



DX NEWS

*the magazine of the
National Radio Club*

— SINCE 1933 —

Volume 46, Number 28

Monday, August 13, 1979.

STATIC FROM HQ

Rumors of my death have been somewhat (though not greatly, hi!) exaggerated, seriously folks, I was out at the National Governors Conference hearing Vice President Mondale last issue and at the national convention of the NAACP the times before--the first time both conventions have been in this city the same year and also the same time I had to work as public affairs man at WUOL--at any rate, I am back (no real tears, please!) and just in time to get set for a fun time in St. Louis, which means we hope you folks will also be there--early returns from Lou Buehler are that the registration is looking good, but there is still time to clip out the form in this issue and send it in! In other stuff while I was out, the wonderful bunglers here (or somewhere) blew it in a typo on the 2nd page of the last issue pattern updater and put KTNQ on 1010--we all know it should be 1020, even if they never did verie my report! Also, congrats to Larry and Gayle Van Horn on the birth of the NRC's youngest DXer--William Loyd Van Horn on July 14th! Also, we have a note from Al Quaglieri of Albany, N.Y. with three tidbits of interest....KTRH will drop Herb Jepko and replace it with Larry King talk from Midnight until 4 a.m.; also KCMO will be carrying the University of Missouri Tigers football and basketball play-by-play; and finally, a magazine called "Alternative Voice" is available from 7 Woodside Grove, Hartburn, Stockton, Cleveland, England. Al says the mag has up to date info on pirate stations--both on land and at sea. He has no info on the subscription rates (if someone gets them, please....) Lastly (but not leastly!) please do not forget your auction items for the convention in St. Louis--they have made an error and asked yours truly to auctioneer and that means we need your items (I promised Lou that I would not sell him his own ashtray again like I did last year in Atlanta!) Some dates to remember--such as when the next issues of DX News will appear folks....Sept. 3, Sept. 24, Oct. 8 and 22, Nov. 5, 12, 19 and 26, and December 3, 10, 17, and 28. Please get your items ready and dust off those radios! And now lastly (if Pat allows!) thanks to John Kromka for his test of WAGL-1560 Lancaster, S.C. which missed the last issue--hope many of you did get the chance to try for it (Pat got a verie already!)

CPC TESTS

Jed (Remembers Me?)

There are no tests to report, which means that NOW (TODAY!) is the time to start lining them up for the season--if you need advice on how to arrange a test, please see the CPC listing on the back page--Jerry will be pleased to assist you!

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DOMESTIC DX DIGEST

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

Deadlines are August 15 and September 8. Start getting your gear in peak working order as the DX season will soon be upon us.....

FREQUENCY CHECKS

1st Mon. WMTL-1580 per list (RK-OH)
1st Tue. WAYC-1600 7/3 0018 very good w/TT/IDs. (RK-OH)
1st Fri. WBTX-1470 7/6 per list w/TT/IDs (RK-OH)
1st Sat. WIRV-1550 7/7 w/ID, TT (RK-OH)
2nd Thu. KMAV-1520 s/on 0145 for r/c. (RK-AR)
2nd Fri. KFVS-960 announced f/c w/crazy TT. (RK-AR)

SPECIAL

First we have an update of several stations in the Minneapolis-St. Paul area from Gary Lovegren via telephone. Many of these changes are recent, so you might want to check the NRC Log to make any necessary changes:

630 KDWB MN ST. PAUL - T40, Bubblegum Rock. (GL-MN)
690 KTCR MN MINNEAPOLIS - was C&W, but is now Oldies format. (GL)
900 KTIS MN MINNEAPOLIS - Daytimer, REL. (GL)
950 KRIS MN ST. LOUIS PARK - AN w/C&W format. (GL)
980 WAYL MN RICHFIELD - BFL mx, now 24 hrs, NSP. (GL)
1010 WMIN MN MAPLEWOOD - Daytimer, mostly Polka mx. (GL)
1130 WDGY MN MINNEAPOLIS - Used to be Rock, now has switched to C&W. (GL)
1280 WWTC MN MINNEAPOLIS - From all nx to soft Rock & Pop mx. (GL)
1330 WRRD MN MINNEAPOLIS - EX-WLOL from talk to C&W format. (GL)
1370 KDAM MN SO. ST. PAUL - new daytimer on w/adult mx format. (GL)
1400 KEEY MN ST. PAUL - Soft Rock/Pop mx format. (GL)
1440 KQRS MN GOLDEN VALLEY - Album Rock format. (GL)
1470 KTNW MN ANOKA - Daytimer, lKW, AoR mx. (GL)
1500 KSTP MN ST. PAUL - T40 mx. (GL)
1530 KSMM MN SHAKOPEE - Daytimer, AoR mx. (GL)
1570 KUXL MN GOLDEN VALLEY - from 1 to 2.5KW daytime, REL. (GL-MN)

Gary also notes that announcers for Minnesota Twins BB Net are Sid Hartman w/The Lead-off Man Show & Herb Carneal & Joe McConnell, play-by-play.

Here are a few other "Rare Birds" to shoot for:

515 OS OH COLUMBUS - Ohio State University beacon noted many times @ bottom of band. (RK-OH)
521 ORC IA ORANGE CITY - Municipal Airport beacon. (RK-OH)
GF OH CLEVELAND - positive location or class not known, perhaps we should consult LWCA before next beacon list is compiled. (RK-OH)
1610 WXT- KY COVINGTON - 7/3 2300 very faint in storm. This station gives info on the Greater Cincinnati Airport, power unknown, signal sometimes strong to unreadable. (RK-OH)
613
1620a WCBX NY NEW YORK - 6/8 2210-2315 local Pirate in well while visiting Queens, Ike Michaels w/rr mx, good signal, but distorted. Ments of "X stands for experimental, 1-6-2, 1.62 mhz, original WCBX, remember 1970?" Show was pretaped & repeated later, many IDs. (GM-NY) 6/9 2215-2230+ good on TRF @ home playing old WMCA airchecks complete w/nx & spots. (GM-NY) 6/30 2200 playing T40 mx talking about Skylab. (BL-CT)
CRW NS HALIFAX - 7/2 @ 0029 & 7/9 @ 0059, heard only 30 secs. of audio both times: "This is CRW Halifax, Nova Scotia on the air testing, this is CRW-Halifax" then off, what is this? Doesn't sound like a Pirate, very weak both times. (BL-CT)

REMEMBER ST. LOUIS

SUNSET TO MIDNIGHT

540 KWMT IA FT. DODGE - 6/23 1429 poor w/talk. (WPT-MN)
550 KPYR ND BISMARCK - 6/23 1435 spot for Chevrolet, ments of area, Miller Beer spot, fair at noon two days after Summer Solstice @ 400 mi. on 5KW, equivalent to hearing WKRC-550 Cincinnati from DC @ noon. (WPT-MN)
560 WEBC MN DULUTH - 6/22 1416 w/movie promo, T40 mx, fair. (WPT-MN)
570 WNAX SD YANKTON - 6/22 1420 xlnr w/wx for midwest, ID. (WPT-MN)
580 WKTY WI LACROSSE - 6/23 1422 fair w/spots, ID/T40 mx. (WPT-MN)
590 WOV NE OMAHA - 6/22 1414 nx, T40 mx, fair w/jx ID. (WPT-MN)
640 WOI IA AMES - 6/23 1444 fair w/C&W mx w/KDWB slop. (WPT-MN)
Bill noted these catches while @ ANARC in Minneapolis. (RA)
730 WDOS NY ONEONTA - 7/19 Ae Nx @ 2030 followed by wx, YL DJ, MoR format, fair @ 2045 s/off, new. (BC-RI)
----- 7/19 EZL mx then wx for the valley, s/off @ 2045 w/C&W lullabye, w/WDOS, looped west on SM2. (BC-RI)
770 WEW MO ST. LOUIS - 7/1 2126 fair in WABC null w/MoR then female anncr giving s/off & ID. (RK-OH)
790 WEAN RI PROVIDENCE - 7/20 2150-2155 fair w/WWNY w/ID, sports. (BD-ON)
850 KGKO AR BENTON - 7/15 2150 noted s/off w/ID. (SEM-TN)
930 WKCT KY BOWLING GREEN - 6/28 2102 fair w/ID noted briefly above WGNT & others. (RK-OH)
CJYQ NF ST. JOHNS - 6/28 2132 think it was they in jumble w/partial ID, too faint for positive ID. (RK-OH)
960 KGIR MO CAPE GIRARDEAU - 7/14 1920 are these new calls for KFVS? Fair w/T40 mx, ID just a few days after f/c which was IDed as KFVS. (RK-AR)
1000 WIOO PA CARLISLE - 7/13 w/DJ, T40 mx @ 2026, fair before s/off new. (C-RI)
WIIQ NY HORSEHEADS - 7/13 also new, fair w/Ae nx @ 2030, BFL mx, then s/off, FM 101 ments, "from the southern gateway to the fingerlakes." (BC-RI)
CFLP PQ RIMOUSKI - 7/13 2043 w/FF mx, xlnr until pattern change @ 2046 then gone completely, new. (BC-RI)
1030 WBZ MA BOSTON - 6/21 1310 fair w/T40 mx, ID @ high noon. (WPT-DC)
1050 WSCV NH PETERBOROUGH - 7/19 1952 w/local spots, UPI nx on the hour, EZL format, poor in WHN null, new. (BC-RI)
WDZ IL DECATUR - 7/3 2115 great o/u WPAG s/off w/Disco. (RK-OH)
1060 WNOE LA NEW ORLEANS - 7/10 2243 on day pattern I think w/strong signal & emergency info. (RK-AR)
1110 CKJD ON SARNIA - 7/5 2040 new, good signal w/"Musicradio" promo, safe boating mentions, local spots. (BC-RI)
WSPW NY SENECA FALLS - 7/5 2043 local nx, wx, then s/off w/SSB @ 2045, fair, new. (BC-RI)
1140 WAKK MS MCCOMB - 7/16 2058 w/wx, ID. (SEM-TN)
1190 KJEM AR BENTONVILLE - 7/14 1043 good w/spots for several stores in Bentonville, wx, C&W mx. (RK-AR)
1220 CJSS ON CORNWALL - 7/1 1750-1758 poor w/Pop mx, OM w/PSA's spots, IDs & TC @ 1755. (BD-ON)
WGNV NY NEWBURGH - 7/16 2020 w/MoR mx, new o/WCDQ. (BC-RI)
UNID -- ----- 7/16 2030-2110 w/REL o/u mess. (BC-RI)
UNID -- ----- 7/16 2030-2110 PFC w/FM style Disco format in jumble, has CKSM gone Disco? (BC-RI)
1230 WIGS NY GOUVERNEUR - 7/1 1745-1750 good w/sports, ID, MoR mx. (BD-ON)
1270 WTSN NH DOVER - 7/10 2350-2352 poor u/WXYZ w/wx, ID, promos. (BD-ON)
KFBD MO WAYNESVILLE - 7/18 1810 fair w/C&W mx, wx, "Big K Country" ID. (RK-AR)
1320 WKAN IL KANKAKEE - 2232 7/11 great signal w/nx & wx by female anncr, no KWHN. (RK-AR)
1330 WDAL MS MERIDIAN - 7/20 2046 spot for J.C. Penny then ID, then mx, EX-WJDQ. (SEM-TN)
KVOL LA LAFAYETTE - 7/20 2100 good w/TC/ID, nx. (SEM-TN)
1390 WRIV NY RIVERHEAD - 6/27 fair in WPLM null w/wx @ 1930, station promos @ 2030, new. (BC-RI)
1400 KCLA AR PINE BLUFF - 7/18 2330 ID, then nx by YL. (SEM-TN)
1480 KBEA KS MISSION 7/13 2205 topping channel w/Ai Nx, ID, show entitled "Encore" w/BFL mx. (RK-AR)

AUG. 31, SEPT. 1-3

1510 CKOT ON TILLSONBURG - 7/3 2058 fair @ s/off w/male anncr, FM 101 ments. (RK-OH)
 1540 CHIN ON TORONTO - 7/3 2044 great w/ID, then what sounded like Italian language programming. (RK-OH)
 WJJT TN JELLICO - 7/3 2050 fair/good w/"15 WJJT" ID. (RK-OH)
 WADM IN DECATUR - 7/6 2125 fighting a losing battle w/KXEL/WPTR @ s/off, but ID made it thru. (RK-OH)
 1550 WDLR OH DELAWARE - 7/6 1857 weak but there w/WGNW-1560 slop. (RK-OH)
 1560 WPKY KY MIDDLESBORO - 7/6 1917 weak in WGNW null w/ID. (RK-OH)
 WPAD KY PADUCAH - 7/7 2216 good in WQXR null w/promo for Farmer's Market Sweepstakes. (RK-OH)
 1580 WTTN WI WATERTOWN - 7/7 2129 fair/good @ s/off w/FM ments. #30 for 1580. (RK-OH)
 1590 WOKX NC HIGH POINT - 6/21 2045 s/off by OM fair w/no SSB, "_OK_" clinched this bird. (WPT-DC)
 1600 KLEB LA GOLDEN MEADOW - 7/10 2213 on w/emergency broadcast due to hurricane Bob. (RK-AR)

MIDNIGHT AT THE OASIS

(SEM-TN)
 540 KNOE LA MONROE - 7/13 0727 "Super Country" ID, mx, then local nx.
 550 KTSA TX SAN ANTONIO - 7/16 0450 w/C&W mx, then ID. (SEM-TN)
 WKRC OH CINCINNATI - 7/7 0150-0155 good o/WGR w/sports, ID, WKRC promo, then Pop mx. (BD-ON)
 560 CPOS ON OWEN SOUND - 7/18 0109-0111 very good @ s/off w/ments of CFPS, 0 Canada, then off. (BD-ON)
 KLVI TX BEAUMONT - 7/16 0103 fair in KWTO SP & KLZ null w/nx, SID. (RK-AR)
 KLZ CO DENVER - 7/16 0106 fair w/nx, ID, John Denver mx. (RK-AR)
 580 WIBW KS TOPEKA - 7/12 0115 good @ peaks w/Jepko. (RK-AR)
 KALB LA ALEXANDRIA - 7/8 0150 s/off noted w/ID. (SEM-TN)
 600 WTAC MI FLINT - 7/7 0214-0218 poor w/QRM w/IDs, spots, wx & Pop mx. (BD-ON)
 620 UNID -- ----- 7/16 0111 SSB in progress noted very strong suspect KMNS. (RK-AR)
 640 KFI CA LOS ANGELES - 7/16 poor 0140 w/Cuban QRM & electrical storms, but ID finally noted. (RK-AR)
 720 WGN IL CHICAGO - 7/3 0245 noted off w/periods of OC. (RK-OH)
 790 WWNY NY WATERTOWN - 7/3 0000-0005 very good w/CBS Nx, Local Nx, then s/off w/SSB. (BD-ON)
 CKSO ON SUDBURY - 7/3 0015-0025 fair w/Pop mx, IDs, "79 CKSO" Studio 79 promo for Disco program. (BD-ON)
 800 WKZI IL CASEY - 7/7 0356 finally IDed after infinite OC/TT, fair mixing w/CKLW/XEROK. (RK-OH)
 850 KOA CO DENVER - 6/23 0200 xlnt w/tail end of Radio Mystery Theatre. (WPT-MN)
 860 KOAM KS PITTSBURG - 7/10 0100 good in CJBC null w/ID. (RK-AR)
 910 WSBA PA YORK - 7/2 0305 fair w/WJAR-920 slop. (SM-MA)
 920 KYFR IA SHENANDOAH - 7/16 0230 good w/many IDs, program notes. (RK-AR)
 930 WSLI MS JACKSON - 7/12 0109 fair w/s/off & SSB. (RK-AR)
 950 UNID -- ----- 7/22 0200 ISSB alone, fair/poor signal. (BL-CT)
 960 CKWS ON KINGSTON - 7/5 0116 heard very well while looking for KROF f/c w/light Rock, very good cx to Canada lately. (RK-OH)
 970 WCSH ME PORTLAND - 7/2 0225-0240 good/xlnt w/sports, Pop mx, male DJ w/IDs/TC/promos, "97 CSH". (BD-ON)
 990 CBW MB WINNIPEG - 7/12 0103 fantastic signal in strange cx, Canada & Mexico dominating. (RK-AR)
 1060 WQIO OH CANTON - 7/3 0129 ET/OC/short ID o/KYW/WNOE. (RK-OH)
 1070 WAPI AL BIRMINGHAM - 7/2 0205 good u/WIBC w/OC/ID. (RK-OH)
 WIBC IN INDIANAPOLIS - 7/16 0306 fair w/UNID TTer w/end of nx, wx, ID. (RK-AR)
 UNID -- ----- TTer w/OC/mx 7/16 0308. (RK-AR)
 KNX CA LOS ANGELES - 7/16 0310 a surprise w/KNX "weather wire" then nx of Pres. Carter's Speech. (RK-AR)
 1090 CKKW ON KITCHENER - 7/2 0200-0205 fair/poor w/OM w/nx & wx, AM-FM ID. (BD-ON)
 WKSP SC KINGSTREE - 6/25 0142 fair on ET/ID mentioning Kingstree. (WPT-DC)

1110 WEBS GA CALHOUN - 7/11 0601 s/on w/ID. (SEM-TN) (RK-OH)
 1130 WEEQ PA WAYNESBORO - 7/8 0107 great signal during ET/TT/OC/ID.
 1150 WDEL DE WILMINGTON - 7/22 0206 loud w/nx. (BL-CT)
 1170 WBRW NJ SOMERVILLE - 7/22 0120-0127 fair on ET/mx/IDs. (BL-CT)
 1190 WJES SC JOHNSTON - 7/7 0058 mixing w/WOWO on ET/TT/OC. (RK-OH)
 KLIF TX DALLAS - 7/16 0353 fair in KJLA null while trying for KEX w/female DJ, ID. (RK-AR)
 KJLA MO KANSAS CITY - 7/16 0356 w/nx, wx, while trying for KEX. (RK-AR)
 CHTN PEI CHARLOTTETOWN - 7/16 0219-0222 fair/good w/WHAM-1180 slop, OM ID, MoR mx, PSA's. (BD-ON)
 1230 CKTK BC KITIMAT - 7/9 0316 noted w/TC & ID.(SM-MA) That's incredible!!! (RA-MA)
 WNIA NY CHEEKTOWAGA - 7/2 0028-0030 fair o/GY mess w/PSA's male anncr, s/off w/SSB @ 0030. (BD-ON)
 UNID -- ----- 7/23 0003 w/TT on suddenly, maybe WTSV. (BL-CT)
 WTSV NH CLAREMONT - 7/22 2358-0000 fair w/wx, s/off by YL. (BL)
 CHVD PQ DOLBEAU 7/22 0130 FF Pop mx, ID very loud for about 15 mins. (BL-CT)
 1240 CKGO BC HOPE - 7/9 0234 fair but faint w/SID. (SM-MA) Were you out partying earlier in the evening young fellow!!! (RA-MA)
 WWCQ CT WATERBURY - 7/9 0248 poor w/SID. (SM-MA)
 WSKI VT MONTPELIER - 7/16 2359-0002 poor/fair in GY mess w/s/off & SSB. (BD-ON)
 CJNH ON BANCROFT - 7/6 0108-0112 good w/wx, REL w/s/off by OM, w/O Canada, ments. of CJBQ, CJTN & CJNH. (BD-ON)
 1260 WNDE IN INDIANAPOLIS - 7/9 0300 heard well w/WEZE on ET. (SM-MA)
 WIBV IL BELLEVILLE - 7/20 0059 mixing w/KGBX @ s/off, no SSB. (RK-AR)
 1270 KPFJZ TX FT. WORTH - 7/20 0049 good in WHBF null w/movie ads, then ID. (RK-AR)
 1280 WCPM KY CUMBERLAND - 7/5 0105 on ET/ID/TT. (RK-OH) Maybe f/c? (RA)
 WGSO LA NEW ORLEANS - 7/11 0254 on "24 hr. hurricane alert" tele-talk from people about preparing for storm. (RK-AR)
 1290 WKNE NH KEENE - 7/5 2340-0007 fair/good w/WNBF w/Pop mx, frequent IDs & spots, sports 2345, CBS Nx & local nx 2355-0005, SSB & s/off 0007. (BD-ON)
 CHRMPQ MATANE - 7/6 0002 poor w/FF/IDs in WBNF/WKNE/WHIO QRM. (BD)
 UNID -- ----- 7/19 alone w/ISSB, maybe late s/off after All Star Game? (BL-CT)
 1320 WGET PA GETTYSBURG - 7/8 0000 w/AM-FM s/off & NA. (GM-NY)
 1330 WBRZ IL EVANSTON - 7/2 0438 EX-WEAW, ET/OC/ID. (RK-OH)
 1370 WSPD OH TOLEDO - 6/28 0059-0105 u/WFEA w/ID 0100, NBC Nx. (BD-ON)
 WFEA NH MANCHESTER - 6/28 0015-0100 fair/very good w/Pop mx, OM DJ, frequent "13 FEA" IDs, ments. of 24 hrs. (BD-ON)
 WSAY NY ROCHESTER - 6/28 0015-0035 mixing w/WFEA, ID & current affairs pgm, commentary on gas shortage, then s/off w/SSB. (BD-ON)
 KGNO KS DODGE CITY - 7/18 0105 good w/Mutual Nx, local wx, s/off. (RK-AR)
 1380 WPLB MI PORT HURON - 7/2 0356 noted weakly w/SID. (SM-MA)
 WMEE IN FT. WAYNE - 7/3 0056 heard very briefly up over CKPC w/ID, Pop mx. (BD-ON)
 WNVN CT NAUGATUCK - 7/21 0025-0030 fair/good w/Pop mx, IDs "14 NVR" & BB scores. (BD-ON)
 1390 KCRC OK ENID - 7/18 0102 fair/good w/s/off & ments. of Enid Broadcasting Corp. (RK-AR)
 1400 KSIM MO SIKESTON - 7/20 0104 ET/TT/ID, IDed 2 mins. after I tuned in! (RK-AR)
 CKSJ PQ ST. JOVITE - 6/30 0010-0024 fair/poor in GY mess w/CL mx, FF talk ID, then s/off w/O Canada 0024. (BD-ON)
 1410 WPOP CT HARTFORD - 6/30 0001-0007 good w/CBS Nx, wx, ID. (BD-ON)
 CKSL ON LONDON - 6/30 0005-0010 poor u/WPOP w/Pop mx, ID, wx. (BD)
 1430 KELI OK TULSA - 7/10 0213 great w/Disco, then ID & nx. (RK-AR)
 UNID -- ----- 7/10 0145-0200 someone here w/TT on & off, some mx, then continuous OC for 2 hrs. CKFH not heard AN so possibly was them. (RK-OH)
 1440 WNFL WI GREEN BAY - 7/2 0424 great during ET/ID. (RK-OH)
 WGEM IL QUINCY - 7/14 0200 good @ s/off w/annmnts, SSB fighting KMLB. (RK-AR)
 1450 WXVW IN JEFFERSONVILLE - 7/2 0333 fair/good @ peaks w/nx, sports, wx, ID, mellow DJ. (RK-OH)

- 1460 WOKO NY ALBANY - 7/7 0056 poor w/CJOY/WWWG w/wx, ID. (BD-ON)
 WWWG NY ROCHESTER - 7/7 0057-0120 fair/good o/CJOY w/GOS,
 IDs & block of spots & ads, back to GOS. (BD-ON)
 CKRB PQ ST. GEORGE DE BEAUCE - 7/16 0007-0010 w/KSO w/FP nx,
 ID, s/off anncmts w/O Canada. (BD-ON)
 KSO IA DES MOINES - 7/16 0016-0032 fair/good w/American
 Country Countdown, C&W mx, many IDs, ads, wx. (BD-ON)
 UNID -- ----- 7/22 0214 very loud BFL mx station, who
 changed formats? (BL-CT)
 WRTL IL RANTOUL - 7/2 0416 fair w/OC/ID concluding ET. (RK-OH)
 WPNX AL PHENIX CITY - 7/3 0204 heard while listening to
 TTR w/several IDs. (RK-OH) 7/10 0200 fair to good
 w/full legal ID at top of hr. (RK-AR)
 1470 WQXL SC COLUMBIA - 6/29 0058 strong @ peaks on ET/TT/OC. (RK-OH)
 KRBC TX ABILENE - 0149 7/10 good w/ID & Rock mx. (RK-AR)
 UNID -- ----- 7/10 3 one sec. beeps every 15 secs. or so,
 faded in w/WMBD but not sure if was on WMBD or not
 ...any ideas? (RK-AR)
 1490 WBCB PA LEVITTOWN - 6/15 0120 atop w/Pop mx, ID. (GM-NY)
 WAZL PA HAZELTON - 7/19 0006 briefly atop channel w/IDs/T40
 mx, spots. (BL-CT)
 1500 KSTP MN ST. PAUL - 7/10 0142 LOUD w/Rock mx, ID. (RK-AR)
 1520 WGDR? MS AMORY - 7/6 0440 after almost 2 hrs. finally gave weak
 ID sounding like WGDR. (RK-OH) How 'bout WPGR-1520
 Port Gibson, MS??? (RA-MA)
 1540 KXEL IA WATERLOO - 7/3 0405 think the one here w/strong OC
 destroying WPTR. (RK-OH)
 1560 WPAD KY PADUCAH - 6/15 0059-0113 bad in QRN/Cuban w/CBS Nx,
 long AM-FM s/off w/NA, new. (GM-NY) 7/11 0007 stronger
 here than Ohio w/CBS Nx. (RK-AR)
 WSDL LA SLIDELL - 7/11 0139 good w/C&W mx & emergency info. (RK-AR)
 WAGC AL CENTRE - 7/3 0228 C&W mx, then ID on ET ments. of
 return @ 0545, then s/off. (RK-OH)
 1570 WTOW MD TOWSON - 7/3 0250 on ET/TT/ID. (RK-OH)
 UNID -- ----- 7/3 someone w/good signal in CKLM null after
 WTOW s/off, maybe CFOR, as not heard AN. (RK-OH)
 WCRL AL ONEONTA - 7/13 0645 noted w/ID/s/on. (SEM-TN)
 1580 WPGC MD MORNINGSIDE - 6/26 0040 noted on ET/TT/OC. (WPT-DC)
 KLOU LA LAKE CHARLES - 7/19 0021 fair u/XEDM/CBJ w/wx, ID. (RK-AR)
 CBJ PQ CHICOUTIMI - 7/19 0030 mx & talk in FP. (RK-AR)
 1600 WIXY MA EAST LONGMEADOW - 6/30 0106-0111 fair w/WUNR/WRRL QRM,
 C&W mx, ID jx, promos, ments. of 24 hours. (BD-ON)

Bill Townshend did some DXing from The ANARC Convention in Minneapolis as well as his DC location. Also, DXing from Lead Hill, AR as well as Cincinnati was Rick Kenneally. Welcome to all our "first timers" this issue. Remember, deadlines are 8/15, 9/8 & 9/22. 73....

THE BIG 10

BC-RI	Bruce Conti, West Warwick, RI	Heathkit SW-717, SM2
BD-ON	Bill Dulmage, Prescott, ON, Canada	RCA Portable
RK-OH	Rick Kenneally, Cincinnati, OH	DX-160, TRF, SM2
RK-AR	Lead Hill, AR	
BL-CT	Bryan Lee, Brooklyn, CT	TRF, 2200, Loop
GL-MN	Gary Lovegren, St. Paul, MN	TRF
SEM-TN	Sidney E. Marshall, Millington, TN	RF-2200, SM2
SM-MA	Steven Miller, Boston, MA	TRF
GM-NY	Greg Monti, Bayville, NY	TRF
WPT-DC	William P. Townshend, Washington, DC	TRF
WPT-MN	Minneapolis, MN	
RA-MA	Ray Arruda, Cush Net, MA	Didn't turn it on yet.



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WKEE
am-fm

INTERNATIONAL DX DIGEST

CHUCK HUTTON
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 (404) 633-1198
 BEFORE 2300 ELT

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

First of all, a report from Rick Kenneally taken during a trip around Florida. Two stars are loggings from Orlando, one star is Sanibel Island near Fort Myers, and no star is Marathon Key. The receiver is a modified TRF.

- 525* COSTA RICA TICAL Cartago R. Rumbo very faint w/SS vocals, mucho storm QRN 0422 6/19.
 540* MEXICO XEWA San Luis Potosi good in WCOT null w/XEW ID, lotsa TVI.
 550* CUBA Finar del Rio Q'AN SS talk followed by EE rock mx, very good 0309 6/17.
 560 JAMAICA Kingston JBC poor w/WQAM, "YMCA" //750 0402 6/21.
 570* CUBA QMHI Santa Clara //550 w/EE rock but definitely stronger than 550 0310 6/17.
 575* COSTA RICA TIRN San Jose very good w/slow cl mx 0307 6/17.
 580 PUERTO RICO WKAQ San Juan w/very fast SS talk about Nicaragua and several "WKAQ, Radio Reloj" ID's, country #20 from down here 0409 6/24.
 590** CUBA QMKV San German R. Rebelde very good w/male SS vocals 0418 6/16.
 600** CUBA QMW San Antonio de las Vegas //590 but slightly off freq and suffering from het 0420 6/16.
 610* CUBA QMHV Trinidad fair u/WIOD w/up tempo SS vocals 0313 6/17.
 620 NICARAGUA YNM Managua very good, dominant most nights, march mx and ID 0347 6/21. Were any of the Nicaraguan stns controlled by the rebels? If so, which ones? (The only known Sandinista stn was R. Sandino which operated just above the 40 meter ham/SW band. Several of the AM stns were sympathetic to the rebels and were blown up or removed from the air-CH)
 630** CUBA QMHQ Santa Clara R. Liberacion good //590 and 600 w/LV de Cuba pgm 0422 6/16.
 640** CUBA QM La Habana R. Liberacion great signal //630 w/slow SS talk by male 0426 6/16.
 650 DOMINICAN REPUBLIC HIAT Santo Domingo faded in good for a couple of minutes w/SS vocals and Universal ID's 0414 6/24.
 660 UNID many LV de la Gran Ciudad ID's, mostly alone on channel 0600 6/25. (Well, it's not the Cuban or the YV so it's probably Mexico City rather than Cali-CH)
 650 COSTA RICA TIBAS San Jose R. Monumental very good w/ID in middle of song 0547 6/25.
 655* EL SALVADOR YSS San Salvador fair to good w/easy SS vocals, hets from 650 and 660 very strong 0314 6/17.
 660* CUBA QMHS Santa Clara R. Progreso good w/moderate SS vocals and bad TVI 0317 6/17.
 670* CUBA QMKP San Pedro de Cacocum R. Progreso fair o/u WMAQ //660 0318 6/17.
 675* COSTA RICA TIJC San Jose good w/reverb "Sonora" ID and many SS ads 0324 6/17.
 680 HONDURAS HRN Siguatepeque a surprise w/nx about Nicaragua and several "H-R-N" ID's 0421 6/24, seems strong for 1 kw listed.
 690* CUBA QMBC La Habana R. Progreso good w/slow SS vocals //640 0328 6/17.
 700* COLOMBIA HJXC Cali R. Sutatenza great signal w/fast SS talk and many ID's 0320 6/17.
 700 CUBA QMJT Ciego de Avila R. Progreso noted w/fair signal //690, some LA QRN: 0326 6/22.
 710 MEXICO XEMP Mexico DF weak u/WGBS OC w/very clearly spoken calls and fast SS talk 0648 6/25.
 720** CUBA QMGN Colon very good w/man and woman talking about Nicaragua 0434 6/16.
 725* COSTA RICA TILX San Jose R. Columbia good w/SS talk about Panama and ID 0050 6/19.

MEET US IN ST. LOUIS

- 730** MEXICO XEX Mexico DF strong w/ XEX ID into slow SS vocals 0436 6/16.
- 740* CUBA QMJL Camaguey R. Liberacion very good w/ID, SS talk in which the word "hoy" was repeated twice, then into SS vocals 0159 6/20.
- 740* VENEZUELA YVNC Maracaibo ID only heard mixing w/Cuba, heard this while sitting on the beach 0158 6/20.
- 750 JAMAICA JBC Point Galena fair u/WSB and Nicaragua w/full list of JBC stns 0400 6/21.
- 750* NICARAGUA YNX Managua very good in WSB null w/"Radiodifusora de Nicaragua" ID 0118 6/17.
- 760 COLOMBIA HJAJ Barraquilla great o/everything w/several RCN ID's 0539 6/25.
- 760** CUBA QMCD La Habana Reloj Nacional good w/usual pgm 0439 6/16.
- 760 DOMINICAN REPUBLIC HICO Santo Domingo suspected fair o/QMCD and u/HJAJ w/R. Santo Domingo ID between songs 0538 6/25.
- 770 PANAMA HOL47 Chitre R. Libertad good w/TC and news then mx 0117 6/21.
- 775* COSTA RICA TIW San Jose R. Uno weak u/780 slop and TVI but bits of SS talk readable 0118 6/19.
- 780** CUBA QMJN Camaguey R. Rebelde blowing away channel w/world rx 0442 6/16.
- 790 CUBA QMCH La Habana very good w/mx then SS talk and mentions of Habana 0148 6/21.
- 800** NETHERLANDS ANTILLES PJB Bonaire outrageous signal w/TWR ID from "Island of the Flamingos" 0445 6/16.
- 810 BAHAMAS ZNS3 Freeport good o/fierce SAH w/"One Day at a Time" and mention of Cincinnati, Ohio. //1540 0427 6/24.
- 820* CUBA QM?? La Habana R. Ciudad de la Habana great w/slow SS vocals, what is this stn's power? 1403 6/17. (Don't know, will look it up sometime soon and put it in a list of Cuba info-CH) ^{1, kw-}
- 830* DOMINICAN REPUBLIC HJJB Santo Domingo very good w/ads for places in Santo Domingo then ID w/calls 0400 6/17.
- 834 BELIZE R. Belize good w/man reading letters, first night heard 0243 6/22, heard a couple of nights later w/powerful signal obliterating 830 and 840.
- 840 CUBA QMKC Santiago fair w/LV de Cuba pgm //640 0607 6/25.
- 840* CUBA QMHW Santa Clara very good w/"Esta es Dobleve", never heard in Ohio and heard in broad daylight here 1356 6/17.
- 850 CUBA calls and location unknown unlisted R. Progreso outlet here //690 and fighting TGX 0608 6/25.
- 850 GUATEMALA Guatemala City TGX good w/call letters and mention of Guatemala 0610 6/25.
- 860* CUBA QMCA La Habana R. Metropolitana good w/ID then US rack mx 1545 6/18.
- 860* CUBA Ciego de Avila QMJY R. Reloj strong but fierce SAH messing up audio 0358 6/17.
- 870 CUBA QMDN Guantanamo R. Progreso weak but readable w/light instrumentals //880 0632 6/25.
- 880** CUBA QMAF Pinar del Rio good w/talk by female and mentions of Santiago de Cuba 0457 6/16.
- 890 COLOMBIA HJCE Bogota LV de Bogota good w/uptempo LA mx, ID, and TC 0622 6/25.
- 900** CUBA QMJV Ciego de Avila fair u/XEW w/talk by man in SS 0455 6/16.
- 910 VENEZUELA YVRQ Maiquetia totally dominant w/Aeropuerto ID's after each song, modulation rather fuzzy 0643 6/25.
- 920* COLOMBIA HJAE Cartagena superloud w/full ID and reverberated "Cartagena" 0443 6/19.
- 930* CUBA La Kaiba QM?? fair, mixing w/many other LA's, usual pgm 0434 6/19.
- 930* MONTSERRAT R. Antilles great in Cuba null w/SS pgm and R. Antilles Internacional ID, this was a VERY pleasant surprise 0438 6/19.
- 940* CUBA calls and location unknown, R. Reloj on top of channel w/usual pgm 0451 6/19.
- 944* HONDURAS HRYW Regucigalpa fair w/piano mx, strohg het from 940 0205 6/20.
- 950 CUBA La Habana QMBF great w/"Esta es QMBF, Radio Musical Nacional" 0258 6/21.
- 960 COLOMBIA HJHN Magangue R. Sutatenza good w/ID's and mx 0159 6/21.
- 980 CUBA La Habana QMCK loud w/many mentions of Habana 0201 6/21.

- 980 VENEZUELA YVTB Maracaibo fantastic signal w/loud "Exitos Novcientos Ochenta" ID and easy SS vocals 0719 6/25.
- 990 MEXICO XET Monterrey good w/many mentions of Mexico and Monterrey 0716 6/25.
- 990 VENEZUELA YVTA Barquisimeto R. Tricolor o/u XET w/mx and ID, weak 0714 6/25.
- 1000 COLOMBIA HJAR Cartagena great w/mentions of Cartagena and several RCN ID's 0155 6/21.
- 1000 MEXICO XEOY Mexico DF-R. Mil very weak u/Colombia w/whistle ID 0249 6/26.
- 1010 CUBA QMAW Guana R. Guama good //1020 w/uptempo LA vocals 0154 6/21.
- 1020* CUBA QMAB Bahia Honda very strong w/much SS talk and several R. Guama ID's 1526 6/18.
- 1020* VENEZUELA La Ascuncion YVRS R. Margarita ID given by man in fast SS 0435 6/18.
- 1030* CUBA QMAJ Pinar del Rio weak but readable //1020 w/mentions of Pinar del Rio and ID 1532 6/18.
- 1030 MEXICO XEQR Mexico DF R. Centro good w/man and woman talking anxiously about something 0404 6/17.
- 1040* CUBA QMCY La Fe R. Caribe good w/fast SS mx then mentions of Cuba and ID 2130 6/18.
- 1050* MEXICO XEG Monterrey good w/gospel mx then ID as "most powerful gospel station in the world" 0431 6/19.
- 1060* CUBA QMBQ La Habana R. Enciclopedia good w/easy instrumentals and mentions of Cuba 2147 6/18.
- 1070 CUBA QMKS Guantanamo good w/mentions of Cuba, TC, then call letters 0130 6/21.
- 1075 COSTA RICA TIFC San Jose Faro del Caribe fair w/Beethoven's Fifth 0135 6/21.
- 1080 HAITI 4VRD Port-au-Prince R. Nationale good w/woman in FF then beautiful mx 0132 6/21.
- 1090 UNID station here w/gig signal in KAAV null ID;ing w/reverberated "Romantica" before, during, and after every song. ID's during song sounds Costa Rican but nothing listed, 0500 6/26. (It's the TG-CH)
- 1100* COLOMBIA HJCN Bogota very good w/R. Reloj ID's, SS talk, and TC, no ZDK or WWWE 0438 6/18.
- 1100 CUBA La Habana QM?? R. Cadena Habana here //1120 w/full ID then SS talk 1559 6/21.
- 1100 CUBA QMHV Cienfuegos R. Ciudad del Mar good in Cadena Habana null w/full ID 1600 6/21.
- 1110* CUBA Banes QM?? R. Angulo fighting WBT w/mellow SS talk by man then slow instrumentals 0249 6/19.
- 1120 CUBA La Habana?? QM?? another unlisted R. Cadena Habana here //1100 but much stronger w/ID 1559 6/21. I'm assuming they're in Habana but I can't be sure.
- 1120* CUBA QMDL Holguin R. Angulo very faint u/KMOX but definite // to 1110 0255 6/19.
- 1130 DOMINICAN REPUBLIC HIRL Santiago R. Exitos very good w/several ID's and fast SS talk 0257 6/26.
- 1150* CUBA location and calls unknown, R. Bayamo I believe, full ID plus frequency but rather weak and fadey 0300 6/19.
- 1160* DOMINICAN REPUBLIC HIBG Santiago strong w/fast SS vocals and Radiolandia ID's 0254 6/17.
- 1170* COLOMBIA HJNW Cartagena LV de la Heroica here w/reverberated mentions of Cartagena 0431 6/18.
- 1170* HAITI 4VRS Port-au-Prince destroying channel w/mellow voiced man and slow FF vocals 0244 6/17.
- 1176* COSTA RICA Limon TIQ weak w/bits of audio drifting above het from Reloj 1180 0428 6/18.
- 1180* CUBA QMBD Isla de Pinos super loud w/regular rx 0509 6/16.
- 1180 CUBA QM?? Sancti-Spiritus good w/uptempo LA mx //1190 but weaker than 1190 1508 6/21.
- 1190 CUBA QM?? Sancti-Spiritus great but then off suddenly leaving carrier 1514 6/21.
- 1200 CUBA QMKL Santiago faint SS talk and time pips heard u/mess 0405 6/24. (There are other Cubans here-CH)
- 1205 CAYMAN ISLANDS George Town R. Cayman weak and //to superloud 1555 w/woman w/British accent giving rx 0312 6/22.
- 1210 VENEZUELA YWKN Coro R. Coro weak in WCAU null w/LA mx and ID 0307 6/26.

- 1220* CUBA unlisted Reloj Nacional stn buried u/mess but some talk and time pips audible 0225 6/17.
- 1220* CUBA Central Espana Q1GA w/EE disco mx //1230 0216 6/17.
- 1230* CUBA Central Australia QMGC R. Veinteseis //1220 but much weaker 0218 6/17.
- 1240 BAHAMAS ZNS2 Nassau great w/EE hits //1540 0725 6/25.
- 1240 CUBA La Jaiba CMGW R. Veinteseis great w/what sounded like a radio drama then ID 1456 6/21.
- 1240 GUATEMALA TGK Guatemala City R. Sensacion very good o/SAH w/fast SS talk and several ID's 0210 6/24.
- 1250 CUBA Caibarien QMHW Dobleve very good in middle of the day w/SS talk by woman and many ID's 1450 6/21.
- 1260* CUBA Consolacion del Norte QMAX R. Reloj bagged during hotel power failure in which all TVI and line noise were gone 2230 6/19.
- 1265* ST. KITTS Basseterre R. Paradise fair w/ee talk by man, low modulation level and hets made audio hard to read 0421 6/18.
- 1270* CUBA QMJG Camaguey very good w/musical notes rather than four pips after time tone 0419 6/18.
- 1280 CUBA calls and location unknown, another unlisted Reloj outlet here, slightly stronger than 1310 0533 6/26.
- 1290* CUBA Rancho Veloz QM?? Dobleve good w/radio drama "Los Hombres de ...", mx, then ID 2157 6/18.
- 1300 COLOMBIA HJOG Cartagena good o/strong SAH w/light LA mx and LV de las Antillas ID 0539 6/29.
- 1310* CUBA calls and location unknown, unlisted Dobleve outlet here w/great signal, SS talk, ID, and TC. This one ruled out any chance for Martinique 1450 6/19.
- 1310 CUBA calls and location unknown, R. Reloj outlet here, very weak, only time pips audible u/mess 0520 6/26.
- 1320 CUBA Pinar del Rio QMAL Reloj Nacional fair to good w/usual Pgm, much domestic QRM 0221 6/22.
- 1330 HAITI 4VJD Port-au-Prince R. Haiti-Inter strong w/FF talk by man 0306 6/21.
- 1335 COLOMBIA HJEN Cali R. La Fabulosa very good w/fast SS talk and ID, putting strong hets on both sides 0301 6/21.
- 1340 CUBA QMGU Central Espana R. Reloj time pips heard u/LA mess 0309 6/21.
- 1340 UNID someone here most of the night but never gives recognizable ID, few mentions of Colombia 0259 6/22 very strong, any ideas? (HJFG is the strongest HJ here-CH)
- 1350 VENEZUELA YVJ Cumarebo R. Vision Falcon great w/ID after every song 0112 6/24.
- 1380 DOMINICAN REPUBLIC HISC R. Nacional, Santiago ID surfaced above WLCY then faded into oblivion 0238 6/22.
- 1385* HAITI 4VARH Port-de-Paix poor to fair w/slow instrumentals then FF talk 0028 6/19.
- 1400 UNID loud R. Universal ID's given often but no mentions of country or city, who? 0313 6/21. (ex Em. Variedades, Colombia-CH)
- 1420 VENEZUELA YVZO Maracaibo R. Vision Zuliana faded up w/fast SS talk and mentions of Maracaibo 0251 6/22.
- 1430** CUBA Moron QM?? R. Surcos very good w/mx in SS 0504 6/16.
- 1440 COSTA RICA TI:VC Ciudad Quesada R. Monumental fair w/LA mx and ID, suffering hets 0235 6/25.
- 1460 CUBA La Habana QM?? R. Popular very good here every night w/many American hits and ID's after every song 0140 6/24.
- 1470 CUBA calls and location unknown, R. Veinteseis noted here very loud w/modern SS vocals 0415 6/23.
- 1500 MEXICO XERH Mexico DF good w/reverberated "R-H" ID then into more LA mx 0727 6/25.
- 1520 COLOMBIA HJLQ Barranquilla good w/calls and slogan, strong SAH making audio fuzzy 0158 6/24.
- 1525 COSTA RICA TLJC Turrialba good at peaks w/many ads, several mentions of Costa Rica and ID on the hour 0255 6/25.
- 1530 CUBA QMJX Moron heard calls and location but not slogan before fade-out 0202 6/24, heard Cuban NA at 0401 u/mess w/apparent s/off. Any info on this? (Sure, I heard and reported R. Moron here sometime last fall-CH)
- 1540** BAHAMAS ZNS1 Nassau fair to good w/EE talk then EE pop mx 0518 6/16.
- 1555* CAYMAN ISLANDS George Town R. Cayman very strong w/flute instrumentals 0101 6/17.

- 1560* CUBA Cardenas Q:GB good w/man and woman reading nx and giving time 2203 6/18.
- 1570 GUATEMALA Guatemala City TGVE good w/pgm "Buenos Noticias, Amigos" and mentions of Guatemala City 0340 6/21.

Ray Crawford passes along word that a May IDXD logging of 3ZE 873 is in error as the station is not on the air yet. A warrant for 3ZE is expected late this summer at the earliest.

Via Distance: Holland 675 Lopik will use 120 kw from October 1, 1979. Plevoland 747 will be 600 kw same date, ditto Plevoland 1008.

Hank Wilkinson verifies: 3YA Christchurch from CE H. Smith, 1YA 756 from B. Hartley, Senior Technician, 3ZA Greymouth from Fred Jacobs, Stn Manager, 2ZK 765 from G.K. Dearsley, Program Director, 4ZA 864 from Mr. Fergusin, Manager, 2ZB 1035 from N.H. Ellison, Tech Superintendent, 3WV Horsham from J. Lindsay, Regional Manager, 4MK 1026 from N.B. Jackson, General Manager, 2KP 684 ABC verie, 1XA 1476 from Mark Maclean, Engineer.

According to a French Guyana QSL pictured in the July FRENEX, the MW outlet on 1070 has raised power to 20 kw. Thanks to sharp eyed Al Merriman for digging this out.

Arctic Radio Club info: Morocco Tetuan 20 kw 1053 is now on the air, probably ex 1017. Tanger on 1053 seems to be off. Venezuela the new "Mundial" network first noticed by Cesar Objio is listed as: 960 YVSR R. Mundial 960, 990 YVTA R. Mundial Tricolor, 1000 YVNM R. Mundial Mil, 1010 YVQE R. Mundial Bolivar, 1020 YVRS R. Mundial Margarita, 1050 YVNO R. Mundial 1050, 1070 R. Mundial Zulia, 1080 YVNR R. Mundial 1080, 1150 YVMM R. Mundial Caribe. Italy has re-named it's programs: National Program is now Radiouno, Second Program is Radiodie, and Third Program is Radiotre. Saudi Arabia latest skeds: 0400-0600 1521, 900, 882, 585 and 549; 0600-0730 882, 594, 585 and 549; 0730--1100 594 and 549; 1100-1500 882, 594, 585 and 549; 1500-1700 1521, 900, 882, 585, and 549; 1700-2400 as above except 549. Taiwan some MW stations have now joined the 9 kHz plan: 594, 819 and 1008. Thailand has approved moving the 2 500 kw xmtrs from Tambon Salaya to Tambon Neng Khae in Saraburi. Colombia the new network "Grupo Radial Colombiano" consists of HJEL 620, HJLT 1550, HJCO 1130, HJFA 1480, HJQZ 1580, R. Olimpica de Cartagena (frequency unknown), and HJNL R. Sintonia.

EBU Monthly Report as printed by EBU: 596 Morocco Oujda still off freq, 1493 Morocco a stn still here, 1494 USSR Leningrad now 1000 kw, 1554 Gabon still here.

Dominican Republic changes via ARC and Richard Clark: 690 HIAW now 10 kw, 720 HIAQ now 5 kw, 760 HIPI R. Santo Domingo ex HIGO R. 760, 930 HIGK now 10 kw, 960 HIF now 5 kw, 980 HIFA ex 1330, 1030 HIDL now 10 kw, 1060 a CP for a HIJB relay, 1 kw, Barahona, 1070 HIBI now 10 kw, 1080 HEMC now RPQ La Cadena Azul, HIJA now 5 kw, 1100 HIRB ex HIRS, 1170 CP for a new stn in Monte Cristi, 1180 HIBE now 10 kw, 1290 HIRD will move to San Jose de las Matas, 1330 HIFA Moca, 5 kw, new, 1330 CP for a new stn in Santo Domingo, 1360 HIRD RTVD Monte Cristi .5 kw, 1370 HIFA Elias Pina 5 kw ex 1380, 1400 HIRD RTVD Pedernales ex 1410, 1410 HIAE La Gran Musical ex R.. Tricolor, 1410 HIRM now 1 kw, 1430 HIVE now 1 kw, HILF 1440 ex 1430, 1440 HIAK now 1 kw, 1460 HIAR ex 1450, 1470 HIVP La Voz de Nortena ex R. Cumbre, 1500 CP for a new stn in Higüey with .25 kw, 1525 HIPK assigned freq is 1410, 1540 HIFB La Reina ex R. El Mundo, 1550 CP for a 1 kw stn in San Juan, 1570 CP for Jarabacoa, 1590 HIDA now 5 kw, 1600 HIEG R. Alegria ex R. Femina.

New Zealand Radio DX League: Indonesia private stns can broadcast between 2200 and 1700 GMT only. South Korea HLCV 783 ex 540, HLSY 864 ex 1539 and 909 ex 1223, HLKD Masan 936 ex 1242 and Bo-eun 954 ex 1602, HLCS Sogcho 1170 ex 1008 and Yangju 1269 ex 1260, HLKN Mogpo 1467 ex 855, HLCQ 756 ex 765, HLCN 855 ex 1467, HLAN 1215 ex 909, HLAH 1224 ex 936. Philippines DENL 558 replaces DZHP 1170, DWJ 990 ex DWRT, DWRF 1470 replaces DWRE 1476, DYLA 1555 ex 1548.

Solomon Islands a new stn at Gizo is on with 10 kw. Brazil Radio Bras reports that Radio Nacional will broadcast during the day in Rio de Janeiro on 1130, exchanging frequencies with R. Ipanema, which will broadcast on 980. This is to allow R. Nacional to broadcast on 980 at night with its 600 kw xmtr. French Guyana 1070 s/on is 0900.

Via WRTH: Chile R. Universidad Tecnica Estado 1240 ex 1210. Dominican Republic 1410 stn name for Rio San Juan is R. Gri Gri. Colombia 1100 Em. Jose Antonio Galan ex 1360. Guyana GBS is sked 0755-0250 on 560/700 (observed on 705) per a QSL letter.

- 525 COSTA RICA TICAL Cartago R. Rumbo still on this new freq as of 7/24. (Thomas)
- 531 ALGERIA Ain Beida (ex 529) fair w/man in AA 0339 7/8. (Connelly)
- 535 GRENADE Mournie Rouge very good w/tropical mx and disco w/male anncr in Caribbean EE 0337 7/8. (Connelly)
- 540 COLOMBIA HJKA Bogota likely w/non-stop SS talk, numerous mentions of Bogota, poor to fair in QRN, dominant o/CBT 0041 7/8. (Connelly)
- 548 ALGERIA Oran poor w/male chant 0054 7/8. (Connelly)
- 555 ST. KITTS ZIZ Basseterre xlt w/calypso mx w/male vocal, WGAN pest nulled, 0057 7/8. (Connelly)
- 570 CUBA QMHI Santa Clara //590 and good o/other SS'er, lush Muzak-jazz 0335 7/8. (Connelly)
- 575 COSTA RICA TIRN R. Nacional 7/15 0135-0200, SS mx review on Nicaragua. Very good. (Krueger-Clearwater) Poor w/male dialogue 0225 7/9; good w/mellow SS vocals 0240 7/24. (Thomas)
- 580 PUERTO RICO WKAQ San Juan good w/ID jingle and SS talk, well o/second SS'er and WTAG 0110 7/8. (Connelly)
- 585 UNID Spain possible, although other Spanish stns were not heard: "Stay" by Jackson Browne briefly good, then faded into slop 0212 7/8. (Connelly)
- 590 CUBA o/u WEEI 0105 7/8. (Connelly)
- 595 DOMINICA Roseau fair w/soft rock 0101 7/8. (Connelly)
- 595 UNID very weak unreadable male smothered by the off-freq Cuban 0255 7/24. Dominica on late? (Thomas) There's someone else here also-CH
- 597 UNID het against Cuba 598 0102 7/8. (Connelly)
- 598 CUBA wreaking havoc here 2 kHz low, wasting 600 w/ferocious het; SS talk by man //590, audio severely compressed 0050 7/8. (Connelly)
- 598.9 CUBA San German still floating in the general area of its assigned freq as of 7/24. (Thomas)
- 630 NICARAGUA was only able to occasionally monitor this apparently pro-Somiza stn during the final days. Signal was similar in strength to the old YN 620 but used "aqui Radio America Informando (?)" ID's w/continuous mx format 0415 7/16. Gone after the fall. (Thomas) Also heard here, but did not catch the slogan-CH
- 645 UNID maybe Paraguay in there: low growl (2 carriers present), bits of mx 0133 7/8. (Connelly)
- 648 UNID het 0214 7/8. (Connelly)
- 650 VENEZUELA Maracay YVLH good w/R. Vision ID, SS talk o/the disco Dominican 0130, 7/8. (Connelly)
- 656 NEW ZEALAND 2YC Wellington with steady signal from 0904-0909 7/2 then into deep long afde. (Wilkinson)
- 660 MEXICO XEPRM Mexico DF pinning needle 0550 7/16 w/6-60 ID's and some very nice instrumentals. (Kenneally-Arkansas)
- 670 GUATEMALA Guatemala City La Fabulosa fair w/marimba melodies 0310 7/24. (Thomas)
- 700 COLOMBIA HJXC Cali leading the pack w/numerous SS ads, R. Sutatenza de Colombia ID, 0136 7/8. (Connelly)
- 702 AUSTRALIA 2BL Sydney was xlt on 7/7 at 1248 with "I Get the Blues" and other oldies. Heard again after 1301. (Wilkinson)
- 705 HONDURAS LV de Olancho presumed the one here w/forceful SS male and soft mx 0315 7/24. (Thomas)
- 725 SURINAM Paramaribo like a local w/disco hit 0125 7/8. Cnl'y)
- 730 COLOMBIA Bogota very good w/pop LA mx 0400 7/25. (Thomas)
- 735 ECUADOR Quito R. Melodia peaking to good w/SS male and vocal 0245 7/27. (Thomas)

- 756 NEW ZEALAND 1YA Auckland most consistent Zedder this year. Heard quite well on 6/17, 7/2 and especially good on 7/7. (Wilkinson)
- 765 EL SALVADOR YSKLD Usulután very poor 0405 7/25 w/tinkly bells mx. (Thomas)
- 765 SENEGAL Dakar fair w/AA style violin and flute mx 0030 7/8. (Connelly)
- 770 PANAMA HOL47 Chitre, R. Libertad very good w/mentions of several other stns and frequencies. WABC off (OC only) and HJKH still off frequency made this easy 0727 5/28. (Kenneally-Ohio)
- 775 COSTA RICA San Jose R. Uno fair 0407 7/25. (Thomas)
- 780 BRITISH VIRGIN ISLANDS ZEV1 Roadtown o/Cuba; slanning in w/Caribbean EE DJ, dedications list read, then calypso-reggae mx 0142 7/8. (Connelly)
- 800 NETHERLANDS ANTILLES PJB Bonaire loud w/piano mx and SS talk 0143 7/8. (Connelly)
- 810 BAHAMAS ZNS3 Freeport 0740 5/28 good in SP //1540. Power increase obvious. (Kenneally-Ohio)
- 815 UNID somebody new here w/weak carrier 0415 7/25 and male and female SS dialogue 0310 7/27. (Thomas)
- 819 AUSTRALIA 2GL Glen Innes heard between 1240 and 1244 7/7. Seemed to be in // to 828 and 837. (Wilkinson)
- 819 NEW ZEALAND 1YZ Rotorua 7/15 1048 noted on YC net again //657; This stn is by far the strongest from NZ audible here almost every morning, usually on National net though. (Vernon)
- 820 CUBA R. Ciudad de la Habana 7/15 1555-1605, one of the strongest on the coast w/old SS and US pops, male and female ID's. Xlt. (Krueger-Clearwater)
- 825 COSTA RICA San Jose TIOS Titania superb w/female SS vocals 0417 7/25. (Thomas)
- 828 AUSTRALIA 3GI Sale in // to 819 and 837 from 1240-1244 7/7. All three at fair volume with little or no static to speak of. (Wilkinson)
- 837 AUSTRALIA 4RK Rockhampton //819 and 828 1240-1244 7.7. (Wilk)
- 840 CUBA GRC Santiago R. Revolucion carrying LV de Cuba pgm 0630 5/21. Are all Revolutions AN? (Kenneally-Ohio) Yes-CH
- 873 AUSTRALIA 2GE Sydney assumed to be this Aussie 1244:20 on 7/7 with EE Aussie accent. (Wilkinson)
- 882 AUSTRALIA 4BH Brisbane in quite well off and on from 1232-1253 7/7 with good mx and EE anncs. Peaked at 1232, 1235, and 1253. Switched to other freqs during fades. (Wilkinson)
- 891 AUSTRALIA 5AN Adelaide with fair volume from 1255 to 1300 7/7. This 50 kw stn never really booms in. (Wilkinson)
- 930 DOMINICAN REPUBLIC HICK Ondas del Yaquis 7/17 0500-0513, pops, ID's between songs. Xlt, way o/Relej. (Krueger)
- 940 CUBA Relej 7/17 0513-0518 xlt w/usual mx. (Krueger)
- 940 MEXICO XEJ 7/15 0235-0244 ranchera trash, SS male DJ ID's. Xlt. (Krueger-Clearwater)
- 944 HONDURAS HRYW R. Panamericana 7/15 0244-0250, LA pops, mentions of Tegucigalpa but no ID. Fair. (Krueger-Clearwater)
- 945 ECUADOR Guayaquil noted for first time in a while 0428 7/25. (Thomas)
- 950 MEXICO NEWJ Nueva Rosita in a word... WOW! Strongest thing on band w/mucho mentions of Nueva Rosita, full ID w/calls, etc. and about 20 various ads 0640 7/16. If this is 100 watts its in the room next to me. (Kenneally-Arkansas) They raised power to 10 kw a few years ago-CH
- 960 MEXICO NEW Nuevo Laredo another superloud Mexican but nothing like NEWJ. Good w/mentions of Nuevo Laredo and what seemed to be a sports event 0647 7/16. (Kenneally-Arkansas)
- 975 COSTA RICA San Jose R. Centroamericana presumed w/weak SS male vocal 0435 7/25. (Thomas)
- 980 MEXICO which Mexican here plays a few notes on a calliope then a SID by a group of YL's? Heard well 0500 7/22 but can't make out this ID. (Kenneally-Arkansas)
- 1000 NEW ZEALAND 1ZD Paengaroa 7/15 1049 rr mx on Com. net, monster signal, jingle at 1050 mentioned "The Tonight Show". Best stn here for Com. net. (Vernon)
- 1030 MEXICO NEW R. Centro 7/15 0205-0233 SS mx, ads, ID "Nuevo R. Centro de Mexico" into pgm "Buenos Roches Musica". Xlt. (Krueger-Clearwater)
- 1055 COLOMBIA El Espinal presumed the weak carrier here 0512 7/25. (Thomas)
- 1100 MEXICO St. John's BDR well o/WAVE w/festive Caribbean mx influenced by 50's rock; het from something on 1101, 0159 7/8. (Connelly)

- 1100 COLOMBIA HJCN Bogota w/ranchero mx, ID by male as R. Reloj 6/25 0540 fair-good. (Townshend)
- 1155.2 EL SALVADOR YSCF San Miguel Ondas Orientales fair w/bongo or similar solo 0507 7/25. (Thomas)
- 1160 COLOMBIA HJAZ LV del Sinu Monteria good during semi-auroral cx w/fast SS talk and ID 0715 7/3. (Kenneally)
- 1165 ANTIGUA St. John's C.R.L. xlnr w/EE religion-pgm was "New Life Program"-address was PO Box 13, The Valley, Anguilla; at 0157 7/8. (Connelly)
- 1176 COSTA RICA TIQ Puerto Limon poor 0500 7/25. (Thomas) Fair w/SS talk then plaintive SS male ballad vocal 0156 7/8. (Connelly)
- 1205 CAYMAN ISLANDS GeorgeTown R. Cayman finally logged w/decent signal strength // to always powerful 1555 0411 7/7. (Kenneally)
- 1265 ST. KITTS Basseterre weaker than normal; usual evangelistic preaching format 0154 7/8. (Connelly)
- 1332 NEW ZEALAND Radio "I", Auckland 7/14 1028-rr mx, this stn seemed to be mixing w/someone else at times but who? (Vernon)
- 1404 GUINEA Conakry poor to fair w/native singing and drums, slopped by 1400 mess 0204 7/8. (Connelly) Conakry 4th TA, 4th continent, very strong but weak modulation, fast fading, mucho 1400 sloop 0615 7/7, gone by 0630. (Kenneally) At good (unbelievable) level this mid-summer's night w/monotonous drums 0501 7/25. (Thomas)
- 1430 CUBA Q1?? R. Surcos, Moron poor w/just anthem surfacing at 0930 5/26. (Kenneally) Surcos AN or at least one of the Cubans was w/LV de Cuba pgm 0716 7/5. I didn't think Surcos was AN. (Kenneally) They aren't. Apparently the xmtr is brought back after Surcos s/off for LV de Cuba-CH
- 1458 NEW ZEALAND 3YW Westport 7/14 R. Scenicland 0958 rr mx, noted on Com. net. 7/15 1044 instrumental mx, 1045 sports results, was on National net this date. (Vernon)
- 1476 NEW ZEALAND R. Hauraki, Auckland 7/14 0955 noted w/rr mx, annct at 0956, fair signal too! (Vernon)
- 1561 UNID very strong carrier (but very feeble audio-SS guitar) causing a terrific het against XEVIP 1560 0455 7/25. Couldn't get an ID. (Thomas) R. Espacial, Tunja, Colombia was here last winter-CH
- 1575 NEW ZEALAND R. Rhema, Christchurch 7/14 1044 brass band type mx, 1045 ID "Radio Rhema with more music for (or from?) the country". Country mx followed, fair signal to 1056 then gone. (Vernon)
- 1578a CUBA is this the R. Cadena Agramonte outlet or something else? In w/fair signal and bad het w/mention of Cuba and "Patria o Muerte" 0600 7/8. (Kenneally) Yes. Their evening pgm is rather lengthy news and is called "Radio Noticias", with Cadena Agramonte ID's being infrequent-CH
- 1580 MEXICO XEIM Hermosillo good w/man talking in fast SS mentioning several cities then the familiar SID 0420 7/19. (Kenneally-Ark)
- 1593 NEW ZEALAND Radio Pacific Auckland 7/14 1108+ signal was in and out, but format seemed MOR from albums, male annr spoke very briefly after every 3 records it seemed. 7/15 completely different format, 0934+ classical mx w/male annr, faded and lost, 0956-1007, then male called John noted w/tele-talk, topic was "Dreams", this noted till 1023½ then gone, MOR record played at 1020 between calls. (Vernon)

Mark Connelly	W. Yarmouth, Mass.	R390A, 2 37 m phased wires
Rick Kenneally	Arkansas and Cincinnati	DX160, S12
Terry Krueger	Casselberry, Fla.	QR666, TRF, NC183, 80&65' LW's
Gerry Thomas	Pensacola, Fla.	FR37, TRF, loop
Bill Townshend	Washington DC	TRF
Brian Vernon	Elsa, Yukon Terr.	DX150A, DX160, DX300, FRG7000, wire
Hank Wilkinson	Santa Rosa, Ea.	SP600, Sanserino loop

"Nos estamos recibido por preferencia, no por casualidad"

BRING AUCTION ITEMS
TO ST. LOUIS!

Chuck Hutton

540	QM..	Reloj	??	??
550	QM..	Rebelde	30000	Pinar del Rio
570	QMHI	Rebelde	30000	Santa Clara
580	QMJM	Rebelde	250	Ciego de Avila
	QMKF	Rebelde	5000	Baracoa
590	QMKV	Rebelde	150000	San German
600	QMW	Rebelde	150000	San Antonio de las Vegas
610	QMHV	Rebelde	1000	Trinidad
620	QMDQ	Rebelde	1000	Victoria de las Tunas (Moa)
630	QMHQ	Liberacion	50000	Santa Clara
640	QMJ	Liberacion	50000	La Habana
	QMDW	Liberacion	5000	Guantanamo
650	QMKU	Liberacion	1000	Santiago de Cuba
660	QMKG	Progreso	10000	Santa Clara
670	QMKP	Progreso	150000	San Pedro de Cacocum
680	QMHN	Progreso	1000	Cienfuegos
	QMDB	Progreso	1000	Santiago de Cuba
690	QMBC	Progreso	50000	La Habana
700	QMJT	Progreso	1000	Ciego de Avila
720	QMGN	Rebelde	30000	Colon
730	QMKJ	Liberacion	10000	Holguin
740	QMAQ	Liberacion	30000	Pinar del Rio
	QMJL	Liberacion	10000	Camaguey
760	QMCI	Reloj Nacional	5000	La Habana
770	QMKB	Revolucion	5000	Las Mercedes
780	QMJN	Rebelde	30000	Camaguey
790	QMCH	Cadena Habana	10000	La Habana
810	QMJE	Progreso	1000	Camaguey
820	QMDT	Progreso	1000	Bayamo (Moa)
	Q1..	Ciudad de la Habana	??	??
840	QMHW	Dobleve	10000	Santa Clara
	QMKC	Revolucion	1000	Santiago de Cuba
	Q1..	LV de Cuba	??	?? (probably QMKC)
850	QMDC	Revolucion	5000	Holguin
	Q1..	Progreso	??	??
860	QMCA	Metropolitana	1000	La Habana
	QMJJ	Reloj Nacional	1000	Ciego de Avila
870	QMDN	Rebelde	5000	Guantanamo
	QMHB	Progreso	1000	Sancti-Spiritus
880	QMFA	Progreso	30000	Pinar del Rio
890	QMHD	Musical Nacional	1000	Santa Clara
	QMDZ	Musical Nacional	250	Santiago de Cuba
900	QMJV	Liberacion	1000	Ciego de Avila
910	QMFA	Cadena Agramonte	5000	Camaguey
930	QMGL	Reloj Nacional	1000	Matanzas
	Q1..	Reloj Nacional	??	La Kaiba
	QMKN	Rebelde	1000	Santiago de Cuba
	QMJD	Musical Nacional	250	Ciego de Avila
940	QMHH	Ciudad del Mar	250	Cienfuegos
	Q1..	Reloj Nacional	??	??
950	QMFB	Musical Nacional	1000	La Habana
	QMDU	Progreso	250	Guantanamo
980	QMCK	COCO	5000	La Habana
	QMDJ	Revolucion	1000	Guantanamo
	QMNR	Revolucion	1000	Moa
990	QMAS	Guama	1000	Pinar del Rio
1000	QMJB	Musical Nacional	1000	Camaguey
	QMJD	Musical Nacional	250	Ciego de Avila
	QMAG	Guama	1000	San Cristobal (Bahia Honda)
	Q1..	Reloj	??	??
1010	QMKN	Musical Nacional	1000	Holguin
	QMFA	Guama	250	Guane
	QMFA	Guama	10000	Guane
	Q1..	Reloj Nacional	??	??
1020	Q1..	Guama	??	??
1030	QMAG	Guama	1000	Pinar del Rio
1040	QMFW	Caribe	10000	La Fe
	QMEN	Caribe	1000	Isla de Pinos

1060	Q:KB	Revolucion	5000	Baracoa
	Q:MBQ	Enciclopedia	1000	La Habana
1070	Q:KKS	Popular	1000	Guantanamo
1090	Q:JJB	Musical Nacional	250	Camaguey (ICRT lists Q:HB)
1100	Q:..	Cadena Habana	??	??
	Q:MHU	Ciudad del Mar	1000	Cienfuegos
1110	Q:..	Angulo	10000?	Banes
1120	Q:..	Cadena Habana	??	??
	Q:MDL	Angulo	1000	Holguin
1130	Q:SHA	Onda Musical	250	Camaguey
1140	jammer	250	La Habana
	Q:MKJ	Camaguey	1000	Camaguey (reported carrying Reloj)
	Q:..	Bayamo	10000?	Media Luna
1150	Q:..	Bayamo	??	??
1160	Q:..	unid	??	??
1160	Q:AD	Artemisa	500	Artemisa
1170	Q:..	unid	??	??
1180	Q:EM	Reloj Nacional	1000	Isla de Pinos
	Q:..	Sancti-Spiritus	??	Sancti-Spiritus
1190	Q:JJP	Surcos	1000	Ciego de Avila
	Q:..	Sancti-Spiritus	??	Yaguajay
1200	Q:BS	Ariguanabo	200	San Antonio de los Banos
	Q:..	Sancti-Spiritus	??	Placetas
	Q:KW	Mambi	250	Santiago de Cuba
	Q:..	Reloj Nacional	??	??
1210	Q:KD	Revolucion	10000	Holguin
1220	Q:..	Reloj Nacional	??	??
	Q:GY	Veintiseis	10000	Perico (Central Espana)
1230	Q:GM	Veintiseis	3000	Jaguey Grande (Central Australia)
1240	Q:GW	Veintiseis	500	Matanzas (La Jaiba)
	Q:KE	Revolucion	250	Victoria de las Tunas
1250	Q:HS	Dobleve	1000	Caibarien
	Q:KA	Reloj Nacional	250	Guantanamo
1260	Q:AX	Reloj Nacional	1000	Consolacion del Norte
	Q:HI	Dobleve	250	Sancti-Spiritus
	Q:HV	Dobleve	250	Trinidad
	Q:DE	Reloj Nacional	250	Bayamo
1270	Q:JG	Reloj Nacional	10000	Camaguey
	Q:GH	Veintiseis	1000	Torriente
1280	Q:HM	Reloj Nacional	1000	Santa Clara
1290	Q:..	Dobleve	??	Rancho Veloz
	Q:..	unid	??	??
1300	Q:JQ	Nuevitas	250	Nuevitas
1310	Q:HK	Reloj Nacional	1000	Cienfuegos
	Q:JW	Santa Cruz	250	Santa Cruz del Sur
	Q:..	Dobleve	??	??
	Q:..	Revolucion	??	??
1320	Q:AL	Reloj Nacional	250	Pinar del Rio
	Q:DD	Revolucion	250	Bayamo
1330	Q:JS	Reloj Nacional	1000	Ciego de Avila
	Q:DO	Banes	250	Banes
1340	Q:GU	Reloj Nacional	250	Colon (Central Espana)
	AFR	Armed Forces Radio	1000	Guantanamo
1350	Q:KY	Puerto Padre	250	Puerto Padre
1360	Q:BL	Internacional	1000	La Habana
1370	Q:DV	Santiago de Cuba	500	Santiago de Cuba
1390	Q:BG	Popular	250	La Habana
	Q:BT	Jaruco	200	Jaruco
	Q:KX	Bayamo	250	Bayamo
1400	Q:AG	Musical Nacional	250	Consolacion del Sur
	Q:GX	Musical Nacional	250	La Jaiba
1410	Q:AD	Pinar Musical	1000	Pinar del Rio
1420	Q:DX	Baracoa	1000	Baracoa
	Q:..	Reloj Nacional	??	??
1430	Q:..	Surcos	??	Moron
1440	Q:BU	Guines	200	Guines
1450	Q:JO	Maboas	1000	??
1460	Q:GE	Popular	1000	La Habana
1470	Q:GB	Ciudad Bandera	1000	Cardenas
	Q:..	Veintiseis	??	??
	Q:..	Mayari	??	Mayari
1480	Q:DF	Manzanillo	500	Manzanillo (ICRT says on 1590)

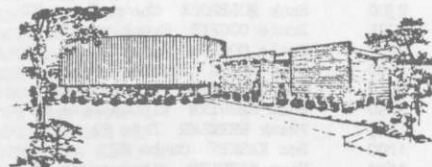
1490	Q:..	Reloj Nacional	??	??
	Q:..	??	??	unid in east Cuba
	Q:BW	Camoa	??	San Jose de las Lajas
1520	Q:KT	Victoria	1000	Victoria de las Tunas
1530	Q:JX	Moron	1000	Moron
1560	Q:GB	Reloj Nacional	250	Cardenas
1578	Q:..	Cadena Agramonte	??	??
1590	Q:DF	Manzanillo	500	Manzanillo
????	Q:..	Victoria de Giron	??	Matanzas province

Several notes: (1) where there is a second location in parentheses, the second is the one supplied by the ICRT. The same is also true for a second set of call letters. Monitoring information was chosen as the first choice because it is more reliable, (2) "Radio" should be prefaced before all the slogans in the third column except Dobleve, Reloj Nacional, Armed Forces Radio, Onda Musical, and unid, hi. (3) call letter info is in somewhat of a mess. Witness 1460 and 1560. Calls for the Guama outlets are also not certain. (4) R. Victoria de Giron is on the air per announcements heard over the air on other stations but further details are not available. (5) note that there are a handful of unid Reloj Nacional outlets. All of these have been heard in the wee hours of the morning and are possibly transmitters listed on the frequency that are pressed into service as Reloj Nacional relays after the normal program has signed off the air. The same is true for the La Voz de Cuba relays. (6) special thanks to Rick Kenneally, Ron Schatz, Chris Baskind and Terry Krueger who contributed some loggings through IDX.

MAY 31, 1979

"Perfect Balance" 1450 KC
WCVS

3055 SOUTH FOURTH STREET / SPRINGFIELD, ILLINOIS 62708 / DIAL 544-9855
 AN ABC AFFILIATE / 1000 WATTS, NON-DIRECTIONAL / P.O. BOX 2697



HARLEY E. STEWARD
 4220 FRENCH ST.
 ERIE, PA.

DEAR HARLEY,

THANKS FOR YOUR REPORT. THIS WILL VERIFY THAT HARLEY E. STEWARD HEARD WCVS IN SPRINGFIELD, ILLINOIS, IN ERIE, PENNSYLVANIA, MONDAY, MAY 28, 1979 FROM 1:39 AM TO 1:48.5 AM EDT.

THE PROGRAM WAS A FREQUENCY CHECK. POWER USED 1000 WATTS. TRANSMITTER HARRIS MW-1. TOWER 415 FOOT SELF SUPPORTING.

YOURS IS THE FARTHEST REPORT RECEIVED SO FAR HARLEY. OTHER REPORTS FROM CINCINNATI, COLUMBUS, CHICAGO, BRANDENBURG, KENTUCKY.

ITS ALWAYS A PLEASURE TO VERIFY FOR A FELLOW NRC MEMBER AND I AM GRATIFIED THAT SO MANY WERE ABLE TO HEAR THE TEST.

THANKS AGAIN AND GOOD LUCK IN FUTURE DX.

Marty Wright
 MARTY WRIGHT
 NEWS DIRECTOR AND VERIE SIGNER
 WCVS RADIO
 SPRINGFIELD, IL.

GRAVEYARD DX ACHIEVEMENTS

BILL HALE
1451-B FAITH DRIVE
RANTOUL, ILL. 61866

Announcement! Announcement! The format of Graveyard DX Achievements is changing, in response to the recommendation of several members. After consultation with HQ, I have made the decision to go ahead with the change as of the October column. This is when the 1230 listing would start the cycle over, so it makes sense to start the new format there. The difference will be the listings will include the furthest logging of each station on each of the GY channels. I have gone through the listings as I have them now, and will use that data as basis for the new format. Each station will be listed once (except in the case of ties). One DXer may be listed several times as a record holder. I will continue the pre- and post-1960 break out. With the new season just around the calendar, get what you think are distance records on each of GY stations that you have logged. Also, look through the past issues of DX News where the GYDXA column has appeared. This will give all who participate something to shoot for. As an example, here is what the new format will look like:

Station	City	DXer	City	Distance
WAAA	Aaytown, AL	John Johnson	Podunk, PA	600
WBBB	Beeville, NB	Chuck Steak	River City, IA	85
...and so on.				

This is the last appearance of GYDXA in the present format. Next month the Grand Totals will appear. This listing will not change.

1490 kc -pre 1960

Distance	DXer and location	Station and location
5000	Norm MAGUIRE E. Hartford CT	KTOH Lihue HI
3690	Gene ALLEN Vallejo CA	WECW Mayaguez PR
2640	Gene ALLEN Vallejo CA	CMOX Havana CUBA
2400	Norm MAGUIRE E. Hartford CT	KVOE Santa Ana CA
2400	Stan MORSS Bradford MA	KDB Santa Barbara CA
2375	Ron SCHILLER Avenel NJ	KBRO Bremerton WA
2300	Hank HOLBROOK Chevy Chase MD	KWIK Burbank CA
2275	Ernie COOPER Brooklyn NY	KPQ Wenatchee WA
2200	Ernie COOPER Brooklyn NY	KWVB Walla Walla WA
2100	Stan MORSS Bradford MA	KYCA Prescott AZ
2010	Ralph SPERRY Fairfield CT	KYCA Prescott AZ
1850	Norm MAGUIRE Albuquerque NM	WIKE St Johnsbury VT
1785	Frank WHEELER Erie PA	KYCA Prescott AZ
1600	Don KASKEY Omaha NB	CMOX Havana CUBA
1500	Norm MAGUIRE Albuquerque NM	WESB Bradford PA
1500	Norm MAGUIRE Albuquerque NM	WMRF Lewistown PA
1430	Don KASKEY Galva IA	KAFP Petaluma CA
1265	Frank WHEELER Erie PA	KNEL Brady TX
775	Pete TAYLOR Miami FL	WEL0 Tupelo MS
700	Pete TAYLOR Durham NC	KTTR Rolla MO
400	Pete TAYLOR Chattanooga TN	WTMV E. St. Louis MO
400	Pete TAYLOR Chattanooga TN	KOTN Pine Bluff AR

1490 kc-post 1960

1600	Hank HOLBROOK Chevy Chase MD	WMDD Fajardo PR
1225	Rick CARR Bloomington IL	KCUZ Clifton AZ
1225	Ernie COOPER Provincetown MA	WKEM Immokalee FL
1180	Ralph SPERRY Fairfield CT	WTUP Tupelo MS
1170	Jeff KOSNETT Evanston IL	WMFM Miami Beach FL
1100	Russ EDMUNDS Parsippany NJ	KXRA Alexandria MN
1100	Alan IMPRESCIA New York NY	WMFM Miami Beach FL
1100	Dave FOX Reading PA	WKEM Immokalee FL
1090	Russ EDMUNDS Kinnelon NJ	WKEM Immokalee FL
1050	Andy RUGG Point Claire PQ	KXRA Alexandria MN
1010	Alan IMPRESCIA New York NY	WTRL Bradenton FL
995	Rich EDDIE St Louis MO	WKEM Immokalee FL
910	Ernie COOPER Provincetown MA	WSNT Sandersville GA
895	Dan PHILLIPS Cookeville TN	KXRA Alexandria MN
875	Mike HEPPE Houston MS	KRTN Raton NM
870	Ron MUSCO Windsor CT	WMOG Brunswick GA
860	Russ EDMUNDS Glen Rock NJ	WKRO Cairo IL
860	Rick CARR Bloomington IL	KRTN Raton NM
860	Debra HIDDEN Orlando FL	WUSS Atlantic City NJ
825	Tom SUNDSTROM Willingboro NJ	WDXL Lexington TN
805	Jerry STARR Hubbard OH	KXRA Alexandria MN
805	Dan PHILLIPS Clinton TN	KTOP Topeka KS
800	Bill HARDY Aberdeen WA	KDB Santa Barbara CA
790	Wayne HEINEN Colorado Springs CO	WDBQ Dubuque IA
785	Jerry STARR Hubbard OH	KBON Omaha NB
765	Robert WIEN San Jose CA	KVAC Forks WA

765	Robert WIEN San Jose CA	KCUZ Clifton AZ
755	Bill HARDY Aberdeen WA	KWAC Bakersfield CA
750	Andy RUGG Point Claire PQ	WOPI Bristol TN
750	Jerry ROBERTSON Crosswell MI	KTOP Topeka KS
735	Morris SORENSSEN God's Narrows MB	KXRA Alexandria MN
715	Gary ATKINS Louisville KY	KXRA Alexandria MN
700	Wayne HEINEN Colorado Springs CO	KXRA Alexandria MN
695	Dave SCHMIDT New Castle DE	WMOG Brunswick GA
685	Tom SUNDSTROM Stockton NJ	WDXB Chattanooga TN
680	Mike HEPPE Houston MS	WKEM Immokalee FL
680	Gary ATKINS Louisville KY	KDOK Tyler TX
680	Tim KERFOOT Toronto ON	WHSJ Wilmington NC
675	Stephen MCINTIRE Des Moines IA	WSEB Sutton WV
675	Dave SCHMIDT New Castle DE	WMOG Brunswick GA
670	Tim KERFOOT Weston ON	WHSJ Wilmington NC
630	Dave FOX Reading PA	WDXB Chattanooga TN
620	Jeff FALCONER Clinton ON	WDXB Chattanooga TN
610	Jerry ROBERTSON Crosswell MI	WFLB Fayetteville NC
575	Bill TOWNSHEND Washington DC	WMOG Brunswick GA
550	Rich EDDIE St Louis MO	KXRA Alexandria MN
550	Frank DAILEY Preston CT	WMOA Marietta GA
540	Nancy HARDY Aberdeen WA	KTOB Petaluma CA
530	Nancy HARDY Aberdeen WA	KOWL South Lake Tahoe CA
530	Ron MUSCO Windsor CT	WABJ Adrian MI
515	Forest OSBORN Hooker OK	KCUZ Clifton AZ
515	Debra HIDDEN Orlando FL	WDXB Chattanooga TN
500	Karl JETER Atlanta GA	KTTR Rolla MO
490	Paul MOUNT Nelsonville OH	WYTL Oshkosh WI
470	Morris SORENSSEN Leaf Rapids MB	CJSN Shaunavon SA
430	Harry HAYES Thornhurst PA	WABJ Adrian MI
430	Paul MOUNT Teaneck NJ	WXIT Charleston WV
425	Karl JETER Atlanta GA	KOTN Pine Bluff AR
420	Brett HANAVAN Chula Vista CA	KCUZ Clifton AZ
415	Bryan LEE Brooklyn CT	CHYM Kitchener ON
405	Jeff FALCONER Clinton ON	WSIP Paintsville KY
400	Harry HAYES Thornhurst NC	WSSB Durham NC
400	Forest OSBORN Hooker OK	KLNG Omaha NE
385	Bill LACKEY Kingsville TX	KBST Big Spring TX
355	Bruce WINKLEMAN Man WV	WAJF Decatur GA
350	Brett HANAVAN Chula Vista CA	KAIR Tucson AZ
350	Gene NIX Billings MT	KVOG Ogden UT
330	Stephen MCINTIRE Des Moines IA	WOPA Oak Park IL
325	Paul MOUNT Nelsonville OH	WMPX Midland MI
300	Paul SWEARINGEN Moran KS	KOTN Pine Bluff AR
280	Mark CONNELLY West Dennis MA	WUSS Atlantic City NJ
280	Dave YOCIS Fairfield CT	WBTA Batavia NY
270	Jeff FALCONER Evanston IL	WOMI Owensboro KY
270	Paul MOUNT Teaneck NJ	WPOR Portland ME
270	Pat HARTLAGE Louisville KY	WDXB Chattanooga TN
270	Gene NIX Billings MT	KNDC Hettlinger ND
265	Pat HARTLAGE Louisville KY	WAJF Decatur AL
255	Bill TOWNSHEND Washington DC	WXIT Charleston WV
250	Dave YOCIS Fairfield CT	WTVL Lewiston ME
245	Stephen PONDER Ft Worth TX	KBST Big Spring TX
240	Bill REGAN Syracuse NY	WBCB Levittown PA
230	Frank DAILEY Preston CT	WBCB Levittown PA
225	Mark CONNELLY Shag Harbour NS	WPOR Portland ME
215	Bryan LEE Brooklyn CT	WUSS Atlantic City NJ
190	Bill LACKEY Kingsville TX	KNOW Austin TX
190	Bill REBAN Syracuse NY	WGCH Greenwich CT
185	Stephen PONDER Ft Worth TX	KNOW Austin TX
175	Larry VAN HORN Millington TN	WAJF Decatur AL
170	Bruce CONTI West Warwick RI	WCSS Amsterdam NY
160	Bruce CONTI West Warwick RI	WPOR Portland ME
160	Pete TAYLOR San Francisco CA	KOWL Bijou CA
140	Bill HALE Ft Walton Beh FL	WLOX Hilo HI
95	Bill WURTZEL Passaic NJ	WAZL Hazelton PA
75	Jeff KOSNETT Chicago IL	WGEZ Beloit WI
65	Bill WURTZEL Asbury Park NJ	WUSS Atlantic NJ
60	Larry VAN HORN Millington TN	KDRS Paragould AR
50	Don DAVIS Warner Robins GA	WSNT Sandersville GA
50	Don DAVIS Warner Robins GA	WMJM Cordele GA
40	Brian BERSACK Columbus OH	WWRN Marion OH

That's it for 1490, folks. Don't forget to get your updated totals in for next months tally. I hope to hear from many GY DXers with their feats for the new formatted GYDXA. Until next time.....

Bill

APPLICATION STATUS...

ACCEPTED FOR FILING...

540	*	Pinehurst NC	D3	1000/	850	+WCTN	Potomac-Cabin John MD	D3	2500/
620	*	Windsor CT	U4	500/1000	1000	+WRYZ	Jupiter FL	U4	1000/250
670	*	Hilo HI	U1	10000/10000	960	*	Seattle WA	U2	5000/5000
680	*	Pineville LA	D1	250/	970	+WIIN	Prichard AL	D1	2500/
690	*	Marshall MI	U4	250/250	990	*	La Follette TN	D3	1000/
710	*	Phoenixville PA	D3	1000/	1000	*	Atlanta GA	D1	5000/
720	*	Bald Knob AR	D3	250/	1010	+KIQI	Miami FL	U4	5000/5000
740	*	Paris TN	D1	1000/	1050	+KWSO	(two applications for WFAB facilities)	U4	1000/250
770	*	Las Vegas NV	U2	50000/50000	1060	*	Jupiter FL	U4	1000/250
790	*	Zumbrota MN	D3	250/	1070	*	Murray KY	U4	250/250
800	*	Martinsburg WV	D3	500/	1080	+KWEL	Carlyle PA	D1	1000/
810	*	Hudson WI	D3	500/	1090	+WKKQ	Paris TN	D3	500/
820	*	Valdez AK	U1	1000/500	1110	+WFLR	Odessa TX	D1	250/
850	*	Heath OH	U3	500/500	1130	*	Hayward CA	U4	50000/25000
860	*	Ashland City TN	D3	500/			Wasco CA	D3	5000/
880	*	Sauk Rapids MN	D3	2500/			Flemingsburg KY	D3	500/
900	*	Jackson KY	D1	5000/			Flemingsburg KY	D1	1000/
910	*	Fairbanks AK	U1	10000/1000			Paynesville MN	D1	5000/
920	*	Charlotte TN	D1	5000/			Winters TX	D1	2500/
930	*	Fairview TN	D1	500/			Cambridge MN	D3	10000/
940	*	Aguaadilla PR	U3	5000/5000			Midland TX	D1	2500/
950	*	Dunedin FL	U4	1000/1000			Kissimmee FL	U4	25000/2500
960	*	Kahului HI	U1	5000/5000			Hibbing MN	U2	10000/5000
970	*	Nashua NH	D1	1000/			Denver CO	U4	50000/1000
980	*	(four applications for WOTW facilities)					Fort Wayne IN	U4	1000/1000
990	*	Wisconsin Dells WI	D1	1000/			Gonzales LA	D3	10000/
1000	*	El Cajon CA	U4	5000/5000			Albuquerque NM	U4	50000/2500
1010	*	Saloma KY	D3	500/			Plainview TX	U4	5000/500
1020	*	New City NY	U4	1000/1000			Roseville CA	U4	5000/1000
1030	*	Vancouver WA	U4	5000/5000			Noblesville IN	D3	1000/
1040	*	(four applications for KISN facilities)					Salem NH	D3	25000/
1050	*	Palm Springs CA	U4	5000/1000			Alvin TX	D1	500/
1060	*	Shenandoah IA	U3	2500/2500			Alvin TX	D3	5000/
1070	*	Johnstown NY	U2	1000/1000			Batesville AR	D3	250/

as of July 10, 1979

Application Status - Page Two

1140	*	Dillon CO	D1	5000/	1260	+WGUY	Brewer ME	U2	5000/5000
1150	*	(two applications)			1270	*KPRM	Ripley MS	D1	500/
1160	*	Dillon-Frisco-Silverhorse CO	D5	10000/	1280	+WIPG	Park Rapids MN	D1	5000/
1170	*	Lincoln ND	U4	10000/10000	1290	*KRZB	Sioux Falls SD	U4	2500/2500
1180	*	Hilton Head Island SC	D1	1000/	1300	*	Buena Vista VA	D1	1000/
1190	*	(three applications)			1310	+WTHD	Hot Springs VA	D1	1000/
1200	*	China Grove NC	D1	250/	1320	+WHEO	Newport News VA	U2	1000/1000
1210	*	Lexington NC	D3	2500/	1330	+WPC	Stuart VA	D1	5000/
1220	*	Blountsville TN	D1	250/	1340	*WLNK	Lake Wales FL	U2	1000/500
1230	*	Conroe TX	D1	250/	1350	+WVCH	Columbia TN	U4	5000/500
1240	*	St. Paul VA	D1	1000/	1360	*	Council Bluffs IA	U2	5000/5000
1250	*	Morro Bay CA	U2	5000/5000	1370	*	Omaha NE	U2	5000/5000
1260	*	Gaithersburg MD	U4	1000/500	1380	+W LTH	(three applications)	U2	5000/5000
1270	*	(initial decision has been made to grant one of the five applications, but decision is still contested)			1390	+KDXE	Goldsboro NC	D1	1000/
1280	*	Highland Park TX	U4	1000/1000	1400	+KJEM	Laurinburg NC	U2	1000/1000
1290	*	Kimberly WI	D1	2500/	1410	*WVIC	Clarion PA	D1	1000/
1300	*	Hazard KY	D1	250/	1420	+WGIN	Freeland PA	D1	500/
1310	*	Dimondville MI	D3	1000/	1430	+WPRZ	West Hazleton PA	D3	5000/
1320	*	Donelson TN	D5	25000/	1440	*	Columbia SC	U2	5000/5000
1330	*	Albertville AL	D1	1000/	1450	*	Kingsport TN	U2	5000/500
1340	*	Moulton AL	D1	1000/	1460	*	Evanston IL	U4	5000/500
1350	*	Bentonville AR	D1	500/	1470	*	Goldsboro NC	D1	1000/
1360	*	Jackson MN	D3	5000/	1480	*	Somerses PA	D3	1000/
1370	*	Aberdeen MS	D1	1000/	1490	*	Bremerton WA	D1	1000/
1380	*	Pearl MS	D1	1000/	1500	*	Enumclaw WA	D1	500/
1390	*	(three applications)			1510	*	Gullman AL	U1	1000/250
1400	*	Banner Elk NC	D1	1000/	1520	*	Bowman ND	U1	1000/250
1410	*	Ashland City TN	D1	250/	1530	*	Aberdeen NC	D3	2500/
1420	*	Dunlap TN	D1	500/	1540	*	Vail CO	D1	5000/
1430	*	Springfield TN	D1	250/	1550	*	Ruidoso NM	U4	1000/1000
1440	*	Bluefield VA	D3	10000/	1560	*	Myrtle Creek OR	D1	5000/
1450	*	Sun Prairie WI	D1	500/	1570	*	Vail CO	D1	1000/
1460	*	Arlington TN	D3	1000/	1580	+W LTH	Gary IN	U2	1000/500
1470	*	Collierville TN	D3	2500/	1590	+KJEM	No. Little Rock AR	U4	5000/2500
1480	*	Globe AZ	U1	1000/250	1600	+KJEM	Sacramento CA	U4	5000/5000
1490	*	Grass Valley CA	U4	500/1000	1610	+W TNN	Franklin TN	D1	5000/
1500	*	Willits CA	D3	2500/	1620	+KEZE	Millington TN	D1	1000/
1510	*	Fraser CO	U4	500/500			Spokane WA	U4	5000/2500

Application Status -- Page Three

1390 *	Dahlonega GA	D3	1000/	1540 *	Flower WI	D4	50000/	chl0000
1400 *	Valdez AK	U1	1000/250		Sheridan AR	D1	250/	
	Indio CA	U1	1000/250		Aptos-Capitola CA	D3	10000/	chl0000
1410	+WRMN Elgin IL	U2	1000/500		Pickens SC	D1	10000/	
	+WTIM Taylorville IL	U4	1000/1000		Ashland City TN	D3	250/	
	Aguada PR	U3	500/500		Benton TN	D1	1000/	ch500
1420 *	Yucca Valley CA	D1	1000/		Vieques PR	D1	1000/	
	Spencer TN	D1	500/	1550 *	W. Fargo-Fargo ND	U2	10000/5000	
1430	+WYMC Mayfield KY	U1	1000/1000		Clarksville TN	U4	250/250	
1440	#KRDZ Wray CO	D1	5000/	1560 *	Virginia Beach VA	U2	5000/2500	
	+WCDS Blue Ridge GA	D1	500/		Shelbyville IL	D3	500/	
	+WHDM Ontario OH	D3	1000/	1570	Aberdeen SD	U4	10000/5000	
	+WCOX Elgin TX	U4	500/500		Auburn IN	D3	1000/	
1450	* Meeker CO	U1	1000/250	1580	Centerville TN	D1	5000/	
	+KYET Payette ID	U1	1000/250		Cleveland TN	D1	2500/	
	* Cicero IL	U1	1000/250		Centreville MS	D1	250/	
					Camp Lejeune NC	D1	10000/	ch5000
					Icard Twp NC	D3	5000/	
					Columbia PA	D1	500/	
					(Two competing applications)			
1460	* Whitefish MT	U1	1000/250		Travelers Rest SC	D1	5000/	
	* Elkhorn City KY	D1	1000/	1590	Glen Burnie MD	U4	1000/1000	
	* Thief River Falls MN	D1	1000/		Manti UT	U2	5000/1000	
1470	* +KGAA Kirkland WA	U4	5000/2500	1600	West Helena AR	D1	1000/	
	* Sierra Vista AZ	D1	2500/		Fresno CA	U3	5000/5000	
	* Warner Robins GA	U2	1000/500		Yuba City CA	U2	5000/1000	
1480	* +WTZE Tazewell VA	D1	5000/		Honolulu HI	U1	5000/5000	
	* Augusta GA	U3	5000/5000		Hyden KY	D1	500/	
	* +KEHG Fosston MN	U2	5000/2500		Orange TX	U4	5000/1000	
1490	* Chubbuck ID	U1	1000/250		Saltville VA	D1	5000/	
					(Two competing applications)			
	* Laurel MT	U1	1000/250		(Awaiting FCC Processing...)			
1500	* Burbank CA	U4	10000/1000	540 *	Las Vegas NM	D3	5000/	
1510	+WJIC Salem NJ	D3	2500/	570	Alturas CA	U2	5000/2500	
1520	+WTLN Apopka FL	D3	10000/		+WPLP Pinellas Park FL	U4	1000/1000	
1530	* Harrison AR	D1	500/	580	Traverse City MI	U4	2500/500	pol1400
	* Yellville AR	D1	500/	600	Kalispell MT	U4	5000/1000	
	* Middleborough MA	D3	1000/	610	Medford OR	U4	5000/2500	
				620	Knoxville TN	U2	5000/5000	
					(Two competing applications)			

Application Status -- Page Four

680	+WRNG No. Atlanta GA	U4	50000/10000	1050	+WGAY Silver Spring MD	D1	2500/	
	* +WMSJ Sylva NC	U4	5000/250	1060	+KBCN Meridian ID	U2	10000/1000	
	* Bountiful UT	D1	1000/	1070	* Palm Coast FL	U4	5000/1000	
	* Cornell WI	D3	2500/		Monticello MN	U4	10000/2500	
700	+KBYS Anchorage AK	U1	1000/1000	1080	+WFLI Lookout Mtn TN	U4	50000/5000	
710	+KFIA Carmichael CA	U4	1000/250		+WEWO Laurinburg NC	U4	5000/5000	
740	* Harrogate TN	D1	250/	1090	* Oliver Spgs TN	D3	2500/	
770	+KXA Seattle WA	U4	50000/50000		Price UT	U1	2500/2500	
790	+KXQR Clovis CA	D3	5000/	1110	+KGFL Albertville AL	D1	1000/	
810	* Burien WA	D1	5000/		Clinton AR	D1	1000/	
830	* McGrath AK	U1	5000/1000		Norristown PA	D4	2500/	ch500
840	* Sand Point AK	U1	5000/2500		E. Providence RI	D3	5000/	
	* Fairfield CA	D1	250/		Liberty TX	D3	2500/	pol050
	* +WXEW Yabucoa PR	U2	5000/5000	1120	* Hatillo PR	U1	1000/250	
850	* +KICY Nome AK	U1	10000/10000	1140	+KCMJ Palm Springs CA	U4	10000/5000	pol010
	* #KTIM San Rafael CA	U4	5000/1000		+WQBA Miami FL	U4	10000/10000	
	* Penn Yan NY	D3	5000/		+WKCM Hawesville KY	D1	2500/	chl948
900	* Eddyville KY	D3	250/	1150	* +WPCR Crystal Springs MS	D1	250/	
	* Nashua NY	D1	1000/		Linden TN	D1	500/	
					Seattle WA	U2	5000/5000	
					Junction City KY	D3	500/	
910	* #WNNO Wisconsin Dells WI	D1	1000/	1170	* Elk Rapids MI	D3	10000/	ch2500
930	* +KEWQ Paradise CA	U2	1000/1000		Clinton NC	D1	5000/	
940	* #WFVR Aurora IL	D3	500/	1180	* Kernersville NC	D1	500/	
960	* #WMOB Chickasaw AL	U2	2500/500	1190	+KOFI Kalispell MT	U2	50000/50000	
	* Daphne AL	D3	5000/		+KADE Boulder CO	D1	5000/	
	* Apple Valley CA	U1	5000/1000		+WSML Graham NC	D3	1000/	ch500
	+WDLM East Moline IL	U4	1000/1000		+WIXE Monroe NC	D1	1000/	
	* +WFGL Fitchburg MA	U4	2500/1000	1200	* #WKOX Sun Prairie WI	D3	1000/	pol190
	* Mt. Pocono PA	D3	1000/	1220	+WAXO Framingham MA	U2	50000/50000	
970	+KNUU Las Vegas NV	U4	5000/500	1230	* +KOTS Lewisburg TN	D1	250/	
	* +KAKC Tulsa OK	U4	2500/1000	1240	* Deming NM	U1	1000/250	
990	* Miami FL	U3	5000/5000		Harriman TN	U1	250/250	
					Cross City FL	U1	1000/250	
					Coeur d'Alene ID	U1	1000/250	pol410
1000	* +KXRB Bullhead City AZ	D1	1000/	1250	* #KBUJ Athens TX	U1	1000/250	
	+WVWI Sioux Falls SD	D1	50000/		* Golden CO	U3	5000/5000	
1010	* Charlotte Amalie VI	U1	50000/1000		+WXXO Essexville MI	U4	5000/5000	
	* Wickliffe KY	D3	250/		+WLEM Emporium PA	D1	5000/	
	* +WTGC Lewisburg PA	D1	1000/					

(three more applications for WOTW facilities)

(six more applications for WFAB facilities)

NOISE LEVELS AND USEABLE RECEIVER SENSITIVITY

Chuck Hutton

Application Status	-- Page Five	D1	500/	+KTYN	Burlington ND	U2	5000/5000
1260 *	Ripley MS	U1	5000/1000	*	Dadeville AL	U1	250/250
1270	+KVSF Santa Fe NM	U2	5000/5000	+WFAB	Juncos PR	U1	500/500
	+WORL Orlando FL	D1	1000/	+KUXX	Palmdale CA	U2	5000/500
	+KWPR Claremore OK	D2	1000/	+WMMW	Meriden CT	U4	5000/2500
	* Portland TN	D3	1000/	*	Meriden CT	U4	5000/5000
1280	+WMRO Aurora IL	U4	2500/500	#WPWC	Augusta GA	U3	500/500
	* Alamo TN	D1	500/	*	Dumfries-Triangle VA	U4	1000/250
1290	+WTMC Ocala FL	U2	5000/2500	*	Deer Lodge MT	U1	10000/1000
	* Lynchburg TN	D3	1000/	*	Burbank CA	U4	10000/1000
	+WRRR Frederikstad VI	U1	500/500	+KIRV	Lacey WA	U4	10000/
1300	+KWCK Searcy AR	D1	5000/	+KDKO	Fresno CA	D3	10000/
	+KKWV Pasadena CA	U2	5000/2500	+WMEK	Littleton CO	U3	5000/1000
	+WXRL Lancaster NY	U4	1000/2500	*	Boston MA	U7	5000/5000
1310	* Wauchula FL	D3	5000/	*	Boone NC	D1	500/
	* Corrales NM	D1	1000/	*	Lajas PR	D3	1000/
1330	+WKEA Scottsboro AL	D1	5000/	*	Yucca Valley CA	D1	1000/
	* Homer City PA	D3	1000/	+WKJR	Dahlonaga GA	D1	500/
	* Port Orchard WA	D1	1000/	+WYPC	Muskegon Hts MI	U4	1000/500
	+WENA Penneles PR	D1	1000/	#WYRU	Ypsilanti MI	U4	1000/250
1340	* Cullman AL	U1	1000/250	*	Red Springs NC	D1	5000/
1350	+WBSG Blackshear GA	D1	2500/	+WDJZ	Harrison AR	D1	500/
	* Havre MT	U2	5000/2500	+KWOK	Bridgeport CT	D3	5000/
	+WEGA Vega Baja PR	D3	2500/	*	Harvey ND	D1	500/
1360	+KRUX Glendale AZ	U2	5000/1000	+WADK	Newport RI	U2	2500/2500
	+WZNG Winter Haven FL	U4	5000/2500	+WMLB	W. Hartford CT	U4	10000/2500
	+WHBG Harrisonburg VA	U3	5000/2500	+WYNK	Smyrna GA	U2	10000/500
1370	+KPCO Quincy CA	D1	5000/	+WYXE	Bristol TN	D3	1000/
1380	* Pearl City HI	U1	5000/5000	+WTEB	Parsons TN	D1	1000/
	* Zarephath NJ	U4	5000/5000	+KOOT	Bellingham WA	U4	10000/10000
	* Barranquitas PR	U4	500/500	*	Sycamore IL	D1	250/
1390	* Waite Park MN	U4	2500/1000	+KAJN	Crowley LA	D1	1000/
1400	* Deer Lodge MT	U1	1000/250	+WMLQ	Beverly MA	D3	1000/
1410	+KCAL Redlands CA	U4	5000/1000	+KUXL	Golden Valley MN	D1	2500/
	* #KVEG No. Las Vegas NV	U2	5000/2500	+WTLK	Taylorville NC	D3	1000/
	* San Sebastian PR	U1	1000/1000	*	Morovis PR	U3	1000/1000
1420	+WLIS Old Saybrook CT	D1	1000/	+KMDO	Pomona CA	U2	5000/5000
	* Trenton GA	D3	500/	+WKSX	Fort Scott KS	D1	1000/
	* California MO	D1	500/	+KBOB	West Jefferson NC	U2	1000/500
	* Wolfboro NH	D1	5000/	+WPDC	Brownsville TX	U3	1000/1000
1430	+WQVQ Highland Park-Deerfield IL	U4	1000/1000		Elizabethtown PA	D1	250/

A recent article in DX News "Atmospheric and Galactic Noise in the BCB" touches on a subject of great interest to BCB DX'ers-just exactly how much receiver sensitivity is really necessary? Based on several very useful references, the conclusion drawn is that sensitivity of the kind found in most modern receivers is not required for listening on the MW band. This is correct, however

Noise affecting receiver sensitivity can be divided into: (1) thermal noise of the antenna, produced by the antenna being - warm piece of metal relative to absolute zero. This noise is wideband and therefore constant across the passband of the receiver. Its value is represented by:

$$P(\text{thermal noise}) = kT_0B$$

with: k = Boltzman's constant, 1.38×10^{-23}
 T_0 = temperature in degrees Kelvin, or $^{\circ}\text{C} + 270$
 B = receiver bandpass in Hertz

We will assume 2.1 kHz as this is an industry standard as a result of its being an almost universal bandpass for single sideband reception at HF and also being ideal for international DX. These parameters yield a P_n of 8.4×10^{-18} watts, an important figure as values for many other kinds of noise are referenced to this value. This is equivalent to .04 uv into a 50 ohm antenna input. Obviously this particular noise voltage can not be an important figure in receiver signal plus noise to noise ratio unless atmospheric noise and electrical noise are at very low values. (2) thermal noise of the receiver, produced by a combination of thermal noise in resistors and coils plus noise produced by the active devices (shot noise, partition noise, etc.). The amount of noise is generally represented by the term noise figure, which is merely the log of the input signal to noise ratio divided by the output signal to noise ratio. Typical NF's for modern HF receivers vary from 5-15 dB. This translates roughly into a receiver generated noise power of between 2.6×10^{-17} and 2.6×10^{-16} . Slightly older receivers such as the Collins and Hammarlunds with sensitivities of a few microvolts have noise figures of about 30 dB, or a noise power of 8.4×10^{-15} . Converting noise power to an equivalent noise at the receiver input, we see that a 5 dB NF receiver sees .07 uv and a 30 dB receiver sees 1.3 uv. (3) Galactic or cosmic noise bombards the ionosphere from the sun and outer space. As seen from the CCIR reference, the level is significant. However, these values do not take into account the fact that cosmic noise will not pass through the ionosphere at MW frequencies, with rare exception. Therefore, very little of this noise will arrive at your antenna. The CCIR report specifically states that ionospheric shielding was not taken into account. The fact that values are shown at all for MW frequencies is due to the fact that values were extrapolated from those for higher frequencies, where penetration does indeed occur. Cosmic noise can generally be discounted below 15 MHz; on the 21 MHz ham band galactic noise can on rare occasions be the largest single source of noise. On the 28 MHz it is somewhat often the main source of noise. (4) atmospheric noise is one of the two great enemies of MW DX'ers. Reference to the CCIR report shows that the least value for F_{atm} (an averaged value of atmospheric noise) would be 49 dB, arrived at by choosing the 1600-2000 hour period for winter at a frequency of 1.5 MHz. (Charts for daytime reception were ignored) As F_{atm} is defined as dB above antenna thermal noise, we have a P_{atm} of 6.3×10^{-13} watts, or 11.5 uv of noise present across the antenna, right? Well, almost First of all, the CCIR values for atmospheric noise are given for a 1 kHz bandpass. To convert to our 2.1 kHz standard, we need to add the correction factor of 3.2 dB to the chart values. Also, we might wish to consider just how constant these values of noise are. Once again our friends at CCIR have given us what we need: the values for D_U and D_L on the chart that accompanies each contour graph. D_U is the ratio (in dB) of the noise power that is exceeded only 10% of the time to F_{atm} . D_L is the ratio (in dB) of the noise power that is exceeded 90% of the time to F_{atm} . Flipping through the set of graphs, we see that D_U and D_L will vary from about 8 to 20 dB. This means that 10% of the time, we will encounter noise values between around 6 to 100 times greater or lesser than the average value for that period! If you

care to use other parameters than the lower and upper 10% figures, there is also a chart of the standard deviation for each time period. Let us now calculate the signal necessary for a 10 dB S+N/N ratio, assuming that we are DX'ing during the 1600-2000 hour period of winter at a frequency of 1.5 MHz, and also that we have defied Murphy and are listening during one of those periods when the noise is at the D_1 level—the value exceeded 90% of the time. The chart says this value is 38 dB (11 dB below the average value); we add our 3.2 dB bandpass correction figure and obtain a result of 41.2 dB over kT_0B , or 1.1×10^{-13} watts. For our 10 dB S+N/N ratio, we need $S+N/N = 10$, or $9N=S$. Since N is 1.1×10^{-13} , the signal required is 9.9×10^{-13} , or 14 uv. This is an absolute best case analysis for we have assumed a low noise at the top end of the BCB and have neglected electrical noise and certain types of receiver generated noise. For comparison, let us also look at the D_u level for noise at .5 MHz during the summer 0000-0400 period. Since D_u is 107 dB plus the 3.2 dB correction factor, noise power is 8.8×10^{-7} watts, or a mind boggling 13,263 uv (13.263 mv), requiring only a modest 39,769 uv for a 10 dB S+N/N ratio.... These are the times at which noise can be heard underneath semi-locals and it is impossible to DX, unless you are enamoured of tracking thunderstorms..... (5) So you think you've read the bad news and it's going to get better? Unfortunately, we have electrical noise to contend with also. Here, things become a little less concrete. Values depend on just whom you wish to believe. The table below presents a handful.

		Urban	Rural
Johnson, 73, Jan. 67	500 kHz	38965 uv	6949 uv
	1 MHz	23162 uv	3474 uv
	1.5 MHz	12901 uv	1223 uv
CCIR Report	500 kHz		48599 uv
	1 MHz		38965 uv
	1.5 MHz		12929 uv
Nelson	1 MHz	600 uv	85 uv

Some of the above seem to be incredible figures, in addition to being widely varying. Whatever the truth may be, it is certain that electrical noise must be considerably above all other sources of noise unless you happen to be miles from a large city and away from power lines.

A source of noise that really doesn't classify as noise in a strict sense is the distortion products radiated by transmitters and generated in receivers. Contributors include second and third order intermodulation, receiver reciprocal mixing, and other forms of distortion brought on by overmodulation and overdriving. These values are impossible to predict, but an absolute minimum of a few microvolts exists simply due to the third order intermodulation distortion floor of the receiver. If you are using an amplified loop or Beverage in a high signal strength urban area and an average receiver, transmitter originated slop plus receiver distortion can easily be hundreds or thousands of microvolts. Whatever the case, said distortion products will exceed in level the specified receiver sensitivity value.

Obviously no firm figure can be given for the required sensitivity of a MW receiver. The required value will depend on time of day, season of the year, frequency, geographical location, proximity to local noise sources, and the strong signal handling capabilities of your receiver. It is improbable that you will ever need sensitivity below 20 uv. This is confirmed when you think of the radios used during the 20's and 30's to receive low power Europeans and Australians. Also think

of receivers like the Collins R388/URR which is specified at 15 uv sensitivity on part of the BCB. For years I used this receiver, logging 120 TA's and hearing as far west as the Gilbert and Ellice Islands. One can create "poor" sensitivity by the use of resistive attenuators ahead of the RF stage; it is easy to demonstrate that the same weak signals can be heard with drastically reduced sensitivity.

Now, if all this modern sensitivity is not needed, you might wonder why your receiver has an RF stage. The answers are many: (1) AVC is traditionally applied to the RF stage in order to help improve the strong signal handling of stages further down the line, (2) adding an RF stage increases the number of tuned circuits ahead of the mixer, reducing the number of strong, unwanted signals that the mixer must contend with, (3) most manufacturers of high frequency general coverage receivers do not care much about sophisticated reception on the lower frequencies. Since receiver sensitivity and noise figure become all important up around 15 or 20 MHz, RF stages are needed for our general coverage receiver. The BCB DX'er must therefore pay the price of poor strong signal handling. Recently, some factors have come into play which change the picture somewhat: (1) PIN diodes have been developed and function well as input attenuators. They are rapidly becoming common in sophisticated, high performance HF receivers. This is an alternative to AVC on the RF stage, and a better alternative at that, because the old system of applying a bias voltage to the grid (AVC) or cathode (garden variety RF gain control pot) changes the operating point of the tube and restricts dynamic range. (2) tuned circuits suppress unwanted signals. However, the amount of selectivity ahead of a mixer in the usual circuit is not sufficient to protect the mixer from extremely strong signals near in frequency to a wanted, weak signal. Our real selectivity is in the crystal or mechanical filter in the IF stage, and by this point the damage is done. The usual culprit in poor strong signal handling is the stage immediately in front of the filter, as at that point the signals are strongest. Stages all the way back to the RF are also contributing to the problem. Ideally, what we need is either lower gain ahead of the mixer or a better mouse trap for the mixer. Regarding the first, different gain distributions have been tried by different manufacturers, with results ranging from very poor to good. Very poor is typified by receivers such as the Heath HW101 or the Yaesu FT101. Entirely too much of the gain is ahead of the main receiver selectivity, to the detriment of the mixer strong signal handling. On the other end of the extreme is the Collins R390A. Looking at the stated sensitivity of 2 uv and noting that it has many stages of gain using high transconductance tubes ahead of the filtering, you might think that gain is being wasted in view of the rather low sensitivity by modern standards. This is the result of the inclusion of the extremely high Q, mechanically tracked coils (which provide unusually high input selectivity), the rather high losses of the coils and transformers, and the fact that gain stages are not run at maximum possible gain. In this manner gain is held down to a rather low level in front of the filters, and selectivity ahead of the filters is very high as compared with other HF receivers. Using third order intermodulation distortion as a guide to strong signal handling, compare the R390A and the Yaesu FT101: -4 dBm versus -21.5 dBm, a decided large advantage in favor of the 390A. By the way, the FT101 was chosen because it is typical of the modern day FET front end, sensitivity below .5 uv, receiver. Its mixer is also fairly typical. Popular general coverage receivers such as the FRG7 will fall into the same general category. Older vacuum tube receivers (particularly the single conversion models) will perform only slightly better. My favorite of all is the ancient HQ129X, as it is single conversion and uses old low gain metal tubes throughout the RF and IF. Good for MW, lousy for most everything else. (3) so manufacturers include RF stages to help sensitivity on the higher frequencies... There really wasn't much choice in the past. However, advances of recent will allow us to kill two birds with one stone, namely strong signal handling and getting rid of the RF stage that we don't need, as it turns out. The gem of modern technology making this possible is the double balanced Schottky diode balanced mixer. Used in a bridge arrangement and designed properly, such mixers will provide a third order intermodulation distortion level of around +30 dBm if presented with 50 ohm resistive terminations at all frequencies and are supplied with the correct level of oscillator injection. Performance such as this will allow us to handle the strongest signal that is likely to be encountered on the BCB without having the receiver break out in crossmodulation, intermodulation distortion, blocking, and gain compression. On the other hand, we need to consider how these mixers will handle the lowest signal levels of interest on the BCB. With insertion losses of between 5 and 10 dB, and with no RF stage, it is currently possible to build a receiver with less than a 10 dB noise figure. This is far below what we

need on the BCB, insuring that we can design BCB receivers with no RF stage and a passive, conversion loss (most mixers have a modest amount of conversion gain) mixer stage. Several receivers of this gender have been featured in ham radio magazines of recent, and as the advantages of this type of circuitry have become apparent to the listener frustrated by poor receiver strong signal handling, double balanced diode mixers with no RF stage in front of them have become the state of the art for high performance receivers. At this point, this is now only just becoming the practise for receiver designers at commercial manufacturers. RACAL has been manufacturing a high-priced receiver (RA1772 and the 6700 series) for a few years now that feature mixers producing excellent strong signal properties. Atlas followed suit with the 180/210, but unfortunately poor design of the IF termination network degraded performance to a point that it could only match the best active mixer receivers like the 390A. A few recent entries to the market are head and shoulders above the rest. Two are of interest: (1) the Rohde and Schwartz HF1030, a digitally programmable receiver with performance equal to or better than anything now being made. Price-\$4300. It is doubtful that many of these will turn up in the hands of hobbyists, hi. (2) the new Drake R7, the companion to the T7 and essentially what is contained in the transceiver model TR7. Specs are excellent in regards to mixer performance, and everything else for that matter. The oscillator is a synthesized phase locked loop type. Price is rumored to be in the vicinity of \$1000 but Drake has not released anything other than technical specs so far, or indicated a release date other than the now impossible end of 1978. This receiver sure looks like a winner and could easily be the top BCB receiver short of expensive models designed for professional use.

It might be of interest to note that prices for diode double balanced mixers are quite reasonable. Exact prices will depend on whether you wish to purchase a low, high, or very high level type, and whether you want cheap PC board connections or expensive BNC connectors. Rock bottom is around \$8, with some models running upwards of \$50. The ever-popular Mini-Circuits SRA-1 sells for \$7.95 and will be acceptable for most BCB receivers. Others such as Anzac and Relcom manufacture similar units.

Bryan Radio Station To Plug Into Solar Power Experiment

By STEVE POLLICK

Radio Regional Bureau

BRYAN, O. — If all goes well, WBNO-AM radio here might as well become WSUN, for it is going to plug into solar power Aug. 29.

An array of current-producing photovoltaic cells covering a third of an acre will convert sun power into the 4,000 watts of power needed for the station's transmitter, which broadcasts a 500-watt signal from sunrise until signoff at sunset daily.

"WBNO, 1520 AM, We're Sun-Sat' on! Solar-Powered," a promotional message says on portholders readied for handing out on the day of the big switch.

The station was selected by the U.S. Department of Energy from among some 500 small, daytime AM stations across the country to participate in a demonstration project, Luke Thaman, WBNO's general manager, said.

The idea behind the project, which is being carried out under contract by the Lincoln Laboratory of the Massachusetts Institute of Technology, is to determine the practicality of a small solar-power system that would be usable in a variety of applications with little modification, and yet be economically attractive in the mid to late 1980s.

Ideal For Demonstration

WBNO was chosen last fall, Mr. Thaman said, explaining that a small radio station was considered ideal for demonstration of such a system because it has a predictable, daily power load.

The station also met another requirement: it had the space in its rural Bryan setting for the array of photocells.

Monitoring of the operation will seek answers to such questions as whether the photocells will function efficiently when covered with a film of dust or dirt from the weather, and whether the extremes of temperature will seriously hamper operations.

The general manager, who has been to the MIT lab twice in preparing for the installation, said that MIT personnel will be working closely with the station throughout the operation.

Mr. Thaman is not sure how much the Government has spent to date on the project. But he points out that each of the 800 modules of photocells cost \$300, meaning an investment approaching \$250,000 just for the array.

A computer system will operate the array, which will produce 15,000 watts of power at high noon on a clear day, far more than needed to power the transmitter. Excess power will be used to operate the control rooms of WBNO-AM and FM, and will charge 4 huge storage batteries having a total of 60 cells.

Power On Cloudy Days

The array will be able to produce some power even on cloudy days, Mr. Thaman said. He said that a small bank of photocells set up at the station will light a lightbulb in the station offices even on overcast days.

Over a year's time, the array is expected to handle 85 per cent of the transmitter's power requirements.

Iran radio will restrict use of music

TEHRAN, Iran (UPI) — The chief of national Iranian radio and television announced his network will restrict music broadcasts to revolutionary songs and marches during the Moslem month of Ramadan starting today.

Ayatollah Khomeini Monday called for the elimination of music broadcasts because he considered music a narcotic drug and "treacherous."

The newspaper *Kayhan* Tuesday quoted the broadcast executive as saying music broadcasts would be restricted only during Ramadan. Sources said music broadcasts were to be banned beginning Monday, but the order was postponed until today.

Radio Iran Tuesday broadcast pieces of Western classical music, Persian folk songs and military marches.

FCC NEWS RELEASE

INQUIRY TO CONSIDER 9 KHZ SPACING FOR AM BROADCASTING
(BC DOCKET NO. 79-164)

The FCC has begun an inquiry to consider reduction of the AM channel spacing from 10 to 9 kHz. This results from a petition from the National Telecommunications and Information Administration. The objective is to determine if the United States should change to a 9 kHz plan.

A second objective, according to the FCC, is to provide information useful in arriving at a U.S. position on this subject at the upcoming Region 2 Administrative Radio Conference on AM broadcasting. The FCC recognizes the necessity of other Region 2 countries, utilizing the same channel spacing and frequency plan in order to avoid unacceptable heterodyne interference.

In instituting the inquiry, the FCC noted many questions have been raised that must be answered before it could determine whether to undertake the changes proposed by the NTIA. All interested parties, including the public, have an opportunity to comment. The FCC invited comments in response to the following questions and on all subjects considered appropriate to the resolution of the inquiry:

- What channel spacing plan should be used in the United States;
- What classifications should be assigned to new channels resulting from a new channel spacing plan;
- What threshold requirements should be established to determine acceptability of applications;
- How much does adjacent channel interference increase with a change from 10 to 9 kHz channel spacing;
- What changes can be made in transmission standards to reduce adjacent channel interference;
- What are the effects on the performance of existing receivers and what changes in receiver design can be implemented to compensate for the reduction in channel spacing;
- In view of the changes that can be made in both the transmitted signal and the design of receivers, what is the best compromise to obtain the best quality (fidelity) reception while reducing the possibility of adjacent channel interference;
- What protection standards should be adopted for first, second and third adjacent channels;
- What would be the economic impact expected in converting to 9 kHz channel spacing;
- What would be the impact of several hundred additional fulltime operations on the radio marketplace;
- Is AM stereo compatible with 9 kHz channel spacing; and
- How could the change from 10 to 9 kHz channel spacing be effectuated in a timely manner with the known limited number of professional radio engineers available to do the job.

Comments are due by October 1, and replies by November 1.

The FCC is holding up on a request to set up a Joint Industry-Government Advisory Committee to study all AM broadcasting changes. It noted it was more appropriate at this time to have an inquiry on 9 kHz spacing to permit participation by all interested parties, rather than the rulemaking approach requested in the National Telecommunications and Information Administration petition.

Comments, showing docket number, should be addressed to:

Federal Communications Commission
1919 M Street, NW
Washington, DC 20554

(The above adapted from an FCC News release forwarded by John D. Bowker. Typed by P. Hartlage)

BOOK REVIEW

SHORTWAVE PROPAGATION HANDBOOK

Chuck Hutton

The above title is a recent publication of the Cowan Publishing Corporation, the owners and publishers of the amateur magazine "CQ".

The authors are both long term contributors to CQ and are probably the most well known scientists contributing to the amateur press. Mr. Jacobs was the chief of the VOA Frequency Division for 27 years and is presently Director of Engineering for the U.S. Board of International Broadcasting. He has published hundreds of articles in the professional and amateur press. Dr. Cohen is a Senior Scientist in the field of communications research for TRACOR, Inc.

The book covers basically three different areas: properties of the ionospheric layers, ionospheric disturbances, and predictions of sunspots and ionospheric conditions. Each is covered in a rather basic way without the use of difficult-to-understand physics equations or esoteric terminology; the target audience is the radio amateur. Those interested in propagation will be interested to know that data from out of print CCIR and NBS publications as well as CQ are included herein.

A few things make this book a little more interesting than the average primer on ionospheric propagation. Foremost is the chapter on predictions of sunspot cycles through the use of various statistical procedures developed by the authors and others. Expected values for Cycle 21 are given as obtained through the various methods—quite interesting is the large discrepancy between the predictions even though they are all derived from the same data. Several novel charts are contained which may be useful, including a complete listing of the smoothed sunspot numbers all the way from 1749 (the beginning of accurate records) to 1978, plus pages of charts designed to help the user predict propagation quality for any frequency at any time to any location at any level of solar activity.

Possibly the only drawback for the BCB DX'er is that the book is heavily slanted towards the HF bands. More emphasis is placed on conditions that apply to frequencies of 10 MHz and above than to lower frequencies. Particularly, there is no mention or discussion of E layer propagation at night, a condition which accounts for probably most of BCB skip. Solar activity in relation to the E layer propagation on the BCB is largely ignored. Conditions at the top end of the BCB can be rather nicely approximated from the material presented for the 160 meter amateur band (1800 kHz).

All in all, this book is a must for the person interested in the subject matter. As of June 1979, this 155 page book was available from Mail-A-Prop, PO Box 1714, Silver Spring, Md. 20902 for \$7.50.

THEY JOINED

Ray Barno, 1009 Sonman Avenue, Portage, PA 15946
 Charles Ronald Thompson, Rt. 1, Lawrenceburg, KY 40342
 David M. Wurl, Rt. 2, Box 5-A, Stratford, WI 54484
 Lynn Gillis, P.O. Box 105, Bloomfield, KY 40008
 David Margritz, 9710 Louis Drive, Omaha, NE 68114
 Fred Holland, 3606 White Oak Way, Huntsville, AL 35805
 Sam Haberman, 18902 Oak Drive, Detroit, MI 48221
 Lars-Gunnar Kjellgren, Klippstigen 14, S-577 00, Hultsfred, Sweden
 Robert A. Lordo, 1112 Palmyra Drive, Fort Mill, SC 29715
 Steven A. Paradies, 18 Cornwall Avenue, Millville, NJ 08332
 Lance A. Sang, M.D., 7121 Andalusia Avenue, Jacksonville, FL 32217

We invite our older members to contact new members in your area and give them a welcome to NRC. Fred Holland is Program Director at WAAY. All members, and particularly our new Kentucky members are invited to visit with us here in Louisville. Just show up and we'll let you be a guest editor. A list of membership renewals is on page 31.

CJVB ALL CANADIAN
 1470 RADIO

814 Richards Street, Vancouver, B.C., Canada V6B 3A7
 Telephone: (604) 688-9931

7 July 1979

The Editor, "DX News"
 National Radio Club
 P. O. Box 32125
 Louisville, Kentucky
 United States of America

Dear Sir:

As you may know, the Canadian Radio-Television and Telecommunications Commission has granted CJVB permission to increase its transmitter power to 50 kilowatts.

The station plans to officially inaugurate this facility on December 1 with a special two-hour program between 8 and 10 p.m. PST.

During that time, CJVB will be searching for its most distant listener, and will provide a free trip to Vancouver for the winner.

So far, exact details of telephone contact during those hours haven't been worked out, but I would appreciate any publicity your magazine and club can give. I would also like to know the latest publication date in October/November so that details can be passed onto you in time for the event.

73

Theo Donnelly

Theo Donnelly
 News Director

we're the one!

Recent membership renewals include: John Kosinski, Jr., Dennis Pimper, John Waha, Lawrence Wettach, Robert McCoy, Robert Dome, Herman Plew, Gene Mottern, David Yocis, Bob Loewen, William Schackner, W.A. Jeffrey, Charles Reh, John Boyle, Norman Sorenson, Jack Parks, Robert Eddy, Frank Johnson, Albert Lehr, Mike Smeltzer, Gerry Thomas, Dale Bierman, Christian Hansen, Vernon Shearer, Sidney, Feldman, Harold Whittier, Watson Wendt, Elwood Borowski, Thomas White, Mike Anderson, Rod O'Connor, Andy Rugg, Rene Viel, Alan Mayer, Cary Simpson, Charles Rader, Donald Woods, Mike Collins, Bruce Conti, Andrew Mahoney, Debra Hidden, Mike Heppe, Brian Sherwood and Dennis Dean.

MUSINGS

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

VISITS WORCESTER RADIO STATIONS

RYAN LEE - Box 69 - Brooklyn, Connecticut - 06234 7/19/79
 Wow! It's been a long time. Anyway, not much to report except for pirates. On 5/30 on 1620 I heard WCEX-N.Y.C. playing T-40 mx, & talking about Skylab, this at about 10pm. Then on 7/2 @ 12:29am and on 7/9 @ 12:59am on 1520 I heard this for about 30 seconds, then gone! "This is CW, Halifax, Nova Scotia, on the air testing. This is CW, Halifax." That's it. After that it disappears never to be heard again. It never comes back on. I would like to know what it is. It doesn't seem like it would be a pirate, most pirates want to stay on the air for hours jabbering away about nothing. I have a New England station map/list set & a New York map/list set for \$1 each. They're very nice looking. I'm especially proud of the New York set, it turned out beautiful! Anyone wanting a set send the money to me in check, cash, money order, anything that can be cashed into American money. I went up to Worcester on Fri. July 13 of all times, and visited WAAF-107.3 FM, WFTQ-1440, WORC-1310 & I tried to get into WTAG-580 but you need an appointment. I couldn't find WNEB or WSRB. Mostly the trip was for getting the "hype" stuff, WAAF stickers, WFTQ playlists and WTAG temperature charts; WORC didn't have anything. I also went up there to buy a few albums at one of Worcester's low-price record stores. The nicest looking stations are WAAF & WFTQ (they're in the same office). I'm sure WTAG's office is nice if they can afford roof top quarters and a guard! I do know though that WSRB has stickers. I had a few before and was going to get more, but couldn't find WSRB! WAAF's XR antenna looks like a regular TV antenna! But their signal sure is strong down here; WAAF is my favorite. I have to start looking for a better paying job, working at McDonalds just doesn't pay enough. I'm thinking of getting a DX-300, looks good, but I've heard it has problems, but overall it "looks" like it could be a good DX radio. My RF-2200 is getting out of synch & I don't know why. The dial is "drifting" because when I got it it was only a fraction off of the right frequency; now it's a full 20 kHz off! Anyone know what I should do to get it back to normal? Well, that's all for now. 73s.

WNEB DOING POORLY IN THE RATINGS

PETE KEMP - 5 Greenwood Avenue - Bethel, Connecticut - 06801
 Greetings & l. Big changes are in store for KMPC listeners. Dick Whittinghill, the morning mainstay for almost 30 years, is going to a Sunday mid-morning slot, to be replaced by one of the big guns on the WC, Robert W. Morgan. WNEB, NBC's flagship station in N.Y. has come out looking bad in the ratings again, a new program director has been found and format changes are a certainty. John Morris has been signed to do color for the N.E. Pats on WEEZ. WCFL has been sold by the Chicago Federation of Labor to the Mutual Broadcasting System. WJXY is upping their power to 2.5kw and KXVI is going to add nighttime services with low. AM DXing has been most eventful lately with nothing out of the ordinary. (?? -ERC) TV/FM/PSE DXers must be having all the fun, as many 2meter openings have occurred lately. Ten and 15 meters have been poor with only sporadic good days with 75/80 static bound for the Summer as is AM. The June issue of "73" magazine has an excellent article for other radio industry buffs called "The Voice of Wolf Creek" - the KGCX Story written by W6CE, Dr. William Hess, from its unlicensed roots in the wilds of Montana 1924 with its somewhat humorous happenings with the Feds and its "local" approach to broadcasting. So much for now. I wish everyone a good time at the upcoming Convention. I am sorry that the present gas situation will prevent me from attending.

SOME STATIONS ARE IN NO PARTICULAR HURRY

KONSTANTINE RYCHALSKY --Box 4256 - Bridgeport, Connecticut - 06607
 Here's one record I dare you to beat! "I dare you" as Mr. Eveready Conrad would say. I believe I have the longest stand-out for a verie for only ONE report with no additional f-ups. The verie was a letter from WLS-1000 Mass. Get this now - it was address-dated March 18, 1979, and is in answer to my report of October 7, 1972! That's a hold-out of seven years, five months, 11 days, plus one week for mailing. I sent a copy to HQ & to KRC to verify my case. I would like to hear from anyone who's come this close, or over. There is a possibility I may have to go into semi-retirement with the NRC. I've reached that age when my life style is constantly changing - I never had the chance to settle down to a long wire antenna. My DXing will never die although my peak years were three years ago. Last year I spent more on my NRC membership than I did on reception reports. Until my subscription runs out I'd like to hear from anyone who may have any station yearly Top-100 survey cards that have photos of the Beatles on them, I will pay \$5. If not heard from again, an unyielding DX to all. 73's until again. (We will miss you, Kon, & we all hope you will change your mind and stay with us! -E33)

THE NEXT ISSUE IS ONLY THREE WEEKS AWAY, LADS! THE FOUR-WEEK BREAKS ARE OVER FOR ANOTHER YEAR, HAPPILY. THE DEADLINE FOR MUSINGS FOR THIS UP-COMING ISSUE WILL BE ONE WEEK FROM TODAY (if today is August 13, that is), OR - MONDAY, AUGUST 20. MANY OF YOU WILL PROBABLY HAVE RECEIVED IT AT THE ST. LOUIS CONVENTION.

SUMMERTIME CX ARE GOOD IN NEVADA

RICHARD TEEBE - 2350 Stonehaven Circle - Reno, Nevada - 89511

Hi everyone! Summertime DX is an interesting experience, CX change so much in the space of a few days. Fortunately T-storms have been few & far between so I've been able to keep plugging away. Although Canada is usually mediocre reception-wise, there have been a few days when CX were so good that CKL-1140 totally obliterated KRAK (which usually reigns supreme). I even managed to get my first decent ID from CFAK-1070 u/the KNX powerhouse. Last winter on a call-in talk show, I heard mentioned that XEHOZ-800 was to be going silent for three weeks, then return with c/w format & power boosted to 250kw. That's history now, but with X-rock's return, the signal was weaker! Are they running 250kw? If so, they must have a directional antenna now. I found a new magazine, an annual called "Radio Experimenter", and it has a fascinating article on AM Stereo. There is discussion of the three systems being tested. Mentioned also is that XETRA-890's stereo standard, first used in 1970 and revived recently, is not being considered by the FCC. Their conclusion is that AM Stereo will be a boon to BCE DXers because improved receivers will be developed as a result, and we could see loops become widely available in stores. Regarding BOB FOXWORTH's comments on 9 kHz spacing, I disagree with him that it would be bad for the hobby. When I DXed in Europe, I had no more problem with adjacent channel interference than I do here. Besides, with the extra channels available, this could reduce the pressure to kill clear channels. There is an added sweetener to the deal: we could have many more TA & TP splits if our channels were set 4 kHz off Eurasian frequencies (e.g. with TA-TPs on 531, 540, 549, etc. we'd be on 535, 544, 553, etc.) We should do what we can to see that this comes to pass if 9 kHz spacings become a reality. 73's to all.

VERIFIES HOUSTON AIRPORT TEN WATER

MIKE HARDESTER - 10285 Covina Court - San Diego, California - 92126 7/16/79

MM 7/9 was the first MM I've had to really DX since getting back to the States & the FRG-7 w/R. West modifications & the Radio West Loop really looked good, so I can hardly wait for this upcoming DX Season (Winter-type). All are on 7/9: CW-990, in, alone, w/CBC NX @ 6am & to mx @ 6:05, first time heard in many years. UnID-1060 @ 6:08-6:18 w/two men discussing Israel & religion, looping E w/rr under. EMOX-1120 noted 6:20-6:25 in KPNW null w/PSA on rape & local WX - another long time absent station. KCBQ-1170 (local) noted off @ 6:30-6:45 w/KLOK & KVCO only two in w/weak unID under. KPJZ-1270 w/M-R mx, local spots, ID, & local KX @ 6:52-7 when it was lost to KTLG s/on. KTLG-1270 s/on without SSB or other mx @ 7 & into NEC NX, ads, & local spots, gone by 7:14 w/KTLG/KPZ mixing. KTSN-1380 @ 7:30 s/on & into Mutual NX/ads, but faded by 7:36. UnID-1550 @ 7:46-8 w/"Country Gold" mentioned, spot for brake repair: "Call Doug?? at 972-8213" race track (La Coona?), lost to KQXI s/on @ 8. I was looking for KQWB-N.D. on preceding, but came up with the unID. KQXI-1550 w/8 s/on without SSB or other mx & lost to mix w/unID. Several carriers noted looping NE/SW on 1606.1, 1610 & 1612, but no audio. I suspect TIS, but nothing yet. Houston International Airport (TX) has two TIS: one on 1100 & the other on 1605 or 1610, I can't recall which. A correction to my Muse in 7/16 DX NEWS. The Houston Airport station on 1605 should be 1610 kHz. V/1 in from the station gives the power of the 1610 outlet as 10w w/an FCC call sign of KON-247; the 1100 outlet has no FCC call sign and runs a powerful 10 milliwatts! TI stations can be fun & challenging. Try it sometime (530 1606 & 1610 kHz). On 7/14 I received a call from GRANT MANNING (Radio West) @ 11:30pm regarding a station w/talk/carrier on 873 kHz. I managed only bits of audio & carrier. It seemingly s/off by lam on 7/15. Again it was noted 7/15 @ 11:10pm (approaching San Diego sunset) w/carrier developing into audio w/man in EE & some mx. Frequency measured 873.080 steady. Loop bearing was 80° from North. Not noted 7/16 @ 10, 11 & 12pm checks. Ideas, anyone? Anyone w/a current address for KFRN-1290 in Long Beach, Cal.? Address in NRC Log is not correct & postal service has never heard of them. Also, same for KLOZ-FX. Any known, current address for them? All for now & very 73.

WANTS OLD NEW YORK AIRCHECKS

ALPHONSE E. TOBIA - 7603 Linden Court - Newark, California - 94560 7/19/79

Hello again. First, to try to help out some Musers in the 7/16 DX NEWS. JOHN D. BOWKER, as far as getting proper information I can't even think of a way. I have used Broadcasting Yearbooks, WRTM, White's as well as NRC's Log & have found errors, omissions, & misunderstandings in all, but I don't blame people who put these together since it is hard work for all, especially when you think a station who gives you info one day may decide a month later then want a power increase & if they get it there goes the info, unless it's constantly updated, which is hard to do, besides being costly. I have always tried to get a Yearbook about every three years or so. Usually there's enough changes to keep me interested for the next three years! Also your column along with Broadcasting's weekly "For the Record" fills the gap for me. I realize not everyone looks to these sources but even using the NRC Log along with WRTM helps. Overall I think everyone does an excellent job! Also, GUY KUDLIMYER, the stereo station you were thinking of was XTRA in Tijuana, Mexico (Los Angeles) on 690 kHz. If I am not mistaking they still transmit in AM Stereo using the same system that is now being used as an experiment here in the U.S. I heard XTRA on their airwave one night w/two radios & it really worked (but it was awkward). I feel it's time again to make my plea for airchecks of N.Y.C. stations from 1955-1965, my main interest being WMOA WABC WINS WGMN (now WEN) WOY (now WADO) WJNR WWRL. I'm still looking for an aircheck of Alan Freed when he was in N.Y.C. (check can be in any form). Looks like we WC DXers will soon have trouble hearing WLS as it seems the St. George, Utah station is getting close to a starting date. Well, that's it for now. 73's.

HIS SEASON WOUND DOWN WITH A W

DAVE FOX - 333 Douglass Street - Reading, Pennsylvania - 19601

6/28/79

Very little DX has been heard, or for that matter, been tried here for the last month. The season seemed to wind up MM 5/28 when I noted both WTRY-980 & WBUY-1440 on for ETs. ID from WTRY was heard @ 2:05am & WBUY @ 3 & 3:30am. V/f in from WTRY & v/1 in from WBUY. CE from WBUY indicated that they were testing a new Collins 828-E1 XR with pulse width modulation and 5,000w of power non-directional. Only other DX was a lucky catch of graveyard WTS-1450 on 6/17 about 8:30pm. This resulted in a v/q. WX here has been very strange. Only a very few hot days but as I type this, we are having our second hailstorm in a week. Last Friday's storm (6/22) did some damage to my tomatoes - and accompanying electrical storm knocked out power for several hours. Tonight's storm seems just as bad! If rotten gas situation continues, my DX efforts will certainly pick up this Summer. Last several times I stopped by the local gas station it was either closed or the lines were too long. Fortunately the beer distributor across the street had enough beer! It would be nice if they made a car than ran on beer. If they did, we would all have hopped up cars! With that feeble attempt at humor I'll wish all good DX and an enjoyable Summer. (Ha, Dave - mine DOES run on beer! You pour it into the driver! -ERC)

NINE KHZ SEPERATION & SPLATTER

NO NAME OR ADDRESS - on WJWR stationery.

Since I haven't sent in a Musing in quite a while, here goes: First, MARK CONNELLY wondered in the July DX Monitor if there were any domestic reasons for not adopting 9 kHz spacing. There are several, among them are adjacent-channel QRM & cost to highly directional stations. First, 9 kHz works in Europe because stations there peak modulate at only 80-90% generally on negative and positive peaks. Many U.S. stations, however, push their signals to the practical and legal maximum - 100% negative peak modulation, & 125% positive peak modulation. This results in the severe sideband splatter which many DXers have noticed recently (and even more splat is produced when stations try to pre-emphasize their high frequencies - 6 to 12 MHz, in order to "sound good" on bassy car radios). Thus, splatter for DXers in the U.S. & Canada is bad enough right now, and will get a lot worse if 9 kHz spacings are adopted. It is foolish to believe that broadcasters would voluntarily cut back modulation or attempts at "high fidelity" without an FCC order. Also, the costs of re-tuning, and, in some cases, re-constructing a DA could be prohibitive to some directionalized stations. Otherness: I'm now fulltime (six nights a week) at WKJR, & am working on a First ticket. Local WKBZ-850 carries the Larry King Show nightly Mon.-Sat. (or Tues.-Sun. mornings, if you prefer). WSJM-1400 is now c/w, ex-T-40. I might see you in Peoria - but can't get Labour Day off, so no ST. LOUIS. '73's.

HE'S BIDDING FOR THE 1980 CONVENTION

RUSS EDMUNDS - Box 127 - Bonton, New Jersey - 07005

7/17/79

Despite the fact that I said I wouldn't muse again until I had some DX, I'll make this brief exception. Greetings - convention time is coming again, & it moves me to wish that I would be able to attend. After making ten of 11 meetings from 1965-1976, I must now miss my third in a row. I had been waiting to win a lottery or a sweepstakes, or for a mysterious benefactor to grace me with free air fare to ST. LOUIS, but alas, this hasn't happened, hi. For atonement, I am herewith announcing that I will be bidding for North Jersey for the 1980 Convention, a tenth reunion of the E70 confab. I solicit all of your support for this bid. The Convention site is not yet firm'd up at this time, but it will be prior to my submitting a formal bid to LPC. I wish everyone a good time Labor Day weekend, and good DX in the coming season! '73's.

IT'S A GOOD SUMMER FOR SUNSET DX

BRUCE A. CONTI - 39 Bayberry Drive - West Warwick, Rhode Island - 02893

7/20/79

WKRI-1450 has been sold to a Boston-based firm for \$380,000. The format will stay the same, but they are investigating the possibility of moving the studios to a larger & better location. Right now, the WKRI studios & XR are appropriately located at a Rhode Island Historical Cemetery (GY, hi). WJAR-920 has finally moved into their new studios in the new Outlet building in Providence. Meanwhile, in a recent radio station popularity poll conducted by the Providence Journal newspaper, WPRO-630 was rated as #1, which is nothing unusual. However, 32 different stations were listed as top favorites by those who answered the poll. And 59 stations, from as far away as Wheeling, W. Va., were listed as locked into car radios, which is more evidence of a clear channel listenership. SSS DX has been excellent this Summer with noise levels unusually low for the season. Newsies added to the log over the Summer so far include WDOJ-730, CEH-860, WNTY-990, WIOO-1000, WITQ-1000, CFLP-1000, WSCV-1050, CKJD-1110, WSVF-1110, WGNV-1220 & WRIV-1390, all heard during sunset hours with the promise of more to come! '73's.

HAS ONE DEGREE & IS GETTING ANOTHER

WARREN E. GREENBERG - 145 Cot tage Road - West Roxbury, Massachusetts - 02132

Nothing much here to report except I will be in ST. LOUIS in September at the Convention. I will be leaving Boston via American Airlines Flight 209 @ 9am & arriving @ 10:40am, & I will leave ST. LOUIS by TWA flight 140 @ 10:25am & arriving @ 1:47 pm. Besides the above the only verification that I received this year was from WPOP (from last year). I also received my Associates in Applied Science degree in Electronic Technology in June, & I will be receiving my Associates of Science in Engineering in Computer Science next June. '73's.

NEXT MUSING'S DEADLINE IS MONDAY, AUGUST 20. BE IN IT!

LOGS HIS FIRST HAWAIIAN

GEORGE SANTULLI - 215 Pacific Oaks Road #109 - Santa Barbara, California - 93017

Well, I'm afraid the Summer doldrums have hit me a little early this season as I stopped DXing round about June of this year when the pickings got slim. But before DX stopped altogether I did have some exciting catches, namely my first Hawaiian, KOEL-650 on March 26. It was almost ridiculous how easy it was. I had checked the 650 spot like clockwork all season long but never heard a peep. Then on MM 3/26 @ 4:24am I hear some loud T-40 tunes and almost fell over when the ID said "KOEL". It was in even on my little transistor radio, clock radio, & even my car radio. How could this evasive devil elude me for so long and then just pop in like that? Other DX that same 3/26 was the TEST from KOEL-1050 with a good ID @ 4:10am mixing w/XEG, Mexico. A check of 1050 showed up KUPD, Arizona with no sign of the usual pest KPAT, Cal. I heard one UNID on 830 using TT @ 4:30am, but it never IDed. 4/9 I had KRDS-1190 Ariz. w/KEK. I heard them years ago from New Jersey on a cold Winter night. This time was not so dramatic. Sorry, I cannot make ST. LOUIS this year. If I had stayed in Memphis it would have been easy, but I moved to California so I could hear Hawaii! Now to hear Maine. Good DX, and have a good time in ST. LOO. '73's. (Wanna hear Maine, George? Ha - move to Provincetown! -ERC)

ADDRESS OF KKKQ-1060, ANYONE?

GENE ALLEN - 134 Bret Harte Way - Vallejo, California - 94590

DX here is as slow as getting this report off, hi. Local KNBA-1190 has lots of harmonics but the engineering department says they meet FCC standards. I am 1.8 miles away but hear them all the way to 10.71 MHz (9th harmonic). KYA-1260 is heard all day on 1120 with an S-4 signal, just about equal to KHOU-1130. The rest of the BCE is free from S.F. images or spurious signals. However, another unanswerable is KDPC-FM's clear AM signal heard nightly after 10:30pm (local time) on 1610 kHz. No veri from either GFTF-680 or KKKQ-1060 even the f/up reports with PP/c's have been sent. I would appreciate having the correct address of KKKQ-1060 if any Arizans members have it. An amateur on Pitcairn Island listens to the news regularly from KPEK-1530. Not much more here. '73's.

HAS A NEW LOCAL BUZE PROBLEM

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

7/22/79

Some time in late May, severe electrical QRM hit our neighborhood. As of this writing it's still there, killing DX from 640-900 kHz. I can't even get semi-local KIRO-710 on my clock radio & need to use the Frog & Space Magnet to mull the noise! With the lower end of the band shot, I've been tuning in to KOFI-1180 nightly @ 2:05am to see if they have s/off or Herb Jepko. As of 7/21 it's still s/off. Nancy likes KOFI's s/off with "Montana" song, since it reminds her of our upcoming vacation there. The only new logging of note is KUTX-1260 McMinnville, Ore., ex-KMCM, logged here 7/2 @ 11:59pm w/KCYX NX, WX, & into Mutual NX. We tuned in the next evening, while camping 50 miles N of here, to see what the new format was. 7/4, 12:30-2am they had T-40 mx, Mutual & KCYX NX (lots of Oregon stories) each half hour. 2:05am nearly an hour of old radio shows. 3am complete national/regional NX, SX, WX, then "Thought for the Day" @ 3:12, s/off 3:13, SSB 3:14. A few tidbits of DX info: While shopping in Olympia this week, we heard KGY-1240 on the store P.A. system & it seems KGY has dropped Mutual after 20-plus years & is now with APE. NX format, NEC Log style, is now 60(5), the first 3 1/2 minutes being APE. KITN-920, Olympia's other station, is still As Net & still ties into Mutual's Larry King Show. Larry mentioned KIDQ-630 joining his net as of 7/24, which prompted me to tune in KIDO 7/21 2:10-2:25am, since few T-40 stations carry AN talk, hi. Seems KIDO has switched formats. They now are a "progressive country" sound, artists like Linda Ronstadt, Waylon & Willie, Marshall Tucker Band, etc. Some time back (I can't find the issue now) I think I mentioned the "Rock Trivia" show on KGO-810 Friday nights. For those still looking for it, it has been reduced to monthly status. It's now on Sat. mornings, 3:07-4am, on the first Friday night of each month. The one on 4/7 was "simulcast" on WITS-1510, & with phone lines between KGO/WITS plus phone calls from listeners to each, it sounded like the ultimate engineer's nightmare! One bit of related info: I have reactivated my Novice ham license after four years of silence; I'm now KA7EJU. I have yet to go on the air for more than ETs since my dusty ham gear has a high SWR problem & I don't want to blow it up, hi. But once I get on, I'd like to set up some regular contacts in the Novice bands, maybe on Sundays, to discuss BCE CX & any "flash tips" of interest, especially with any NRC hams out this way. '73 & good DX.

LOGS HIS 15th GRAVEYARD STATION

STEVEN MILLER - Boston, Massachusetts

Vol. 2 No. 6

Hello everyone - how's DX? By the looks of the 7/16 issue of DX NEWS, DX is great. To name my DX achievements since my last log report to "Rocket Ray": I had the pleasure of recently logging five new graveyards!, three on 1240, one on 1340 & one on 1490. From 1240 they are CKGO B.C. 7/9, WWCQ Conn., also 7/9, & finally WWD N.Y. 5/27. Meanwhile for 1340 it's WMD N.J., great! And finally on 1490 it's WBCB Pa. just recently heard & logged 7/19. This date is also the date WMD N.J. was heard-n-logged. As the DX achievements news continues, also on 7/19 I had the pleasure of hearing & logging my first station on 600 kHz w/a signal just good enough to slightly overcome local WKRI's splatter. That station is WICC, Conn. This is my first & only station heard on that frequency, noted w/a fair-fairly good signal. I have a pretty nice amount of GYs heard, total so far, a level 15 but hopefully after my upcoming AN DXing session late 7/'2 to the early hours of MM 7/23 the number should be at least an even 26. I'll have the results of the upcoming DX session in the 9/3 DX NEWS. The DXing equipment being used for this special DXing bonanza is the hot AN modified Realistic TRF w/an external (12") AM lc stick antenna, grounded to a

(Miller, con'd.) very good ground. And just before my membership expires I will release in a Musing a statistical report on my contributions to the NRC & DX NEWS. Well, until then, 73's and have a nice Summer, and good luck DXing.

LOVES HIS NEW HF-2200

STEVE KENNEDY - Box 231 - Immokalee, Florida - 33934
Greetings y'all from the Ear of the Everglades. Time for my mid-Summer Muse to let everyone know I am still very much a part of the "Living NRC." Not much DX to really brag about, but I am really giving the new R-W MW-1 loop a good workout. DX heard, all Cuban: R. Sancti Spiritus-1190, R. Liberacion-650, R. Internacional-1360, Dobleve-1290. Also I noted a Reloc outlet on 940 w/VINZ, location unknown. Since I got the MW-1, with the exception of Cuban, Bahamas, & WFL-870, all that can be heard during daylight hours outside critical times are Florida stations out to 175 miles. As best as I can foresee in the future, I can only DX during the morning hours, from say 7am to 11, ELT. The only other time available is 4:30-6:30pm, when I take a break from work at WKEM. I expect to use the PM time slot this Winter for SSS DXing for daytimers, TAs, LAs, and whatever. Since my wife & I work long hours, I am much too give out to DX into the late PM hours after I get home from work. Other news: I received a Panasonic HF-2200 for an anniversary gift from the wife. This little set is one of the neatest portable sets I have ever used. The ECB dial is calibrated withing 2-3 kHz from 540-1600. Sensitivity is good enough that almost every ECB channel is filled during the day hours, and the rotatable loop on top works pretty good too. In the 'narrow' bandwidth position LA splits are a cinch! The FM performance is so good that the simple whip antenna that comes with the set will out-perform my Kenwood FM receiver with a 30' yagi antenna! SW performance is good; there is some leakage from adjacent bands, sensitivity is outstanding, and dial calibration is say within 5 kHz. The EFO is not too good on SW, & the dial has some backlash on SW, but all in all it is a good set for a portable. I guess the HF-2200 makes a handy RX for the DXer who can't stay away from the RX too long. I even tote it to work to take some of my favorite DX programs, and other stuff. Now it's time to save up for the FRG-7, & the shack will be complete, unless I see another DX goodie to buy! C U N 6 weeks. 73 & good DX.

WURTZEL EMULATES GULLIVER

BILL WURTZEL - 32 West 31 Street - New York, New York - 10001 212-594-8498 7/19/79
I took a 30-day Ameripass ticket on Greyhound and covered 6,000 miles across 19 states & visited many NRC members. First stop was Toledo, O. to return FRANK MERRILL's attaché case. After resting up the night & having a 1/2 hour phone chat with GARY SIEGEL I headed for Chicago & a two-day stay with MARK STRICKERT. While there I spoke on the phone with BRIAN SHERWOOD & KEN ONTSCHUK. RICHARD PISTEK came by to visit & take Mark to Minneapolis & the ANARC Convention. They picked up TIM NOGIAN in Wisconsin. I arrived up there @ 5am, one of the early arrivals at ANARC. I had nice chats with some senior DXers. My report appeared in the July 16 DX NEWS. After a great time in Minnesota I headed out to California. I arrived in S.F. 6/27 around noon. I stayed one night by DAVID JACKSON in Union City, he's an IRCA member. The next day I explored the city by the Bay & stayed the night in a rinky-dink hotel called The Belaire. In Chicago I visited four stations: WLS WJJD WCFL & WAIT picking up lots of literature & QMs that I gave away. I stopped in at the St. Francis Hotel in S.F. but didn't know KKHI-1550 was in the place; I found that out later. I called up & met with DON KASKEY at the Hotel Raphael. We had a nice talk at the bar & just made it in time for the Happy Hour. I was wearing my radio station T-shirt WLSG, with the words Warm Loving Single Guy on it, the first letter of each word in black, the rest in red. Wherever I go, I'm the center of attraction with my poetic T-shirts. June 30 I went to San Jose where I spent two days with BOB WIEN. I got to DX on his 1960 model GE TEF radio. He has it marked for 10 kHz separation, & it is a fine RX. I had my Sony 5900 along & it performed very well. I got to meet BILL HARANG twice that weekend. He treated the two of us to a slide show of his vacations. Whomever I met and/or stayed with were invited to visit me in N.Y. & stay here instead of in a hotel alone. After two days in San Jose I headed for Seattle. I called up BRUCE FORTZER & he had DAVE KORINEK's phone number handy. I was prepared to stay a night or two at the YMCA, but Dave invited me to stay at his house. I entertained his sisters, Mom & younger brother with my funny rhymes. I showed many people my song lyrics & many commented favorably on my writings and wished me success. It's nice to know people care. I spent three days in Vancouver, B.C. at the GWDKA bash. I met PETER NOLAN & EDDIE RYAN. GEORGE GREENE of Akron flew out to make it & we got to talk about DX. I also met JOHN OLDFIELD of Surrey, B.C. who is a comical fella. I had competition for jokes. Coming back my Sony 5900 picked up KFMZ-760 @ 1:30am in Spokane, an impressive reception for a 5kwhr in So. Cal. This is my last Musing. I am pressed with too many new responsibilities as a songwriter, & plan to see many of you at the IRCA & NEC Conventions. I am already in 7 radio clubs & cannot devote the time any more to sending in lengthy Musings. Sorry about this, but I have made many friends. The NRC will always be in my house in song. Best wishes to all of you. (Stick with us, Bill - we get better with age! -ERC)

HERE ARE THESE MUSINGS DEADLINES FOR THE UP-COMING ISSUES, IN PROVINCETOWN:

MONDAY, AUGUST 20 MONDAY, SEPTEMBER 10

MONDAY, SEPTEMBER 24

SATURDAY, OCTOBER 6

MONDAY, OCTOBER 22

WE WILL NEED MANY MUSINGS FOR THESE ISSUES, SO PLEASE BE SURE TO SEND ONE IN FOR EACH.

HELL BE AT BOTH CONVENTIONS

MARK STRICKERT - 5900 North Watched-in-Awe - Chicago, Illinois - 60659 (that's Washtenaw!)
Will Australia declare war on NASA? I just wonder how many of you heard any stations "Down Under" on "emergency" when our orbiting DC-10 missed the Indian Ocean. It should've fallen in Maine or Delaware just after sun set, hi. (Hey Mark, that'd be too close for comfort! -ERC) CX not-so-hot, as I've got but four new catches in two weeks, one of those being a Highway Info station, 15 miles from here, details in DDXD. WCFL bombed in the April-May Arbitron ratings, losing half its audience from last year, so Mutual has their work cut out for them! Top stations were WGN, WLS, WLOO-FM, WHEM, WLUP-FM, WIND & WMAQ; WCFL was in 25th place. Recent gains by WLS, however, may be lost in the next book if early indications are correct, due mostly to an effective "Anti-Disco" promotion by WLUP-FM. They had an anti-disco rally at Comiskey Park two weeks ago, causing such a riot that the White Sox had to forfeit a game to the Detroit Tigers. Otherwise, radio here & elsewhere (when I can hear it) is as exciting as watching toe nails grow - wake me up in October, hi. Ugh - I found out that the ST. LOUIS (baseball) Cardinals will be on the road during the Convention - up here playing my Cubs! Can't win 'em all (or as they say in Toronto, ANY.) Question - how did they connect the steel girders in the NRC Convention Hotel? Answer - Ark welding! 73's till next-ish, unless I'm attacked in ST. LOUIS for that last one. P.S. I envy Dracula - he's always home for SSS (Boo!)

ANOTHER ENDORSEMENT FOR THE HF-2200

STEPHEN J. MCINTIRE - 2225 Searle Street - Des Moines, Iowa - 50317 7/24/79
Greetings from the land of tornadoes & KCEC format changes. We've had three tornado warnings already this Summer (one for the whole season is about normal) & five of the last six Tuesdays have brought severe WX somewhere in Iowa. As for KC-14, here's the latest. (Don't put these in your NRC Log unless you have a good supply of Liquid Paper, hi). 7-10pm K-F now has a jazz/bluegrass show. Yes, that's right! The first hour is jazz, the last is bluegrass & the middle is a mix of the two. Then it's Studio 14 disco mx "all through the night" they say. I assume it's probably on till 5am ELT, as this is what they do on weekends. During the day, they're MOR/pop. After getting ex-WHD morning man Don Warren as their morning man, they hit that source again as former "Country Mx USA" DJ Billy Cole is their new afternoon DJ. Speaking of which, another former CMUA DJ, Dan Reed, now has the "Clear Channel Conversation" talk show on WHD evenings, replacing Joe Lombardo, who is now doing his talk thing drive time afternoons on WRNG-680. DX activity here has been sparse. Memorial Day Mx was a bust with the TESTs obliterated by WIL & KSO sloop. The past two evenings have brought a couple of new catches thanks to the greater selectivity of the HF-2200 over my TEF. 7/23 - KFMJ-1050 s/off 9:45 pm through WHP s/off & good ole KEG. 7/24 - KFII-1140 Mo. s/off at about the same time with KSCO milled & almost no KWKY-1150 sloop for a much-wanted Kansas City area station. Meet me in ST. CHARLIE, Charlie. 73.

ANOTHER NEW RECEIVER, AN REM, GETS APPROVAL

DAN SHEEDY - Box 31 - Encinitas, California - 92024 7/23/79
It's about time for that once-a-year Musing from the depths of sunny Southern California - not much to say, but here goes: I picked up a virtually-new REM RX at the last SCADS (So. Cal. Area DXers) meet up in the sultry city of Huntington Beach. The REM & AC p/s weigh 61 lbs. total, so it ain't a TEF (though the price was the same - \$30). I hooked it up to the MW-1 and here's a sampling of what's been heard: July 2 - KBIX-1410 w/ NBC MX @ 2pm, KHOP-1300 w/CBS MX & Dodgers BE promo @ 2:15pm. 7/3 - CJOC-1220 w/"Northern Opry" (shades of guess who) @ 2am and I'm very pleased to hear some high class c/w again! KWSU-1250 smack in for a quick ID @ 2:10am & KVEG-1400 @ 2:15 w/promo & ID. July 5 found me lurking on 1250 w/an unID W. Texas @ 7:06am, probably KIKZ - I'll get 'em next time. KYAC-1250 ID @ 7:24am, KMJJ-1140 ID @ 7:30, KDJI-1270 @ 7:40am in Navajo, & KVSF-1260 ID @ 7:45am. July 8 brought KFUN-1230 ID @ 9:10am & KCVR-1570 @ 9:15. As should be obvious from the above, I'm not really DXing, just sort of playing around with the new toy & still looking for a good, down-home c/w station (I'm not quite ready to move to Nashville). ST. LOUIS is out 'cuz I don't get my vacation till probably early 1980 - y'all have a nifty time & ERC; try to behave yourself, eh? Hi. (Huh? Why go then, hi -ERC)

THE "MADS" ARE ALIVE AND WELL!

CHRIS HANSEN - 2825 Webb Avenue - #5F - The Bronx, New York - 10468 212-549-6613 7/19/79
I am Musing after a long absence only to bring the members up to date on the current status of the Metropolitan Area DXers here in New York. Contrary to what some have been asserting, we are alive and well as an organization. A meeting was held on June 30, & some 17 people from New York and environs were present. The meeting was in Brooklyn, on East 17 Street, the host is not an NRC member, but members who were present included: Myself, the ubiquitous PAUL MOUNT, JOHN KROMKA, GEORGE GHEKENE (on leave from Ohio), & BOB FOXWORTH. The talk (as well as the salad) flowed thick and fast, and we are going to continue meeting as often as possible. Next meeting is in August or October (or maybe both!) For information, or to be placed on the mailing list, please drop me a line. We also had a meeting in Jersey City in March. I just renewed for my fourth year. Have fun, and 73's.

AS THEY SAY IN BAY ST. LOUIS, MISS. "WHII-1570". WELL - HERE IT IS! THIS IS "LAST CALL" FOR ST. LOUIS, ST. CHARLES, AND ALL SAINTS WEST! THREE-PLUS DAYS AND NIGHTS OF FUN FOR ALL IS PROMISED! BE GOOD TO NUMBER ONE - AND REMEMBER, BUNNY, YOU'RE NUMBER ONE! JOIN WITH THE MEMBERS OF THE LIVING N.R.C.!

HE'S COMING TO THE CONVENTION!

RICHARD CLARK - Apartado 273 - La Vega, Dominican Republic
Another report from Puerto Plata. Two new stations have gone on the air. HI—, Radio Qui Qui, 1410, Rio San Juan and 4VEH-1595 with a new skywave antenna. They are quite strong for me at this location. I must say that living on top of a mountain it is sure cold at night! I live in the Tropics where it is always warm, but not where I live. Oh well, right now I plan to make two Conventions this Summer and hope to see a lot of my friends there. For now, 73's.

LET'S ALL WELCOME FORTSOOTH, THIS YOUNG NEW MEMBER FROM DULUTH

TOM MAKI - 4106 Gladstone Street - Duluth, Minnesota - 55804
I'm glad to be a member of the NRC. I am 15 years old. My interests in radio are very broad, but I enjoy MW DXing the most. Since last Fall, I've logged 30 states & four provinces. I have just 17 veries, but I have been sending quite a few reports recently. I plan to DX throughout the Summer, and, hopefully, increase those totals. 73.

AND ANOTHER YOUNG FELLOW FROM KENTUCKY!

LYNN GILLIS - Box 105 - Bloomfield, Kentucky - 40008 7/24/79
Hello! Nobody's heard of me, probably because I just joined. I am 14 (that's right) and have been DXing the AM band since February. I have 20 QSL's so far but just sent off for nine more. I've been getting veries from the powerful stations so far so I can get to the smaller ones. If you have some helpful tips for a young teenager just starting out with a GE table radio, I'll be happy to hear from you. Just write to my address above. My best catches so far have been WBAP-820 and WBZ-1030 and CJBC-860, which was difficult because I don't speak French. That's all I have to say. Happy DX.

AND STILL ANOTHER NEW MEMBER - IN TENNESSEE

SIDNEY E. MARSHALL - 7224 Pam Drive - Millington, Tennessee - 38053
This is my first Muse. I have been a member since April '79, the same time I got back into DXing, after being away from the dials for almost 30 years! I'm 48 years old, married, and use an HF2200 and an EM-2 for my DXing. So far, this Summer has been pretty good as I've had only seven or eight days where the CX were real bad, since April, and have logged 290 stations during this period. I'm for keeping the clear channels as they are, in fact there are several of them that carry programs that I listen to on a regular basis. Now a bit of DX news: WJDQ, Meridian, Miss. is now using their new call sign WDAL as I heard them @ 7:45pm (CDT) on 7/20. I noted on the night of 7/10 WNOE was running full power (50kw) due to the hurricane approaching the Louisiana coast. On the morning of 7/13, while doing some SES, I got three in a row on 1570: WCRL, VSSA, & WCLE, all within a 15 minute period! Good DXing and 73's.

AND ONE MORE NEW MEMBER IN LAST YEAR'S CONVENTION CITY

MALCOLM MAXWELL - 1041 Tulin Street N.W. - Apt. A - Atlanta, Georgia - 30318
Greetings from Atlanta! I visited Houston, Tex. the third week in June and took a side trip to Del Rio to visit KRF. Once again, a late night DJ, Cheve Valdez, is playing rock-n-roll and selling records! (Shades of Wolfman Jack). I talked to the staff and discovered that the station had been down to 50kw for about a month, but should be back to 250w soon. The staff said they plan to go back to 500kw, but Chuck says he's heard that one before. While at KRF, I went on the air with Cheve Valdez, playing a bunch of oldies I took just for the occasion. Cheve usually runs a tape rr show @ 2:30am EDT. I taped a show, too - anyone hear it? Do any other listeners use old radios? I have several, going back as far as 1925 that work very well indeed. Anyone else made some catches lately on an old set? Locally, WRNG-660 is going fulltime soon with directional pattern - look for it.

JOHN'S ON THE MOVE AGAIN!

JOHN HOOGERHEIDE - 1290 42nd Street Plaza - Apt. 2 - West Des Moines, Iowa - 50265
I moved again, this time to I-0-Way. Phone number will be 515-225-8330. I'll be looking forward to Wintertime DX from this new location. I will be in ST. LOUIE. C U there.

SOME FINE DX "DOWN UNDER"

JOHN L. ALLCHIN - 18 Burwood Crescent - Remuera - Auckland 5, New Zealand 7/21/79
Times are EDT. Time to report on recent DX here. I had a successful DXpedition to the East Cape DX site at Te Araroa late last May even though I had to cut my trip short due to work commitments. Two new states were logged though. KAEN-920, Little Rock, Ark. cut through severe 3YZ-918 het w/continuous EZL mx 3:07am and full ID @ 3:16am 5/22. Other new state was from KAA-1560 Aberdeen, S.D. first noted 5/19 @ 5:22 w/c/w folo to CBS NX @ 6am, poor through severe 2ZH-1557 slop but no het. Tape reports sent to h th. Three Des Moines station heard was KCBC-1390 w/just low first heard 5:55 am to 6:19 5/22 w/'K-C-14' IDs, probably one of my best catches ever atop the KCEY/EGER mixture during very unusual CX. Another newie was KMO-1350 fair o/KGE 7:40am w/het on 1359 kHz w/fam NX & extensive ID 7:45am. XETRA-690 5/21 7:55am w/EKUA off w/continuous EZL o/c/w station underneath. R. Antilles-930 s/on 4:55am with anthem topping EKH and 2ZA-927 slop, ID @ 5, then into inspirational mx. Tentative on KS00-1140 in Sioux Falls for S.D. #2 w/clear "K-Scobie" jingle on tape w/KEAK off 5/21, 6:30am, soon lost to another needed, KJJ, North Las Vegas mixing w/am SS, probably the Mexican. WSE- 750 Atlanta w/ Larry King to 4:59am, then ID & into NBC NX @ 5, best ever heard and disintegrating 3ZA-747 splash. KYNO-1300 surfaced above the group w/KY-NO ID and into Peach Boys, newie @

(Allentix) 8:18am 5/22. Reports were also sent to ZR10-910 (third try), KZ00-1210, KIPA-820, KU-U-1500, CPUN-1410, KEST-1530, KLIF-1190, KCEY-1170, KRKO-1390. Veries from KCBC (v/r - darn! That's all I get for my best catch - I don't reckon that they get many reports from down here); KEO (v/q, v/l) KCBQ (v/q) XETRA (v/l) Antilles (v/q) KELI (v/q) KYNO (v/l) and from f/upe KYXI-1520 (v/q), WSM-650 (v/q) and KSLM-1390 (v/l,f) which was heard 11/27/78 ETing when running daytime power of 5kw-ND. CE is sending a T-shirt too and says "... I've just recorded a tape to use in future tests, using both voice and international Morse code identification. The code portion of the message runs several minutes at about five words per minute. If you're interested we'll pre-arrange at a time when you can monitor." This looks like a DX TEST folks, and I have sent the necessary reply suggesting around MM 11/19/79 when I hope to be at Te Araroa and during the U.S. DX season. Hopefully their 5,000 watts NE can penetrate Eastwards. It took three tries to get a verie but it was very friendly w/apology for delay. I will advise NRC in plenty of time if he gives the go-ahead to the TEST. I should have a verie from KRO-1350 as HANK WILKINSON of Santa Rosa is kindly dropping by with my tape report. The CE didn't reply to my first written report. That's it for this time, verie signers sent to ERC. 73 for now.

THE WVLC-1170 TEST

of Sunday, August 5, was NOT on. Their CE & GM is on vacation, and they are going to do their Pp either on the first Sunday or the first Monday of October. We are trying hard to talk him into the Sunday AM time of 4 a.m. so as to coincide with WVVA's silent period, but he prefers to do the test on a Monday AM just after midnight. We shall see.

LAST CALL TO ST. LOUIS! REMEMBER, NEW MEMBERS ARE EQUALLY AS WELCOME AS THE OLD GUARD. EVERYBODY ALWAYS HAS FUN AT N.R.C. CONVENTIONS, SO IF YOU'VE NEVER GONE, BREAK THAT LOSING STREAK RIGHT NOW AND MAKE YOUR RESERVATIONS FOR THIS EID SHINDIG, COMING UP LABOR DAY WEEKEND, August 31, & September 1-2-3. A GREAT TIME IS ASSURED FOR EVERYBODY! WILL WE SEE YOU THERE? THE MORE THE MERRIER! TREAT YOURSELF- ATTEIND!

Man ties up broadcaster at WVCH

Dave Schmidt

CHESTER - A 19-year-old broadcaster for WVCH-AM Radio, which has been the recent target of bomb threats and vandalism to its tower, was tied up by an armed masked man who ransacked the studio.

Police were detailed about 6:15 p.m. Wednesday to the radio station's studio in the Wolf Building, 3rd St. and Avenue of the States.

They found Daniel Hunt, of Villanova, who was bound and lying on a sofa in the office area.

Hunt told police he was in the broadcasting room when an unidentified white male, about 30-years-old, wearing an orange and black ski mask came into the room carrying a chrome revolver.

He called Hunt a "religious freak" and tied him up at gunpoint.

The intruder then began knocking over the main control unit and equipment.

The amount of damage was unknown.

The religious oriented radio station, which has been in existence 31 years, terminates its programs at 8:15 p.m. daily, a station employee said.

The station was on the air today, she said. She declined further comment.

The vandal was reportedly wearing blue pants and a light blue shirt, shiny black shoes and driving gloves.

C&W back in Boston

The Committee for Community Access, a Boston-based citizen group has withdrawn its objection to the license renewals and transfer of WACQ(AM)-WTK(FM) Boston now that WDLW(AM) Waltham, Mass., induced by \$20,000, has agreed to broadcast country music.

CCA, spurred by the area's country music lovers, filed petitions with the FCC to deny renewals and transfer of the stations in January 1978 after a change in their formats from country to AOR (on the AM) and adult contemporary (on the FM) left the Boston area without a country-formatted station. Although those petitions were denied by the FCC and the transfer from Plough Broadcasting to GCC Communications was approved, final FCC order of the transfer was being hung up by a petition for reconsideration filed by CCA (BROADCASTING, March 5).

Plough, eager to resolve the matter for both financial and public relations reasons, negotiated a three-way deal whereby WDLW would broadcast country music for five hours every Saturday night for 40 weeks and CCA would withdraw its petition.

For its part, Plough agreed to pay WDLW \$20,000 for filling the country, music vacuum and CCA \$6,000 to compensate it for legal fees and other expenses incurred in the matter.

Stan Morss Broadcasting

The Bearing Straights

Rod O'Connor

KICY INCREASES POWER

KICY has filed an application with the Federal Communications Commission (FCC) to double KICY's power from 5000 to 10,000 watts, both day and nighttime.

If granted, the power increase would give KICY AM the strongest nighttime signal in Bush Alaska. In addition, the station's owner, Arctic Broadcasting Association, Inc., has chosen what is called the "pulse duration modulation system" for its proposed new 10,000 watt transmitter, which will give the station a louder sounding signal than stations using equal transmitter power during daytime hours.

The application was filed with the FCC April 2. If granted, the higher power will make KICY AM the first full-time 10,000 watt station to operate in Bush Alaska.

KICY AM celebrates its 20th year of broadcasting April 17th. It is the pioneer Bush Alaska broadcaster and the first to provide live network broadcasting to the Bush.

Arctic Broadcasting Assoc., Inc. also operates KICY FM which is the only FM station operating outside the major cities of Alaska.

January 4, 1965, seemed like a good Monday morning for a DX session. It was very cold and windy, but so clear. It must have been made for DX by the Big DXer in the Sky. I had been DXing a total of four years from my home in Cranford, New Jersey, and like most other NRCers had some states yet to hear. With over 500 stations heard I had yet to hear biggies like Arizona, Montana, Idaho, Washington, Oregon, as well as those "other two". My receiver was a Heathkit GR-91 and a 500 foot antenna strung in the trees behind the house. Somehow I had a good feeling about this night's session. It had been an unusually good SSS outing earlier with two Arkansas stations logged on s/off. Like other DXers I had a list of most wanted stations that I would try for every M in the hopes that one morning I would get them. In 1965 it was not unheard of hearing KEEN-1370, KWIZ-1480, KWYO-1410 and KEKO-1460 in the East! The session started off unremarkably with several missed s/off's, only the SSE. Then around 1:55am EST I drifted over to 1190 kHz and to my amazement W0W0 was not on or even testing. Something though was on 1190, deep in the mud but definitely there. I cranked up the volume to my ears could not stand it and was shocked to hear good old American music, good old American country music. I stumbled for my log to see who in the world this could be. Surely it was distant. Who could it be? 1190 kHz then had KEX, KLIF, KEZY & KRDS plus a local WLIE, which I knew it was not. The time was now 1:59am. Come on ID, I called out, please ID, you ##\$%&@. At 2 a.m. EST the mystery station went into a long deep fade. Was I to lose it forever? Please come back! Two or three excruciating minutes of dead silence went by, my ears were straining to hear anything. I cursed myself for not putting in new tubes like I had planned to. Suddenly, at 2:04am the station started coming back in, it was getting stronger, for a fleeting minute I was reminded of Tinkerbell and everyone clasping, come on baby, I called. By golly, it was getting stronger. And the best part of it was it was starting its sign-off, who was it? The next few minutes I was numb, the s/off went something like "At this time Radio Station KRDS in Tolleson, Arizona leaves the air - KRDS operates on 1190 kc/s. with a power of 250 watts as authorized by the FCC." I could not believe it - I was hearing a 250 watt Arizona station. I wanted to scream out in the night to tell someone, but who? Everyone was sleeping. The station by now was off, I lunged for the tape recorder and wound it to make sure I was not dreaming or wishing. Sure enough the tape had captured this most welcome and new station. At that point the best DX these old ears had ever heard. More on this very special morning of January 4, 1965, later.

ON THE STATION'S STATIONERY - W0WA-1170

Dear Mr. Cooper: You are right about our scheduled downtime. It is normally from 4 a.m. to 6 a.m. on the first Sunday of each month. Sometimes we change it to meet more current demands. When this is the case, we usually take from 1 a.m. to 6 a.m., and when necessary, more Sundays per month. I hope this will be of some help to you. -Sincerely (signed) Carl Miller, Chief Engineer

HAS A NEW R-390/URE - A STEVE BOHAC PRODUCTION 7/30/79

ERNEST R. COOPER - 5 Anthony Street - Provincetown, Massachusetts - 02657 617-487-9337 Only one more veris, but a good one, CFDR-660, after four tries. I enjoyed seeing their CM in the last issue for 790 kHz - they've been on 680 for over three years, and that is not their pattern on 680. DX down the Month- 6/21- Unn W0CS-1400 toping w/"Mx to Drive By"- c/w mx it was. 6/23- A noisy AM, & another WYFA-1580 test c/CEJ @ 1:02. UnID TTer on 1450 1:03-1:15 when they went away, and one on 990 1:32-2:11 & on. SM 6/24- TTer on 1320 today, 1:32-1:40. Super-stupor pest WPTR-1540 was OFF this morning; imagine it being a pleasure to hear KXEL, hi. MM 6/25- W0OC-1090 logged on ET/TT 12:27-12:41 for a newie, no verie yet. TTer on 1300 @ 12:35-12:42 end w/no ID. I heard W0KY-1530 s/off @ 12:47 w/SSE. Unn CHD-1470 w/record offer @ 1:17. 6/26- Another try, another failure - for the W0IO-1310 r/c. Somebody holding down 1550 w/TT 12:23-12:37 & on. WRKO was off again today, & I got a new log on CFDR, first time heard on 680, along with three other Canadians, & no USAers all in/out: CKGE, CIYQ, & CPTR, w/CFDR. 6/27- Cl mx on 860 @ 1:49, unID, likely KEUN. TTer on 1450 2:33-2:35. 6/28- No WHPL-610 r/c heard. W0US-1490 on top w/NX @ 1:05 after soccer coverage. TT-800 2:23-2:28. 6/30- Unn WALL-1340 on top today, first time heard on Cape Cod (by me, that is). 7/1- Unn HJKO-1140 heard at s/off @ 2, till 6am their time (EST). MM 7/2 very noisy, only oddity was WNET-1530, Shenandoah, Pa. testing like WTTI usually does, unn. 7/4- On 133c, TT 1:51-2:15. Then, we took off for Fairview, N.J. & STEVE BOHAC's where I dropped off my #2 Hammarlund HQ-180 and picked up R-390A/URE, made by Motorola, which is now my #1 DX set. Then on to Brooklyn, N.Y. for a few days of enjoyment at the nude beach at Rias Park, hi. I missed my usual visit to EILL WURTZEL; he was "being bussed", hi. We had to lug that R-R-A-Y-Y R-390 up three flights of stairs in Brooklyn, not daring to leave it in the car, parked on the local streets. The first DX with it was 7/12, back in Provincetown & a TT on 1330 around lam, no IDs. 7/13- TT-1450 1:03-1:28, no IDs heard. Who has EZL mx on 1550 on RS @ 1:25-2:15-plus - sounded like W0ES???? SM 7/15, nothing, noisy, CKJD-1110 strong. MM 7/16- WHHD-1320 r/c-TT & mx w/ID @ 12:50am. I heard Herb Jepko on 790 @ 1:34, but gone after 2. UnID s/off-810 at 2:01 w/O Canada - who might this have been? WLBZ-620, unn, atop @ 2:10. W0KBW was off for a bit around 2:15. 7/20- Trying for WKDH-1430 r/c I heard TTs 12:48-12:49, but that was it. On 1290, only ID by Savannah seems to be "Radio 94"(FM). New for Larry King network: W0W0-1240 WTVR-1380 WKBR-1250 & WHIO-1290. 7/21- W0CA-570 has eliminated the 8-second time lag on the L.K. Show. And me lady, I'll be seein' y'all in ST. LOUIS. I'll arrive in the afternoon on Thursday, 8/30 & leave Labor Day morning. I hope to see YOU there!

Table with columns for call signs (A-J), names, and frequencies. Includes entries like A - Henry Lazarus, B - Scott Parker, C - Ray Arruda, D - Stan Morse, E - Steve Ponder, F - Bill Regan, G - John Allchin, H - Rick Carr, I - Dave Fox, J - Ernie Cooper. The table lists various stations and their frequencies across the spectrum from 550 to 1230 kHz.

Note the two new abbreviations in the type of veris column - b means bumper sticker, and w signifies window sticker. We have quite a number more v/s on hand - watch for them soon. THERE ARE MORE NRCERS OUT THERE VERIFYING THEIR CATCHES! PLEASE SEND US YOUR SIGNERS!

NRC CONVENTION '79

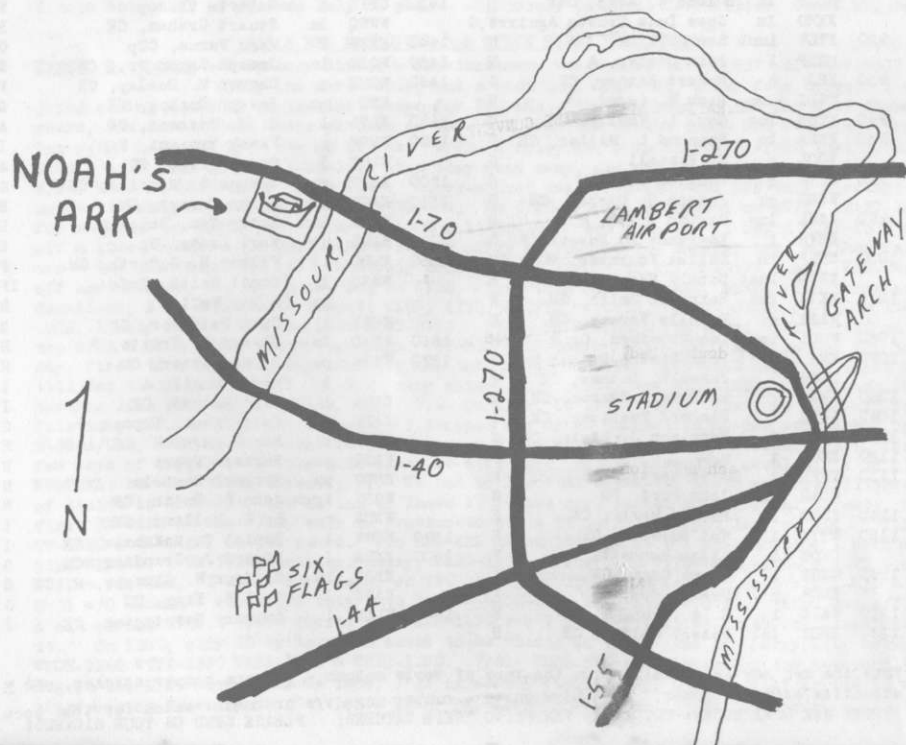
This year's convention over the Labor Day weekend (September 1-3) will be an important one for NRC. In addition to the usual attractions such as the tours, buffet-banquet, auction, etc. we'll have a special business meeting, which will to a great degree, set the course for NRC for the next decade. An election of the Directors of NRC will be held. Currently the Directors are the LPC staff. We'll also discuss the effects of inflation on NRC operations, the present number of issues vs. possible changes in frequency/format of publication, continuity of NRC--including possible changes of responsibility within our formal structure. So, plan to attend.

Our site this year is the Noah's Ark Motor Inn located just west of the Missouri River on I-70 at the 5th Street exit in historic St. Charles. (Tricky of us to hold the St. Louis Convention in another city, hi!) The motel has all the usual features such as gift shop, room service, limo service to the nearby airport, swimming pools, cocktail lounge (with Coors beer?--LPC), two restaurants, snack bar, game room, etc., etc.....

How do you get to this great place? By car St. Charles is easy to find (famous last words) via Interstates 70, 40, 40, 44 and 55. By plane you will arrive at St. Louis Lambert International Airport. Ignore the "nearby" in above para as the airport is 10 miles away, hi! For you real gas-savers who'll use Greyhound or Trailways, both serve St. Charles.

Near our convention HQ are shopping centers, numerous places to eat, and plenty of places to visit. Talk nice and Lou Buehler will take you on a tour of Historic St. Charles, which has among other things Missouri's First State Capitol.

Reliable sources tell us here in Louisville that the parties responsible for your welfare in St. Louis this Labor Day are Walt Breville, Rich Eddie, Rober Giannini and Lou Buehler. So, come join the fun and send your registration in NOW so that the Bi-State Boys will know how many of you dedicated souls will be there.



1979 NRC ST. LOUIS CONVENTION REGISTRATION

Mail to: Louis Buehler, 42 Jamestown, St. Peters MO 63376

Please complete all items and mail as soon as possible, as it will make things easier for the convention committee if we have some early indication as to the number to expect.

Name _____ Phone _____

Address _____

City _____ State _____ ZIP _____

_____ I plan to attend the Convention

_____ I will stay at the motel _____ I will not need accommodations at the motel

_____ I will // _____ I will not take part in the buffet-banquet (mark one)

_____ I will take part in the tour // I will not take part in the tour _____

I will be arriving (date-time) _____ // I will depart _____

I will travel via _____ car/ _____ bus/ _____ plane/ _____ boat/ _____ bicycle/ _____ other/

The registration fee is \$15, this is to cover the cost of refreshments, hospitality room, etc.

The registration fee may be paid on arrival but it would be appreciated if you paid when sending in this form.

NOAH'S ARK MOTOR INN--ST. CHARLES, MO

ROOM PRE-REGISTRATION, NATIONAL RADIO CLUB CONVENTION, SEPTEMBER 1-3, 1979

Name(s) _____

Address _____

City _____ State _____ ZIP _____

Arrival date _____ Departure date _____

ROOM PREFERENCE (all rooms have queen size double beds)

SINGLES (1 double bed) _____ 1 person \$23.50// _____ 2 persons \$28.50
each additional person \$3.00

DOUBLES (2 double beds) _____ 1 or 2 persons \$31.00// _____ 3 or 4 persons \$36.00
each additional person \$3.00 Children under 12 stay free.

FIND OUT WHERE
THE FUN IS!

