore, unlike on SW, MW signals are almost entirely O waves, perhaps a primary reason why MW and SW propagation conditions are so mutually different. Certain MW signal paths, especially in the tropics, are chronically poor, since the E layer will also refuse to return vertically-polarised O waves in certain geomagnetic directions, and the X wave can't take over. Some direct north-south paths are a prime example.

The natural frequency of interaction between the free electrons and positive ions in the ionosphere is called the **plasma frequency** (f_N). If the signal frequency equals or is less than " f_N ", even vertical signals will be returned. As the signal frequency rises above " f_N ", the reflection angle increases - until the signal is hardly affected at all. Note Figure 5:



Therefore, " f_c " occurs where " f_N " equals the signal frequency. Read **Terminator Transit Mechanix** for a complete discussion on this subject and its implications.

So far we have discussed only the **normal** operation of the ionosphere as it affects medium waves, but experienced DX'ers know that some nights are different from others, reception-wise.

As the DX NEWS publication schedule indicates, winter is better than summer for ionospheric propagation. The lack of thunder-static in winter is the primary reason, but some decrease in ionospheric non-deviative absorption is also a factor.

To properly understand seasonal variations in ionospheric propagation it must be known that the sun doesn't control the ionosphere with light alone but that protons and other particles are shot in our direction as well. These solar particles are retained by the atmosphere for days at a time and are distributed about the ionosphere according to season; i.e., along the equator during the equinoxes and in the respective middle latitudes then experiencing spring and summer. This is a complex subject, better treated more fully in a separate article.

This particle radiation is related to general solar activity, traditionally measured by sunspot number, but counting sunspots is becoming passé these days. Today, geophysicists prefer to use the **solar flux index**, which is basically a measurement of noise created by particle bombardment of the upper atmosphere. Typical flux values are around 120. On the best of days it may drop into the 60's, promising good long-distance reception. Or it may rise past 180, a hint to do something other than DX. In a way the solar flux is the ionosphere's "signal-to-noise ratio". The SF follows a regular 27-day cyclic pattern, in time with the sun's rotation.

Disturbances in the **geomagnetic field** mean that the E-layer "dynamo" is upset. Its specific effects on MW reception, other than to distort loop bearings, have not been empirically explored to a great extent.

Surrounding the earth's magnetic poles are doughnut-shaped "auroral zones", where the lines of geomagnetic flux are anchored. This is a region where the E layer is highly reflective but the D layer even more highly absorbent, even at night, where DX'ers visiting the Yukon often report a "dead band". When a major solar flare erupts, the oncoming front of particles knocks other particles trapped in the earth's flux field out of their stable orbits, dumping them into the auroral zones. The zones then expand like a winter cold front, often reaching as far as central Florida, thereby giving most of North America a "dead band" - except where signals from South Florida and the Caribbean can get through under the absorbing layer.

Both the **A** and **K** indices are used to measure such auroral absorption in different scales. All of these solar-terrestrial parameters are broadcast after the 18'th minute of each hour over WWV.

Finally, the infamous "mid-winter anomaly" (MWA) will also be left to our article on seasonal variations. For now we'll just say that it's the reason why TA reception is often better in October than in December and January.

REFERENCES

- Texts: 1) Davies, Kenneth - Ionospheric Radio Waves - 1969
 2) Doluhanov, M. - Rasprostraneniye Radiovoli - 1971
 (English Translation from Russian)
 3) Picquenard, Armel - Radio Wave Propagation - 1974
 4) Terman, F.E. - Electronic and Radio Engineering, Sec. 22 - 1955
- Journals: 1) Feb. 1959 - Proceedings of the IRE - "Special Issue on the Nature of the Ionosphere--an IGY Objective"
 2) June 1966 - IEEE Transactions on Broadcasting
 3) June 1969 - Proceedings of the IEEE - "Special Issue on Topside Sounding and the Ionosphere"
 4) All other Proc. IRE/IEEE articles from 1932 to present (refer to annual indices).

We're pleased to announce that through the efforts of Kelly Andrews, two-color award certificates, 8 x 10, are now available. We're asking our awards chairman, Norm Maguire (address on back page) to summarize our awards program for next issue. Awards are printed blue and red on several colored papers.

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

WAYNE HEINEN - "The Pikes Peak DXer" - 427 East Caramillo Street - Colorado Springs, Col. 80907
 Hi all, it kind of goes like this. Sitting around last weekend with a cold I had nothing to do. So I got out my trusty carbon of many unanswered reports and sent out 35 f/ups, many with PP/c's. Now for the big news, about 31 verifications are back! PF/c- KOOL-960, KENO-1590, KSEI-930, KQXI-1550, KDJW-1010, KFSM-1380, KAYK-960, KUAD-1170, KETA-1340, KVOU-1400, KWDR-1340, KNOE-540, KFRM-550, KCMJ-1010, KVRM-1330, KVSF-1260, KNWZ-1150, KUFF-1150, KIIY-1260, KAMO-1390, KWKY-1150, WKJL-1550, KPAG-1400. V/q- KONO-860, KLOU-1580, KFAL-1100. V/l- KERE-710, KRAT-550, KIV-1400. V/t- WTAW-1150-FEST, KSM-1150. Other DX of note: 4/3- KUPD-1060 on AN w/rr using "Cupid" radio slogan. KLOU-1580 w/rr atop from 3:32 am. KFAL-1100 L&C alone w/religious gospel show, 3:52-3:02am. 4/16- KRAT-550 rarely heard reported 9:35-10pm. MM 4/17- r/c KSD-1340 ending @ 2:27am. WYK-1380 on ET/OC/T 1:15 & on. 4/21- KCRC-1390 w/rr @ 10:30pm. KARN-920 w/Travelers BB @ 11pm. If I sell lots of stuff I might see you all in ATLANTA. 73s.

JOHN CLEMMER - 2937 West Gilbert - Peoria, Illinois - 61604
 WMBD-1470 is now on AN. I am unsure if they are NSF. WMBD did s/off at 2:06. Peoria is still an excellent DX site as there are only three stations on 24 hours within 50 miles that present any problem to DXing. My trip over Spring break to Gulf Shores, Ala. was great. I met DXers Chris Baskind & Robert Forsman at Chris' house in Passagoula, Miss. I'd hate to DX down there with all the Mexican & Cuban stations. I much prefer to DX domestics anyway. It will be interesting to see what catches everyone makes as we slowly approach the 22 year high peak in the sunspot cycle. WLIQ-1360, Mobile, Ala. IDs as "136-Q" WUNI-1410 IDs sometimes as "Wuni" which is said as one word. WUNI's IR is located on Battleship Parkway, U.S. Route 98 + 90 and has two towers. The towers are almost in Mobile Bay. I'm sure this was done intentionally to increase the station's signal, since the ground conductivity is poor down there. I really like all the country music they play Down South. A very large number of stations play c/w. WMBD-1470 was off the air on 4/27 from 8:23pm until at least 9:05, & back on at 9:25. This was during RS. KARE-1470, Atchison, Kan. was heard with Kansas City BB game ads. Otherwise big jumble. WENS-1460 was heard w/ad, L-40 mx. KSO-1460 Des Moines, strang w/Merle Haggard song, ads. All these were heard due to WMBD being off. I will be at WFFDA Convention in Louisville, and hope to make ATLANTA, but I have school at Bradley on Labor Day, so I will have to see. Good DXing, and 73s.

BRUCE SHERMAN - 117 Hart Avenue - Winnipeg, Manitoba - R2L 0M4 5/2/78
 Some April DX rolled in, so I guess I'll muse. 4/16- KKB-1360 Bendji, Minn. in good, must have just gone on the air recently w/T-40, 2:30am. 4/18- CJDV-910 Drumheller, Alta. c/w, also mentioned KEBR-1340, who relays them, 2:30am. Then, a bit after 2:30, I noticed local KCRC-630 was off the air on one of their very infrequent Tuesday morning SPs. Last time I caught them off was 1973. KOK-630 St. Louis was taped first, @ 2:45. Then came CHED-630, Edmonton w/a good signal, also taped, @ 2:50. Fifteen minutes later, KHOW-630 Denver w/female doing NX & WI. Unn CKCE-620 was nulled w/TRF, & WINJ Milwaukee was in null w/MoR & femme announcer, 3:40am. I also taped unn KFI-640 and was surprised to hear rock music there. I logged five stations in one hour & ten minutes, which shows that at least 50% of DXing is being in the right place at the right time. I won't be needing the AL-4 loop I asked about in DX-Change, as I was able to get a new one from Kitchener, Ont. Has anyone tried the McKay-Dymek DX-100 antenna, and is it really as good as a 100' LW, like they claim? Considering how expensive their gear is, it would be a real shame if it didn't perform up to the level of their ravings. That's all for now. 73.

PETE CLARIUS - 1583 Castleton Avenue - Staten Island, New York - 10302
 In one of the bulletins somebody asked if those towers which can be seen from the West Shore Expressway were WPOW. Yes they are, but I am sorry to say they are a poor excuse for a radio station. Their main studio is about the size of an extra large closet as when I visited them it was just myself and the announcer & we were in each other's way. When it was WBER they had a very large & spacious studio which included an organ, grand piano as well as turntables. However that is now used for the office & the staff which consists of a CE, PD, & typist. They have a sales office on East 40th Street, Manhattan. All their programs except the NX are on tape. In case anybody is interested, here is their sked: Sunday: 3-11am & 3-9pm. Saturday- 3-8:30am. Mon-Fri.: - 3-8:30am & 5-8pm. Their Staten Island address is 1111 Woodrow Road, 10312. Since my last muse I have logged the following: WIMA WFTQ WIFM WNEB WCIL WDJZ CKCB WGL CFMB WKIE WYRD & WITS. When did WAMS change to WARS, as on Page 10 of the May 15th bulletin? Upon writing to RICK NEWMAN at KRAM I was pleased to know that he is an ex-Staten Islander and since, we have become pen pals.

OUR NEXT MUSINGS DEADLINE WILL BE SATURDAY, JULY 1. WE USUALLY MAIL OUR COPY OUT ON TUESDAY BUT THAT TUESDAY IS THE FOURTH OF JULY SO WE HAVE TO MAIL ON MONDAY, 7/3. PLEASE DOUBLE SPACE!

ELLIOT R. STRAUS - 27 Devon Drive - West Orange, New Jersey - 07052

Hi gang, it's been a while, so here's some changes. The above address will be effective 6/20/78. It's my parents' house, where I logged my first 500 stations in '64-'66. Who says you can never go back? Actually, my folks live in Florida and the house was empty, so ... I took it. It should be a lot quieter than the present spot and will afford space for a few LW's or mini-beverages. I am having member STEVE BOHAC do a tune-up on the old R-390A and will be adding a Hewlett-Packard 54B frequency measuring unit for the upcoming season. Hopefully this upcoming season will be better for TA's than the past. A few veries of late from: WIRV-1550, KIOA-940 from 13 months before, that's about it for the last month verie-wise. Totals to: 1,347/576. KNIX-TEST-1580 was beautiful here for state #44. Thanks, Jerry! I anxiously await that Arizona verie. Recent DX: MM 5/8- WJSE-1560 Inverness, Fla. ETing 1:30-2am. MM 5/1- WNEH-1340, Mass. heard through muck. The season has died so I can turn to my summertime passion, the Cleveland Indians. Are there any other Tribe or Pete Franklin fans out there? (What position does HE paly, Elliot, hi -ERC) Oh well, down with the Yankees, and 73's.

DOUG ALLEN - Apt. 64 - 15 Lafayette Street - Schenectady, New York - 12305

My DXing season terminated in early March when I logged station #500. This gave me 500 stations in 34 states and 30 countries during my first year of BCB DXing, an achievement I wouldn't have thought possible a year ago! State #34 was a WORV i/c in January and country #30 was R. St. Vincent on Feb. 4. My advice to other newcomers is that if I can do it from a city apartment, then so can you! Undoubtedly the HQ-180A I used the second half of the season helped a lot on splits, but I'm certain that over 90% of the stations I logged would have been logged on much less sophisticated equipment. Because of power line noise in the apartment I found the 20 meter coax fed dipole antenna to usually outperform the SM-2 or 60' end fed wire. Because the dipole was coax fed it did not pick up the line noise that the other two antennas did. Others with power line noise and TV birdies could use a coax fed antenna effectively also. I'm considering purchasing the RAK "Listener 7" active antenna for next season's DXing. Can anyone advise me as to its suitability? If it's indeed the equivalent of a 100' LW I'll not only further cut my line noise, but also have a better antenna than this past year! Two other new products that someone ought to review before next season rolls around are the Palomar Engineers Loop Antenna and the Drake TR-7 transcend which has reception capability from 0.30 MHz. BCB DXing is incompatible with serious training and competing in road races and marathons. March and April were devoted to the latter, but I did manage to acquire an old power transformer made by GE in 1902. The 2,000' of 12-gauge copper wire therefrom were erected at a friend's farm on April 23, and for one week I had a beverage antenna which I will report on next Muse. 73 to all.

PAUL MOUNT - 471 Emerson Avenue - Teaneck, New Jersey - 07666

201 - 836 - 1137

Since vacation in March I've done almost no DXing due to a lot of work at school. The radio has been WGOR and that's not DX for me. As of May 10 I cannot accept mail at 507B Carman Hall, Columbia Univ., NYC 10027. Please do not call and ask why! (Why? ERC). Seems like sometimes you miss a station & then it's there whenever you try. CHIC-790 was not heard until this season and now they're an early morning pest. But I think they had a power increase. But WMBD-1470 Peoria has been heard two Friday AMs in a row & never before. I asked in DX NEWS for an address for KRKN-1530 but got no response. I tried to call them but the operator had no listing. So, about 2am, I called one of the FMs in Cheyenne, and got a guy who had answers for me. Seems KRKN went out of business at least six months ago (more, actually) so that's why the P.O. never heard of them either. Which is too bad, since Wyoming isn't heard all that easily, & I need the state verified. Seems like the letters I send out come back either: a) in a week; b) in three months; or c) never verify. WMCA-570 was noted off MM 3/27 @ 1:32 & MM 4/3 3:35, but I was in NYC trying to sleep so nothing was tried. That will become a RS SP I hope, since WMCA (and WNEW) almost never go off. I think if I had something with great nulls like a good loop I could often get WKBN w/WMCA on, in Teaneck. Once when WMCA was off a c/w station was noted but too fadey for an ID. After all, if JOHN KROMKA can get KIRO.... I was shocked to see I won that Christmas time contest. I did one regular daytime bandscan, one at night, & one MM, & that little won. I did no SSS, no SRS, no long mornings of DXing, despite time off from school, so with such a paltry total came the surprise. Pattern book, please. I have heard rumors from Bill himself of an NRC GTG come the end of May in NYC. I hope so. Also thanks, LPC, for the new award; wonder who'll win it next year? On Wed. 4/12, a blue sky 600 day I went up the 20 floors & 133 steps to Riverside Church's observation tower. I took a camera to photograph Columbia, & also took a TRF. From the NE side I heard my most wanted daytime catch, WGNB-550. I've tried many places in NYC & northern NJ to hear them, & finally got it. I've heard WJNG at night from NJ. Time was about 2pm. 810 was empty, somehow. WPRO was noted doing well, but I get them on Carman roof (14 stories) also, though not in the room (five stories). Not much else I remember. Then, I went to the WSW side of the tower. Now, WILM, Bloomsburg, Pa. was coming in on 550 & no WGNB. The big surprise was on 1310. I didn't get WJLK, Asbury Park; I didn't get WJIP Mount Kisco. No, it wasn't KGMT in Fairbury Neb. either, but I was happy to get a very good signal from WQTK, the station that is directional, primarily W. I never heard them in the room at Columbia, nor on the roof, & their signal was much better than it ever is in Teaneck. Maybe I was getting skywave up there? Just a wild hypothesis, hi, about 275' above ground, maybe 350 a-bove the river. I went back to the NE side, WGNB came back, WQTK still was audible. The tower isn't open past 3 so no night DX is possible. I didn't try FM, considering WRVR's tower, though not visible, was about 50' away! Between the circular observation walkway is a lot of steel beams so that had something to do with the reception. 73.

KELLY ANDREWS - 7016 Montauk Drive - Richmond, Virginia - 23225

DX has been pretty slow around here for the last six weeks. The only new loggings have been a few N.C. stations at SSS. However there has been some unusual progress related to DXing. First came the logging on 4/3 of WEGG-710 at the 6:45pm s/off with gospel mx and slogan "We're Everywhere Glorifying God." A report was sent, and, lo and behold, about three weeks later, just after midnight I get a phone call from Jeff Wilson of Raleigh, owner of WEGG and WZOO, Asheboro. Jeff was very pleased to be heard through WOR and spent 45 minutes talking DX. He indicated a great deal of interest in the NRC & in properly acknowledging reports. I have supplied him with the necessary details and Jeff has indicated all reports to his stations would be answered. Reports should go to him or Jim Blanchard, CE, at WEGG and Bobby J. Watkins, GM at WZOO. Does verification by phone count? Hi, hi. Also, acting on a request from ERNIE WESOLOWSKI, I visited WRNL to check on a report he sent. I had the chance to meet Jim Grainger who doubles as CE at WRNL and the infamous WGOE. Jim is a former DXer & wants to verify reports when he has the time so I've printed QSL cards for both stations. While those were at the printer's, Jim answered by letter all the outstanding reports at WGOE, but has not received any at WRNL for some time. Anyone who has unanswered reports or future loggings of either station should address reports to Jim's attention. Also assuming both he & I are in Richmond come next DX season, we'll arrange DX TESTS. 73s.

HILL COLEMAN Jr. - 114 Circle Drive - Rocky Mount, North Carolina - 27801

919-443-7282

DX here on 5/1: 1:05, WFAT, NYC pirate, approximately 1620k, "doing their thing" & w/a bad heterodyne against a beacon. They should try 1610k; they'd get out better. Maybe the FCC should open up a new band for community radio sort of thing with non-commercial for hobbyists, etc., say between 1610-1650k with 50-100w, & requiring operators to have third class licenses. 1:16 I heard WASA-1330 Md. w/test ID, & talked with Al Lerner, CE who says maybe he can conduct DX TEST for the Club - do we have any form letters for testers someone could send me? I'd try and arrange the TEST. 2:30, WFAT pirate still at it; 2:33 WTTI Ga. on w/ET & mx, as most every MM. 2:38, WKBA-1550 Va. on giving out station's address for reports. 3/16, WWNS-1240 Ga. on w/coded IDs, along w/VIDs, WROV Va. is usually dominant on 1240 here, but WWNS was on top. The FCC should pay MORE attention to the ones who don't ID themselves on the hour during tests, for example, I listened to a 50kw daytime on 1080k (WKEP, Pa) for three solid hours & 45 minutes one MM, & not a legal ID till around 5:45am, when they signed off! These are the ones they should get after if anybody. DX on 5/8: 12:15am, WPTF-680 s/off for ETs; 1:35 WNL-870 off RS w/TTs, 2am, ID from WRMF-1060 testing, noted pest Cuban back on 590, strong as ever, & A newer Cuban on 930 with usual NX/TX format, some program as on 1560, etc. I thought we got rid of the pest on 590! 2:05, test ID from KOMA-1520 Okla. on top of pest WKEW. 2:39, test IDs from WCLE-1570, Cleveland, Tenn., & WMOO-1550 50kw daytime on w/ET/mx around 5:15am. I sold the HQ-180A, I'm now looking around for something new. I'm using a Panasonic RF2200, and Realistic TRF for now, along with the Hammarlund Super-Pro. I'm still looking for a ride to and from the ATLANTA Convention. I'd be glad to share gas expense, etc. if anyone wants to have a car pool. Let me know soonest. I'm still exchanging airchecks on cassettes, correspondence and prepaid phone calls are still most welcome from anyone, anywhere. 73's.

GEORGE A. SANTULLI - 2100 Westchester Drive #1 - Memphis, Tennessee - 38134

I have vowed not to let the Summer static or nice WX dull my DXing & so far I am the winner. Some good semi-local DX noted recently. I guess long-range reception is all but gone for this year. Coming home from work the other night I fiddled with the car radio & picked up some stations I had not heard indoors such as 5/5- WMAZ-940 Ga. 11:15pm w/ super signal, WHE-710 11:55 w/no sign of local WMPs, WQDA-1370 Fla. 12:17am battling with WSPD, KCMW-1380 Kan. 12:21, good signal with religious mx & finally KYFR-920Ea. @ 12:40. I had an idea it was KPNF in Shenendoh, Ia. Announcer gave phone numbers for listeners in Iowa, Mo., & Neb. & Kan! to call this number. Suspecting KPNF I called Information for Shenendoh and the number they gave matched a KYFR. Must be new call? (Verily - ERC) Other new May stuff shows: 5/2- KRGI-1430 Neb. @ 12:50am with surprisingly good signal. I thought it was the usual KEI Okla. but it wasn't. Later that day I was on 850 @ 10:45pm & heard an ID from WRUF-850 Fla. Ironically it was the day they had a bad tornado down there - I wonder if they were using a different pattern for emergency? Anyone know? The tape recorder gives a nice ID. Usually I hear KOA-850 Col. or WYDE-850 Ala. there. WRTH-590 Ill. gave good copy @ 10:45pm, overrode Cuban. WKAM-1460 Ind. s/off 11:52, KWUL-1390 La. w/r 12:20am, KJLH-950 Mo. w/r 12:49, new state capital for me. WQEM-1440 Ill. 1:20 & WOC-1420 Ia. NX/WX 1:30. WITY-980 Ill. w/r/r @ 2:20 rounded but a very productive session. One unID on May 5 has me stumped. I heard a DT on 1600 @ 1:30. I'm assuming it is r/c of WQCK Ga. but where is WQCK? My log does not list any such station - help, please? (Warner Robins, ex-WRBN -ERC) I plan to use the Summer to get a good RX and antenna system. A possible job change will have me to either So. Calif. or ATLANTA. Time will tell. Good DX to all. 73's.

ANGEL M. GARCIA - 32 Hillside Road - Hackettstown, New Jersey - 07840

WA2VUI

I received my Novice ticket on 2/9, upgraded to general in April, and hope to upgrade to advanced in June. Since my interest has drifted towards chasing DX in the ham bands I'm going to part with my HQ180AC. It is in immaculate condition and was recently checked over by STEVE BOHAC. Price is \$350. My serious BCB DX career ends with veries from about 55 countries and 11 provinces (PEI heard but never reported). Best QSLs include PZL-914, R. Anguilla, R. Bristol-1546, Odessa, Ukraine-548, Sierra Leone-1205, Finland-962, CFBB-1200 and HCUB-700. Telephone number is 201-852-4639, after 8pm please. 73s & good DX. (Sorry to lose you to the hams, Angel - mark my words - you'll be back! -ERC)

RON B. SCHILLER - 7657 La Bolsa - Dallas, Texas - 75248

No, I'm not the CE of WAMS, as listed a few weeks back for their sked TSTT! Not even related, hi! Veries at 2,166 adding these: ZLZ-555 v/q after five tries and most welcome; WRR-1310 v/l and now they're KAMM, reducing to 26 the number of West-of-the-Mississippi "M" stations (I need seven to complete it). WATV-900 friendly v/l; XEBX-610 v/l in SS; WOC-1420 v/l & v/q; KTRM-990 v/l; KAMO-1390 v/PP/c; KNOK-970 v/PP/c, Texas #156; KFVR-550 v/q N.D. #5; KSPJ-1260 PP/c; WJYM-730 v/l from Ohion #62. KIXS-1050 PP/c, oddly they're sister station to DX-er-friendly KMM-910; KWBC-1550 PP/c; KULP-1390 PP/c; later folo by a lengthy v/l; XEBU-620 v/l-EE after four SS reports, giving list of Chihuahua stations which I sent to Chuck & asking for info on RKes! WESC-660 sent a v/f long after a PP/c had arrived! Heard: 2/19- WATV-900 Sun. s/on @ 7, atop till 7:11 o/XEW. 2/23, unn WINZ-940 booming in @ 7, XEABC-760 excellent 9:20-9:30pm. 3/13- XEOR-1600 Brownsville u/KOGT/KATZ/XEAE 8:54-9pm. 3/18- TGW-640 8:20-10:05pm, off & on, pretty good overall. 3/24- Seemingly XEYP, the 1520 XE in/out w/KOMA circa 7-7:20am. 3/27, I reported oft-heard XEJ-940 & XEJR-1030 8-9pm, neither replying as yet! 4/7, needed KTJS & KXOW-1420 s/on @ 7, neither enuff to report though. 5/4, KKWJ-1550 whispering through KOKA & Co. 9:23pm. KQXI-1550 Arvada, Colo. good enough to tape (note ERC) 9:55-10pm s/off, & XEACH-1590 smothering KYOK 10:22-10:41 that evening. Long-wanted KPOS-1370 s/on 6:59 on 5/16. I enjoyed phone chats with BRUCE WINKELMAN, STEVE PONDER, CHARLES GEORGE & ARTIE EBLEY & a visit from KELLY ANDREWS. Wonder why in a HOBBY club a guy doesn't want his receiver review reproduced without permission? Also, I don't give a hoot what DJ is at what station; that's DXing? 73.

CONRAD R. DUROCHER - 4500 Spencer Highway - Pasadena, Texas - 77504 713-941-7990

Greetings! And, yes, I'm alive and well and living in Texas. I made the move from Mass. in January and am now residing in Pasadena (a suburb of Houston). I'm travelling with the Mickey Galley Show (he gets lotsa airplay on nationwide c/w stations). Besides playing guitar with the group, my other job (because of DX experience) is taking the TRF on the road and monitoring our airplay across the country. So rather than dig for DX, I've found myself a regular listener of WSM, WBT, WML, WEAP, etc. The bus we travel on has a 110 volt power plant so I'm looking for a permanent RX to install and I'm planning to erect some sort of LW along the top. I'm still keeping up with the hobby via the bulletin and enjoy the Musings of fellow Texas DXers to see what I'm missing. I have one question to submit to the new Q&A column or whomever can answer: What method does a beverage party use to erect the temporary antenna so quickly? I did get to do some DXing in Texas in January, and will report what was heard next Musing. See you later, y'all. (Congrats, Conrad! -ERC)

DALLAS S. LANKFORD - 1524 Don - Tyler, Texas - 75701

I'm not much of a "Muser" but here goes. Why is a 35-year-old, single, 6'1", 165 lbs. research associate w/Ph. D. in math, who is going on a leave of absence from USC/Information Sciences Institute to the Automatic Theorem Proving Project at University of Texas at Austin a BCB DXer? Not clear! But my interest in the hobby goes back to the mid-50's when I began by attempting to log all MW stations in Texas. Subsequently, my interest in the BCB scene expanded, and now I listen occasionally for foreign stations (research demands most of my time) on an HQ180A fed by the loop & RF amp of a Realistic TRF (anyone interested can write me for details). I played the verie game a little in the '63-'64 season, & got up to 16 countries before I lost interest. I just don't feel the need to prove to anyone what I've heard. Over the years, listening from Texas, California, Europe, & India, although I have not kept accurate records, I am sure I have logged over 80 countries on the BCB. I count my best verie as the 50-watt Ramey AFB AFRTS (Puerto Rico) catch one MM on 780 while waiting for DU's asmy best. I'm looking forward to using a beverage on my farm in East Texas next Fall. Y'all come. (Welcome to Musings & NRC, Dallas - that's a great first name for a Texan! We hope you'll double-space us many a Muse! -ERC)

CHARLES GEORGE - 6407 Howard - Dallas, Texas - 75227

My latest veries to arrive are from: WJBO, KEYS, KMOO, & KWTX. I recently installed a switch so that I can change antennas without any hassle of losing DX time. GENE RUST gave me an Ameco PCL-P pre-amp to use on SWL however, I have found it works well even on MW. I have found out that my not-so-long wire (30') pulls in some of the frequencies better than the SM-2. I now have a job assembling paint rollers so I have less time to DX now. 73s.

BRENT TAYLOR - Box 57 - Doaktown, New Brunswick - EOC 1G0

Hi all. I haven't Mused for ages so I guess a re-intro is in order. I became a member of the NRC in late 1975. I'm 18 years old and in my last year of high school. I have been doing little DXing on the MW due to school, SW DXing, and, of course, chasing the girls, hi. As far as I know I am the only member in the Atlantic region of Canada and I would very much like to see more of a showing from this part of the country, even in any of the other DX-disciplines besides MW. I must not take up any more valuable space. It's too bad I can't report my 60 meter DX in the NRC. Must go now - 73 & good DX.

TOM FARMERIE - 62 Sunrise Avenue - Grafton, Massachusetts - 01519 5/15/78

Re my Musing, Vol. 45, #26, Page 42, LA was on 1600, not 2600. It was logged over domestic QRM, or rather under. Why they ever chose 1600 I don't know, but both HANK HOLBROOK & I QSLed it at 1600. (That was my typewriter's error, Tom - stupid machine! -ERC)

STAN MORSS - Route 3 - Braiford, Massa chusetts - 01830

WEZE-1260 off 5:30am SM 4/30 - CIHI in, WDC QRM for a new report - no answer on last report & March f/up. Maybe WEZE's new owners have a silent period? V/r from WSMJ-1560.

BILL WURTZEL - 32 West 31st Street - New York, New York - 10001 212-594-8332

Here is a story of my Winter D-axicent:

1 Today in an accident I wrecked my car but the radio still picks up Albany's WPTR Before that I was stuck in a traffic jam Listening to Rochester's clear channel WHAM. 2 The weather report predicted heavy snow a blizzard knocked off the air WKEW Buffalo I stopped on the highway at a Disco bar People were dancing to music from New York's WQXR. 3 The snow was piled high like an iceberg We listened to a hockey game from KDKA Pittsburgh There is nothing like being stuck in a blizzard Suddenly I DXed WKIC from Hazard. 4 The car was completely covered with ice The radio worked pulling in Providence's WICE They said snow was covering all of New England So I switched over to the FM band. 5 I didn't even hear one radio station I was in an area of little population I then dialed back to medium wave When a tow truck operator named Dave - 6 Told me he was ready to tow And in came WHO from Toledo He brought the car to his gas station Told me he has DXed the entire nation. 7 The roads are blocked, there is nowhere to go Stay here tonight and DX on your radio.

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

It was announced in 1941 that KEX would seek higher power (50,000w) but the war emergencies of the time slowed that development; power remained at the 5,000w level. A studio fire at the combined KEX-KGW studio in the Oregonian Building, 537 S.W. Sixth Avenue, occurred in September 1943. Newly remodeled and reequipped studios were the result. Due to the FCC's recently enacted Duopoly ruling, KEX was sold by the Oregonian Publishing Company on 11/28/44 (electing to retain its KGW). Acquiring KEX for \$400,000 was Westinghouse Radio Station, Inc. who also got caught in the Duopoly ruling, as WGL was sold at the same time; Westinghouse had owned both WWO and WGL at Fort Wayne, Indiana. The sale was announced 5/19/44 and approved by the FCC November 28th. After the sale, the studios of KEX were moved temporarily to 1011 S.W. Sixth Street. In 1945, studios were relocated to 815 West Yamhill. A CP was granted by the FCC in 1946 for 50,000 watts. Earlier, in 1944, a new site had been purchased for a proposed move of transmitting facilities. The KEX studios were moved to 1230 S.W. Main St. on 11/24/46. In late 1947, KEX raised power from 5,000w to the maximum allowable 50,000w, from a new site. A 46 acre plot near the Southern Pacific right-of-way South of Portland was acquired in 1944 and placed into service in late 1947. Three new 450' towers were erected at the new site, enabling KEX to switch to fulltime directional operation with the higher power. In 1959, KEX's studios were moved from 1230 S.W. Main Street to new quarters at 2138 W. Fifth Avenue.

RANDY TOMER - Box 2674 - McKinleyville, California - 95521

We need more Westerners in this column. Next time you're in a writing mood, drop Ernie a report - it's fun to stick your foot in your mouth, er, Muse, hi. Domestic DX has been at a virtual standstill the last three months, the skip just hasn't been there. Amateur TP's have been poor ever since a fair opening in February, so for inland DXers that haven't been hearing any, it's because the strongest of JJ's have been making it, but little else. The Spring DU season was pretty nice this year, and other low latitude TP's were also good through late April. All through March & April the Aussies and Zedders would fade in nicely around their LSS. Poor domestic CX were helpful in this. A slight disappointment this season was my inability to get solid loggings of WVUV-1120, American Samoa, and of New Caledonia on 670, or even 200-670. One of these days, they'll make it. The most frequently heard Caribbean station here is Surinam-725; R. Jumbo-545 used to be the easiest, before their demise. Another disappointment is the scarcity of good Central American reception here; I haven't even heard Titania-825 in this area for TWO YEARS now! The recent Beverage articles were great. To all prospective builders: DO NOT worry excessively about ground conductivity, wire type, etc. etc. If you have the space available, just string out all the wire you can in a straight line. Believe me, you won't be sorry you did! A poor Beverage is certainly better than no Beverage at all. I know, because I broke all the "rules" with mine, but it still works better than anything else I've tried. A Beverage near the ocean could give excellent results - what could possibly have a lower ground conductivity than dry dune sand? I've had a Panasonic RF-2200 for a couple of months now. It's not in the same league as a true communications rig, but it sure is an armchair DXer's delight! I like it. 73's.

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

Here is my first contribution to the Musing column. An intro is in order. I'm 47, happily single, and live with my 75-year-old stepmother on the top (ninth) floor of a mid-rise apartment building in upper NW D.C. & work in a DX-buster (eight story pile of concrete & steel) called the World Weather Building, 12 1/2 miles/20km SE of my home. The office building is in Southern Prince George County near Andrews AFB, Md., in close proximity to notorious SB splash champion WPGC-1580. I work as a computer programmer in the National Weather Service. My late brother (he kicked the bucket in 1968 at age 42) got me on the DX trail. His best catch was in 1941 on an AC-DC-battery portable Philco with KATO-1340 (now KBET), Reno, heard in D.C. (This would qualify for the GY championship). Actually I started spinning the dials on my uncle's Zenith split-second console RX at his Arlington, Va. pad, then on a table model Crosley set. My DX gear was the RCA-Victor five-tube table model set that my brother gave me for Christmas in 1941 (I was 10 then), then a Zenith Royal 500 transistor set (oon'd.)

(Townsend, con'd) in 1956-59 (over 350 catches on that jewel including two WC catches such as KNX-1070 & KFI-640.) KILY-920 was heard on a Hallicrafters S-38B. My current DX gear is the Realistic DX-160 and Realistic TRF. My farthest catch of any kind was KOMA-1520 heard in Apia, Samoa, 6,000 miles away on a pocket transistor set with a coconut palm tree trunk serving as an antenna. Besides DXing my main hobbies are travel (all 50 states and 12 provinces, 50 countries, all continents except Antarctica, which I'll take care of in early 1980) and license-plate watching, especially low-numbered VIP tags and personalized tags, not only in the DC-MD-VA area but continent-wide. After you've been DXing for a while, you discover that every channel has its pest that can be counted on being heard. Several NSP pests in the DC area are WMAJ-630, WCAO-600, WRC-980 & WWDC-1260, and now WOL-1450 joins the list. Some sloppers (notorious for SB splash) are WWDC-1260, WUST-1120, WEAM-1390 & WPGC-1580, rock stations. WPGC-1580 is a problem only around SRS or SSS when DXing. At work it dominates the high end of the band and even 1520 has some SB splash which hinders DXing there. The Bible-Thumpers such as WEMD-750, WABS-780, WCTN-950, WANN-1190, and WFAX-1220 behave themselves and DXing on adjacent channels is quite productive. I may be pushing or exceeding the limit so I'd better shut down. 73's. (Welcome to the NRC, Bill, and we hope you'll "open up" again real soon - and often! -ERC)

STEVE KENNEDY - Box 132 - Immokalee, Florida - 33934

Howdy y'all from Immokalee's only DXer. Sorry I didn't make the Solid South issue of Musings a few weeks ago - better late than never, hi. CX down here have been pretty bad, and by the time this reaches DX NEWS - that ole bugaboo of DXing will be here again - Summer static. I am no longer interested in domestic DX since I don't have a loop, & generally I have heard most of the domestics which I can hear down in these parts. I still look for a tester now and then, but I mostly concentrate on foreign DX. Totals now stand at 620 heard & 320 QSLs. Overall though, I spend most of my DX time on SW, as I am busy taping IDs & ISes of most of the major SW stations. I have over 200 stations taped, all clearly broadcast quality recordings. Also, I am trying to get more IDs taped from MW stations. Does anyone have a tape of R. Americas, ex-R. Swan-1165 on Swan Island? This station was on the air in the 60's & I have an old QSL from them. I would appreciate borrowing a clear air check of R. Americas - at least five or ten minutes worth & a complete ID, or maybe a copy on a reel of tape. I will pay postage and cost for the tape. Please write, I need this for my collection. I use reel-to-reel tape at 7 1/2 ips exclusively, & so far I have over 15 reels of some pretty neat stuff to listen to. I may come to NRC-ATLANTA this year - I can't make any definite plans, but if I come I will bring my DX tapes & QSLs. During the Summer I will probably get around to building that loop I wanted to make a long time ago. I note that BILL and NANCY HARDY are planning to get an FRG-7. I wonder if they want to sell the HE-30??? If so, they have a buyer - ME! I want one of these good ole sets. I can't afford an FRG-7, but maybe some day when things are right - I may get one. Or if I can scrape up \$400 maybe a Collins R-388. But for now I would be content with an HE-30 or maybe an HQ-129. I have been corresponding with Bob LaFore of Homestead, & I hope he will join NRC. Several weeks ago I compiled a file index listing every known MW/SW DXer in Florida, & I have a total of 35 so far. I have had to go through Frendx, Speedx, Review of International Broadcasting, Communications World, & DX NEWS to get names & addresses, club affiliation, receiver(s) used, and other data. I hope to use this info to make up a mailing list for a possible future news letter I would like to publish for Fla. DXers. If there is an interest in this let me know. It will cost probably \$6 per year for a two-page bimonthly letter. More on this later. Any ideas, or suggestions, let me know. My printer lives next door, & he & I do a lot of swapping of news items since he runs the local paper, & I run the radio station. How 'bout that? Well, if anyone has the tape or a decent recording of R. Americas or any other ideas, please write. I will answer any correspondence. 30.

BILL WURTZEL - 32 West 31 Street - New York, New York - 10001 212-594-8332 - Call me!
I have been busy putting my loft in order, unpacking, etc. The Sony ICF-8000 was finally repaired at a cost of \$20. Half the price I paid for it. A few questions: Does anyone know what happened to the CP for WLOL, Akron, O. to get 10kw? That was over two years ago. Have any of the new 50kw Canadians begun using higher power? Examples: CHML Hamilton, CKOC Hamilton, CBJ Chicoutimi, CKCH Hull, & CBV Que. Great news on 1560, WAGL, Lancaster, S. C. got a CP for 50 kw. I feel that KPMC Bakersfield Cal. should also be allowed 50kw. Some channels have six to eight powerful stations, some of them daytimers only. There was talk about the possibility of 100kw for stations in the mountainous areas to better serve the hinterlands. Whatever happened to it? Many outlying areas cannot get decent reception at night from 50kw clear channels. When Europeans are using over 1,000kw, 100kw is not asking for much. Come on FCC! Recent DX includes 3/6 2:20am someone testing a XR on 1200k with a strong TT. WCBC-1270 Cumberland, Md. w/11pm NX 3/7. Glen Miller type mx on 1440 battling WFTQ Worcester, which faded out. 3/7 WOKO-1460 Albany N.Y. w/a tele-talk show. 4/2 WGET-1320 Gettysburg Pa. s/off @ 12:03am, announcing FM channel 299 with 10kw. I have written a few more songs & a lot of poems, typing them up, & reading them at poetry readings in the city. After Labor Day I will try marketing my writings & getting poems published. When I told my mother in N.J. I am a late bloomer, she said, "You almost didn't bloom at all!" I have added quite a few more record albums including some Bob Dylan cuts. I tell many people about listening to distant radio stations and try to get them into the habit. I also demonstrate this at night with live DX. Many people are surprised to hear stations from a few hundred miles away. The sports fans are interested for their games. As ERC says, WNMW "We Need More Musings"! Here's a 73 from New York City. Visitors and record traders are also welcome!

MOTHBALL MEMORIES

CHAPTER LXXXIII - "THE EMERGENCE OF RUSS EDMUNDS" - by RUSS EDMUNDS! (who else??)
Although not really a "Mothball" memory yet, I thought I'd add a bit to the column about my first days as a DXer, even though I didn't know it then. That was in about 1954, when I had just received as a gift one of those "All-American 5's" built into an old-fashioned telephone cabinet. I sat right down and tried to list every station I could hear on it. I got a good many locals and semi-locals, plus some of the usual clears. As time went on, I discovered the "stations between the stations" and "under the stations". By 1960 I had really gotten into it, and met another local who was also a DXer. He introduced me to "Radio-TV Experimenter" and "White's Radio Log". Unfortunately, in later years, he never got serious enough about it to "go professional" as he put it, by joining a club. In March of 1963 I put the finishing touches on logging all the clears listed in White's, by logging KFI, KOA, and KSL all in the same morning. That month I also caught my first ET, from WFF-1570. These four were my first veries. KOA has never been logged since! Later, in 1963, I sent a letter to R.T.V.E. asking to hear from others in the hobby. I enjoyed a large response, including NRCers DAN PHILLIPS and PETE RIZZO (wonder where he went?) who convinced me to join the NRC. I did so, and promptly was welcomed by nearby RON SCHILLER, who introduced me to Hammarunds and TA's. At this point I was really hooked. Several other of my correspondents from that letter later became members of NRC - JIM SMILEY, RICK MARR, JOE KURKTH, & the only one who has been here ever since, BRUCE REYNOLDS. Shortly afterwards, I got my first Hammarlund, an HQ-100 which I dated until 1969, when the 150 was purchased. Enjoyable were the get-togethers at Brooklyn, and at SCHILLER's Monmouth Beach home. Of course, I guess none of these were my biggest thrills in the hobby - that came later. #1 - In October '69 my first TA - and a good one at that - Spain-827; #2 in January '72, hearing a solitary 500 watt BEC IR on 1484; & #3, in March of 1971, hearing my first (and only definite) transpolar DX - China-1525. 73s.
BOB SMILEY IS NEXT - NEXT ISSUE - AND HE TOO TELLS US HOW HE GOT STARTED IN DXING.

HANK WILKINSON - 5028 Madden Lane - Santa Rosa, California - 95405

I still tune the dials several mornings a week but I don't have too much to report in the way of results. I have received nine veries so far this season from 20 foreign reception reports. The last three received were from: R. St. Vincent-705; 4QS-750, & "R. Nouveau Monde"-895. I don't know of anyone who has this one to date. For those who are interested here is v/s: Edner-Jude Jean Louis, Directeur ET de Programmation CF/sc. Address is the same as in the WRTH. V/L states that "R.N.M." transmits on 895k with 5kw, but will go to 10kw on 6/20/78. I hope that this info may help others to get a varie. I will DX several mornings a week all during the Summer in the hopes of catching some new Ausxies and Zedders. I sure would like the opportunity to DX with a Beverage antenna pointed towards "Down Under" land. Also, one directed towards S & SE Asia. GENE ALLEN & I get together about once a month for a "Gabfest" etc. I was truly amazed at Gene's loggings of Ausxies & Zedders during the late 30's and early 40's. He also has a fine group of veries from these two countries; a super DXer for over 50 years. I spent some time with CE of a local radio station last week. His "big" gripe were the DXers (and other people) who report reception and desire verification letters and cards who live within 50-100 miles of Santa Rosa. This has soured him on all DXer reports - even the distant reports. Situations such as this indicate why we have so many non-verifying radio stations in the U.S.A. I would DEFINITELY like LARGER SIZE PRINT in Musings and IDED sections, even if it means less coverage of other items in DX NEWS. Please give this some serious consideration.

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

The month of May has proven to be my worst month for DX since I started DXing a couple of years ago. I came down with infectious hepatitis around May 1 and was admitted to the hospital on May 9 and was there until May 18. I have to recuperate by taking it easy and staying in bed. Even the Board of Health put a Quarantine notice on my door! I had a lot of free time for DX at home but very little was picked up. I finally decided to myself that I needed some kind of a BCB booster, and by sheer luck I picked up a copy of Elementary Electronics magazine and in it was the plans for one. It provides #2 db of gain and doesn't look too hard to build. Maybe I can dig up a little more DX with it. I'm already starting to prepare for the CPC TEST season next year by calling & writing to stations. I hope I can do as well or better than I did last season. I hope to attend the ATLANTA Convention. I heard from an ex-NRC member, ERIC HAVEMANN, that the Hartford Convention he attended was fantastic. Eric is the one who got me listening for testers, & I thank him because MANY good catches have been added to my log this way. I used to ignore testers because I thought it was boring and useless to sit and listen to an OC or TT for an hour, & when I did there were no IDs. (Murphy's Law.) Only new station logged in May was WTLB-1310 at SSS 5/18, 8:35pm. Short skip seems to be prevailing at SSS & I've about cleaned everything out within a 75-mile radius from my location. My goal of 1,500 by the end of the year looks dim, but I'm going to try. FM & TV skip are coming in so time will be spent pursuing these bands in the future. Total as of last count was 1,220. 73s & good DX to all, of what is left of it. (We hope you're feeling better and are up and around again by now, John! -ERC)

HARRY HELMS Jr. - vacationing in St. Petersburg Beach, Florida 5/20/78
Hello, it's GREAT here! Water temperature is 81°, clear & hot skies - Cuba all day on the BCB! Tune 5850k at midnight EDT Friday & Saturday nights for a new pirate, "Voice of the Voyager"! (Ha, the water temperature here is about minus zero, hi - ERC)

DAVE SCHMIDT - 42 Chelwynne Road - Castle Hills - New Castle, Delaware - 19720 5/19/78
 Did you hear about the guy who wanted to climb the ladder of success and become a famous DXer? He failed and dropped out after a year, but you should see him climb ladders! That's another Hefty Hooper forgot - hi! I guess that it's time for another report from this end, what little has been heard, to wit: 4/26- WASSR-1420 12:02-12:03am with one minute f/c-TT, tentative on this one. 5/5 thru 5/8 saw some good Auroral mornings, with the following reported: 5/5- WMY-1410 5:42-5:45am w/farm NX, then rr, no WPCP/KQV/WING. 5/6- WFLA-970 5:32-5:45am w/NX, then MoR, with no WNDJ/WNSW et al. 5/8- WROD-1340 12:08-12:22am w/rr & femme DJ, atop 1340 most of the AM, WWEB-1430 1:40-2:01am w/ET & schmalz mx, way atop. 5/19- WMYR-680 12:22-12:36am atop w/TT, very low VID @ 12:31, just about noticed. F/up to WEEP-1080 for my only Pa. holdout in years. Veries: v/q- WFLA-970. V/L- WMYR-1410 WMTX-940 (thanks, JACI). V/f- WUUX-1550, WAXC-1460, & WFLC-1530 wrote "verified" on the bottom of my report & returned it, initiated by LW. Total: 943. That should just about wrap things up for me for the season, I will hit the dials a few times over the Summer but probably not too much. I'd like to work on getting some results from f/ups mostly. As for the Convention, I doubt I'll be able to make it as I can't get the time off from work. But I might show my mug at one of the semi-local get-togethers this Summer. Till next time, have a good Summer & 73.

LARRY VAN HORN - Route 2 - Box 270 - Brighton, Tennessee - 901-476-3168
 Well, greetings to all from the land of the worst soccer team in the world. By the time you'll read this MADS Memorial Day '79 will be history. Complete report will follow in the next issue. Down to DX: Current totals run like this: 362/48 stations, 36/21 states, 14/2 countries, 3/0 provinces. Reports currently out to KNIX, KCMO, XEROK, WVOV, R. Belize, WAKE-TEST. QSLs in from WMC WTJS on f/up, WHAS, KNX, WELI, KPGA, KEIB, KYRQ, KDRS, WKBJ, VOA-Marathon, Fla. I will be sending out all my f/ups for the season this week so as to catch the 13¢ rate before 15¢ goes into effect. DX has been a little show these past few days due to Summer static but I managed to get on when we don't have any local T-Storms and snag a few new ones like: 4/24- 3:03am I caught .NIX-TEST on 1580 w/a decent signal on both the 160 & the TRF. 5/1- 6-6:08am, WPII-730 Pa. w/s/and, NX, WX, then religious mx. 5/8- From 1:44 to 1:46am brought XBLG-680, mx with "La Grande" IDs, mentions of Mexico and Mexican vocals, all u/WMPS. 5/9- WONG-1450 Ala. 2:07-2:09am w/WX forecast, then ID. 2:10-2:12am, WBNS-1460 Ohio w/local ads & ID. 5/15- Looking for the Bahamas on 1540 I found KPOL Los Angeles 2:26-2:27am w/talk discussion w/GM of KPOL. 2:29-2:31 on 1560, KCJJ Iowa City topped the channel w/ID, then SX NX, SID given. 5/20- XEDM-1580 1:41-1:43am w/La Grange de Sonora ID then local ads in fadeout of WLS. Last logging was with the new SM-2. I am very impressed with the SM-2 over the Dymek DA-5 as it seems that the amplification is a little higher and the nulls are deeper as well as the price being a little cheaper. To answer W. R. RITAIK's question about LW antennas, length is important here anywhere from 35 to 50 feet of wire will be basically non-directional as long as the antenna is the L-antenna. Above this the antenna will start being directional along the axis of the wire. To JEFF LOCKWOOD, the ultra-sensitive loop described in the Edmund Scientific Catalog is the DA-5 from Dymek McKay noted about AND note my comments as I don't think the DA-5 gives near the performance of my LW system and the SM-2 outperformed at one-third the price. Well, gotta run, 73s from Gayle and me - C U in 30.

STEPHEN H. PONDER - Box 22635 - Fort Worth, Texas - 76122 5/22/78
 Hello again from Cowtown! Summer school here has already begun (as of 5/22) and looks like I'll be taking only one course; maybe I can DX mornings & evenings more than I did last Spring. No DX to report since the Summer static has come; the season for me was not too good. Some Caribbean stations made their way to my antenna, but not as many as last year. Veries to report: v/l- KMAC-630, KRIO-910, KSXL-970, KEEB-1230, KOCA-1240, KEAN-1240, WREN-1250, WROA-1390. v/q- KOIL-1290, KWCO-1560. v/p- KF5B-1310. Take note - I received a very cordial letter from the 'Directeur de Programation' of 4VRN-895 in Haiti - they apparently want more foreign reports (from the U.S. & Canada). According to RON SCHILLER, Haiti is a relatively hard country to verify - if WLS is not a problem, try their s/on @ 4am, EST. In a trip to local KRKV-1540 & KPJZ-1270, I discovered that they are not too keen on handing out maps or veries, even with my log reports in their hands; KPJZ stated they will verify all reports, yet had not verified any of the four I had sent them from a previous location! H'mmm. I took a trip out toward Abilene (W of my location) - that's the farthest West I have been! I did not make Abilene, but I did make it to Mineral Wells, where I eyeballed KRC-1140's towers, but I could not find their XR building. Must have been hidden behind some cattle, hi. In passing through Weatherford, I could not find KZEE-1220's towers, but they must be similar to KRC's. Now that the USPO has decided to raise postage to 15¢, I do not know what I'll do - money is scarce around the Ponder household! Is it still NRC policy to include return postage with all requests? Oh yes - Jerry Weist of KOIL-1290 mentioned in his reply to me that all verification requests MUST supply return postage to be answered. I guess all the others get 'filed' in the round file, hi. I guess that's about it - so long from the city where 'the West begins (and civilization ends, hi).'

WE HAD HOPED TO BE ABLE TO BRING YOU THE NEW POSTAGE RATES FOR NOT ONLY DOMESTIC MAIL, BUT ALSO FOR OVERSEAS AIR MAIL, WHICH, OF COURSE, ARE ALSO GOING UP AGAIN. BUT, THE LOCAL PROVINCETOWN POST OFFICE DOES NOT KNOW WHAT THOSE RATES WILL BE, AS OF FRIDAY, MAY 26th! WE HAVE JUST RECENTLY HAD A BIG "BUST" IN THE POST OFFICE HERE IN WHICH SIX POSTAL EMPLOYEES WERE ARRESTED AND CHARGE WITH EMBEZZLEMENT, SO IF ANYONE HAS SENT ANYTHING TO YOUR EDITOR LIKE MONEY OR A CHECK AND HAVE NOT RECEIVED AN ACKNOWLEDGEMENT OF IT FROM ME, THEN PLEASE LET ME KNOW. SUPPOSEDLY, NO MAIL WAS TAKEN - ONLY POSTAL FUNDS ARE ALLEGED TO HAVE BEEN STOLEN. I'M WONDERING IF THERE IS A VERIE COLLECTOR AMONG THEM, HI!

JOHN ROUSE - 2703 Bartlett Lane - Bowie, Maryland - 20715
 Hello everyone. I haven't got to DX much lately, the noise level has been pretty high. I've got a pile of veries since I last Mused. WHLI, Hempstead, N.Y. (card), WJOW Towson, Md. (v/l, bumper sticker, religious program sked), WPTX Lexington Park, Md. v/l, & AM & FM bumper stickers, WXVA Charles Town, W. Va. (v/l, bumper sticker), WCTR Chestertown, Md. (letter), WRAR Tappahannock, Va. (v/l, bumper stickers, rate card, pen, note pad, etc.), what a verie!), WSPD Toledo, O. (card), WBRJ Marietta, O. (v/c), WPTR Albany, N.Y. (v/c), WELT Ocean City N.J. (v/l), WMBD Peoria, Ill. (v/l), WJWC Johnson City, Tenn. (v/l), WFTT Ocean City, Md. (v/l, five bumper stickers), 4VEC Cap Hatien, Haiti (card, program sked, religious messages), WVOB Bel Air, Md. (v/l), WKIK Leonardtown, Md. (v/l), WMAJ Washington (v/c). That must be the longest number of veries I've ever listed in one Musing. Loggings: 4/4- WBBB-920 Burlington, N.C. s/off @ 6:45pm. WBRJ-910 Marietta, O. @ 6:46 w/c/w mx; WJWC Johnson City, Tenn. w/c/w mx & CBS NX @ 7; WIDY-910 Roanoke, Va. w/s/off @ 7:09pm, WSVS-800 Crews, Va. w/Mutual NX @ 6:31pm, WPTR, Albany, N.Y. w/rr @ 7:37pm; WMBD-1470 Peoria, Ill. w/CBS NX @ 8 & WMBD NX, WFIR-960 Roanoke, Va. w/ID @ 8:40pm and "Touch Tunes Game" @ 8:41, then into rr. 4/6- WANB-1580 Waynesburg, Pa. w/WX & mx @ 6:49pm, WVKO-1580, Columbus, O. w/"National Black Network" NX @ 7:03pm, WAMY-1580 Amory, Miss. w/c/w @ 7:18pm & SID; WSHY-1560 Shelbyville, Ill. w/c/w @ 7:24pm; CFOR-1570 Orillia, Ont. 2/ID @ 7:29pm, into rr & Orillia WI @ 7:34pm; WAXU-1580 Georgetown, Ky. w/s/off @ 7:16pm. Reports are out to WIDV, WEEP, ELRA, WGH, WMCB, WVAB, WBOC, WLTV, WLSL, WTR, WVKO, CFOR, ZNS1 & WCHS. Well, that's about all for now, 73 to all.

CHRIS LUCAS - Hickory Ridge #68 - Danbury, Connecticut - 06810
 It's been quite a while since my last Muse. A quick re-intro: I'm 30 years old, DXing off and on since 1963, and work as afternoon DJ & Mxd & production man for WPUT-1510 in Brewster, N.Y. WPUT's February DX TEST only netted a dozen or so reports, reception markedly worse than our 1975 TEST. Most reports have been answered with our new QSL card. I will gladly send a v/q to anyone who reports us on RS; I know we're difficult to pick out at SSS w/WITS, WNLG, WRAN, CJRS etc. I've been doing some occasional DX lately, with 50 1978 loggings, totals at 567. Most of these loggings have been heard since March 31. I've been experimenting with a kind of Beverage in the hilly woodlands behind my apartment complex. The antenna runs almost due N, although there is approximately 175' that runs WNW from the apartment to the S end of the antenna. I'm using 565 ohm termination at present, but it's not working right. First logging with the Beverage at some stage of its construction was CJLM-1350 FF on 4/22 @ 9:29pm EST o/regulars WNLG/WZLX/WENE. Other loggings attributable to the Beverage include CFMB-1410 Montreal, WCOU-1240 Me., WSKL-1240 Vt., CHYM-1490 Ont., WPAJ-1490 Vt., WLAM-1470 Me., & WBZA-1410 N.Y. Also unnn WFOR-1490 Me. is semi-regular after midnight. Total length is something like 1300'. I haven't been sending too many reports out, but verie percentage has been great, 100%, with five-for-five, including WJOT-1420-TEST, WRAM-1340, CKDK-1340, WNN5-1240, & WMRN-1490. Reception of WMRN on 5/4 @ 3am was particularly weird; almost nothing coming in on Beverage due to Aurora, I guess. I switched to the loop (inside noisy apartment building) and nulled electrical noise the best I could, & found WMRN on top of 1490. Rarely do I hear inland graveyards like that from Connecticut these days. More of the DX-plots of this Connecticut DXer another time. 73. (Welcome back, Chris! -ERC)

RUSS EDMUNDS - Box 127 - Bonton, New Jersey - 07005
 I guess it's about time to Muse again! No DX at all since very early April, due to a dramatic increase in local atmospheric, & geomagnetic activity; as well as a taper breakdown! I can report, however, that I'm back working full-time on a new career as a prospective insurance underwriter. Location is in Morristown, N.J., so no move is necessary, but I will be taking courses two nights per week all next school year. It's been a while since I've had to do any studying! No verie from KCHT-1560 for f/c tape report. Dunno if I'll even bother to f/up, if they ignored a tape. Can anyone out there check? Thanks to NEEL ZANK for IDing my 1090 u/ID during the KNWS TEST as only IEPRS w/promo for their Louisiana FM! Oh well! I don't really expect any significant DX activity here much before September, and that will likely be limited to MMs & DX TESTS except for occasional other stuff. I just don't expect to have a whole lot of time! More later. 73's.

RAY ARRUDA - 47 Burt Street - Acushnet, Massachusetts - 02743
 I have hit my usual Summer low point at the dials with no listening done since 4/24 and late April. On MM 4/24: WAMS-1380-TEST tentative on r/c-TT from 2:31-2:34 & off, so taped report was sent. KNIX-1580 Ariz. TEST was noted with good signal but deep fades at times w/FM programming which included lotsa c/w IDs from 2:44-3:05am. Thanks to CLIFF RENO & JERRY STARR for this one. I did not listen for WAKE-1500 but if they were on, thanks to JOHN BOWKER for arranging two years in a row to give those a chance to hear them again. Thanks to the many supporters to DDDX, but we'll cool it on my silly stuff in the Credits Section and be serious for a change. Veries are back from: KIRO-710-TEST, WIDG-940, CJRC-1150, WMGJ-1260 WAMS-1380 and KCRG-1600. Some holdouts remain, but there's always next season to try for the tough verifier, and the f/ups too. Things look good for ATLANTA at the present time. I was there back in 1968 and I thought it was one of the nicer places to visit while in the South.73.

OUR NEXT MUSINGS DEADLINE DATES WILL BE SATURDAY, JULY 1, and MONDAY, JULY 31. WE HOPE TO HAVE SOME FINE, FULL MUSINGS SECTIONS FOR YOU DURING THE SUMMER! PLEASE BE SO KIND AS TO DOUBLE SPACE, AND REMEMBER OUR LINE LIMIT IS 30. STICK TO E.L.T. AND A.M. & P.M., PLEASE! PLEASE, NO VERIE SIGNERS' NAMES IN YOUR MUSINGS, BUT PLEASE LIST THEM ON A SEPARATE SHEET OF PAPER AND CHECK TO MAKE SURE THEY ARE NOT RECENTLY IN A V/S COLUMN. THANK YOU!

JACK FAULKNER - 233 East Division - Rockford, Michigan - 49341 5/23/78
 Howdy everyone, glad to see all the new Musers. Now that didn't hurt, did it? I hope the Muse-a-State idea will get more members to take part in the Club. On 5/2 I listened for a while at the Spuer Aurora that was wreaking havoc on the MW. It was the first time that I have heard the CX on AM sound like the CX on FM. The entire band had white noise in the background & I only heard 28 stations out of all the frequencies. For instance, on 1390 that is usually dominated by WVOX with a mix of WFL, instead an unID SS was coming in at local strength with no sign of the domestics. All of the highbanders were out except for KYEL (which can be heard at armchair level with the radio off) and the midbanders were really down in the mud. Interesting CX, to say the least. Indices for the second of May showed the solar flux at 179, and the A & K indices at 33 and 5 respectively. The Big Event here lately was the logging of my first true "International/Foreign" station: PJB-800 Netherlands Antilles on 5/6 @ 12:01am with the end of an Evangelical program in EE. My jaw hit the floor when I heard that beautiful ID in English! I think the foreign DX bug is beginning to bite! The WAKE-1500-TEST on 5/15 was heard L&C, just as suspected. A report is being typed up to be sent to JOHN BOWKER; thanks a lot for arranging the TEST, John! Tip Time: One f/c worth listening for is the WHMT-1190-Tenn. on the second Tuesday of the month. I half-heartedly tuned in for it on 4/11 but when 1:30 a.m. rolled around, so did the 500 watts of WHMT. Their signal was equal in strength to 50,000 watt WWOV, and they have one of the best f/c formats around. They ID roughly every minute with details of the station and then more IDs, a few with phonetic spelling. I'm glad to see a "Tough Stations to Verify" list starting; let's all use it wisely. That's all for now, next time a list of some of the stations I've been hearing. 73s.

STEPHEN FRANCIS - 1620 Lodge Street - Alcoa, Tennessee - 37701
 TEST results: 3/31- Unn WORG-1580 not heard, I forgot to try for it on 4/1. MM 4/3- KROW-1460 not heard. MM 4/10- Unn WPHG-980 in well w/varying TTs. MM 4/24- Unn KNIX-1580 way o/KLOU and way u/station rolls w/FM simulcast of c/w. MM 5/15- Unn WAKE-1500 good w/TT, mx, VIDs & CIDs. 4/29- WFBG-1290 Pa. fair and atop on day rig @ 5:59am ending NX/WX/SX. MM 5/1- CMHB-960 weak but atop @ 1am s/off w/choral NA, Cuba was still on EST till the first Sunday in May. MM 5/8- Ernie's frequent visitor, TGK-1240, was in beautifully at times for Central America #50 here. There's a "R. Sensation" female SID between each record, patter & CST TC by male DJ, no marimba mx noted. It got so strong during peaks that it didn't even sound like a GY signal. S/off was 2:57 w/"Muy Buenas Noches, Guatemala," folo by a few seconds of Roger Williams' "Born Free", the "whoosing up" to the surface effect of the other 1240 stations was apparent the second TGK cut its carrier - such was its signal. 5/12- WATA-1450 N.C. atop for ID @ 6am. MM 5/15- WMFJ-1450 Fla. good @ 2 w/ID & rr; TGK-1240 bombing in again this AM. Nothing much else going on DX-wise this Spring, so 73 & see you in ATLANTA.

KARL FORTH - 630 South Ardmore - Villa Park, Illinois - 60181
 I missed the Illinois edition of Musings some weeks back because I was just too busy with schoolwork, etc., but now I'm back in CADX-land so a Musing is in order. I've been doing some DXing in the past week. Highlights are WQQW-1590, a surprise through WAKR & a WQOE test, and the Iowa travel station on 1610. CX seem good for May, which is normally one of the worst DX months here. I am planning to attend ATLANTA, it's just an eight-hour car trip from Carbondale (by Labor Day I'll be back in school). The Chicago Tribune had an interesting article on AM STEREO in its "Stereo World" magazine on May 7. The article said that local WGN has stereo capabilities in its new consoles and turntables and that another local, WKDC-1530, was used by Motorola for stereo tests in 1976. The article also said that the FCC will publish its rules on AM Stereo by early 1979, after which "the public will get AM Stereo." C U later.

JAMES E. CRITCHETT - 1635 Walbridge Street - Red Bluff, California - 96080 5/22/78
 From 4/18 to 5/22, between rides on the Skunk Train, a trip to the John Day country in Central Oregon and three trips to her cabin near Mount Lassen so that she could go fishing, not too much DXing has been done. But new stations heard for the first time in Red Bluff & new call letters for older stations have been heard, mostly from 6-7am EDT. Maybe more chances between 8 & 9 for new ones. My first "Down Under" from Red Bluff was 2NR-700, Grafton, Australia @ 8 EDT Sat. 4/22. "National News of the ABC" was the program. After many tries, I finally heard KROQ "The Rock of Burbank" ID @ 7:56 Wed. 5/3 u/KXRX' Larry King Show. What is KWJZ-1080's silent period? They were testing @ 7:35 Sunday 5/7 and 6:40 Sun. 5/14. Apparently CFSL-1190 has changed its pattern; on top of 1190 when KEX was off @ 7:03 EDT on Sunday 5/14 & 7:11 5/21; basically "SL" IDs. KIRO-710 was off Mon. 5/15 and KGNC smuck through KPCC @ 6:24 for an ID. Red Bluff #590 was KVEB-1400 "Vegas Country 14" ID @ 7am Sun. 5/21 with KVEB call @ 7:01. #591 was KART-1400, Jermome, Idaho, ID @ 7:13, Mon. 5/22. They s/on @ 6:58 daily except Sunday. They were surprisingly strong at the start of the SSB, but faded, naturally. I will continue within the 6-7am slot for another week or so, to fill the 24-hour log as much as possible, through the static and fading signals. I feel sorry for you Easterners with the static and sunspots and all-nighters. Just keep listening, and reporting to Ernie. No ATLANTA for us. 73's.

EVER BEEN TO THE NORTHLAKE HILTON NEAR ATLANTA, BUNKIE? NO? WELL, A LOT OF US WILL NOT BE ABLE TO SAY WE'VE NEVER BEEN THERE AFTER THIS YEAR'S BIG ATLANTA N.R.C. CONVENTION, SEPTEMBER 1-2-3-4. A LOT OF MEMBERS ARE MAKING THEIR PLANS RIGHT NOW, AND WE WANT TO PERSUADE MORE OF YOU TO PUT ATLANTA ON YOUR VACATION AGENDA THIS LATE SUMMER! A REALLY GREAT TIME IS PLANNED FOR YOU AND ALL OF US, SO COME ON - BE A SPORT AND BE A PART OF IT! MAKE THOSE PLANS N-O-W-I

ERNEST R. COOPER - 5 Anthony Street - Provincetown, Massachusetts - 02657 617-487-9337
 Phone calls this "semester" from HILL COLEMAN, PAUL MOUNT, STAN MORSS, DAVE SCHMIDT & ROY BARSLOW, with a visit from the latter! Anyone coming to Cape Cod is most welcome to visit, only please let me know a day or so ahead of time. I was "back home" in Brooklyn for six days 5/4-9 - the old place "ain't what it used to be", hi. Was I ever glad to get back to my beloved Provincetown, high taxes and all, hi. DX: 5/2- A super AU hit this morn - my still unID "Providencia Centrale" topping 800 1:56-3:07 when the OC of PJB came on. A special bonus came whilst listening to this one (who mentioned Costa Rica) in KEROK which forged to the fore for ten minutes around 2:00; absolutely no sign of usual CXLW/CJAD combo! There was another SS under there as well. 5/3- AU continued, really a struggle! On 1370, virtually no signal from usual rr pest WFEA; instead, a good signal from 1kw HJBO, "R. Piloto" in Barranquilla. Next to him on 1380 came "Ecos del Mar" in Barquisimeto, with no domestics noted. 5/10- Noisy; CKLM-1570 off, somebody testing on 1560 w/ID @ 1:47, missed. WHET-1330 was ANIG & WNAV-1430 was topping that spot @ 2:26. 5/11- More AU, and very "mucho grande" - 1370 & 1380 as above were solid again, after unnn WJWS-1370 finished an ET around 1:20. Also noted was unnn WKFE-1550, Yauco, P.R. ANIG. 5/13- UNID SS on 1270 o/Cuban Minute Man, I think 'twas R. Miramar?? SM 5/14- WBSM-1420 & WHET-1330 were off today. TTer on 1560 1:29-2:00 & on, no IDs. Good SSES were R. Colagal-1005 & R. Tricolor-990. WPTA-1540 went off around 3. MM 5/15- Very noisy. Somebody on 1470 with Jazz Album Countdown, mentioning two FM stations & KXLY, evidently none of the three, hi. SSES still rollin' in, like on 1300, 1330, 1270, 1150, 1090 & 625. Unn WJNX-1600 ETing @ 3:08. 5/16- Unn WQOE-1590 on ET today, & TGK-1240 in again @ 1:43. WHET-1330 off AN, musta been a one-timer last week. 5/19- TT-1260 today & several AMs since, no IDs caught. Unn WJDX-1470 ETing @ 1:14, TTERS on 1400 & 1450 1:52 & 2:30. 5/20 - GHI topping 1260 today, Prayer, SSB & s/off on 1270 @ 2:17 seemed to be WTSN?? TTer on 1370 2:35-3:21 & on. SM 5/21- TT u/WCKY-1530 1:51-2:17, no IDs heard. Local WJLC-1170 was off all day today, moving studios; WJMQ-1170 noted very weakly at noon. MM 5/22- TT u/WTP-610 @ 1:19; on 740 @ 1:25; on 1420 @ 1:57. WIG-1080 was off today, must be the MM after the 3rd Sunday. More TT on 1370 again, @ 2:07 & on. 5/23- Unn WNBC-1340 s/off @ 1, no SSB. Unn WCHE-1520 r/c-TT @ 12:51 u/WKEW. 5/26 - Unn WCOU-1240 on top, c/w, AN. TTer on 690, 2:11-2:14. SM 5/28- The Costa Rican heard just as he left the air @ 1 - a Cuban Minute Man has taken over on 940 now! 5/29-MM- "Aurora While You Wait" - 'twas normal around 1, but by 2:15, it was highly Auroral! HJOG-1300 "R. Antillas" practically in the clear @ 2:20. R. Tricolor-990 loud & alone. 5/30- TT on 1230 1:09-1:30 & on. We gained one and lost two - not too bad! ANs who've quit: WHET-1330 & WOSH-970 - and we gained WOCB-1240, rr, AN-6, bye bye TGE, hi.

LET'S SEE THOSE MUSINGS FOR OUR SUMMER ISSUES, GANG! LET'S CELEBRATE "THE FOURTH" - NO, NOT WITH A FIFTH - BUT WITH A MUSING (A LITTLE EARLY) TO GET HERE BY DEADLINE DATE OF SAT. JULY 1!

The following received at HQ.....

Bob Foxworth, GPO Box 2111, New York, N. Y. 10001

It was nice having Rick Heald over for another visit, after his visit to the Riviera. Ah such a life! DX was not very good, but the one worthwhile catch, Cotonou on 1475 was heard at 9:02 PM signoff while the weary traveler was sacked out in the next room suffering from jet-lag. This seems their regular Saturday night s/off time by the way, after a program of local music, and they are just above 1475.1, still, which makes them easy to spot and differentiate from European reception which is on 1475.0. Later Rick and I called Greg Monti and Steve Apel at WGBB and we all welcomed in Daylight Shifting Time. Yes that's right...Glenn Hauser's idea, recognizing at last that nothing is really saved by DST. A remark on the Baseball Network article. Bill Hardy is right. When the Red Sox play those night games at Anaheim, several New England GY stations have been noted on the air as late as 1:30 AM here. WFTW-1340, WIKE-1490, WTVL on 1490 are all multiple loggings this way, along with many others. There will be two week-long road trips the Red Sox make to the Coast, in June and again in August. I don't have the exact dates here, but check the papers. CX have been pretty disturbed the last few weeks, reflecting the advent of the new Solar cycle 21. A good logging of WLBZ-620 was made here, nonetheless, MM 5/15 with WHEN silent, apparently WLBZ is now AN MM or have they always been? WABC-770 was testing on and off around 1 AM 5/16. A good thing for a DXer to have would be a scanner that would repetitively sample the freqs of all your MSP locals and ring a bell when any one of them lost carrier, so you could then DX that freq. It's possible. Who'll be the first to build one? RJE's 1060 unID could be ZGBC Dominica? with that weird phone number, but they are supposed to be a daytimer. And, have not been reported in Nam. How about that, Russ? Apologies to ERC for sending this straight to HQ, but was up against the deadline, and mail takes 5 days from me to get to Provincetown. Hmm. Fellows, skip the long lists of calls heard in Musings. They're terribly hard to read, and I just skip right over them. They don't relate that well to the average reader and certainly not to me.73

V E R I E S I G N E R S

540	KNOE p	u/u	L	1390	KZAK p	Neal Whitehead, PD	I
	WDAK l	Charles Skinner, CE	I		KWNL lm	Edward M. Fink, Exec VP	A
550	KFRM p	u/u	L		KVKM p	Kurt Newton, GM	L
	KRAI	James G. Greer, CE	L	1340	KLLM lm	Francois T. Peterson, CE	A
560	WCKL lm	Charles D. Pitts, CE	H		KBRK l	R. J. Reimers, CE	A
570	WVMI uf1	Robert C. Thornton, CE	I		KBTA p	V. White, CE	L
610	WTVN q	u/u	H		KWOR p	Dennis Smith	L
620	XEBU nl	Roberto Boone Menchaca	I		WBCS q	L. Wolnikowski, CE	H
710	KERE	Girard M. Westbury, CE	L	1350	WNVA q	Raymond Waddell, CE	E
730	KLOE p	Ray Mejia, GM	I		WRNY l	Maria Rich, PD	H
740	KRMG p	Jerry Vaughan, PD	I		KABQ l	James Hogg, CE	A
830	KBOA ul	Lawrence A. Anthony, CE	I	1360	KDXI p	Ben Strange, GM	I
850	WBEU lm	Richard Schlipp, VP, GM	D		WCHL l	Paul O. Matthews, CE	E
	XETQ nl	Jorge Luis Reneaume A., G	I	1370	WLTH f	Ron Borden, CE	H
860	XENL unl	Humberto Suarez Perez, D	I	1380	KTSM p	George Nowak, ACE	L
	KONO q	W. A. Kiley, CE	L		WLZY l	W. A. Cooper, CO	I
900	WFRQ q	Shelby H. Bristow, CE	H		WIZO l	James H. Hayes, GM	E
930	KSEI p	Robert Billings, CE	L	1390	KBEC ul	Richard Tuck, GM	I
940	KADP q	J. W. Ball, CE	I		KAMO p	u/u, GM	L
	WCPC f	Rick Huffman, Promo D	G	1400	WOND fh	Thomas McNally, TD, WB2DRD	EH
950	WRTT l	Phillip Shea, CE	E		WHMP qm	u/u, E	D
	KIMN p	Robert E. Maxwell, CE	I		KVOU p	Nona Whitley, M	L
	WBKH p	Earl Hitt, PD	I		KXIV l	Cliff Reno, CE (NRC)	L
960	KATK p	u/u, CE	L		KPAG p	u/u	L
	KFVS l	Hildegard Bader	I	1410	WUNI q	J. C. Burns, CE	F
	KIMP unl p	C. C. Taylor, CE	I		KQV l	Judith Ross, Pub Affrs D	B
	KOOL p	Al Hillstrom, CE	L	1430	WCLT l	Ralph V. Renner, CE	H
970	WWDJ l	u/u, CE	H	1440	WJHN l	Douglas Harwill, PD	B
980	WILK q	u/u	H		WMVB m	George Sindell, CE	B
1000	KGRI p	Norman Johnson, GM	I		WCIL l	William Kramer, TD	H
1010	KOJW p	u/u	L	1450	KIRX r	Samuel A. Burk, GM	A
	KCMJ p	u/u, GM	L		KVSL l	Hugh J. Williams, P	A
1090	KKTN p	Glenda Green, Trf D	I		WFFG q	u/u	B
	XEPRSq	"Management & Eng. Staff"	I	1470	WMBD l	Neil Burk, CE	D
	WKPT lm	David Walker, GM	H		WBTX l	John P. Muellar, Op M	F
1100	KFAX q	Roger L. Roberts, CE	L	1480	WUEZ r	Ray Bentley, GM	E
1110	WZAM f	John Helmerl, CE	H	1490	WBCB l	Kevin Olson, CE	H
	KBOR lm	David Roberts, PD	K		WCSS l	Lloyd Smith, CE	H
1130	WISW q	Robert P. Johnson	H	1500	WTOP q	Ronald J. Peters, ACE	F
1150	WTAW f	"Tony" Nemens, CE	L	1510	WLAC f	Everett Lawson, CE	B
	KSNL f	D. A. Engelhardt, CE	L		KYKR p	Richard White, PD	I
	KNWZ p	Richard Shoudt	L	1520	WKBW p	u/u	I
	KUFF p	Richard Shoudt	L	1529	Vatican	Michelle Lemme, CE	C
	KWKY lp	Charles Putbresse, GM	L	1530	KNHI	David Tucker, M	C
1170	KUAD p	David Justin, PD	L		KRYT p	Don McCaw, PD	I
	WELW lm	Richard Swedt, CE	H	1540	KXEL q	Tony Thill, CE	B
1210	KOYN p	M. Robinson	L	1550	KQXI p	Ramona Harris	L
1220	CJRB l	Ed Fast, CE	L		WOKJ p	Zane D. Roden, VP, GM	L
	WSDQ l	Craig Fox, CE	H		CBE q	M. Piche	B
	WCDQ qh	Dr. C. F. Bass, CE, K100L	H	1560	KKAA q	John R. Chible, CE	F
1230	WENY f	Raymond M. O'Donnell, CE	H		WSMD l	Rebecca B. Queen	B
1250	CKOM q	K. M. Fisher, CE	A	1580	WCNB l	Mike Peacock, PM	G
	WTAE l	John Romick, CE	F		WRDE lm	James N. Rodio, O, GM	H
	WPEL l	Robert Brigham, CE	H		KZIA q	John Deme, GM	A
	KBRF l	Larry Nornes, PD	G		WPGC fm	(Milford K. Smith Jr., CE	A
1260	KSPL p	Atman Lester, PD	I		lh	(Joseph Nunnemaker, E, WAJZSC	B
	WBNR l	Jay Nussbaum, CE	H		KRZI	Herbert Harding, GM	CI
	WNRD q	Roy Taylor, CE	H		KLOU q	David C. u/u	L
	KVSP p	Fred Sera, GM	AL	1590	WOKX	Edward Kasovic, CE	J
	KIXY p	Daniel Wilson, CE	L		KEND p	H. C. Barnwell, CE	L
	KTUE lm	B. K. Barker Jr., CE	A		WMLM l	Ed Romance, O, M	H
	WGVH l	Robert N. Neador	A	1600	WCGO lm	Anthony V. Santucci, GM	B
	CFRN lm	J. S. Edwards, M	A			C R E D I T S	
1250	WDAE q	Richard R. Lucas, CE	F		A -	Rolland Lindblade	G - Neil Zank
1280	WANS	James Graham, CE	C		B -	John Rouse	H - Juergen Trochimczyk
	WADD c	Philip E. Greenstone, CE	H		C -	Elliot Straus	I - Steve Ponder
1290	WIRL l	Don Moreland, CE	H		D -	Paul Mount	J - Stan Morss
	WCEL l	James W. Freeland, M	F		E -	Mike Tuggle	K - Charles George
1300	KLAR p	Joseph Ruiz, PD	I		F -	Greg Poole	L - Wayne Hainen
1310	WJAM l	Grover C. Huckabee III, GM	F			A B B R E V I A T I O N S	
	WCSA f	John Hogg Jr., C Op	G		1 -	Verie is a letter	n - In native language
1320	CHQM q	Maurice L. Foisy, VP	A		f -	Form letter	e - In English (foreign)
	WKTT q	B. Taylor, CE	C		u -	On a follow-up	p - Self-prepared card
	WGET l	Lester M. Blair, CE	H		q -	QSL (printed) card	r - Verie on your report
1330	WHAZ q	Gary u/y, C Op	H		c -	Typed or written card	v - Verie is vague
	KFH p	Jason Drake, PD	I		m -	Sent coverage Map	h - Signer is a "ham"

IRCA CONVENTION

1978 CONVENTION PORTLAND OREGON AUGUST 11, 12 and 13

For the first time in IRCA's history the annual convention will be held in Portland, Oregon at the Flamingo Motel, 9727 N.E. Sandy Boulevard. This convention promises to be one of the best ever, so start making your planes now!

Hosts Bill Block and Frank Aden Jr. have planned an active schedule with guest speakers, tours of KYXI-1520 and KCON-92.3, the annual IRCA Business Meeting and Banquet, DX lectures and a picnic on Sunday.

We will also have our annual Auction on Saturday night so please bring or send your Auction Items to Portland. We would prefer usable items such as; Surveys, coverage maps, radios, tape recorders, old phone books and anything else that you have laying around your shack.

Registration fee is \$16.50 and can be paid in advance or at the door. The registration fee includes the cost of the meeting room drinks and the banquet. For those not wishing the banquet the registration fee will be \$11.50.

REGISTRATION FORM Sent to Bill Block, 9307 S.E. Clay St., Portland Oregon 97216. Registration form must be in by August 8th.

Name _____ Address _____ City _____
State _____ Zip _____

Type of room requested: _____ Single \$21.50
_____ Double 22.50
_____ Two people two beds 24.50
_____ Each additional person 4.00

There is a 5% tax in addition to the above rates for all rooms. If you want your room held past 6PM Friday you must send in one nights deposit!

We will be making arrangements for roomates so If you wish to share a room with another DXer please let us know.

When and how do you plan to arrive? Car _____ Bus _____ Train _____ Plane _____ or other _____? If you plane to arrive by Air please give time and date and we will met you at the airport. We will also be able to met anyone if they arrive by Bus or train if they let us know in advance. The Flamingo also has a free Courtesy Car from the Airport. If you have any questions please write to: Bill Block, 9307 S.E. Clay St., Portland, OR 97216 or phone 256-2354

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