



# DX Monitor

Devoted Exclusively to  
Broadcast Band DXing

February 16, 1980

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Issue Number 541

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## DX Calendar

Mon Feb 18	WROM-710, Rome, GA, 1000/500 w non-directional, will test 0130-0230 EST w/ tones and/or mx, plus voice IDs. If you don't hear it 2/18, try 2/25. It might be rescheduled. Address: John Steadham, CE, WROM, P.O. Box 1546, Rome, GA 30161. N. Zank, NRC.
Mon Feb 18	KURL-730, Billings, MT, 500 watts, will test 0200-0230 w/tones, frequent IDs, and gospel mx. Send reports to Albert Ortman, CE, KURL, P.O. Box 31038, Billings, MT 59107. Pat Hartlage, NRC.
Mon Feb 25	WJWL-900, Georgetown, DE, 1000 w, D1, will test 0100-0200 EST, or possibly until 0230, w/proof of performance test using TTs w/varying freqs and modulation percentages. They will have a special "signal beacon" for DXers. Send reports to Stephen G. Wallace, CE, WJWL/WSEA, P.O. Box 111, Georgetown, DE 19947.
Wed Mar 5	WJAZ-960, Albany, GA, 5000 w, DA beamed mainly southwest. Will test 0000-0030 ELT using 1000 Hz tone & ID every 40 seconds. Phone: (912)432-9181. Send reports to the CE's personal address: Sam Dudas, P.O. Box 772, Albany, GA 31702. Jim Wallace, IRCA.
Mon Mar 17	KMNS-620, Sioux City, IA, 1000 w, will test 0130-0230 EST w/TT, music, voice & code IDs. Send reports to Steve Roberts, CE, KMNS, Box 177, Sioux City, IA 51102. Wayne Heinen, NRC.

**Central DX Roundup.** No CDXR this week, undoubtedly because Bob Lazar's mail hasn't caught up with him at his new address yet. As a reminder, Bob has resigned as CDXR editor; if you're interested in taking over the column, contact our president, Father Jack Pejza, 212 S. Carpenter Road, Modesto, CA 95351. The main qualification is that you live somewhere in the central U.S. or Canada.

**WGIG.** The test 2/11 was definitely on, per Phil Bytheway, who called them. The test was with 1000 watts. They've been operating with this power since December, instead of 5000 watts, because the 5kw transmitter self-destructed and a new one had to be built. They should be back to full power shortly.

**KASY-1220** in Auburn, WA is now 2.5 kw D3, per Jef Jaisun.

**Deadlines.** As a reminder, the deadline for last minute tips, test announcements, etc. is Monday. Allow at least 3 days for mail delivery from anywhere in N. America. Last minute information phoned in by 2000 PIT on Monday will normally make it into that week's DXM. My phone number is (206)522-2521. Bear in mind that about one week is needed to get DXM printed and into the hands of most members. For example, this week's issue is being put together 2/11 and will go to the printer 2/12, will be mailed 2/15 or 16, and will reach most club members 2/19 or 20 (2/18 is a postal holiday, I believe). 73 til next week.....Bruce Portzter





# EASTERN DX ROUNDUP

Bob Curtis, 17 Cobbleview Dr., Colchester, VT 05446

DEADLINES: Mondays - All times are Eastern Local

## Splatter:

"Two more veries needed for 100." Mike Saltmarsh - NH  
"...had been on since 0100." (see WSAO-1550) Paul Mount - OH

- 590 WOV NE, Omaha 1/29 0213 w/rock, ID as "WOV, the music station".  
In ell o/Cuba. (PRM-OH)
- 910 WNHV VT, White River Jct. 1/31 1622-1624 Fair. Spot for a place  
in West Lebanon, NH. Never heard here before. (MPS-NH)
- 1280 WGBF IN, Evansville 1/29 0057-0100 Fair to blasting at 0057-0100  
at laundry and good at 0115 at home w/rock. New. (PRM-OH)
- 1290 WIRL IL, Peoria 1/29 0040-0043 at laundry, counts as new, as in  
Nelsonville, rock mx, note null this way towards WHIO (PRM-OH)
- 1550 WSAO MS, Senatobia 1/29 0230-0234 w/country then s/off w/invoke to  
join in morning. New, good. Per call to stn, "testing out a  
new tube", had been on since 0100. Format a mix of adult con-  
temp, country, some rlg. No tests soon. v/s Walter Hearn.  
(PRM-OH)

## REPORTERS THIS ISSUE

PRM-OH Paul Mount, 35½ West Columbus St., Nelsonville, OH 45764

GE Superadio

MPS-NH Mike Saltmarsh, 33 Fowler St., Penacook, NH 03303

Mont'y Wards 1479A, Nat'l NC-183 + longwire

\*\*\*\*\*

Mike Saltmarsh remarked, "Surprisingly I heard WNHV today, which is a relog. I never heard it here (Penacook); but have heard it at New London NH, about 20 mi. from here." (ed: It's heard here on the opposite side of the state with fair signal strength all day long.)

73 and good DX

Bob Curtis

# Yes, there really is a WKRP; it's a young Georgia peach

By Phil Whitesell  
Knight-Ridder Newspapers

**W**ITH millions of people nationwide seeing his station's call letters every Monday night, Mitch Leopard doesn't worry too much about his promotion budget.

The CBS television network does it for him for free when it airs "WKRP in Cincinnati," on Mondays at 8 p.m.

Leopard, you see, is vice president and general manager of WKRP radio in downtown Dallas, Ga. It's a three-month-old, 1,000-watt rock and country-western station located about 35 miles northwest of Atlanta, and serves the 3,000 citizens of Dallas and another 40,000 or so in surrounding Paulding County.

And no, Leopard says before a caller can pop the question, he doesn't have anyone quite like Jennifer, the buxon receptionist played in the television program by actress Loni Anderson.

"We have three female employees, all good-looking," Leopard said, "but they don't quite measure up to her."

Leopard may be right, figuratively speaking, but he makes no bones about why he picked the call letters that often leave business contacts and curious callers giggling.

"I had originally applied for WDLs, but an Atlanta station (with similar call letters) objected," Leopard said. "I started looking for something else that would be suitable. New stations are always trying to figure the best way to gain an audience and also get a lot of publicity.

"After a fair amount of consideration, I wondered if there was a WKRP. I looked it up and saw that there wasn't. The next thing I did was call the FCC call letter office."

When federal bureaucrats told Leopard that MTM Enterprises (the producers of "WKRP in Cincinnati") had reserved the call letters, Leopard reminded them the producers of the show weren't broadcasters and had no right to the call letters.

"I pursued it and I got it," Leopard said, and WKRP in Dallas, with a staff of five and studios in a renovated house, was on the air by Sept. 22, 1979.

"On the business end of it, people will get a piece of mail from us and do double takes," Leopard said. "If we do business on the telephone, they laugh until they can compose themselves. The call letters have broken the ice many times. If you can get past the laughter, we do all right.

"But the publicity we get can't be believed. We've been interviewed by networks in Australia and Canada, the Atlanta papers and West Coast newspapers. We've been in Record World."

Though the image of the staff in "WKRP in Cincinnati" sometimes borders on the ludicrous, Leopard said the real WKRP is run by young professionals. There are no hog reports or religious shows on WKRP in Dallas, no disc jockeys like laid-back Dr. Johnny Fever and Venus Fly-trap, but Leopard is trying to get actor Howard Hesseman (Fever) to come to Dallas for a promotional appearance.

The real WKRP goes off the air at dusk and its directional signal goes only about 25 miles, he said, but the notoriety has been good for business.

San Jose Mercury News, 1/28/80 via  
Robert Wien



# WESTERN

Nancy Hardy

2301 Pacific Avenue  
Aberdeen, WA 98520

# DX ROUNDUP

All times are  
Eastern Local

Phone for hot WDXR tips: (206) 532-6827 till 10:30pm(PLT)-no collect calls  
DEADLINES: Thurs. 2/21, Thurs. 2/28, Thurs. 3/6, Thurs. 3/13, Thurs. 3/20

## REPORTERS FOR THIS ISSUE:

- (HC) Herb Childs-1810 Euclid #22-Berkeley, CA 94709  
TRF, RF-2800
- (WJH) Bill Harms-University Station P.O. Box 7428-Provo, UT 84602  
Modified FRG-7, 3' wedge
- (RtH) Ric Heald-1058 Sanchez St.-San Francisco, CA 94114  
Hammarlund HQ129X, 9 cm wedge
- (JKL) Jack Lattemann-314 NE 56th St.-Seattle, WA 98105  
Modified FRG-7, Radio West 22" ferrite MW loop
- (ASL) Albert Lobel-P.O. Box 26762-San Diego, CA 92126  
FRG-7, DX-150A, car radio
- (MEM) Mark McMillan-Rt. 3 Box 381-Rathdrum, ID 83858  
HQ-180, 880' SE Beverage
- (bp) Bruce Portzner-6546-19th NE-Seattle, WA 98115  
HQ-180A, 4' loop
- (RW) Robert Wien-1309 Dentwood Dr.-San Jose, CA 95118  
GE long-range portable, SM-2

- \*\*\*\*\*  
600 KOGO CA, San Diego 1/29 may have been on emergency power all day.  
Noted extremely weak in this part of San Diego, the  
Peñasquitos area. May have been caused by the extremely heavy  
rains & high winds we've been having here. Still weak here in  
Peñasquitos as of this writing. We're expecting even more  
heavy rains & still stronger winds tonight so will watch  
tomorrow for KOGO to maybe be completely off the air. (ASL-CA)
- 690 KGGP KS, Coffeyville 1/27 0710-0715 Kansas nx, sports, wx, ID. Fair  
mixing w/XETRA. (MEM-ID)
- 710 KFIA CA, Carmichael 2/4 0406 wx, ID, into MOR mx. QRM Fiji-711 het  
and KMPC ET. (WJH-UT)
- (KMPC) CA, Los Angeles 1/28 0400 seems to have developed a MM SP.  
Noted off several MM's lately. (ASL-CA)
- \*WGBS\* FL, Miami 2/4 0410 booming in w/ID. On ET. KFIA, Fiji, KMPC  
QRM. New, state #35. (WJH-UT)
- 750 KMMJ NE, Grand Island 2/3 0807 fair, alone w/talk about Nebraska,  
health care increases. KCBS off as usual to 0900. (RW-CA)
- 780 \*KCRL\* NV, Reno 2/4 0404 brief TT, male anncr. w/"This is KCRL Reno,  
conducting proof of performance measurements" at 0405, more TT.
- 790 KEKA CA, Eureka 2/1 1918 spot for Toyota, followed by ID (JKL)  
"This is your place to be for music. KEKA Eureka." Female DJ.  
I'm confused. Is this a daytimer like predecessor KDAN, or  
fulltime? Signal replaced by usually dominant KABC by 1921.  
(RtH-CA) (KEKA is D-1, 5000 watts.--NH)
- KSPD ID, Boise 2/3 0800 good at s/on, topping KGHL w/mentions of  
ownership by New Life Broadcasting, "broadcasting for the  
Treasure Valley." Straight into hymns. New. (RW-CA)
- 870 KAIM HI, Honolulu 1/24 0504 fair u/WWL w/s/off. Not all that  
common. (RW-CA)
- 930 KAFF AZ, Flagstaff 2/1 2013 good signal o/KHJ w/wx & road cx rpt.  
Female DJ w/"Better give you the weather & road cx before we  
sign off here at KAFF." Unn, but not hrd in several yrs.(RtH)
- KYSS MT, Missoula 1/24 0833-0839 weak but readable u/KSEI w/Ai nx,  
into Paul Harvey, PSA, then farm nx. Sure sounded like 200  
watts! New. (RW-CA)
- 940 KMGX<sup>t</sup> AZ, Tucson 1/28 0440 no ID, but hrd talk of a job placement  
center w/phone no. of 882-5530. A check w/MaBell revealed that  
the no. 882-5530 is located in Tucson & is that of an  
employment agency. Most likely KMGX. Not new, so not logged.
- (KPRE) CA, Fresno 1/28 0308 totally off. KIOA & CJIB (ASL)  
alone. (RW-CA)
- 950 KYES OR, Roseburg 2/1 s/off 2042 w/xmtr & studio location. S/off  
song a la Sons of the Pioneers style followed. Good signal w/  
XEGM still off. Unn, but not hrd in some time. (RtH-CA)
- 970 KBEE CA, Modesto now announcing "Beautiful mx, KBEE." (RtH-CA)



KBEE +1/27 0508 now AN, unsure of exact hours. ID "You'll enjoy the music, here at the all-new AM-97." Just barely o/the mess, so no problem, KYTE still kills them. (RW-CA)

1000 KMLO CA, Vista 1/23 1900 "This is KMLO" into nx. Dominate on SE Beverage. (MEM-ID)

1010 KIQI CA, San Francisco format has changed from pop to OLD. (RtH-CA)

1060 WNOE LA, New Orleans 1/28 0640-0645 DJ sports splatter, ID into mx. CFCW nulled on NW Beverage; WNOE dominate. (MEM-ID)

1130 KWKH LA, Shreveport 1/28 0400-0405 YL w/nx, sports & wx, and ID into mx. CKWX faded out for once in a bleem, hi. (MEM-ID)

1150 KPLS CA, Santa Rosa format has changed from MOR (BBD) to CWM. Obviously, a fulltimer trying to put daytimer KVRE out of business. (RtH-CA)

\*KSAL\* KS, Salina 2/4 0123-0125 on per reply from CE. Informed bp of this, but perhaps a bit too late for other members. Solid TT to 0125, ID, TT. Very weak u/KIIS et al. (RW-CA)

1250 KNCO CA, Grass Valley 1/24 1002 finally after 9 months of trying! Way down in the mess u/KHOT/KTMS/KWSU/KNEU w/ID "Good morning, nx of the valley, the state, the nation, on KNCO, Grass Valley" quickly gone. Puts no power in this direction whatsoever. (RW)

1260 \*KYA\* CA, San Francisco 2/4 0443 w/TT. (RW-CA)

1280 KWMS UT, Salt Lake City still all-news Mon.-Fri., but now MOR w/ regular nx blocks on weekends. Still off MM. (WJH-UT)

1290 KAPY WA, Port Angeles 1/31 1057 atop w/ad & wx, using NW Bev. (MEM)

1340 KATA CA, Arcata 1/30 0342 ID by YL was clearly KATA or KAPA. Presume closer KATA. Does KAPA ever make it to Calif.? (HC-CA) (KAPA is usually off by this hour.--NH)

KIST CA, Santa Barbara 1/30 0347 hrd ID twice, ads, mx. (HC-CA)

KRAM NV, Las Vegas 1/30 0354 hrd "kay-ram" above the GY glop. That their slogan? (HC-CA) (Believe it is!--NH)

KLOO OR, Corvallis 1/31 1049 fish & game report, ID, into school Lunch menus. Atop. (MEM-ID)

KAPA WA, Raymond-So. Bend 1/31 1100-1110 "This is kap-pa radio KAPA South Bend" into local nx, mx. Atop for 10 min. (MEM-ID)

1360 KOHU OR, Hermiston 1/31 0159 call letters & wx, quickly faded u/ KPTV & KMO. (HC-CA)

1410 KMYC CA, Marysville 2/4 0445 1st time noted on a MM. NSP now? (RW-CA)

1450 KYOU CO, Greeley 1/28 1850 wx then faded fast. (MEM-ID)

KTXS MT, Whitefish 1/28 1932 wx, into mx. Per call s/on 0800, s/off 0200 (EST). AOR or contemporary. May get CPC test in Feb. 1/29 1930-1950 dominate. ID's as "1450-KTXS" & SID "KTXS, Whitefish--Columbia Falls." Ai nx. (MEM-ID)

1480 KONP WA, Port Angeles 1/31 & 2/1 s/off noted both days. (MEM-ID)

KARO WA, Vancouver 1/31 0320-0340 same format, 24 hr NSP. Per call, DJ said they had been using new call for 3 weeks. (MEM-ID)

1490 KJQN UT, Ogden 2/4 0330-0458 much-wanted, finally hrd u/CJPR/KRNR w/rock mx & Acn features. "15-KJQN" ID at 0457. (bp-WA)

1540 KMFO CA, Aptos-Capitola 2/1 1935 usual good daytime signal. PSA, ID "we're KMFO, Radio 1540." (RW-CA)

1560 KCJJ IA, Iowa City 1/28 0500-0505 ID into nx which ended w/SID. Mistook this before for KKAA. (MEM-ID)

DX TESTS:

850 (KGOE) CA, Thousand Oaks 2/4 0300-0400 nobody there but KOA. It was fun hearing DX'ers call in on their talk show. (HC-CA)  
 +2/4 0310, 0335, 0415, 0438, 0457 not noted at any of these checks, so not on. Unneeded anyway. (RW-CA)  
 +Fat chance! Nothing but KTAC/KOA. (bp-WA)

900 KUEN WA, Wenatchee 1/28 noted at 0330 & still there later. (MEM)  
 +1/28 0304-0308 start of test at 0304 w/ID, straight into TT, ID 0305, TT, ID 0306, TT till 0308 then suddenly off. Did not reappear unless there was OC for next 22 min.! Weak u/CJVI/XEW  
 (KUEN) 1/28 0300-0330 not hrd, but not expected w/only 1kw and (RW) a strong XEW. (ASL-CA)

920 KVEL UT, Vernal 1/28 0720 after nx "This is KVEL Vernal, UT. This is not regular programming. This is a special DX test."  
 Dominating freq but taking beating from KSEI-930 slop. (MEM-ID)  
 (KVEL) 1/28 0715 not noted, probably not on. Also not on at 0745 recheck. This I needed, not KUEN. (RW-CA) (Was oni--NH)

F/C's:

1st MM: KQIK-1230 OR 0300-0315 (RW-CA)

Have two unID's, but will hold them for next week. ♡





**DX****Worldwide**Elliot Straus  
Editor

All times UTC

Deadline Tuesdays

Box 168 - RedBank, NJ 07701 - 201-736-1681, M-F 18-2200, Wed 10-2200 ELT

TRANS-ATLANTIC DX ROUNDUP (All from Mark Connelly)

- 567 IRELAND Tullamore 0018 Jan 23, fair w/OM in EE.  
 576 UNID 0019 Jan 23, singing in noise, 575 het present.  
 719 PORTUGAL Norte 2213 Jan 22, good w/soft mx., then OM in PP.  
 738 t SPAIN 2250 Jan 22, poor w/avant-garde discordant cl. mx.  
 747 UNID 0025 Jan 23, strong carrier w/1khz. TT.  
 756 W.GERMANY/PORTUGAL 0026 Jan 23, Braunschweig w/pop mx. mixing w/Lisboa w/cl. mx.  
 756 PORTUGAL Lisboa 2231 Jan 26, loud & dominant w/cl. mx.  
 765 SENEGAL Dakar 2157 Jan 21, in w/huge signal on car rx.; demolishing WAAC: OM in AA.  
 774 SPAIN Cacares 2200 Jan 22, potent w/OM in SS, 3 sec. of mx., time pips, then nx. Also 2232 Jan 26, w/SS talk garbled by a fast multiple-stn. SAH.  
 782 PORTUGAL Miramar/Porto 2233 Jan 26, poor w/muffled audio- PP talk, weaker than 783.  
 783 E.GERMANY Burg 0028 Jan 23, dominant w/cl. mx. at low audio level, atop 782 Portugal het.  
 819 MOROCCO Rabat 0100 Jan 23, poor w/OM AA moaning. This stn. doesn't seem to pack the signal that it had a few years ago.  
 882 t ENGLAND 2240 Jan 26, strong carrier but too much WCES slop for good copy of audio; light string mx. seemingly // 909.  
 909 ENGLAND 0119 Jan 23, fair thru WRNL slop w/YL soprano operatic vocal. Also 2240 Jan 26, to strong peaks w/background mx., type group version of old Petula Clark song.  
 945 t FRANCE 2247 Jan 26, Toulouse the likely source of cl. mx. poor-fair o/u TV QRM.  
 1035 PORTUGAL 2354 Jan 26, fair w/disco, o/SAH.  
 1044 E.GERMANY/MOROCCO Burg & Sebaa-Aloun at even strength, slow SAH resulting @ 2359 Jan 22. Noted again, this time w/SAH evidence of a third stn. @ 2351 Jan 26.  
 1053 ENGLAND Start Point 2354 Jan 22, fair w/rr mx.  
 1061 PORTUGAL Azurara-Norte 0001 Jan 23, in w/cl. mx. at low audio level on fair strength carrier.  
 1089 ENGLAND Orfordness 2356 Jan 22, in w/strong carrier, mx. //1053, chopped up by WBAI slop. Sometimes BEC-1089 is hetted by something on 1088 around 2200 GMT, but no audio of any significance has been pulled up on the 1088 stn.  
 1206 FRANCE Bordeaux 2207 Jan 22, good w/OM in FF, QRMing WCAU on car rx. in Boston.  
 1233 t MOROCCO Tankier likely w/apparent OM AA chant, heavy SAH (prob. from the Czech.), badly slopped by WESX @ 0006 Jan 23.  
 1287 CZECHOSLOVAKIA Praha-Melnik 0008 Jan 23, potent S9+20db. w/cl. mx. Stronger than 1422/1593 Germans.  
 1395 t ALBANIA Lushnje the probable source of a powerful OC here. @ 2313 Jan 26.  
 1521 SAUDI ARABIA/CZECH 0015 Jan 23, bits of chanting mixing w/inst. mx., trashed by WKBW. The het on WKBW was quite obvious even on the clock radio in the bedroom.  
 1554 UNID 2308 Jan 26, carrier, bits of exotic mx. 1557 was in as a het on W4XR at the time.  
 1566 TUNISIA Sfax 2306 Jan 26, strong w/AA violin mx. but suffering deep fades which were rapid.  
 1593 W.GERMANY Langenberg 2259 Jan 26, fair/very fadey w/light mx., GG talk. Oddly, it peaked best w/loop pointed due north.

PAN-AMERICAN DX ROUNDUP

- 540 ECUADOR Guayaquil HCFA2 0800 Jan 22, faded up to magnificent full ID (R.Tropicana) by YL. OM talk, then fade. (Hall-Patch, B.C.)  
 540 COLOMBIA Bogota/HJKA 0759 Jan 22, pulled 'Emissora de RCN, Radio de Colombia' out of erud, just before above took over. (Hall-Patch)  
 700 JAMAICA Montego Bay 0700 Jan 22, 'JBC Radio One' ID followed by Nx. Ended w/American sounding commercial about 'JBC News'. Dominant on channel but w/fades. // 750 & stronger. Country #38. (Hall-Patch, B.C.)

- 720 UNID 1118-30 Jan 28, SS in WGN null on MM., not much mx, had YL  
ancr, did not sound Cuban. CA suspected. (G.Martin-Co.)
- 735 ECUADOR Quito R.Melodia 0343 Dec 29, lite mx. SS talk & R.Melodia  
ID's. (Harms-Ut.)
- 750 JAMAICA Port Maria 0648 Jan 22, huge @ 750.140 (5hz. error), WSB  
only a het. Cricket broadcast, ment. of W.Indies. Faded @ 0700  
of course, but picked up wx/mx in // 700 from 0705 on.  
(Hall-Patch,B.C.)
- 775 COSTA RICA San Jose TIW R.Uno 0648 Jan 25, in unusually well w/  
rr mx. (Portzer-Wa.)
- 780 CUBA Camaguey CMJW 1001-05 Jan 22, beating up KCRL w/good signal,  
better than WBEM has ever been. (McMillan-Id.)
- 780 MEXICO (unid) 1210 Jan 28, obvious Mexican in WBEM null, 'la  
musica ranchera'. Misplaced the Mexi-Glenn list so don't know who  
it might be. (G.Martin-Co.)
- 785 UNID 0938 Jan 23, strong het to good carrier, but no audio.  
Ecuador? (McMillan-Id.)
- 810 COLOMBIA Bogota HJCY 0950-1000 Jan 22, R.Sutatenza ID, almost over  
KGO. (McMillan-Id.)
- 830 DOM. REP. Santo Domingo HIJB 0600 Jan 22, SS stn. noted trading  
places w/WCCO. Mixture of Latin & US pops & ads. Finally ID'ed @  
0622 w/'HIJB' jingle & Santo Dom. ment., by now way o/WCCO. Nice  
surprise; country #37. (Hall-Patch,B.C.)
- 834 BELIZE RB 0430-0510 Jan 23, arm-chair copy w/EZL mx., NX on hr.  
s/off @ 0510 after NA. (Harms-Ut.)
- 840 COLOMBIA Santa Maria HJBI 0500 Jan 26, to 0505 s/off. long ment.  
of stn. w/Colombia ment. into NA. pegging s-meter, then carrier  
only. (McMillan-Id.)
- 854 PERU Lima OAX4A 0315 Jan 24, R.Nacional ID. lots of audio thru  
KOA. (McMillan-Id.)
- 890 COLOMBIA Bogota HJCE 0935 Jan 22, 'LV de Bogota' ID, strong as WLS.  
(McMillan-Id.)
- 975 UNID 0506 Jan 23, strong signal w/SS mx. Ecuador? (McMillan-Id.)
- 995 ECUADOR Guayquil 0435 Jan 23, LA mx & SS talk. R.Suceso ID.  
HCE's also hrd on 975, 1005, 1015, & 1025. (McMillan-Id.)
- 1025 COSTA RICA R.Fidos 1200 Jan 28, alone & weak. (G.Martin-Co.)
- 1035 UNID 1151 Jan 28, surely that is too late for Haiti, anyway looped  
westward from Haiti., and faded by 1200. (G.Martin-Co.)
- 1075 COSTA RICA San Jose TIPC 0250 Jan 23, //5055. Mx., SS talk, fair-  
good, some KRLD slop. (Harms-Ut.)
- 1160 COLOMBIA Barranquilla R.Aeropuerto ID noted @ 0217 Jan 23, listing  
of this one on 1580 in 12/8 DXWW is apparently a typo. (Stanbury)
- 1160 CUBA Cadena Habana 1st positive ID noted @ 0405 Jan 26, again @0429  
Jan 27, is presumably the 10kw. xmtr formerly on 790. (Stanbury)
- 1205 CAYMAN ISLDS Georgetown 0635 Jan 25, assumed the strong OC, loop-  
ing Caribbean. (Portzer-Wa.)
- 1668 BELIZE RB (2nd Harmonic-ed.) 0205-0230 also 0405 Jan 23, //834.  
Also 0425 Jan 24. (Stanbury-Ont.)

#### TRANS-PACIFIC DX ROUNDUP

- 639 UNID 1445 Jan 24, het in KFI null. too late for Fiji. (Portzer-Wa.)
- 657 NEW ZEALAND Wellington 2YC 0952 Jan 25 w/cl. mx. //882. (Martin-Ore.)  
+0900 Jan 28, carrier quite weak & no audio. My notebook tells me  
I checked for NZ on 21 mornings in Jan., occasionally found carriers  
but no audio. Was much better in Jan-79 when I could hear 882 &  
756 almost every AM. Was actually getting bored w/them. Terrible  
CX for DU's this Jan. (G.Martin-Co.)
- 660 ALASKA Fairbanks KPAR 0730 Jan 21, fair w/rr mx. Some QRM from  
Latin. (P.Martin-Ore.)  
+0641 Jan 24, in well w/rr mx., w/some KBOI slop. (Portzer-Wa.)
- 700 ALASKA Anchorage KEYR 0749 Jan 21, in good w/tele-talk show.  
Heard spot for business on Northern Lights Blvd. (P.Martin-Ore.)
- 702 AUSTRALIA Sydney 2BL 0915 Jan 25, fair w/EZL mx. & anncts.  
Sounded like other stn. under them, but too weak to tell for sure.  
(P.Martin-Ore.)
- 738 UNID 1049 Jan 28, DU carrier here. Think it might be my 1st Aussie  
signal of the forthcoming DU season. Would have been Grafton then  
whcih seems to have the best Aussie signal in my diggings.  
(G.Martin-Co.)

- 747 AUSTRALIA Toowoomba 4QS 1000 Jan 25, hrd w/ABC nx. (P.Martin)  
 750 ALASKA Anchorage KFSD 0720 Jan 21, talk show w/Herb Chamblin.  
 Herb has been w/stn. since early 60's, tho he was mainly a DJ  
 when I was there. (P.Martin-Ore.)  
 +0634 Jan 24, blasting in w/rr oldies. (Portzer-Wa.)  
 756 NEW ZEALAND Auckland 1YA 0857 Jan 23, fair w/ancts. on upcoming  
 pgms. just before nx @ 0857. (P.Martin-Ore.)  
 765 NEW ZEALAND Hastings 27K 0912 Jan 23, also fair w/cl. mx. Haven't  
 heard 27K for some time, quite a surprise. (P.Martin-Ore.)  
 774 AUSTRALIA Melbourne 3LO 1102 Jan 25, w/ABC nx. about equal w/747.  
 (P.Martin-Ore.)  
 819 NEW ZEALAND Rororua 1YZ 1009 Jan 23, w/EZL mx., ancts. (P.Martin)  
 837 NEW ZEALAND Whangarei/Kaitiana 1YX/1YK 0835 Jan 22, presume both  
 as they are // on 837 w/EZL mx. & ancts. Almost equal w/1ZD-1008  
 which was interesting as 837 runs only 2 kw. (P.Martin-Ore.)  
 864 NEW ZEALAND Invercargill 4ZA 0838 Jan 22, // to 837-1008 w/Tonite  
 Show, Wayne Mount was on phone, into rr mx. (P.Martin-Ore.)  
 873 AUSTRALIA Sydney 2GB 0958 Jan 26, w/racing results. (Martin-Ore.)  
 882 NEW ZEALAND/AUSTRALIA 1YA/4EH 1107 Jan 23, both fighting it out  
 for freq. (Martin-Ore.)  
 891 FIJI Lautoka-Fijiii 0700 Jan 22, in w/EE programming. When into  
 Hindi @ 0800. Apparently they dropped their EE pgm. after 0800.  
 They were EE from 07-0900 daily. Haven't been able to catch any  
 EE on Fiji I freq., like 1206, only Fijian. (P.Martin-Ore.)  
 + 0958 Jan 26, Hindi vocals, quite weak. (Williams-Ore.)  
 927 FIJI Sigatoka Fiji I 0731 Jan 28, in Fiji w/old US MoR, w/YL ancr.  
 (P.Martin-Ore.)  
 945 SOLOMON ISLDS Gizo 0933 Jan 27, mixing w/4MK/3LB w/old US c&w.  
 Lang. sounded like native tongue rather than EE. (P.Martin-Ore.)  
 990 HAWAII Honolulu KHVH 0659 Jan 28, atop freq. w/all nx format, ads.  
 into net nx @ 0700. (P.Martin-Ore.)  
 1017 TONGA Nuku Alofa 0640 Jan 22, in Tonganese. (Martin-Ore.)  
 1035 NEW ZEALAND Wellington 2ZB 1100 Jan 27, //1008 & 1026 w/Tonite  
 Show. (P.Martin-Ore.)  
 1044 NEW ZEALAND Dunedin 4ZB 1105 Jan 27, // 1026, 1035, 1008 w/Tonite  
 Show. (P.Martin-Ore.)  
 1323 FIJI Rakiraki Fiji I 0733 Jan 28, //927. Hear het there every  
 night, but can only get listenable signal about once a week.  
 (P.Martin-Ore.)  
 1404\*\* W.SAMOA Apia 0747-0803 Jan 28, finally hrd in Somoan w/YL ancr.  
 Caught commercial type anct @ 0753 w/several ments. of Apia, &  
 Samoa. No direct ID at top of hour. Taped, and reported. Was  
 strongest 0750-56, faded by 0803, but hard to tell anything.  
 (P.Martin-Ore.)  
 1476 USSR Vladivostok 1536 Jan 20, YL in CC. lots of slop. (Williams-Or)  
 1548 AUSTRALIA Emerald 4XD 1132 Jan 23, hrd w/cl. mx. (P.Martin-Ore.)  
 1566 S.KOREA Cheju HLLA 1342-58 Jan 24, good signal w/JJ talk & relig.  
 mx. (Harms-Ut.)  
 1575 THAILAND VOA 1555 Jan 20, EE nx or Commentary pgm. Fair signal.  
 Frequency ancts. for SE Asia. (Williams-Ore.)  
 1593 NEW ZEALAND Manakua 1149 Jan 22, hrd w/phone show 'A.Pacific' ID.  
 (P.Martin-Ore.)

#### CONTRIBUTORS:

- Mark CONNELLY 30 William Rd. Billerica, Ma. 01821  
 R-390A, NW-1  
 Nick HALL-PATCH 3272 Alder St. Victoria, B.C. V8X 1P2  
 Transmog. HRO, FET loop, DX-150A, PFM stuff.  
 Bill HARMS Univ. Stn. Box 7428 Provo, Utah 84602  
 Mod. FRG-7, 3' wedge.  
 Gene MARTIN 3303 E.Evans Ave. Denver, Co. 80210  
 Patrick MARTIN POB 843 Seaside, Ore. 97138  
 Scott (Navy rx.) 230' lw.  
 Mark McMILLAN RT3 POB 381 Rathdrum, Idaho 83858  
 Hq-180, 880' SE bev. 1300' NW bev.  
 Bruce PORTZER POB 21074 Seattle, Wa. 98111  
 Hq-180A, FRG-7, SB-620, loop  
 C.M. STANBURY II RR#1 Ridgeway, Ontario L0S1N0  
 Hq-200 90' lw.  
 Dave WILLIAMS Box 615 Hwy 101 Astoria, Ore. 97103  
 SPR-4. 360' lw.

# EASTERN DX FORUM

Paul Mount  
35-1/2 W.Columbus St.  
Nelsonville, Ohio 45764

BILL TOWNSHEND 4500 Connecticut Av NW #901 Washington DC 20008  
(202) 966 8046 Jan 25

In my last Forum, I said that DX was rolling in--famous last words, hi. Since then, only seven newies have landed in my log over 18 days, despite almost daily SSS sessions and a couple of MM sessions, five domestic and two foreign. One was HJAC-1400 Barranquilla Colombia on a GY channel (I've heard enough HJs to recognize some Colombian mx, especially with the accordion playing; I guess I was lucky when this momentarily popped to the top of the GY heap); the other was the Guatemalan radio beacon RAB-1613 Rabinal. In a couple of days I'll be off to FL and the Bahamas although I'll be back home before this hits the DXM. I'll take the TRF along (ready for a barrage of LA's, hi) for a few midday DX sessions, especially in the Bahamas, and with luck, I might bag a TA catch or to at night, using a coconut palm tree aerial like I did in the South Pacific. It's definite now that WEAM-1390 has SP each MM, with the wee hours DJ, the YL known as "Toni the Night Owl" observing her Sabbath that night. I guess this is SOP (Standard Operating Procedure) before s/on. (I might be wrong on some detail, but I studied enough radio to know s. of XR ops): filament voltage goes on first, then grid voltage, and finally plate voltage, with the final PA stages and tank ckt last (the last button pushed being the red "Radiate" button). When on PSA power, all stages are actuated except the final PA stage (also when on night pwr). When securing the xr after s/off, "radiate" is off first, then plate, then grid, then finally filament voltage with the high voltage capacitors grounded before any preventive &/or curative maintenance is done. When an OC is heard, that means the final PA stage plate voltage is on, and the tank circuit is in the radiate mode. 1.5369\*\*\*8 (coupled exponential) which is 73 and good DX de WPT.

KARL V. JETER 3590-C Clubhouse Circle East Decatur, GA 30032 Jan 28

Greetings, and welcome to our new editor, and "farewell" to the former one. I recall meeting both Paul and John at the NRC Convention here in Atlanta in '78; how can I forget those anguished cries over the phone from a stranded John Zondlo at the airport? Good luck to him in his new endeavor in OK, and hope he continues in the club. January has been, as that month traditionally is, a good month DXwise. Lots of veries in--12 to be exact, and the month's not over! Here they are, w/v/s on their way to Susan S: WEBQ-1240 (v/1 in 7 days), WPPA-790 (v/1 in 5), WDIA-1070 (form in 19), WROZ-1240 (not 1400?-PRM) (v/1 in 13), WUST-1120 (form in 14), KIRT-1580 (v/1 in 11), WKBC-810 (v/pp in 5 on 2nd rpt; 1st rpt unanswered over several years w/many f/ups.), WJES-1190 (v/1 in 30 w/flyer abt freq change), WKKS-1570 (v/1 in 13), WJBO-1150 (v/f in 16), WBRG-1050 (v/1 in 7), and finally, the 1st verie of the 80's for me, WMMH-1460, a v/1 in 5 days. Many rpts out during Jan. as well, so I hope I can keep the 'Momentum' going. Those 12 veries make total 912. Picked up a copy of the new Communications World today, and I was pleased to see some improvement in White's Radio Log; looks like it's been redone completely and is a lot more accurate. I use it mainly for FM info heard during AM s/on & s/off's, but the city listings of AM stns come in handy. Perhaps I should close w/a re-intro for those who don't know me. I'm 26, married since May '79 to lovely Linda, and a draftsman/designer at Kawneer Architectural Products in nearby Jonesboro GA. I've been DXing since 1969 roughly; began seriously around '72 (keeping logs, etc.) I joined NRC in 1973 and IRCA in 1977. My heard totals are 1370, mostly domestic. My veries date to 1969, w/my 1st one being WCFL-1000. I use a HQ-150 unmodified and a self-made 4' NRC altaz loop w/ a Steve Bohac amp. Other equip includes a TRF, busted SM-2 and assorted taping equipment. Also have a MFJ SBF-2 SSB filter that is always used. Running over, me thinks, so 73's for now.

All Eastern U.S. members plus Canada, etc. are invited to send in a re-introduction for the Anniversary Issue dated March 15. Have your Forum in by March 3 and specify it's for the Anniv. Issue if you would. Deadlines here in Nelsonville look to be Tuesdays, 12 days ahead. \*PRM.

C.M. STANBURY II RR #1 Ridgeway, ON LOS LNO

I was very interested in Foxworth's comments about Falkland Islands reception on 2370 & 536 kHz (1/26 DXM). Certainly, as he suggests, one would expect some correlation between propagation on the two frequencies. However I've heard 2370 when geomagnetic cx were NOT disturbed--eg 12/19 11/22 & 23(dates are EST). Further there doesn't seem to be any correlation between reception on 2370 and that of the alleged Argentina Antarctic station on 49M. All of which has raised a good many unanswered questions about propagation from the Antarctic region and indeed it might be worthwhile to watch for Falklands on 536 as well as the McMurdo beacon (MC) listed on 518 kHz. Unfortunately, since its power boost, Falklands has apparently not verified for any NA DXer. Meanwhile ref. JZ's suggestion (1/5 EDXF) that ECB pirates could someday QRM 160M hams, it seems to me that pirates could generate interest in the new ECB freqs and create an audience even before licensed stations get on the air. Best Stan.

ERNEST R. COOPER "The Village Idiot" 5 Anthony St. Provincetown MA 02657  
(617)487-9337 Jan 29

It was interesting to read the sequel to "The Perils of Pauline" in the 1/26/80 DX Monitor. We could call it, "The Pinings of Paul", hi! Seriously, the section looked fine after Paul's first column, and lots of luck with it, oh tall one! If any of you should feel like calling me, please bear in mind my sleeping hours are 9p to 1a (roughly), then I get back up and DX till about 3 am, then back to bed, so please don't call between 9 and 1; between 1 and 3a is fine, particularly if you have a good DX tip to pass along. Oh yes--not on Friday mornings, 'cuz Thursday night is my "night out". I have a big mystery station, on MM 1/14, from 4 to 5 am on 1500 kc/s., who was playing c/w album sides, with one break by a F ancr at 4:32a? The ID came during a badly distorted fade, as luck would have it. WTOP & WCZY were off. Verie count here is 4132, with my first verie dated 12/28/32. It came from WPIW-940 in Hopkinsville, KY which has evolved into today's WAVE-970, Louisville, a station I heard only recently, on Thursday AM 1/10 at 2:30 am. I applaud Paul's statement in an NRC musing that he welcomes Forum reports from dual members, as long as they aren't carbon copies of that member's musing. I agree 100% w/Bill Wurtzel's limerick in his 1/26 Forum. In some South American cities like Bogota, locals are now separated by just three frequencies--if the 9 kc/s separation comes into use in the Western Hemisphere, that distance between locals will only be 27 kilocycles! Stations in San Jose, Costa Rica are only 25 kc/s apart now--how will they fit them into this plan? Chaos is on the horizon! To close, these pearls of wisdom:  
There was a poet, Pete Wirtle  
Whose brain indeed was quite fertile  
Once I said to him, "Peter,  
You must indeed watch your meter,  
Because sometimes you weigh down your last lines with so many syllables they  
could break the back of a large-sized snapping turtle!" --Yerks.

BILL WURTZEL 32 West 31st St. New York, NY 10001 Jan 29

Thank you Niel Wolfish for your letters. I wrote back, but it took a month. Only the usual DX is coming in lately. A battle w/our landlord over building problems is consuming a lot of my time. There's a new stn operating and reaching the whole country. The call letters--WSD--Women Should Be Drafted. If the draft comesback, many club members may be getting new addresses. When the mails are slow, remember, it was well planned/ the Post Office must be undermanned. WGBF-Wurtzel Can Be Funny. (When do you start(WDYS)-PRM). With a lot of mediocre music filling the airwaves we wonder What Happened to Radio-WHTR. (WHTR Nelsonville? see #6 EDXR-PRM) It's getting late.  
DXing at sunset I heard WDRG  
Then its Connecticut neighbor WPOP  
All the regulars WERE there  
Including WARE  
And good old faithful WTOP!

Hi there folks, I'm your DJDirty Dave  
Playing hit records for you on KAVE  
You won't hear disco  
Or music that's slow  
'Cause I only play lots of New Wave!

MARK CONNELLY WALION 30 William Road Billerica, MA 01821 1 Feb 1980

"Rush Hour DXing" - Like many others, I frequently find myself mired in nearly-stopped traffic trying to get home at the end of the work day. Some stuck in traffic lean on their horns and make obscene gestures at other motorists, but, to paraphrase a bumper sticker, "I'd rather be DXing". The focus of this drivetime DX turns to TA's during the late autumn and winter when sunset coincides with the homeward commute. As I leave Teradyne in Boston (around 5 p EST) and head north on Route 93, I first check 'old-reliable' Senegal-765. Usually it's there, doing a number on WABC. Furthermore, Spain-774 usually joins in to hammer WABC from the other side. We are talking about WABC groundwave here; under halfway-reasonable cx, WABC skip won't be loud until a half-hour of good sunset TADX has elapsed. Portuguese stations on 719, 756, & 1061 usually dominate w/just slight hets from weaker adjacent domestics. France-1206, Mauritania-1349, Albania-1395 W. Germany-1422, Monaco 1467, & Saudi Arabia-1521 are usually in with strong hets, sometimes with perfect audio. My drive takes me on the elevated Central Artery in Boston: this provides a commanding view of the harbour and equally commanding TA reception. Skyscraper blockage to the west helps by causing some attenuation of domestic pests. I hear TA stations on the car rx there that I can't hear on the R390A at home. BBC-909 often puts a mean het on WABI; audio surfaces occasionally. Land blockage takes a heavy toll on the TA's on route 93 from Medford northward; often, only 765 still provides clear audio inland. Dakar peaks up on the section of I-93 overlooking Spot Pond in Stoneham. Route 93 meets Route 128 in Reading; I go west on 128 from there, then northward on Route 3A to Billerica. In Billerica, north of 128 (the "electronics belt highway"), the path to Senegal goes over eastward-projecting Cape Ann while farther-north TA routes go out to sea over Ipswich/Plum Island, considerably closer. Therefore, while Senegal-765 is regularly better than Spain-774 in the Stoneham area, Spain usually provides the stronger het on WABC in Billerica/Tewkesbury. This observation is very consistent from night to night. DXing Maritime Canada is another drivetime pastime; CBN-640 NF, often accompanied by a Spain-639 het, is my "conditions indicator". In AU cx, Surinam/Guadeloupe control 640 at sunset. 73 for now.

PAUL MOUNT 35½ West Columbus St. Nelsonville, OH 45764 (614)753-3280 to 02

A nice turnout for column four. This typer didn't look as bad as I feared 1/26, which I'm glad of, as this is my own typer, a Royal portable from the 60's. Mark's Driving DXing was interesting to read of; Mark, is your car rx modified in any way? I know car rxs tend to be good to overcome excess noise problems, but pulling 909 audio past 910 seems too good to be true. I wind up not going to bed until about 2 am every night regardless of what time my first class is; I think this lifestyle comes somewhat from being a DXer, as I'd stay up past midnight in the summer to DX or just listen to WKBW as I did a survey or something in my high school years; once I was a DXer I became a night person. So my SRS catches come only when I stay up the whole night. Recently I've been bringing the GE Superadio out here to the kitchen to tune around as I read homework or type, and add to my IRCA contest totals. Turnout is nothing like entries of old--see IRCA history below. I usually turn the knob while driving around sunset time, too, and count anything heard in Nelsonville w/an asterisk in the logbook. Now to give way to myself. Deadline Tuesdays. 73-PRM"N"

#### TEN YEARS AGO IN IRCA

Announcement that NRC Log #2 costs \$1.22 third class...Ray Arruda, just out of army, given suggestion to listen to "former IRCA member Geoff Fox" on WSAR...56 entrants in DX contests including Cliff Reno of New Canaan CT(now of KNIX "fame")...One contest had teams of DXers w/1000 mile separation... PFC Bill Hardy reporting from Panama...Consistent ECDXR reporters:Ken Lyon-Clarence Center NY, Bill Peek-Roanoke, Richard Ryholm-Marietta OH, Frank Waldron-Matawan NJ, Bradford Wall-Newport RI...Ron Schatz in Guam...DXKW divided into East, MidWest, West reporting sections...Tim Davison says he got weekend job at WCUE(later to work Q105 Tampa, WWWE, WDBN)...WCDXR reporters: Dan Adams-San Jose CA, Gary DeBock-Puyallup WA, Mike "Doc" Hardses-Modesto CA, Pat Martin-Warrenton OR(last 2 still heard of today), Kevin Slater-Salem OR...These taken from bulletins bought at Peoria Convention, I now have most of the 70's bulletins of IRCA in my collection.-Paul Mount.

# western DX forum



Ric Heald  
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Phone (415) VAlencia 1-0447

## 1980 Deadlines

16th Anniversary Issue—06 March 1980

Weekly—Every Thursday 9 Days Prior To Publication Date—Thru 20 March 1980

Future 1980 Deadlines—03 & 17 April, 08 May, 05 June, 03 & 31 July

Remainder of 1980 Deadline Dates TBA by Seattle

□ □ □ □ □ □ □

MIKE BERNARDIN, 5831 MEZZANINE WY., LONG BEACH, CA 90808 - 29 January 1980  
\*\*\*\*\*  
Hello to everyone. After nearly six months in IRCA I thought it was about time for an intro: I'm 17 and a senior in high school. Next fall I will be attending Long Beach City College. I have been DX'ing as a whole since 1976, but on CBE only since 1978. I use an FRG-7 with a 70-foot longwire and a Radio West MW-1 loop antenna which I received this past Christmas. I've heard 21 states with my best heard probably WCKY Cincy or WKBW Buffalo. I also belong to ASWLC and NNRC. Recently there has been talk about some DX'ers using info in the Roundup columns to write phony reports. My personal feeling is to continue sending lots of details (after all, is that what Roundup columns are there for?). And if these clowns continue to do it - so what! It doesn't hurt we faithful majority. It only hurts the ones who does it. I'll end my first forum by noting my recent QSL from KYTE 970 Portland. They stated in their letter that my report was the first they have received since the format change from rock to country. 73 and good DX de MLB. (Welcome to the "hallowed" pages of WDXF, Mike. Please report as often as you can-RtH).

MARK MC MILLAN, RT 3, BOX 381, RATHDRUM, ID 83858 (208) 687-0350 -  
29 January 1980

\*\*\*\*\*  
Hi gang. Since tonight is the worst SSS I've heard yet, I conjured up a pen and started my second forum. Yesterday I got KYOU 1450 Greely, CO @ 1850 and KTXK 1450 Whitefish, MT new station @ 1932, both time ELT. KTXK is now an early SSS pest like KJJR. I still wonder if I heard CBT 540 from 0520-0600 with non-stop classical music. CBT? Who knows, hi. (CBT should have been off by then-RtH). LA & TP DX has been good until this week. Several new LA catches as well as many domestic ones. (Long list of stations deleted per Ed. Policy II. c. 1.-RtH). Noted hets on 785, 1035, 945, 1494, 1575, 1206, but being blessed like every DX'er is bombed by QRM and QRN, which mostly wm's. (??-RtH). With luck I'll be bale to set up tests for CPC with KEXX, KCLX, KRRL, KWOI and KWSU. My totals have gone up like gold 825 heard. 36 states, six provinces and 19 countries. I've been with IRCA 3½ years and have been DX'ing 3½-4 years. From that I only really DX'ed from July 13, 1978 to February 1979 and July 27, 1979 to present. 13 July is when I got my HQ-180 for \$75. The guy thought it was shot, ha, ha, hi. It's in mint condition. From 13 July 1979 to 29 January 1980 I've kept a log and in a year and a half I've heard 825 stations. A year ago I had 520 stations and from 27 July 1979 to 29 January 1980 in seven months I got 305 new stations. So far 39 stations in 1980. Niel Wolfish must have got my GY records late because on 1230 I have some that are farther than reported, but not the latest: KRQR, KWG, KVAS, KHSN, KOQS, poss tie on KYJC and KREW. Well, best DX, weather, twx. 73 from the land of ice and snow, W. Idaho. It's currently -20°F. 73 de MEM.

ANDREW J. RIMMINGTON, 559 CLARKE RD., COQUITLAM, BC V3J 3X4 - 29 Jan 1980  
\*\*\*\*\*  
Ooops - it appears that my forum of 30 December or so went astray in the mail, doubtless leaving everyone wondering what I was talking about in the 26 January installment! The reason the earlier one got lost was probably that it was written and addressed in a completely illegible scrawl - the result of having run my hand through a milling machine a few days earlier. No permanent damage done - I was lucky - but I'm still having trouble wielding a soldering iron. (You have a forum in 26 January DXM, that would have been typed here by 17 January - if that's not the missing one, then it did indeed go astray-RtH). My crack about the intelligence of the good people at CFUN referred to a conversation with one of them in which I enquired about some strange spurs that had suddenly appeared (and which

have since disappeared, by the way) and was solemnly informed that (a) it was physically impossible for that to happen; (b) they were aware of the problem, but it was just due to the weather and there was nothing they could do about it; and (c) they expected to have it cleared up in a few hours. Anent NHP's remarks in the 19 January WDXF; CKDA 1220 is certainly one of the worst splat merchants around here. Even out in Coquitlam they give me as much trouble as most of the 50 kw Vancouver stations. And yes, CJVB 1470 does put out an exceptionally clean signal, but there's a reason: they're operating without limiters until the final field readings and pattern proofs for the new 50 kw XR are done some time this spring. To keep it legal in the meantime they are holding the modulation way down, but will increase to normal modulation levels as soon as the limiters are installed. So anyone in this area looking for DX in the vicinity of 1470 might do well to get busy within the next month or two. Thanks to Station Manager Rudy Hartmann for the info and 73 de UGH.

GARY LARSON, 2806 LINCOLN, BURBANK, CA 91504 (213) 843-3098 - 31 Jan 1980  
\*\*\*\*\*  
Fellow members. I was at L.A. Valley College tonight and heard a person in one of the broadcasting classes mention the passing of Jim LaFon PD KZLA. He died that morning of an apparent heart attack. I'm sure if you would like to send a card to KZLA, it would be appreciated and forwarded to his family. Address: KZLA, 5700 Sunset Blvd., Los Angeles, CA 90028. I'm sure that anyone who knew Jim will miss him deeply.

ROB HARRINGTON, 3181 S. YORK ST., ENGLEWOOD, CO 80110 - (Rcvd. 01 Feb '80)  
\*\*\*\*\*  
Greetings from Englewood, CO. It looks like my Realistic DX-300 may be sold very soon. I got a telephone call from a SWL'er on the east coast who wants to buy it. He said he will mail me a money order within three days for the receiver. Now all I have to do is wait and see if a money order arrives in the mail. There is another new receiver on the market, out of Japan. It is the "JRC" NRD-515 communications receiver, made by "JRC" Japan Radio Corp.. Does anyone have any information on it? I've called four ham radio shops and no one has ever heard of it. Help. . . I am missing the Vol. 17, No. 11 issue of DXM. I guess I lost it. Will pay anyone 75¢ for the issue. Please write to me before you send me the issue. I do not want 10,000 copies of that issue that I am missing, I only need one Vol. 17, No. 11. (Why not write Seattle for a copy, Rob?-RtH). Well folks, I should have my new receiver in operation within the next four to nine weeks. I plan to buy the new Kenwood R-1000. Comments on this receiver are still welcome. Gee, it's snowing here again, temp. is 50°F, the high was 130°F, the low will be -80°F tonight; wish I was in Hawaii or San Diego where it is warmer. By the way, the Realistic DX-300 receiver fan club is dead. Yes folks, the club has folded, it died, gone forever. . . 73

PAT MARTIN, P.O. BOX 843, SEASIDE, OR 97138 - 01 February 1980  
\*\*\*\*\*  
DX seems to have picked up here on the coast. Tonga 1017 was S/7 a few nights ago. In fact, Tonga was stronger than I believe I have ever heard them. They were about twice as strong as Los Angeles 1020! Solomon Islands 0126 was also in quite strong, but not nearly as strong as Tonga. Received new veries from KNDI 1270, as a reverification. I verified them years ago when I lived in Alaska. They now have a card. Also received a card and letter from E. Germany 1044. They identified the tape of the Home Service from Dresden. The report was about for 3½ months. I now have Great Britain, France, W. Germany and E. Germany verified from Oregon. Now if I could just hear and verify Africa, but I guess I'll have to wait for the sunspots to decrease. Well, that should do it for this time. . . Good DX.

BILL HARMS, UNIVERSITY STATION, P.O. BOX 7428, PROVO, UT 84602 - Via Tele-Forum: 06 February 1980  
\*\*\*\*\*  
Greetings. I am doing a paper at school (BYU) on the recent decision by the FCC to expand the broadcast band to 1800 kHz. I need any help any of you might be able to give me on: Feasibility of the expansion, Impact on the broadcast industry, Effects on the communication manufacturing industry, Public acceptance - and - what types of stations might go into the newly created 200 kHz band expansion, I.e: low power fulltime or daytimers, etc. I would also like to hear from "oldtimers" who were around in 1941 when the FCC increased the broadcast band from 1500 to 1600 kHz. Would be interested in what types of problems were encountered then. There is only



tiny hitch to this project; paper is due on 24 March, which is not too far off. So if anyone can assist me, it would be greatly appreciated. 73.  
(Editor's Note: Bill didn't mention any DX, but he did say that the only room in the house where he could talk on the phone without interruptions was in the convenience room - but Bill, I could still hear the kid holler-ing, hi-Rth).

NICK HALL-PATCH, 3272 ALDER ST., VICTORIA, BC V8X 1P2 - (Rcvd. 07 Feb '80)  
\*\*\*\*\*  
By the time this appears in print the news will be out, but the Realistic TRF 12-655 has been discontinued in the U.S. to be replaced by a TRF number 12-656. The 655 was discontinued in Canada last summer and the 656 is in the 1980 Radio Shack catalog "available Oct. 30, 1979" (hi). Unfortunately, they just ran a picture of the old TRF and a blurb which mentioned a "tone switch" (as opposed to control). Nobody here knows anything about it of course, and who knows when it will appear? (Did you ever talk to anyone at Radio Shack that was knowledgeable? Hi-Rth). From DX News - Chuck Hutton has found out that the 656 is more cheaply made and uses another IF stage rather than the ceramic filter of the 655. Seems strange they didn't get into IC's as the GE TRF did. The 3rd stage could probably have a transfilter put in its emitter circuit (along with transfilters in the other stages). If the transfilters are chosen for similar frequency response, one might get some reasonable selectivity out of it. We shall see, I guess. Apparently, the 3-gang variable capacitors needed for the TRF design are getting hard to find even for the large manufacturers, which could eventually mean the end of the TRF design. We'll have to start designing our own portable radios next. Strangely enough, the 655s sold quite well locally. They went on sale when discontinued and were quickly snapped up according to the sales staff. Here in mountainous B.C., I guess a good quality AM portable is really needed if you listen outside of urban areas. Although you're more likely to end up listening to KGO rather than a B.C. station! Well, enough for this technical column masquerading as a forum. . . Best of DX to all.

RIC HEALD, 1058 SANCHEZ ST., SAN FRANCISCO, CA 94114 Tele-Forum: (415) Valencia 1-0447 to 0100 ELT and prepaid - 07 February 1980  
\*\*\*\*\*  
Happy President's weekend to all in the U.S. - hope all had a chance to spin the dials on a MM. Finally got the deadlines business typeset and will update as soon as Seattle does, hi. DX? What's that, hi? Have been arising every morning at 0830 and spinning the dial for 30 minutes or so looking for some good SRS catches, but nothing exciting so far. Not even a peep to the west. Re my surprise at local KWUN 1480 now being fulltime, I do remember seeing in Broadcasting Info about a year ago the permission had been granted, but I DX the evening hours maybe four times a year (TVI and dimmers tend to squelch the enthusiasm), so noted KWUN still on past sunset. Has to be U3 - five towers in a line, pencil thin pattern back through Concord (XR NE of the city), and of course, San Francisco is in a direct line to the SW. While traveling through the "wine country" last weekend, tracked down KPLS 1150 Santa Rosa's towers. Three of them, and at the end of Medica Rd., and the end of the road was made for a four-wheel jeep rather than an ancient Rambler, hi. On the way home (after dark) noted that KWUN cannot be heard until the northern approach to the Golden Gate Bridge. Now that's a tight pattern! One more time, I'll hit the instant re-run: Please double space!! And if you handwrite, please make them halfway legible, hi. One I spent nearly 30 minutes deciphering it. Also increases the chances of error. Been sitting on 1230 kHz the last two hours while typing this (2100-0000 ELT) hoping someone would pop up for an ID when I suddenly realized I don't need any 1230 CA or NV and only KVAS, KRNS, KTDO for OR. Now if KFRLR would only slip in for the call change I'll be happy, hi. Please remember the Anniversary issue. Let's make this year the best ever. See you in 7. Good DX to all and 73 de Rth..

Bruce Portzer - 6546 19th Avenue N.E. - Seattle, WA 98115  
Since Ric left some space, I decided to throw in a forum. Re printing DXR details: I'm w/Niel Wolfish and Mike Bernardin. Our first consideration should be whether the info in DXR tips is of any use to honest DXers, not whether or not they could be put to fraudulent use. The very small minority of DXers who will fake a report to a station usually are more clever about getting their material. For example, one west coast 50 kwer once got a very detailed report w/several commercials, etc. Only problem was that the businesses listed were ones that didn't advertise on the station. It seems the person let his fingers do the DXing thru the yellow pages! 73

GRAVEYARD RECORDS:  
[Continental QTH]

1240 STATIONS..  
U.S.A. & CANADA

EDITOR: Niel Wolfish 15 Donwoods  
Grove Toronto, Ontario, M4N 2X4

Call	Location	Miles	Dx'er & his/her	Location
WEBJ	Brewton AL	2042	Allen-Vallejo	CA
WPRN	Butler AL	463	Eddie-St.	Louis MO
WULA	Eufala AL	2124	Allen-Vallejo	CA
WOWL	Florence AL	643	Dabelstein-Lincoln	NE
WARF	Jasper AL	1960	Allen-Vallejo	CA
KWJB	Globe AZ	718	Allen-Vallejo	CA
KCYN	Williams AZ	550	McCullogh-San Jose	CA
KVRC	Arkadelphia AR	736	Sherman-Rosemount	MN
KWAK	Stuttgart AR	808	Wheeler-Erie	PA
KPOD	Crescent City CA	312	Wein-San Jose	CA
KJOP	Lemoore CA	125	Wein-San Jose	CA
KESE	Monterrey CA	52	Wein-San Jose	CA
KPPC	Pasadena CA	2119	Wheeler-Erie	PA
KLOA	Ridgecrest CA	302	Allen-Vallejo	CA
KROY	Sacramento CA	1365	Kaskey-Galva	IA
KBON	San Bernardino CA	445	Neal-Forbestown	CA
KSON	San Diego CA	1365	Kaskey-Galva	IA
KSMA	Santa Maria CA	840	Bytheway-Seattle	WA
KSUE	Susanville CA	1276	Kaskey-Galva	IA
KRDO	Colorado Springs CO	941	Allen-Vallejo	CA
KDGO	Durango CO	788	Allen-Vallejo	CA
KSLV	Monte Vista CO	1030	Bytheway-Seattle	WA
KCRT	Trinidad CO	1335	Wheeler-Erie	PA
WWCO	Waterbury CT	362	Wheeler-Erie	PA
WLCO	Eustis FL	915	Wheeler-Erie	PA
WINK	Fort Myers FL	2464	Allen-Vallejo	CA
WMMB	Melbourne FL	1265	Kaskey-Omaha	NE
WFOY	St. Augustine FL	2383	Allen-Vallejo	CA
WBHB	Fitzgerald GA	783	Wheeler-Erie	PA
WDUN	Gainesville GA	794	Dabelstein-Lincoln	NE
WLAG	LaGrange GA	2104	Allen-Vallejo	CA
WBML	Macon GA	2183	Allen-Vallejo	CA
WWNS	Statesboro GA	735	Edmunds-Kinnelon	NJ
WPAX	Thomasville GA	2216	Allen-Vallejo	CA
WTWA	Thomson GA	612	Wheeler-Erie	PA
KVNI	Coeur D'alene ID	329	Horne-Vancouver	BC
KMCL	McCall ID	837	Deabelstein-Lincoln	NE
KFLI	Mountain Home ID	908	Dabelstein-Lincoln	NE
KWIK	Pocatello ID	879	Markewicz-Winnipeg	MB
WCRW	Chicago IL	404	Kaskey-Galva	IA
WEDC	Chicago IL	955	Belanger-Swan River	MB
WSBC	Chicago IL	334	Sherman-Rosemount	MN
WEBQ	Harrisburg IL	1827	Allen-Vallejo	CA
WTAX	Springfield IL	978	Belanger-Swan River	MB
WSDR	Sterling IL	1732	Allen-Vallejo	CA
WHBU	Anderson IN	325	Wheeler-Erie	PA
KWLC	Decorah IA	598	Wheeler-Erie	PA
KBIZ	Ottumwa IA	1592	Allen-Vallejo	CA
KICD	Spencer IA	766	Wheeler-Erie	PA
KIUL	Garden City KS	1162	Allen-Vallejo	CA
KAKE	Wichita KS	1569	Allen-Vallejo	CA
WINN	Louisville KY	1101	Belanger-Winnipeg	MB
WFTM	Maysville KY	2067	Allen-Vallejo	CA
WPKE	Pikesville KY	299	McCormack-W. Lafayette	IN
WSFC	Somerset KY	690	Sherman-Rosemount	MN
KANE	New Iberia LA	1058	Wheeler-Erie	PA
WMKR	Millinocket ME	334	Brown-Ottawa	ON
WCEM	Cambridge MD	2472	Allen-Vallejo	CA
WJBJ	Hagerstown MD	486	McCormack-W. Lafayette	IN
WHAI	Greenfield MA	383	Wheeler-Erie	PA
WOCB	West Yarmouth MA	865	Taaffe-Dayton	IN
WATT	Cadillac MI	311	Wheeler-Erie	PA
WCBY	Cheboygan MI	696	Dabelstein-Lincoln	NE
WJPD	Ishpeming MI	465	Kaskey-Galva	IA
WJIM	Lansing MI	449	Sherman-Rosemount	MN
WMFG	Hibbing MN	727	Wheeler-Erie	PA
KPRM	Park Rapids MN	391	Dabelstein-Lincoln	NE
WJON	St. Cloud MN	1017	Singer-Richmond	VA
WMPA	Aberdeen MS	661	Kaskey-Galva	IA

WGRM	Greenwood MS	805	Wheeler-Erie PA
WGCM	Gulfport MS	1955	Allen-Vallejo CA
WMIS	Natchez MS	959	Wheeler-Erie PA
KFMO	Flat River MS	623	Wheeler-Erie PA
KWOS	Jefferson City MO	1622	Allen-Vallejo CA
KBMZ !	Billings MT	907	Kaskey-San Francisco CA
KLTZ !	Glasgow MT	1003	Kaskey-San Francisco CA
KBLL	Helena MT	917	Sherman-Rosemount MN
KPOR	Lincoln NE	630	Markewicz-Winnipeg MB
KODY	North Platte NE	1159	Allen-Vallejo CA
KELM	Elko NV	681	Ford-Vancouver BC
WSNJ	Bridgetown NJ	316	Wheeler-Erie PA
KAVE !	Carlsbad NM	1111	McCormack-W. Lafayette IN
KCLV	Clovis NM	1040	Wein-San Jose CA
WGBB	Freeport NY	388	Wheeler-Erie PA
WGVA	Geneva NY	751	Eddie-St. Louis MO
WJTN	Jamestown NY	333	Breger-Long Island NY
WVOS	Liberty NY	270	Wheeler-Erie PA
WNBZ	Saranac Lake NY	80	Morby-Balliston Lake NY
WATN	Watertown NY	236	Wheeler-Erie PA
WPNF	Brevard NC	422	McCormack-W. Lafayette IN
WIST	Charlotte NC	570	Ayers-Jackson MS
WCNC	Elizabeth City NC	640	Eddie-St. Louis MO
WJNC	Jacksonville NC	527	Wheeler-Erie PA
WRNC	Raleigh NC	697	Brown-Ottawa ON
KDLR	Devils Lake ND	998	Wheeler-Erie PA
WCWA	Toledo ON	525	Morby-Balliston Lake NY
WBBW	Youngstown OH	789	Kaksey-Galva IA
WHIZ	Zanesville OH	2143	Allen-Vallejo CA
KVSO	Ardmore OK	1072	Wheeler-Erie PA
KADS	Elk City OK	366	Breger-Austin TX
KBEL	Idabel OK	1553	Allen-Vallejo CA
KFLY	Corvallis OR	759	Kesteven-Edmonton AB
KTIK	Pendleton OR	271	Bytheway-Seattle WA
KPRB	Redmond OR	481	McCullogh-San Jose CA
KQEN	Roseburg OR	485	Wein-San Jose CA
WRTA	Altoona PA	445	McCormack-W. Lafayette IN
WHUM	Reading PA	207	Singer-Richmond VA
WBAX	Wilkes-Barre PA	282	Brown-Ottawa ON
WKDK	Newberry SC	541	Wheeler-Erie PA
WDXY	Sumter SC	570	Wheeler-Erie PA
KCCR !	Pierre SD	744	McCormack-W. Lafayette IN
WBEJ	Elizabethtown TN	802	Dabelstein-Omaha NE
WBIR	Knoxville TN	772	Sherman-Rosemount MN
WEKR	Fayetteville TN	696	Kaskey-Galva IA
WKDA	Nashville TN	1941	Allen-Vallejo CA
WEDG	Soddy Daisy TN	350	Ayers-Jackson MS
WENK !	Union City TN	606	Sherman-Rosemount MN
KEAN	Brownwood TX	683	Dabelstein-Omaha NE
KVLF	Alpine TX	972	Kaskey-Galva IA
KTAM	Bryan TX	380	Ayers-Jackson MS
KOCA	Kilgore TX	1587	Allen-Vallejo CA
KSOX	Raymondville TX	270	Moss-Austin TX
KXCX	Sweetwater TX	1283	Allen-Vallejo CA
WSKI	Montpelier VT	411	Wheeler-Erie PA
WSSV	Petersburg VA	555	McCormack-W. Lafayette IN
WROV	Roanoke VA	785	Bright-Muscataine IA
WTON	Staunton VA	495	Evans-Gary IN
KXLE !	Ellensburg WA	592	Kaskey-Sacramento CA
KGY	Olympia WA	622	Allen-Vallejo CA
WKOY	Bluefield WV	495	Eddie-St. Louis MO
WTIP	Charleston WV	368	Abraham-Bridgeport MI
WDNE	Elkins WV	853	Kaskey-Galva IA
WOMT	Mantiwoc WI	1831	Allen-Vallejo CA
WOBT	Rhineland WI	365	Kaskey-Galva IA
WJMC	Rice Lake WI	1639	Allen-Vallejo CA
WIBU	Poynette WI	1874	Allen-Vallejo CA
KFBC	Cheyenne WY	1272	Wheeler-Erie PA
KASL	Newcastle WY	1000	Wein-San Jose CA
KRAL	Rawlins WY	1043	Winsor-Valparaiso IN
KTHE	Thermopolis WY	822	Allen-Vallejo CA
CKGO	Hope BC	131	Bytheway & Portzer-Seattle WA
CFEK	Fernie BC	562	Belanger-Swan River MB

CKMK	McKenzie BC	531	Bytheway & Portzer-Seattle WA
CKBX	100 Mile House BC	760	Belanger-Swan River MB
CKOO	Osoyoos BC	181	Hall Patch-Victoria BC
CJAV	Port Albernie BC	159	Bytheway & Portzer-Seattle WA
CJAR	The Pas MB	93	Belanger-Swan River MB
CJCS	Stratford ON	175	Byrnes-Rochester NY
CJWA	Wawa ON	314	Wolfish-Williamsford ON
CIRB	Lac Etchemin PQ	177	Beauregard-Norte Dame de
CKBS	St.-Hyacinthe PQ		Beauregard- " " la Marie PQ

+++++  
 Notes/ Loggings denoted by "!" mean that they have been heard by Dr. Wood in Hawaii, and loggings (only 1) with a "!" have been heard by Merv Banks from Invercargill in New Zealand. Well, that's it, see you when 1340 rolls around. 73's from Niel. *Niel Wolfish*

## Northeast DX Information Service

Mark Connelly - WAIION - 30 William Road - Billerica, Massachusetts 01821

### D X T A P E S

I have the following tapes which I can duplicate:

Bermuda locals	(Charles Taylor)	1979	180 minutes
TA DX from Massachusetts	(Mark Connelly)	1975-1976	60 "
LA DX " "	( " " )	1975-1976	45+ "
New Zealand locals 1ZB, 1ZM, Hauraki	(John Allchin)	1977	60 "
US/Canadian stns. heard in New Zealand	(John Allchin)	1977	90 "
Pacific zone DX from New Zealand	( " " )	1977	90 "
English/Irish stations	(Mike McGovern)	1977	90 "
Picadilly Radio/RTE/R. na Gaeltachta	( " " )	1977	90 "
EE European locals from Ireland	(Mark Connelly)	1977	30 "
US/Canadian stns. heard in Ireland	( " " )	1977	60 "
Parade of Boston-area ID's	( " " )	1979	70 "
African DX from Nova Scotia	(Mike Dunn)	1977	30 "
European DX from Czechoslovakia	(Karl Honzik)	1978	90 "

Some of the tapes were made under "in-the-field" conditions with portable equipment; therefore, fidelity is not always up to professional aircheck standards. I have numerous other (unorganized) DX from Massachusetts tapes. If you are interested in copies of any of the above tapes, please send the appropriate blank cassette or reel tapes and return postage (30¢ or 1 IRC per cassette or 60¢ or 2 IRC's per reel tape). Taping is done on a spare-time basis, so please allow up to 90 days for delivery. I also have a large library of Boston-area rock shows, from 1964 to the present. Please write to me before sending tapes if you have requests for material other than the DX tapes listed above. I will write back to you to inform you of the feasibility of filling your requests.

### P R I N T E D M A T E R I A L

Please include return postage (15¢/1-4 pages, 30¢/5-8pages, etc.)  
 There are no other charges for any of this material.

#### DXpedition Logs / Bandscans

Cape Hatteras Groundwave Study	(Mike Levintow)	1975	} 3 pages
southwest Nova Scotia Groundwave Study	(Mark Connelly)	AUG 1975	
Scotland (European stations)	(Peter McGonagle)	1977	
Iceland ( " " )	( " " )	1977	
Ireland (main emphasis on US DX)	(Mark Connelly)	SEP 1977	
Cape Cod Night Bandscan	( " " )	JAN 1979	
Cape Cod Groundwave Study	( " " )	1979	
Azores	(Peter McGonagle)	1979	
Bermuda	(Charles Taylor)	1979	
Composite 4-site GW Study (NS, MA, Bermuda, & NC)	(Connelly/Taylor/Levintow)	1979	6 pages
Africa	(Pete Taylor)	1979	

#### DX/broadcasting articles

(author = Connelly, unless otherwise stated)

Boston radio nostalgia/big band era	(Boston Globe article)		
Trip to New Jersey & Long Island		OCT 1974	
DX from Cape Cod		NOV 1974 & FEB 1975	
Splits heard on Realistic TRF, Sudbury, MA.		1975	
Sudbury, MA. get-together		1976	
Get-together at Bob Foxworth's		1976	(Continued on
TA strategy (old plan channels)		OCT 1976	Page 19)
Boston Radio series /an in-depth study		1976	5 pages



## the irca technical column

Editor: Nick Hall-Patch  
3272 Alder St.  
Victoria, B.C.  
Canada V8X 1P2

The ANARC DX Equipment Information Committee is chaired by Harold Sellers, 3 Camrose Crescent, Scarborough, Ontario M1L 2B5, Canada. This group (of which your editor is a member) contribute to "The Marketplace Report" (edited by Mr. Sellers) which gives news on commercially available DX equipment and modifications. So far the emphasis has been on SW equipment (ANARC has a majority of SW clubs), but I hope to pass on any equipment news which may be of interest to our membership, such as the R-1000 info which appeared in the last column. If you want to know more about this ANARC publication, send a 17¢ Canadian stamp or an IRC to Harold Sellers at the above address.

### Comments on the GE TRF (from Ed Satterthwaite)

I've been comparing my GE TRF to the Realistic TRF, and have the following to add to the Thomas/Barfield conclusions:

Getting reasonable copy on channels adjacent to strong locals is much easier on the GE. In many cases, stations easily heard during a casual band scan on the GE could not be heard without careful nulling of the local on the TRF. With such nulling, the GE remains noticeably better; in very few cases, however, has the difference affected my ability to log a station.

The GE has separate bass and treble controls. This allows limited shaping of the audio pass band which, in my experience, can improve readability. (I find I usually set the TRF for maximum bass, which cuts out a fair amount of splatter and electrical noise but leaves rather muddy audio.)

The wider dial and vernier tuning are big improvements over the TRF, but the calibration is not. With the standard logging scale and a conversion chart, however, I can usually read out the domestic channels reliably.

As others have pointed out, later examples of the Superadio (model 7-2880B) come with external antenna terminals (AM and FM). In my limited experiments with relatively short, random-length wires, attaching an external antenna has actually decreased apparent AM sensitivity. I suspect that a good outboard antenna tuner is essential.

I often listen to KNEW-910. Harmonics of the IF are noticeable and somewhat annoying here on both the TRF and the Superadio. The only bothersome spur (weak KCBS audio on 880 during the day) also appears on the TRF and may well originate at KGO's nearby transmitter.

FM performance of the Superadio is good enough for me. Because the FM spectrum is so null in this area (San Francisco), sensitivity is hard to judge (and not necessarily desirable), but I did note a Fresno station for the first time on FM. Selectivity seems very good, especially compared to other portables, and the sound quality is nice.

Looking at the schematic it appears that the RF transistor is bipolar, and that the entire AM mixer, oscillator and IF amplifier (as well as the power audio amp) are all in one IC. The first point suggests that overloading might be a problem with a good external antenna. My neighborhood suffers from a great deal of locally-generated RF noise at all hours, so I have never required more sensitivity and have never seriously considered a long wire here. Using the internal antenna, I have had no serious problems with spurious responses in this strong-signal area; the extent to which such signals block adjacent channels is harder to judge.

The second point probably means that opportunities for worthwhile modification of the Superadio are very limited. One might imagine replacing or augmenting the multi-resonator filter at the IF input with a mechanical one (or perhaps a good ceramic), but achieving good deep-skirt selectivity seems doubtful (the input and output signals would be separated by just one pin on the IC). Because of the packaging, it's not even obvious how or where transfilters could be added.

Here's a possible tip for other users of portables with those abominable ear plugs. GE and others market a stereo headphone adaptor (GE part no. 5-1277, \$3.25). On one end, it has a 3.5 mm earphone plug; on the other, a phone jack wired to feed the same audio to both channels of stereo headphones.

### An Outboard Ferrite Loop for the Superadio (from Gerry Thomas)

As Charlie Barfield and I noted in our initial review of the GE Superadio, this new "TRF" has several things to recommend it. Unfortunately, we also felt that it could stand improvement in a couple of areas. Since the Superadio has gained some acceptance and popularity in recent months, we decided to give a little thought to overcoming what we believed to be some of the more significant of the Superadio's shortcomings.

High on our "wish list" was some means of easily rotating the Superadio to null and peak stations (its weight with six conventional D-cells is close to nine pounds, not the six to seven we had initially estimated). One solution is to simply place the Superadio on a Rubbermaid-type plastic turntable and plug an always-facing-you auxiliary speaker in the earphone jack. A more desirable solution, though, would be an external, rotatable

antenna along the lines of the one the RF-2200 uses. Locating the antenna outside of its cabinet environment should also, theoretically, result in an improvement in its nulling ability. What follows is a brief description of a high-gain, rotatable, tiltable, plug-in external ferrite loop for use with larger radios like the Superadio.

In a nutshell, this antenna is simply a relatively large-core ferrite rod antenna (in this case, the Radio West "Shotgun") mounted atop the ball-and-socket head of a table-top camera tripod (Coastar #B-120, "Minipod"). RF signal is gathered from the tuned primary winding of the "Shotgun" by way of a two turn inductive pick-up and is channelled into and through the interior of the tripod's tubing to a standard two conductor, 1/4 inch phone jack which is fitted in the base of the tripod (the removeable legs of which have been removed). This self-contained unit is then plugged into a two conductor, normally-closed female phone jack which is mounted on the top of the Superadio and connected to the radio's RF stage.

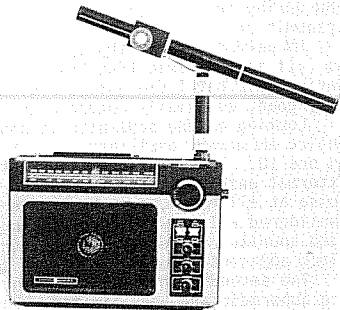
Without the antenna plugged in, the standard internal loop is operable and the Superadio performs as stock. Plugging in the outboard antenna disconnects the internal loop and all RF energy is supplied by the external antenna. A 5 kilohm rotary potentiometer was inserted (in series) in the RF line to allow control of gain from the internal loop, the external loop, and any "longwires" attached to, and tuned by, the Shotgun's circuit. The outboard loop rotates infinitely on the phone jacks and tilts in all directions on the ball-and-socket head.

I won't take up valuable DXM space spelling out all the details, but will submit a detailed construction plan for the upcoming tech manual. In the meantime, I'll offer to answer any questions and list the following tips that might be of value to those who might want to strike out on their own. (Gerry can be reached at 2355 W. Michigan Ave. Apt. A-11, Pensacola, FL 32506.--ed)

1. The Radio West "Shotgun" works well in this design and looks really nice with the Superadio's cabinet. However, it supplies sufficiently more signal than the stock antenna that, unless an RF gain control is used a slight reduction in selectivity (in certain situations--next to strong locals) is the result. The same thing happens when used with a Realistic TRF so it isn't unique to the Superadio; it just means that an RF pot will improve performance

2. Don't use the leads coming from the variable capacitor box of the "Shotgun" (the loose wire and Fahnestock clip) to make the connection to the Superadio's RF stage. Rather, use a two-turn, #20-#24 gauge inductive pick-up wrapped around the outside of the Shotgun's plexiglass tubing (it isn't necessary to hacksaw your way into the "Shotgun" to add this pick-up, as "Yours Truly" dumbly did). The two ends of this pick-up are terminated at the same points on the circuit board (after travelling through the center of the tripod, to the male and female jacks, and through the RF pot) as the two tiny green wires which come from the internal loop and are its secondary winding.

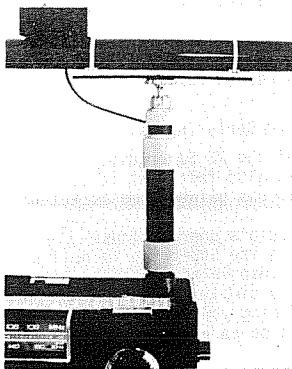
3. The weight of this outboard antenna assembly is such that the strongest male and female phone jacks you can find are recommended (the best I've



found are the Switchcraft, e.g. 14B, 14BP1, although the Calectro F2-837 holds up pretty well). Avoid the temptation to use the jacks with the molded plastic-enclosed contacts. The contacts are very flimsy and will short out in a few days.

4. If you don't want to use the "Shotgun" (either because of its weight, price, or sometimes excessive signal output), you can construct a creditable alternative using one (or two, cemented end-to-end) Amidon ferrite rods (\$2.50 each plus postage from Burstein Applebee (#13A5215-4) or direct from Amidon), wound by yourself, and tuned by a 365 pF miniature variable capacitor (e.g. Calectro #A1-232) that has been housed in a mini-box and mounted atop a length of PVC pipe (in which the ferrite rods will be installed).

5. Any hollow-bodied, table top tripod (with removable legs) can be used, but shop around. The "Coastar" cost \$4.93 at a Pensacola discount house but was seen in a Boston camera store last summer selling for \$12.95!



6. The only jury-rigging required in this project involves fitting the male phone plug in the base of the larger-diameter tripod body...try PVC plumbing fittings (the "Coastar" takes the 1/2" diameter ones).

There you have the main construction points of the antenna. After having used this radio/antenna combination for the past couple of weeks, I am impressed not only with its improved ease of use, but also its gain and nulling ability. At equal RF levels, the outboard creates deeper nulls than the stock antenna but, since the RF pot is operable on both, it is possible to null most of my locals into the noise with either.

addresses: Burstein-Applebee      Amidon Associates      Radio West  
 3199 Mercier St.      12033 Otsego St.      3417 Purer Road  
 Kansas City, MO 64111      North Hollywood, CA 91607      Escondido, CA 92025

Speaking of the Radio West "Shotgun", a tip...

Instead of using the mounting method supplied with the "Shotgun", you might want to take advantage of the fact that the plexiglas tubing of the Shotgun is the same diameter as a C-cell battery and mount two, single, C-cell battery holders (e.g. Calctro #D3-062 (plastic) lengthwise on the top of the "TRF". With the ends of the battery holders carved out, the "Shotgun" will snap in and out of these mounts so that you can use one "Shotgun" on more than one radio. You can also then, remove the "Shotgun" when a longwire is attached and thereby control gain and tuning sharpness. A couple of rubber bands around the barrel of the "Shotgun" before snapping it into the battery holders will reduce lateral slippage.

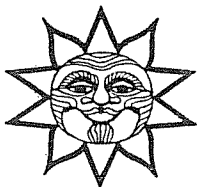
NORTHEAST DX INFORMATION SERVICE , continued

Computerised DX'ing - a look into the future	DEC 1976 & JAN 1977	2 pages
A Real External-Antenna Input for the Realistic TRF	1977	
First look at expected effects of new TA plan		JAN 1977
"Silent Zone" article		JAN 1977
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DXing Latin America from N. W. USA (Bruce Portzer)	DEC 1979	
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DX Forms

- Light DXpedition packing list      DX logging check-list & report organiser
- Local oscillator freq. vs. received freq. for TRF DXpedition tape log
- Realistic TRF dial calibration chart

# MIDDAY DX RECORDS



## the O O's

Gerry Thomas  
2355 W. Michigan Ave. #A-11  
Pensacola, FL 32506

Deadlines: First of the Month

Well, here it is, the first installment of Midday DX Records. Those who have never seriously DX'ed the BCB during the daylight hours might be amazed at some of the catches. Besides several loggings of 1000+ miles, we have a couple of catches which indicate extremely rare multiple-skip receptions (see Patrick Martin's 1969 loggings of WLW-700 and WOAI-1200). And speaking of incredible cx, January 7, 8, and 15 found WMAQ-670, WJR-760, WHAS-840, and many others audible here in Florida all day! Gene Allen also noticed better than average cx on those days, did anyone else?

The exact format is evolving as the column develops but, as a general rule, the most distant catch for each power category will be listed with full data and, if space allows, other loggings for that frequency will be noted in abbreviated form. The "time of day" of each catch has been omitted (due to popular request) but all catches appearing in this column must have been made during "midday," which is defined as that period between two hours after your local sunrise and two hours before your local sunset. Also, because of space constraints, loggings of stations less than 100 miles distant will be deleted (unless, of course, they are the best of a power category).

Enough drive! here are the "Even Hundreds".....

STN (QTH)	PATH	DX'ER (QTH)	DATE	DISTANCE	POWER
<b>600</b>					
CMW (Cuba).....	Sea.....	C. Taylor (Bermuda)	Yr Rnd.....	1256 mi.....	150,000w
WCAO (MD).....	Sea.....	C. Taylor (Bermuda)	Yr Rnd.....	1126 mi.....	5,000w
WICC (CT).....	Sea.....	C. Taylor (Bermuda)	Yr Rnd.....	771 mi.....	1,000w
CJOR (BC).....	Land.....	Portzer (WA)	Yr Rnd.....	121 mi.....	10,000w
KOGO (CA).....	Martin (OR).....	[986 mi] (5kw)	KSJB (ND).....	Whaley (CO).....	[589 mi] (5kw)
CMW (Cuba).....	Thomas (FL).....	[586 mi] (150kw)	WVOG (LA).....	Thomas (FL).....	[176 mi] (1kw)
<b>700</b>					
WLW (OH).....	Land.....	Martin (OR)	12/69.....	2024 mi.....	50,000w
WLW (OH).....	Sea.....	C. Taylor (Bermuda)	Winter.....	1206 mi.....	50,000w
WLW (OH).....	Land.....	Whaley (FL)	1/78.....	822 mi.....	50,000w
WLW (OH).....	Land.....	Connelly/Kazaross (RI)	11/79.....	705 mi.....	50,000w
WLW (OH).....	Land.....	Barfield (FL)	1/80.....	620 mi.....	50,000w
WLW (OH).....	Land.....	Thomas (FL)	1/80.....	620 mi.....	50,000w
<b>800</b>					
CHAB (SK).....	Land.....	Martin (OR)	11/70.....	879 mi.....	10,000w
WMTR (NJ).....	Sea.....	C. Taylor (Bermuda)	Yr Rnd.....	785 mi.....	5,000w
WSHO (LA).....	Sea.....	Whaley (FL)	11/77.....	493 mi.....	1,000w
KHIS (CA).....	Land.....	Allen (CA)	1/80.....	260 mi.....	250w
CKOK (BC).....	Portzer (WA).....	[179 mi] (10kw)	WSHO (FL).....	Thomas (FL).....	[176 mi] (1kw)
<b>900</b>					
WEAS (GA).....	Sea.....	C. Taylor (Bermuda)	Yr Rnd.....	961 mi.....	5,000w
CKBI (SK).....	Land.....	Martin (OR)	11/70.....	932 mi.....	10,000w
WGOK (AL).....	Sea.....	Whaley (FL)	11/77.....	407 mi.....	1,000w
WJWL (DE).....	Sea.....	Connelly (MA)	Yr Rnd.....	328 mi.....	1,000w
<b>1000</b>					
WCFL (IL).....	Land.....	Byrnes (NY)	12/79.....	519 mi.....	50,000w
CMJB (Cuba).....	Sea.....	Whaley (FL)	10/77.....	505 mi.....	1,000w
CKBW (NS).....	Sea.....	Connelly (MA)	Yr Rnd.....	343 mi.....	10,000w
WQTY (AL).....	Land.....	Thomas (FL)	Yr Rnd.....	146 mi.....	1,000w
<b>1100</b>					
ZDK (Antigua).....	Sea.....	C. Taylor (Bermuda)	Yr Rnd.....	1070 mi.....	10,000w
KREX (CO).....	Land.....	Martin (OR)	12/79.....	916 mi.....	50,000w
CMHU (Cuba).....	Sea+Land.....	Whaley (FL)	11/77.....	382 mi.....	1,000w
KFAX (CA).....	Hall-Patch (BC).....	[775 mi] (50kw)	WHLI (NY).....	C. Taylor (Brmd).....	[761 mi] (10kw)
WWWE (OH).....	Onyschuk (IL).....	[565 mi] (50kw)	WHLI (NY).....	Connelly (NS).....	[445 mi] (10kw)
WTAM (now WWWE) (OH).....	P. Taylor (NC).....	[409 mi]			



<u>STN (QTH)</u>	<u>PATH</u>	<u>DX'ER (QTH)</u>	<u>DATE</u>	<u>DISTANCE</u>	<u>POWER</u>
-----1200-----					
WOAI (TX).....Land....Martin (OR).....			12/69.....	1774 mi.....	50,000w
WOAI (TX).....Land....Barfield/Thomas (FL).....			10/79.....	680 mi.....	50,000w
-----1300-----					
KYNO (CA).....Land....Martin (OR).....			12/69.....	676 mi.....	5,000w
WFFG (FL).....Sea....Whaley (FL).....			11/77.....	202 mi.....	500w
WSOL (FL)..Barfield (FL)..[335 mi] (5kw)			WSOL (FL)..Thomas (FL)..[335 mi] (5kw)		
-----1400-----					
WOND (NJ).....Sea....C. Taylor (Bermuda).....			Yr Rnd.....	736 mi.....	1,000w
WOND (NJ).....Sea....Connely (MA).....			Yr Rnd.....	277 mi.....	1,000w
KONG (CA).....Land....Meehan (CA).....			Winter.....	239 mi.....	1,000w
WFTL (FL).....Land....Whaley (FL).....			11/77.....	172 mi.....	1,000w
KVEG (NV).....Land....Meehan (CA).....			Winter.....	145 mi.....	1,000w
-----1500-----					
WTOP (DC).....Sea....C. Taylor (Bermuda).....			Yr Rnd.....	828 mi.....	50,000w
KXRX (CA).....Land....Martin (OR).....			12/70.....	613 mi.....	10,000w
WGUL (FL).....Sea....Thomas (FL).....			Yr Rnd.....	309 mi.....	250w
CKAY (BC).....Land....Portzer (WA).....			Yr Rnd.....	103 mi.....	5,000w
WKIZ (FL).....Sea....Whaley (FL).....			10/77.....	198 mi.....	250w
-----1600-----					
KLAK (CO).....Land....Martin (OR).....			11/69.....	1031 mi.....	5,000w
KLEB (LA).....Sea....Whaley (FL).....			12/77.....	490 mi.....	1,000w
WWRL (NY)..C. Taylor (Bermuda)..[777 mi] (5kw)			KLEB (LA)..Thomas (FL)..[197 mi] (1kw)		

Many thanks to:

Gene Allen, Vallejo, CA \*\*\* HQ-129X/SM-1, 4' box  
 Charlie Barfield, Pensacola, FL \*\*\* TRF/3' box  
 Barfield/Thomas, Pensacola, FL \*\*\* TRF/650' kite antenna  
 Jim Byrnes, Rochester, NY \*\*\* Superadio  
 Mark Connely, from W. Yarmouth, MA \*\*\* R390A/2 phased 37m 1w's  
 Mark Connely, from Clark's Harbor, NS \*\*\* Car radio/whip  
 Mark Connely/Neil Kazaross, from Narragansett, RI \*\*\* HQ-180A/phased Bvgs, Sanserino 1p  
 Nick Hall-Patch, Victoria, BC \*\*\* transmogrified HRO/altazimuth FET box  
 Patrick Martin, Seaside/Warrenton, OR \*\*\* E. H. Scott communications rx/1w  
 Mort Meehan, 29 Palms, CA \*\*\* RF-2600/inverted-L, MW-1, SM-1  
 Ken Onyschuk, Park Forest, IL \*\*\* TRF, Superadio  
 Bruce Portzer, Seattle, WA \*\*\*HQ-180A, FRG-7, NC-120, SX-96/assorted loops & 1w's  
 Charles Taylor, St. David's, Bermuda \*\*\* R390A, SPR-4/100' 1w, SM-2  
 Pete Taylor, from Durham, NC \*\*\* Motorola portable 67L11/internal loop  
 Gerry Thomas, Pensacola, FL \*\*\* FRG-7, TRF, Superadio/inverted-L, 4' box, outboard ferrite  
 Brock Whaley, Denver, CO \*\*\* HQ-140X, TRF, DX-300/30' 1w, wedge  
 Brock Whaley, from Sarasota, FL \*\*\* HQ-140X, TRF, pre-amp/300' 1w, wedge

I hope the preceding listing will stimulate some of you to check the band the next chance you get...you might be surprised! Be especially sure to check cx during March and April because numerous scientific studies have reported reduced D-layer absorption during these months. And if you can, conduct a groundwave survey from your location and send in your station, state, province, and country totals. One name will be drawn from among those sending in their totals (by April 1) and will be awarded an IRCA T-shirt of his or her choice...yep, bribery (hi).

The next "Distance" deadline will be March 15 and will cover the Bo Derek channels.... the "10's" (610 kHz, 710 kHz, etc.). Deadlines thereafter will be the first of the month (the "20's"--April 1, the "30's"--May 1, etc.). Follow the format used in this column and note that it is no longer necessary to specifically state times before local sunset or after local sunrise that a station was logged (but do stick to the definition of "midday" for loggings submitted to this column). It also is no longer necessary to calculate Great Circle Distances or send in station or location coordinates (unless you're DX'ing from a not-on-any-map location) since I found myself double-checking everything anyway.

I'm planning a series of "Midday DX Basics" articles for the future so if you have discovered any midday DX secrets or have any thoughts on topics such as efficient ground systems, the relative merits of different antenna designs for midday MW DX, correlates of low D-layer absorption days, weather effects on groundwave propagation, etc., please get in touch. 73's 'til next time and best of midday DX!

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LOOKING BACK AT RADIO

# Special Features

IN 1930

editor: Matthew Shugart

by Gene Martin

The North American broadcast band of 1930 extended from 540 to 1500 kilocycles, and it contained 642 U.S. stations, 81 Canadians, 27 Mexicans, and 17 Cubans. (Please allow me to use the term "kilocycles," for that was the word used in those days, 25 years or so before "kilo-Hertz" was coined to replace it.)

1930 also preceded such things as regular news broadcasts, 24-hour stations, directional antennas, singing commercials, soap operas, and Arbitrons. 1930 was at least a dozen years before the first disc jockey -- a time when stations did not have program formats; instead, they aimed at providing something for everybody.

This article is accompanied by a reproduction of a log of the broadcast band of 1930. The log is from the December, 1930, issue of Radio Index, better known as Radex. To the DX-ers of the day, Radex was the essential tool to pursuit of the distant station. It was the most reliable DX publication available in North America.

The Radex frequency list contains a world of information. Take time to study the publisher's key which precedes the listing. The key contains the explanation for the various symbols in the columns.

Today's DX-ers can have a field day wondering what it would be like to go over this broadcast band with a good radio. DX-ers of the present day will find similarities as well as major differences between the bands of 1930 and now. There are changes, addition, and deletions on every frequency yet from 550 to 720 much has remained the same. Over all these years, KFI has been on 640, WGN on 720, WMAQ on 670, WGR, WKRC, and KSD on 550. There is San Francisco on 680 and New York on 660, although in these cases the calls have changed.

Today's DX-ers may be astonished to see only two 500 watt stations -- both Canadians -- on 1030. Many DX-ers used to report in Radex that they had heard stations on every frequency except 1030! From Dallas, I was able to log both these Canadians, and for a long time, Vancouver was my most prized catch: 1740 miles!

The Radex list shows how extensive was the practice of sharing time on the same frequency. There were five stations in Calgary on 690, and I believe they all used the same transmitter. But most shared time arrangements required separate transmitters. KEX and KOE divided time on 1180, WBBM and KPAB on 770, WWL and KWKH on 850, and so on. When there was sufficient distance between station sharing time, each was permitted to operate at the same time during the day. I don't recall if WBAL and WTIC, on 1060, had this sort of arrangement but probably not, as 1930 was in the era of flat-top antennas radiating superior skywaves. WWL and KWKH had to share time both day and night. However, WBBM and KPAB only had to share time at night, and daytime listeners in central Iowa often complained about interference between the two.

Two stations sharing time on a frequency was quite a feasible arrangement inasmuch as not many stations of the time figured they had to be on the air all day or past midnight anyway. A typical broadcast schedule might have a station signing on at 7 a.m. for a couple of hours, then returning to the air at 11 a.m. for another two or three hours, then returning to the air once again at 5 p.m. until 10 or 11 at night. It is my impression now, many years after the fact, that it was the Chicago stations which first carried programs into the hours past midnight. The program fare in these hours was always the same--dance bands from some hotel or ballroom.

No self-respecting radio station of 1930 would ever be caught playing records! Everything which reached the air was live, obliging stations to hire musicians, singers, and other entertainment. Needless to say, a lot of this talent was mediocre. Yet the other side of the coin is that radio of that day offered local artists opportunities to be heard; this is not often the case nowadays. In all portions of the country the cream of this local talent eventually gained national recognition and was heard on the networks, making it into Show Biz.

The Federal Radio Commission, which preceded the FCC as radio's governing body, frowned on any station which broadcast popular records of the day, though the practice was never forbidden. The idea was that the people's airwaves should not be used to broadcast records which were easily available to anyone on the retail market. The FRC saw radio as much more than a jukebox! How times have changed!

The FRC attitude on records greatly irritated W. K. Henderson, owner of KWKH, Shreveport, La. (His memory is preserved in the call-letters.) To say that Henderson is a colorful character in U. S. radio history would be a vast understatement. He carried on a perpetual feud with the FRC and in the late 1920's and early 1930's he would personally go on the air and spend many minutes at a time denouncing the FRC. His grievances would make a long list, often having to do with FRC regulations: the KWKH power, having to divide time with WWL, and more. But one of his biggest complaints was over the FRC's discouragement of playing records. KWKH played records and Henderson defended this, telling listeners over and over again that his recorded music was far superior to any local talent he could find on the Shreveport scene.

Networks did exist in 1930. The National Broadcasting Company operated two networks, later to be known as the Red and Blue networks. The Columbia Broadcasting System was also operating in 1930, always referred to as "Columbia." It would not come to be known as "CBS" for many years. The key station of NBC-Red was WEAJ, New York; the key for the Blue was WJZ, New York. WEAJ is now WNEC and WJZ is now WABC. Columbia's key station was WAEC, New York. Some time in the 1940's Columbia persuaded WCBS, a tiny station in Springfield, Ill., to give up its call. (You will find it in the list at 1210, a local channel.) Most likely, that was the most profitable transaction the Illinois station made that year. WABC, New York then became WCBS; WJZ quickly appropriated the call which Columbia had abandoned. It was all very timely, for by that time NEC had sold WJZ and its Blue Network which became the American Broadcasting Company. It was at this same time that NEC itself got into the act, changing WEAJ to WRCA. (RCA was and still is the parent company of NBC.) There is a certain lustre in call letters which date back to the early days of radio; they are surrounded by an aura of prestige. The prestige attached to WJZ was so strong that Westinghouse gave it new life and adopted it as the call for its TV station in Baltimore.

The anathema attached to records existed strongly in the networks from the very beginnings in 1926 and 1927. The first recorded program ever heard on the networks was King Edward VIII's abdication speech in December, 1936, as relayed via short wave from the BEC. NEC's high brass of that day spent hours resting with their broadcast standards before deciding reluctantly it had to be carried, recorded or not. The whole world new in advance of this broadcast that it would probably be the King's abdication. Winston Churchill was credited with being the King's ghost-writer on that occasion.

All during the great days of network radio, all programs on NEC and CBS were live -- music, drama, comedy, quiz games, soap operas, news reports and commentaries. However, by the mid '30's many individual stations across the country were playing records for all or a portion of their broadcast schedules. Still there were no program formats. Even a station which played records played every kind of music, from grand opera to modern jazz to spirituals on Sunday morning.

The manner in which broadcasting served the religious needs of the people in the 1930's deserves special attention because it is so drastically different from what reaches the airwaves nowadays. To put it bluntly, there were no "leather-lunged" evangelists on the air, peddling salvation and exhorting the pious for contributions. The stations of the day refused to sell time to any religious organization. Instead, broadcast time was given to churches as a part of the station public service obligations. Throughout the country the hour from 11 a. m. to noon on Sundays was donated to the churches of the community. The various denominations of a city would alternate broadcasting Sunday services in this hour. The networks also followed this policy, usually reserving time on Sunday afternoons for regular national broadcasts by the major denominations. The broadcast ethica of the day did not permit the commercialization of religion.

Popular network programs on the air early in the East were often repeated later that night for stations in the West. Thus Amos 'n' Andy was on the air at 7 p. m., Eastern time, on a Blue network of sixteen stations, the farthest west being WLW, Cincinnati. The program was on the air again at 11 p. m., Eastern time, on a network of twenty-six stations, the farthest east being WMAQ, Chicago. Since these were the days before tape recordings, Amos 'n' Andy actually had to perform their fifteen-minute stint twice each night. As late as 1943, Fred Allen's hour show on CBS was aired twice each Sunday night. Inasmuch as I was a great Fred Allen fan, I often heard his first show from KRLL in Dallas at eight o' clock and later, at 10, I would listen to the repeat show on KSL, Salt Lake City. I discovered that he often improved on his comedy between shows.

I do not recall the year that Mutual Broadcasting became the nation's fourth network, although I recall it coincided with WLW's use of 500,000 watts. Mutual was founded initially as a means of linking WOR, WLW and WGN.

These three stations formed Mutual with the intention of forming a small network to reach the lucrative markets of New York and Chicago with the vast audience of superpower WLW. Eventually WLW pulled out of the network and Mutual put aside its intention to remain small and began adding affiliates wherever it could. However, WOR remained Mutual's key station and WGN remained affiliated for many years.

Today's DX-ers, contemplating this frequency list, should remember that this relatively uncluttered spectrum was filled with stations that would sign-off every night. Every station on the Pacific coast, for example was potentially available to the Eastern DX-er at a certain time each night, usually by midnight or 1 a. m. For the Western DX-er many stations on the East coast were possible by 3 or 4 a. m. if the Eastern station had an early sign-on. However, the reception reports of the early 1930's leave little doubt that the Eastern listener had the best of this coast-to-coast reception.

The first station I remember being on all-night is at 1200 on the list with 100 watts.\* Every DX-er in the nation who was halfway proficient logged that station, and, from my Texas location, I soon had it classified as a "pest."

Another very early all-nighter was WJKS, Gary, Indiana, 1,000 watts on 1360, and a third was WFIN, Hopkinsville, Kentucky, 1,000 watts on 940. Memory recalls that WMEB ("World's Most Beautiful Ballroom," the Trianon) in Chicago, a one-hundred watt on 1210 was another of the very early all-nighters. Its demise had come some time before December, 1930, as it does not appear in the frequency list.

The Great Depression of the early 1930's resulted in the weeding out of many stations through bankruptcies, mergers, and the like, before this list was published. The process continued throughout the Depression, and the number of stations existing two years after the list was smaller than that shown here.

Looking over the crowded local frequencies where powers ranged from 5 or 10 watts up to 100, one will find many stations which have since graduated to positions on the regional or clear channels. The eye falls on WJW, Mansfield, Ohio, on 1210. This is one of the ancestors of Cleveland's WJW, now on 850.

The log shows that many stations have moved short distances over the years. KSC, Clarinda, Iowa, is now in Des Moines. WOR, Newark, is now New York. KFAR has moved from Lincoln to Omaha, and FMMJ, Clay Center is now in Grand Island. Many more may be spotted in the list.

A number of stations prominent in the 1930's have vanished completely leaving no legacy in today's broadcast spectrum. Such is the case of WPG, Atlantic City, a major station in 1930, on a clear channel (1100, shared with a New York station that has since been replaced by WNEW). Such is also the case of WJAY, Cleveland, on 610, a well known station of the time. KFEL, Denver, became the parent of KIMN and bears no relation at all to the present KFEL, Pueblo.

On 1490, two of the three stations there in 1930 were interred permanently years ago, WJAZ and WORL in Chicago, which shared time with WCKY, then in Covington, Kentucky. WJAZ was about the most famous station in the country from 1925 until 1927. Owned by the Zenith Radio Corporation, WJAZ took the Department of Commerce into federal court challenging its right to issue station licences and assign frequencies. WJAZ was eventually upheld by the Supreme Court, inaugurating an era when all stations were free to pick any frequency they liked and no licence was required to start a new station. During this breakdown in radio regulation many new stations came onto the air picking their own frequencies and the broadcast band was thrown into chaos. Often the new stations ignored the usual ten kilocycle separation between channels. It was a time of "wave jumping," as it was called. WJAZ picked 910 for itself, and WHT took up the practice of using two channels, using around 750 at night and 1260 by day. The chaos continued more than two years, until Congress passed legislation providing for a Federal Radio Commission. The FRC proceeded immediately to reorganize the broadcast band, assigning new frequencies and issuing licences. But that 1927 reallocation lasted no more than about a year, when it was replaced by a 1928 reallocation, a massive frequency shake-up. This 1930 set-up is essentially the same as that provided for in 1928. It is easy to see that the Commission assigned WJAZ to the cellar! Not long afterward, Zenith gave up the idea of operating a radio station in Chicago.

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\*Editor's note: The call KGFJ, according to some accounts, originally stood for "Keep Good Folks Joyful (24 hours a day)," at a time when a 24-hour-a-day station was truly a novelty.

INDEX BY FREQUENCIES AND DIAL NUMBERS

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KEY

Frequencies in kilocycles. Wave lengths in meters. Second column symbol: \* Verifies reception 2x; sends 4x; 1x means reception or transmission only; 2x means station has greater than normal power in winter. Fourth column symbol: D, daytime only; S, sunset only; S+ means station has greater than normal power in winter. Fifth column symbol: † means station has greater than normal power at night. Third column symbol: † means station has greater than normal power at night. Stations have call frequencies. Current kilocycles shown in small figures; N means NBC chain; C means Columbia chain; † has been granted permit to change frequency; † given permit to move to another city. Dh—This frequency station may use evening hours under certain conditions.

540 kilocycles 555.6 meters  
 SPX 1 50 ... Mexico City

550 kilocycles 545.1 meters  
 KEDY † 500 †† Brooklyn, S. D.  
 KFLO † 500 †† St. Louis, Mo.  
 KRN † 500 †† St. Louis, Mo.  
 KOAC † 1000 †† Springfield, O.  
 KSD † 500 †† St. Louis, Mo.  
 KST † 1000 †† St. Louis, Mo.  
 WBR † 1000 †† Cincinnati, Ohio  
 XEY † 105 †† Merida, Yucatan

560 kilocycles 535.4 meters  
 KFDM † 500 †† Beaumont, Texas  
 KFYB † 1000 †† Dallas, Texas  
 WILB † 1000 †† Philadelphia, Pa.  
 WILT † 500 †† Philadelphia, Pa.  
 WPEC † 500 †† Chicago, Ill.  
 WQAM † 1000 †† Miami, Fla.

570 kilocycles 526.0 meters  
 EGRQ † 250 †† Wichita Falls, Texas  
 EYX † 500 †† Seattle, Wash.  
 WBRQ † 500 †† Columbus, Ohio  
 WNAJ † 250 †† Syracuse, N. Y.  
 WNAK † 1000 †† Franklin, S. D.  
 WNAK † 1000 †† New York City  
 WNAK † 350 †† New York City  
 WNNC † 1000 †† Asheville, N. C.

580 kilocycles 516.9 meters  
 CFCU † 500 †† Toronto, Ont.  
 CFCU † 500 †† Toronto, Ont.  
 CFCU † 500 †† Toronto, Ont.  
 CFCU † 500 †† Toronto, Ont.  
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INDEX BY FREQUENCIES AND DIAL NUMBERS

590 kilocycles 508.2 meters  
 CAW † 1000 †† Havana, Cuba  
 KQO † 1000 †† Spokane, Wash.  
 WBY † 1000 †† Boston, Mass.  
 WGO † 1000 †† Detroit, Mich.  
 XFI † 1000 †† Mexico City  
 ... † 300 †† Lynchburg, Va.

600 kilocycles 499.7 meters  
 CCRH † 250 †† Toronto, Ont.  
 CCRH † 250 †† Toronto, Ont.  
 CCRH † 250 †† Toronto, Ont.  
 CCRH † 250 †† Toronto, Ont.  
 CCRH † 250 †† Toronto, Ont.  
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 CCRH † 250 †† Toronto, Ont.  
 CCRH † 250 †† Toronto, Ont.  
 CCRH † 250 †† Toronto, Ont.  
 CCRH † 250 †† Toronto, Ont.

610 kilocycles 491.5 meters  
 WDFE † 1000 †† Kansas City, Mo.  
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 WDFE † 1000 †† Kansas City, Mo.

620 kilocycles 483.6 meters  
 KGW † 1000 †† Portland, Ore.  
 WFR † 500 †† Phoenix, Arizona  
 WLBZ † 500 †† Bangor, Maine  
 WTNJ † 1000 †† Milwaukee, Wis.

630 kilocycles 475.9 meters  
 CFCU † 500 †† Victoria, B. C.  
 CFCU † 500 †† Victoria, B. C.  
 CFCU † 500 †† Victoria, B. C.  
 CFCU † 500 †† Victoria, B. C.  
 CFCU † 500 †† Victoria, B. C.  
 CFCU † 500 †† Victoria, B. C.  
 CFCU † 500 †† Victoria, B. C.  
 CFCU † 500 †† Victoria, B. C.  
 CFCU † 500 †† Victoria, B. C.  
 CFCU † 500 †† Victoria, B. C.

640 kilocycles 468.5 meters  
 KFI † 500 †† Los Angeles, Cal.  
 WOIU † 500 †† Columbus, Ohio  
 XFG † 2000 †† Mexico City

650 kilocycles 461.3 meters  
 WSP † 500 †† Nashville, Tenn.  
 WSN † 500 †† Nashville, Tenn.

660 kilocycles 454.3 meters  
 WAAP † 500 †† Omaha, Neb.  
 WFAF † 5000 †† New York City

670 kilocycles 447.5 meters  
 WYAG † 1000 †† Mexico City  
 XEB † 1000 †† Mexico City

Columbus Commercial & Radio Co.  
 Louis Warner, Inc. University  
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 Woodmen of the World  
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 Ate Cabten

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 Jas. Richardson & Sons, Ltd.  
 Canadian National Railway  
 Canadian National Railway  
 Alfan Ruello College  
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 General Broadcasting System, Inc.  
 General Broadcasting System, Inc.  
 WREK, Inc.

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 Philadelphia, Pa.  
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 CLEAR Broadcasting Co.  
 Maine Broadcasting Co., Inc.  
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 Southern Railway  
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950 kilocycles	315.6 meters	Andrea Martinec Warner Bros. Broadcasting Corp. Hollywood, Cal. National Broadcasting Co., Inc. Kansas City, Mo. Washington, D. C.
960 kilocycles	312.3 meters	The Island Radio Co. Rogers-Vigstieck Corp., Ltd. W. H. Williams & Sons, Ltd. Cooperative Wireless Producers, Ltd. Canadian National Railways Canadian National Railway International Broadcasting Co., Inc.
970 kilocycles	309.1 meters	Northwest Broadcasting System, Inc. Inc. Constanantino de Tarnava Chicago Federation of Labor
980 kilocycles	305.9 meters	Westinghouse Elec. & Mfg. Co. F. Armida y Cia.
990 kilocycles	302.8 meters	Westinghouse Elec. & Mfg. Co. Westinghouse Elec. & Mfg. Co.
1000 kilocycles	299.8 meters	Los Angeles Broadcasting Co. Central Broadcasting Co. Caribou-Guiterres N.
1010 kilocycles	296.8 meters	Radio Association Radio Club of Chicago Manuel Y. G. Sales Raul Karmen Pacific Agricultural Foundation, Ltd. University of California George F. Barrows, Inc. Agency University of Oklahoma Calvary Baptist Church Aviston Radio Station, Inc.
1020 kilocycles	293.9 meters	Westinghouse Elec. & Mfg. Co. Westinghouse Elec. & Mfg. Co. WRAX Broadcasting Co. Philadelphia, Pa.
1030 kilocycles	291.1 meters	Canadian National Co. Canadian National Railways
1040 kilocycles	288.3 meters	KRLD Radio Corp. Des Moines, Iowa Michigan Agricultural College Buffalo, N. Y. Buffalo, N. Y.

950 kilocycles	315.6 meters	Billie de Flies, Inc. Mississippi Broadcasting Co., Inc. Scranton Broadcasters, Inc. University of Iowa
960 kilocycles	312.3 meters	D. C. Vinton, Ltd. Henry Field Co. University of South Dakota Georgia School of Technology The Outlook Co. St. Joseph, Mo. Janitor Chamber of Commerce Hait-Rose Novelty Co. Distributors Portena CES
970 kilocycles	309.1 meters	Francisco Lavin Alaska Radio & Service Co. KSEI Broadcasting Association, Inc. Cuffey Printing Works WKY Radiophone Co. Wisconsin Dept. of Markets
980 kilocycles	305.9 meters	The Electric Shop, Ltd. Free Press Printing Co., Ltd. Canadian National Railways
990 kilocycles	302.8 meters	Manuel Y. G. Sales Republic of Haiti Eugene P. O'Fallon, Inc. Denver, Colo. Father's Blessed Station, Inc. Denver Journal Publishing Co. Bibson Statistical Organization, Inc. Excelsior Cin Editorial S. A. Gobierno Del Estado de Tobacco
1000 kilocycles	299.8 meters	The Edmonston Journal, Ltd. Queen's University Andria Academy Canadian National Railways Canadian National Railways Dr. George R. Miller Birmingham Broadcasting Co., Inc. Birmingham Broadcasting Co., Inc. St. Pauls P. E. Church
1010 kilocycles	296.8 meters	Victor A. Mulrooney KRLD Radio Corp. Des Moines, Iowa Michigan Agricultural College Buffalo, N. Y. Buffalo, N. Y.

890 kilocycles	336.9 meters	St. John, N. B. Meridian, Miss. Scranton, Pa. Iowa City, Iowa
900 kilocycles	333.1 meters	Havana, Cuba Ketchikan, Alaska Ponchartraine, Laibao Buffalo, N. Y. Chilabamba City Stevens Point, Wis.
910 kilocycles	329.6 meters	Saskatoon, Sask. London, Ont. Saskatoon, Sask.
920 kilocycles	325.9 meters	Edmonton, Alta. Kingston, Ont. Wolfeville, N. S. Edmonton, Alta. Halifax, N. S. New, Nebraska, Cal. Shenandoah, Iowa Birmingham, Ala. Edina Park, Pa.
930 kilocycles	322.4 meters	Edmonton, Alta. Kingston, Ont. Wolfeville, N. S. Edmonton, Alta. Halifax, N. S. New, Nebraska, Cal. Shenandoah, Iowa Birmingham, Ala. Edina Park, Pa.
940 kilocycles	319.0 meters	Honolulu, Hawaii Scranton, Pa. New York, N. Y. Frank N. Dineen Hempstead, Ky. Madison, Wis.



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1210 kilocycles	247.8 meters
CFEO	Chatham, Ont.
CFNR	Chippewa, B. C.
CFOR	Sea Island, B. C.
CFPC	Preston, Ont.
KDFN	Casper, Wyo., D.
KFOR	Lincoln, Neb.
KFXN	Spartanburg, S. C.
KGNB	San Bernardino, Cal.
KGNQ	Waterbury, Conn.
KMVA	Dodge City, Kans.
KWFA	Preston, Cal.
WALK	Shreveport, La.
WBEL	Wilmington, Del.
WBOH	Richmond, Va.
WCKV	Yonkers, N. Y.
WCKW	Chicago, Ill.
WDBQ	Deer Park, N. Y.
WGBB	Harrisburg, Ill.
WGBS	Elizabeth, N. J.
WGMV	Frederick, N. Y.
WHRU	Sulligent, Miss.
WHRU	Angrenon, Ind.
WHRU	Leesburg, Pa.
WJBY	Gadsden, Ala.
WJBY	Itaska, N. Y.
WLCI	Itaska, N. Y.
WMBG	Richmond, Va.
WMBJ	Jamaica, N. Y.
WONT	Manitowish, Wis.
WONV	St. Paul, Minn.
WROV	Thornville, Ga.
WRRQ	Greenville, Miss.
WSEC	Chicago, Ill. C.
WSEN	Columbus, Ohio
WTFX	Springfield, Ill.
WTFX	Springfield, Ill.

1220 kilocycles	245.8 meters
KWLU	Laverock, Kans.
KWSP	Pullman, Wash.
WCAP	Greenville, S. C.
WDBE	Greenville, S. C.
WREN	Tampa, Fla.
WREN	Laverock, Kans.

1230 kilocycles	243.8 meters
KFOD	Anchorage, Alaska
KWSC	San Francisco, Cal.
WBIS	Boston, Mass.
WNAO	Boston, Mass.
WNSF	South Bend, Ind.
WNSF	South Bend, Ind.

1240 kilocycles	241.8 meters
KVLO	Waco, Texas
KVLO	Waco, Texas
WXYZ	Detroit, Mich.

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1250 kilocycles	239.9 meters
KFXK	Long Beach, Cal.
KIDO	Boise, Idaho
WALB	Northfield, Minn.
WBSU	Newark, N. J.
WGSN	St. Paul, Minn.
WGSN	St. Paul, Minn.
WODA	Minneapolis, Minn.
WRHM	Little Rock, Ark.
WRHM	Little Rock, Ark.

1260 kilocycles	238.0 meters
KOLV	Springfield, Iowa
KNOA	Tucson, Ariz.
WLBV	Oil City, Pa.
WTOC	Savannah, Ga.

1270 kilocycles	236.1 meters
KZAN	Colorado Springs, Colo.
KGCA	Decatur, Iowa
KOLV	Seattle, Wash.
KWLC	Decatur, Iowa
WBR	Itasca, N. Y.
WBR	Baltimore, Md.
WBOB	Grand Rapids, Mich.

1280 kilocycles	234.2 meters
KCEB	Great Falls, Mont.
WCAM	Camden, N. J.
WDD	Christiansburg, Tenn.
WDD	Trenton, N. J.
WDR	Dallas, Texas
WDR	Dallas, Texas

1290 kilocycles	232.4 meters
KDVL	Salt Lake City
KFUL	Galveston, Texas
KFTA	San Antonio, Texas
WBC	Sturtevant, Wis.
WNBZ	Saranac Lake, N. Y.
WNBZ	Saranac Lake, N. Y.

1300 kilocycles	230.6 meters
KFRV	Wichita, Kansas
KFRV	Portland, Ore.
KFRV	Los Angeles, Cal.
KFRV	Los Angeles, Cal.
KFRV	Portland, Ore.
WEPD	New York City
WHP	Wilmington, Del.
WHD	Miami Beach, Fla.
WQQ	Kansas City, Mo.

1310 kilocycles	228.9 meters
KFRV	Tempe, Ariz.
KFRV	Boone, Iowa
KFRV	Fairbank, Alaska
KFRV	Fort Dodge, Iowa

Carlson College  
Nichols & Warner, Inc.  
WVAV-TV  
WVAV-TV  
St. Olaf College  
New Radio Broadcast Corp.  
Northwestern Broadcasting Inc.  
Richard E. O'Day  
Joseph E. Phelps

Mont. Motor Oil Co.  
Robert P. McCull  
Radio-Wire Program Corp.  
Savannah Broadcasting Co.

W. D. Conroy  
Charles W. Greenly Co. Inc.  
First Presbyterian Church  
WVSR  
Carnell University  
Lamar Life Insurance Co.  
Walter E. Stiles, Inc.

Julio E. Power  
Battery Broadcast, Inc.  
Radio Industries Broadcast Co.  
WDD Industries Corp.  
WDDAX, Inc.  
City of Dallas

Intermountain Broadcasting Corp.  
C. H. Ford  
Lone Star Broadcast Co.  
Pittsburgh Radio Supply House  
Smith & Mace

Radio Station KFHC  
Ashley C. Dixon & Sons  
Bible Institute of Los Angeles  
Radio Station KFHC  
Radio Station KFHC  
Radio Station KFHC  
Radio Station KFHC  
Radio Station KFHC

Chas. C. Robinson  
Boone Bible Coll.  
Boone Bible Coll.  
Chas. C. Samuel

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109	Dublin, Texas	G. C. Barber
110	Edgewood, Colo.	Fitzsimmons General Co.
111	Danver, Colo.	Western Slope Broadcasting Co.
112	Denver, Colo.	KGBR Inc. Baptist Church
113	St. Joseph, Mo.	First State Bank of Vicksburg
114	Walf Point, Mont.	O. J. Suttman and R. H. McConnell
115	Railton, Neb.	Carl E. Haymond
116	Yakima, Wash.	Robert M. Dean
117	Shreveport, La.	Houston Broadcasting Co.
118	Houston, Tex.	W. S. Bledsoe & W. T. Blackwell,
119	El Paso, Texas	KMRO, Inc.
120	Abilene, Wash.	Banks of Washash, Inc.
121	Terre Haute, Ind.	WCLB, Inc.
122	Chicago, Ill.	Engle Broadcasting Co., Inc.
123	El Paso, Texas	Royal Oak Broadcasting Co.
124	Royal Oak, Mich.	Frank D. Fallick
125	Flint, Mich.	Hampden Radio Engineering Co.
126	Philadelphia, Pa.	Harper Road Broadcasting Corp.
127	Newport News, Va.	William C. Farrest
128	Newport News, Va.	Johnston Automobile Co.
129	Ponchaix, Pa.	Lucas Radio Club Co.
130	Johnstown, Pa.	St. Bern Bros Radio Station
131	Lucas, N. H.	Permill N. Nelson
132	Birmingham, Ala.	Radio Service Laboratories
133	Chattanooga, Tenn.	New Bedford Broadcast Mfg. Co., Shop
134	Auburn, N. Y.	American Broadcasting Co.
135	New Bedford, Mass.	Stewart Broadcasting Co.
136	Washington, D. C.	Grove City College
137	Washington, D. C.	Winston-Sherrin Journal Co.
138	Knoxville, Tenn.	
139	Knoxville, Tenn.	
140	Knoxville, Tenn.	
141	Knoxville, Tenn.	
142	Knoxville, Tenn.	
143	Knoxville, Tenn.	
144	Knoxville, Tenn.	
145	Knoxville, Tenn.	
146	Knoxville, Tenn.	
147	Knoxville, Tenn.	
148	Knoxville, Tenn.	
149	Knoxville, Tenn.	
150	Knoxville, Tenn.	

1320 kilocycles 227.1 meters

KGH	250	Pueblo, Colo.	C. P. Ritchie & J. E. Finch
KGHI	250	Twin Falls, Idaho	Radio Broadcasting Corp.
KGHJ	250	Albany, N. Y.	KID Broadcasting Co., Ltd.
KGHM	250	Idaho Falls, Idaho	Allen T. Simmons
KGHN	250	Akron, Ohio	Stenger Theatre & Mission Blanche Co.
KGHO	250	New Orleans, La.	

1330 kilocycles 225.4 meters

KGJ	250	San Diego, Cal.	Pleikwick Broadcasting Corp.
KGK	250	Stout City, Iowa	Parkins Bros. Co.
KGKJ	250	St. Joseph, Mo.	St. Joseph Radio Co.
KGKL	250	Cincinnati, Ohio	Crosley Radio Corp., Inc.
KGKM	250	East Claire, Wis.	Glitter Rubber Co., Inc.
KGKN	250	Folsom, N.H.	Jean R. Bonaville

1340 kilocycles 223.7 meters

KGKJ	500	Fort Smith, Ark.	John Brown Schools
KGKJ	500	Spokane, Wash.	Spokane Broadcasting Co.
KGKJ	500	Toledo, Ohio	Toledo Broadcasting Co.

1350 kilocycles 222.1 meters

KWK	1000	St. Louis, Mo.	Greater St. Louis Broadcasting Corp.
KWJ	1000	New York City	Pillar of Fire Broadcasting Co., Inc.
KWKA	1000	New York City	Standard Chihill Co., Inc.
KWKB	1000	New York City	Madison Sq. Garden Bldg. Corp.



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1360 kilocycles 220.4 meters			
CKXK	150	Santiago de Cuba	M. P. Martinez
KGFR	500	Long Beach, Cal.	C. Merwin Dobyns
KGGR	500	Buff, Mont.	KGIR, Inc. Star-Neva
KGHS	500	Charleston, S. C.	Jordan & Burk
KGHT	500	Syracuse, N. Y.	Overage Radio Broadcasting Corp.
KGHU	500	Gary, Ind.	Johnson-Kennedy Radio Corp.
KGIV	500	Vicksburg, Miss.	Delta Broadcasting Co., Inc.

1370 kilocycles 218.7 meters

KERC	100	Elmd, Okla.	Champion Refining Co.
KERD	100	Everett, Wash.	Leese Bros.
KERF	100	St. Joseph, Mo.	W. J. M. Co.
KERG	100	St. Joseph, Mo.	University of North Dakota
KERH	100	Fl. Worth, Texas	Estates of H. C. Mascham
KERI	100	Tucson, Ariz.	Tucson Motor Service Co.
KERJ	100	Mitchell, S. D.	Michael Broadcasting Co., Inc.
KERK	100	Raton, N. M.	W. E. Whitmore
KERL	100	San Antonio, Texas	W. W. McAllister
KERM	100	San Antonio, Texas	Mission Broadcasting Co.
KERK	100	Berkeley, Cal.	First Congregational Church
KERF	100	Seattle, Wash.	Wilson Dumann Broadcasting Co.
KERG	100	Hayward, Cal.	Leon F. Francis & H. H. Metcalf
KERH	100	Danville, Va.	Chase Electric Co.
KERI	100	Baltimore, Md.	WELK Broadcasting Station, Inc.
KERJ	100	Rome, Ga.	Boiler Coatings
KERK	100	Moont Omb, Ohio	F. P. Mohler
KERL	100	Memphis, Tenn.	Broadcasting Co. aka. WBRQ, Inc.
KERM	100	Jackson, Mich.	WIBM, Inc.
KERN	100	Leicester, Mass.	W. J. M. Co.
KERO	100	Lynchburg, Va.	Levinson Air Station
KERP	100	Pasadena, Cal.	Lyonsberg Broadcasting Corp.
KERQ	100	Patoka, N. Y.	Nasau Broadcasting Corp.
KERR	100	Williamsport, Pa.	C. H. Commins
KERS	100	Hatfield, Mass.	Woodard Furniture Co., Inc.
KERT	100	Reading, Wis.	Reading Broadcasting Station
KERU	100	Buffalo, N. Y.	Sears & Roebuck School
KERV	100	Augusta, N.H.	Albert S. Woodard

1380 kilocycles 217.3 meters

KOH	500	Reno, Nevada	Jay Peters
KOO	500	Channahon, Ill.	W. H. Hill Electric Co.
KOQ	500	La Crosse, Wis.	Berry Seed Co.
WBNR	1000	Dayton, Ohio	Stanley M. Krohn, Jr.

1390 kilocycles 215.7 meters

KLRA	1000	Little Rock, Ark.	Athens Broadcasting Co.
KOY	500	Phoenix, Ariz.	Nelson Radio & Sporting Goods Co.
KPVA	1000	Cleveland, Ohio	Radio Air Service Corp.
WHR	1000	Cleveland, Ohio	



# A Zonal Analysis Approach to Transatlantic DX

by Mark Connelly

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

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

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

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

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

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

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

the channel. Pete Taylor's recent receptions of American stations from South Africa demonstrate the viability of this long-haul path. South Africa is 7820 mi./12590 km. from MA., at a bearing of 105°.

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

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

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

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

Group 4: The vagaries of propagation are much more apparent when we deal with this group of stations, on bearings from 40° to 55°. Paths are frequently impeded by the auroral oval: many nights are "marginal" with only the superpowered higher-frequency (e. g. 1521, 1593) stations making it through, often with very fluttery/fadey signals. "Good" openings to this area occur about 3 days a month from August to March, less frequently from April through July. Auroral blanketing is sometimes total: even the 1593-type juggernauts don't make it. European dawn has traditionally provided better reception than North American sunset & early evening. You might want try for the following: Ireland - 567; Belgium - 927; Czechoslovakia - 1098, 1233, 1287, 1521; Denmark - 1062, 1431; Sweden-1179; East Germany - 783, 1044, 1359, 1575; West Germany - 1017, 1197 (VOA), 1269,

1422, 1539, 1593; Great Britain - 646, 693, 882, 909, 1053, 1089, 1215, 1296 and 1458; Holland - 747, 1008; Luxembourg - 1440 (dissectible from the domestics during top-notch cx.); Bulgaria - 747; Hungary - 1188; Turkey-1017; Poland - 1368, 1503; Romania - 1152; Vinnitza, USSR - 1548; Yugoslavia - 1134, 1143; Saudi Arabia - 1521 (remarkably loud for the distance); and Lebanon - 836 or 837. If many of these stations are strong, you have an excellent opening - a comparatively rare event. Given this, it would be wise to seek out rarer DX, such as low-powered British locals or exotic catches like Iraq - 1035, Qatar - 954, United Arab Emirates - 1481, and Oman - 1413 (BBC relay). These have all been heard in North America, primarily at Bill Bailey's Phased Beverage Farm in Holden, MA. and at Brian Vernon's Yukon Beverage site.

Group 5 stations, from due north (0°) to 40° E. of N., are generally blanked by the absorption of the auroral oval. The chordal-mode and doughnut-hole mode discussed earlier are the exception. What we conceive of as "normal mode propagation" can occur during very prolonged periods of

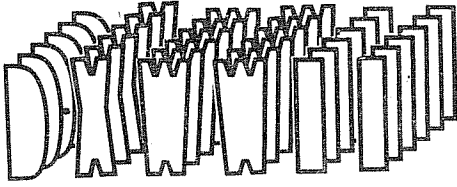
Zonal-analysis chart for TA DX countries from an eastern MA. QTH

A < 2500mi < 4025km	B 2500-3250mi 4025-5232km	C 3250-4000mi 5232-6440km	D 4000-4750mi 6440-7647km
Greenland Iceland  <u>5</u>  0°-40°	-	Finland Norway  USSR Tallinn  n. Sweden	USSR Moscow Arkhangelsk Riga Vilnius
-  <u>4</u>  40°-55°	Ireland	Belgium Czechoslovakia Denmark E. Germany W. Germany Great Britain Holland Luxembourg Sweden	Bulgaria Poland Hungary Romania Yugoslavia  USSR Kiev Minsk
-  <u>3</u>  55°-70°	-	Algeria Andorra France Monaco Spain Switzerland	Albania Austria Greece Italy Libya Malta Sicily Tunisia
Azores  <u>2</u>  70°-90°	Canary Is. Madeira Is. Morocco Portugal	Gibraltar	-
-  <u>1</u>  90°-140°	Cape Verde Is.	Gambia Guinea-Bissau Mauritania Senegal	Guinea Rep. Ivory Coast Liberia Mali Niger Sierra Leone

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

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

	E 4750-5500mi 7647-8855km	F 5500-6500mi 8855-10465km	G 6500-8000mi 10465-12880km	H > 8000mi > 12880km
<u>5</u> 0°-40°	<u>USSR</u> Sverdlovsk Tbilisi Zhigulevsk	Mongolia <u>China</u> Wulumqi <u>USSR</u> Alma-Ata Ashkhabad Dushanbe Frunze Irkutsk Tashkent	Afghanistan Bangladesh Bhutan India Nepal Pakistan Tibet	<u>Indonesia</u> Jakarta Burma Christmas Is. Khmer Rep. Laos Malaysia Singapore Sri Lanka Thailand
<u>4</u> 40°-55°	Lebanon Syria Turkey <u>USSR</u> Yerevan	Bahrain Iran Iraq Kuwait Saudi Arabia <u>USSR</u> Baku	Oman Qatar United Arab Emirates	Maldives
<u>3</u> 55°-70°	Cyprus Egypt Israel	Jordan	Djibouti Ethiopia Yemen Rep. Yemen PDR	Seychelles
<u>2</u> 70°-90°	Chad	Central African Rep. <u>Sudan</u>	Burundi Kenya Rwanda Somalia Tanzania Uganda	Comoro Rep. Malagasy Rep. (Madagascar) Mauritius Reunion
<u>1</u> 90°-140°	Ascension Is. Benin Equatorial Guinea Ghana Nigeria Togo Upper Volta	Angola Cameroon Congo Rep. Gabon São Tomé St. Helena Zaire	Botswana Lesotho Malawi Rhodesia (Zimbabwe) South Africa Swaziland Tristan da Cunha Zambia	Mozambique



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#### TRANS-ATLANTIC

Algeria. The Voice of Palestine Voice of Palestine Revolution presented by the RNC is carried by Radio Algeria on 531, 549, 980, and 1142 at 1802-1900 in AA. Program consists of news, talk, commentaries and press reviews. (BBCMS via NZDXT 12/79)

Bulgaria. Newly noted regional stations: 648-Plovdiv; 774-Sofija and Varna; 864-Blagoevgrad; 873-Stara Zagora; and 1377-Sumen. 1296 and 1377 broadcast 0400-0500, 1000-1100 and 1730-1830 for Turkish minorities in Kardzali and Sumen. (Arctic 12/14)

Germany, East. Additional transmitters are 1485-Kamenz, Zittau, and Spremberg; 1584-Ebersbach, Cottbus II, Guben, and Weisswasser; 1602-Neugersdorf, Bautzen, Forst and Sentenberg. (Arctic 12/28)

Germany, West. The ex-VOA transmitter from 173 may be used in the future by DLF on 209. More information on the split-up of NDR: it will be cut into two different companies, one for Schleswig-Holstein (Kiel), and the other for Niedersachsen (Hannover). A new company for the Hamburg area will be set up. In addition, private and commercial radio and TV will be allowed to operate in this part of West Germany. Other states in West Germany are expected to have pressure put on them to do the same. The federal government has no say since each state has different laws regarding media. Only DLF and DW are federally operated broadcasting stations. Apparently the federal courts are being asked to rule on the whole matter. (Arctic 12/14)

Great Britain. The Conservative government has withdrawn its effort to cut BBC's External Service's budget. Jersey and Guernsey are likely to have their own local BBC stations early in 1981. A relay of Radio 2 is being built at the Rohais, St. Peter Port. The BBC is using the former LBC transmitter at Lotts Road for Radio 4 on 720 khz. BBC Morning Sou'West is a program aimed at the SW of England and the Channel Islands 0630 and 0835. Main studio is in Plymouth with unmanned studios in Exeter and Truro, Cornwall. Frequencies are 756-Redruth, 2 kw; 801-Barnstaple, 2 kw; 855-Plymouth, 1 kw; 990-Exeter, 1 kw; and 1458-Torbay, 1 kw. (Arctic 12/14)

International Waters. Radio Delmare-1566 is silent again. The ship Aegir 2 was brought into Holland and was immediately raided by Dutch police. (Arctic 12/28)

Iran. The Voice of the Islamic Republic of Iran announced that its second program would begin on 1326, but this channel has been reported instead as carrying relays of the open sessions of the Council for the Final Study of the Constitution. (BBCMS via Arctic 12/28) The external service in AA has been extended from 49 to 63 hours per week. AA now 0530-0830 on 1116, 612, 575; 1430-1630 on 1386, 1116, 1080; 1730-2130 on 1116, 1080. (BBCMS via SCDX 1/8)

Israel. Voice of Israel recently introduced additional external service in Persian 1840-1900 on 738//7465; otherwise this frequency carries Network D in AA with news bulletins in EE and FF. (BBCMS via SCDX 1/8)

Jordan. A new 2 mw transmitter is being used intermittently on 801 khz. Originally this was to be used on a lower frequency before that frequency was grabbed by Saudi Arabia. Used in afternoons and evenings, eventually will be fulltime in place of the existing 200 kw unit. (SWNS)

Kuwait. First program in AA 0225-2210 on 540 and 1134. Second Program and Foreign Language service from 0200-2100 on 1341. (Arctic 12/28) Marconi Communications will install an additional 750 kw transmitter for the Kuwait BC and TV Service. Kuwait already has three 750 kw transmitters in use. (Broadcast Engineering, via Bruce Portzer)

Lebanon. The Voice of Hope now operates on 945 ex 936. (BBCMS via Arctic 12/14) The pro-Phalangist Voice of Lebanon-866 is on 0415-0925 and 1010-2130. (BBCMS via Arctic 12/28)

Liberia. The Liberia Broadcasting Corporation (ELBC) is supposed to have begun use of its new 50 kw transmitter. An additional 10 kw transmitter is expected to be used soon. (BBCMS via NZDXT 12/79)

Malta. Radju Malta International on 756 is on 0700-1700. English programs 1315-1700 consist mostly of transcriptions of major SW stations such as R. Nederland, R. Moscow, UN Radio, etc. (SCDX 12/18)

Morocco. The Minister of Information says that measures to reopen Radio Tetuan were progressing and it would be back in operation by summer 1980. (BBCMS via Arctic 12/28)



Nigeria. Imo Broadcasting Service has purchased 3 10 kw transmitters AM and 3 10 kw FM transmitters from McMartin Industries of Omaha. Transmitters will be installed in 3 towns in Imo state in mid-spring 1980. (Electronic News via Bruce Portzer)

621 Anambra Bc. Corp, Enugu 0430-2305	1017 Congola Bc. Corp., Yola 0430-2305
638 Bendel Bc. Service, Benin, 0430-2305	1313 Plateau Bc. Corp., Jos 0430-2305
711 Radio Benue, Makurdi, 0430-2305	1367 Cross River Radio, Calabar 0430-2305
721 Imo Bc. Service, Owerri 0400-2300	
729 Kano State Bc. Service, Kano 0430-2305	Federal Radio Corp. stations heard on:
756 Bc. Corp. of Oye State, Ibadan, 0300-0000	593 Kaduna 0430-2305
809 Radio Kwara, Ilorin 0430-2305	827 Enugu 0430-2305 ex 621
900 Ogun Bc. Service, Abeokuta 0400-2400	1088 Lagos 0430-2305 (not 918)
945 Ogun Bc. Service, Abeokuta 0400-2400	(BBCMS via Arctic 12/14)

Portugal. A bill containing matters of overall policy in radio broadcasting has been vetoed by the President. This bill would have permitted operation of private stations and also new frequencies subject to government control. (BBCMS via Arctic 12/28) Porto Alto (Lisbon) is now on 1035. Porto (Miramar) is still on 782. Third Program is called Radio Commercial onda media. Fourth Program (FM). These programs of Radio Commercial differ from First Program (666) and Second Program (756) by carrying commercials. (SCDX 12/18)

Saudi Arabia. Duba-594 has been noted in Europe, despite Frankfurt. (Arctic 12/28)

#### Spain

1359 Radio Peninsular de Barcelona, ex 1539. (Arctic 12/28)	
New RNE stations to be on the air soon:	1395 EFJ15, Radio Juventud, La Voz de
639 Almeria, 20 kw	Cataluna, Barcelona back here again.
774 Orense, 20 kw	1467 EAJ38 Radio Gerona ex 1485
855 Pontevedra, 20 kw.	1539 EAJ22 R. Huesca here ex 1602.

Arctic 12/14)

Switzerland. Swiss Broadcasting Corporation has 4 transmitters: 531 Beromunster for GG speaking Switzerland connected alternatively with studios of Bern, Basel, Zurich, and Chur. 558, Monte Ceneri for Italian Swiss (Radio Della Svizzera italiana, studio in Lugano. 765, Sottens for French Swiss, studios in Lausanne and Geneva. 1566 Sarnen for GG Swiss with same studios as 531. (Arctic 12/14)

Syria. Western/Turkish program from Damascus now heard on 872, 1070, 1314, and 1484. Damascus also broadcasts in Hebrew to Israel on 782 0500-0630 and 1400-1530. (WRTH via Arctic 12/14) Radio Damascus on 1485 has been heard with AA at 1830, Russian at 1900 German at 1930, French at 2000 and English at 2100. (SCDX via NZDXT 12/79)

Transkei. New Capital Radio opened on 12/26 with 500 kw on 603 from Herschel. Will broadcast 20 hours a day in EE. (Arctic 12/14) The signal will be powerful enough to reach every major center in southern Africa in daytime except Capetown which will be covered by a special SW transmitter. (NZDXT 12/79)

United Arab Emirates. New schedule of the Voice of the United Arab Emirates is: Abu Dhabi-728 0200-2130 in AA; 809 0200-1400 in AA, EE, FF, and Urdu. Sharja-1575 in AA 0230-2130. Fujairah-972 0230-0600 and 0900-2130 in AA. Ras-Al-Khaimah-1175 0215-1610, 1000-1900 in AA, EE, and Urdu. Umm-Al-Quivan-846 0215-1705 and 1100-1600 in AA. The frequencies of 728, 809, and 1175 do not correspond with the new MW band plan. (SCDX 1/8)

USSR. Radio Moscow will verify reception reports naming transmitter sites if program details are included with the report. (SCDX 12/18) Rumanian program at 1500 on 891 is from Kiev, using transmitter at Uzhgorod. This program is in same category as Foreign Service from Kiev on SW. (Arctic 12/28)

Yugoslavia. A new 1 kw transmitter at Pancevac on 1584. (BBCMS via Arctic 12/28)

#### LATIN AMERICA

Brazil. Radiobras, the government broadcasting agency, plans to have all their MW station on 980 and 1130 only. R. Nacional will soon become a national coverage station, with just separate local outlets for news, weather, traffic, etc. R. Nacional do Rio de Janeiro and Brasilia will operate during the day on 1130 and 980 respectively; only Brasilia will remain on at night with 600 kw, programming originating in Rio. At present both stations are on 24 hours. R. Ipanema in Rio is presently on 980. Incidentally, R. Nacional is the only station in Rio playing exclusively Brazilian music. All other stations seem to play more US and British pop music. (Arctic 12/14)

Colombia. HJFY R. Avenida-1390 ex 1370 has been heard in Scandinavia by several. (Arctic 12/14)

Peru. The government plans to return all newspapers and radio stations which were confiscated in 1974 to their owners. (Arctic 12/14)

St. Lucia. According to official information, Radio St. Lucia has a 1 kw transmitter on 625 on the southern part of the island; hopes are to eventually increase power to 10 kw. (WRTH via NZDXT 12/79)

Venezuela. YVNE-820 La Voz de la Sierra, Churuguara used to be on 1280, but seems to have moved here. Power is said to be 1 kw. YVLF-1290, R. Puerto Cabello now uses this slot again according to several listeners. (Arctic 12/14)

China. Gansu People's Broadcasting Station, Lanzhou recently announced frequency as 873. Like the Inner Mongolian PBS in Hohhot, it no longer uses the anthem "East is Red" or the "Internationale" at s/on and s/off. The Heilongjian PBS in Harbin broadcasts on 621 and 900 from 2040-0630 and 0830-1530. Programs mostly in standard CC, but there is a KK pgm from 0300-0400. Jilin PBS, Changchun announces 738 ad- 1530 khz. Operates 2050-0530 and 0850-1505. Ningxia PBS, Yinchuan on 891 and 1287 are on from 2210-0150, 0350-0600 and 0920-1535. (BBCMS via Arctic 12/28)

Liaoning PBS in Shenyang broadcasts on 612, 1089 and 1260. Shandong PBS broadcasts on 594, 918, 1485 and 1548. Sichuan PBS at Chendu carries the first program on 1116 at 0250-0630, 0930-1505 and 2120-0100. Local news at 0300, 0400, 1100 and 2310. Radio Peking Domestic Service is broadcast at 1200-1230. (BBCMS via NZDXT 12/79)

Hawaii. Alan Roycroft has been made an honorary member of the NZDX League because of the help he has given DXers. (NZDXT 12/79)

#### Korea, South.

558 Yeong-il , Pohang, 2nd pgm, 250 kw, EE at 1100-1130 and 2330-2400  
603 Namyang, 2nd pgm, 500 kw  
711 Sorae, 1st pgm, 500 kw  
756 Suweon, ex-HLSR program, cd 1600, 1st pgm, 100 kw  
918 Yeoncheon, 1st pgm, 50 kw  
972 Dangjin, Education, Social Education 1st pgm to N. Korea, 1500 kw  
1134 Gimpo, cd 1600, 1st pgm, 250 kw  
1143 Jeju, 2ns pgm, 250 kw  
1170 Gimje, Social Education 2nd pgm to Japan and S. Korea, 500 kw, ex-972. Japanese 1100-1330, EE 1000-1030, and Chinese 1030-1100.  
1269 Yangju, cd 1600, 1st pgm, 10 kw  
1341 Gimpo, cd 1600, 1st pgm, 10 kw  
1008 Segcho, domestic pgm, 50 kw, ex 1170, KBS

1st pgm from 2000-1800 in Korean; 2nd pgm from 0500-0000 in Korean (includes English) Social Education 1st pgm from 0500-0100 in Korean; 2nd pgm from 1000-0500 in Korean (includes Japanese, English and Chinese). (Arctic 12/28)

Laos. National Radio of Laos announced a new service called the "Entertainment Program for Promoting Patriotism and Revolutionary Enthusiasm" every Sat. and Sun on 1030 khz. This channel used other times for National Radio of Laos' external service. Regular domestic service on 640 khz at 2200-0200, 0330-0700 and 0900-1600. (BBCMS via NZDXT 12)

Papua New Guinea. New station called Radio West Sepik opened 12/4 with 10 kw on 1593. (SCDX via Arctic 12/28)

Solomon Islands. SIBC is planning a 5 kw station on 1386 in 1980 from Kijakira. Another station is planned for Graciosa Bay with 2 kw. (Arctic 12/28)

Taiwan. International Community Radio in Taipei (ICRT)-1550, was off daytimes in November to install new towers. ICRT, a former AFRTS station, has an AFRTS-style format with somewhat less public affairs. News broadcasts sponsored by various businesses. (SWNS)

Trust Territories of the Pacific. KSAL-940, Saipan, nominal frequency of 936. WSZE is still on 1050, Saipan, nominal frequency of 1053. WSZC, Truk, is on 1602, ex 1300. (Arctic 12/28)

I think that's all for this time. 73 de FJP.



#### PORTLAND, OREGON RADIO FORMATS (Courtesy of Pat Martin)

620	KGW	Top 40	1290	KLIQ	Religious/Big Band
750	KXL	Easy Listening/MoR	1330	KUPL	Easy Listening
800	KPDQ	Religious	1360	KUIK	Top 40/pop
940	KWRC	Top 40/pop	1410	KPAM	Top 40
970	KYTE	Modern Country	1450	KBPS	NPR (Variety/Educational)
1080	KWJJ	Country Western	1480	KARO	Top 40/rock
1150	KKEY	Talk	1520	KYYL	News/Talk
1190	KEX	Contemporary/Personality	1550	KGAR	Country-Western
1230	KRDR	Country-Western	1600	KOHI	Country-Western

# Report From New Zealand

John L. Allchin Auckland, New Zealand

The following stations were heard either at my home in Auckland (indicated by AK) using a Sony ICF-6800W connected up to a 36 inch frame loop antenna or at the beverage antenna site at Te Araroa, East Cape (indicated as TA) using the Sony, and a 1250 foot longwire directed to the northeast. Reception times are in G.M.T.

- 550 KTSA San Antonio, TX - 11/19 0848 up fair w/contest promo, '55-KTSA' ID then into rr. KMVI way under. (TA)
- 560 UNID ----- - 11/20 0734 C&W made it thru Fiji-558 and 2YA-567 splatter at this time, & other occasions, but peaks didn't correspond w/ID. KLVI & KWTO are suspects. (TA)
- 570 KLAC Los Angeles, CA - 11/19 0756 peaking good w/C&W, frequent IDs thru 2YA-567 splatter. (TA)
- 580 KFXD Nampa-Boise, ID - 11/18 1034 at a good steady level w/Top 40 mx, frequent IDs atop WIBW/KMJ
- 580 WIBW Topeka, KS - 11/20 1100 ending C&W selection, ID then into CBS nx. Good o/everything. (TA)
- 590 UNID ----- - 11/19 0831 station followed past 0845 u/& mx'd KGMB. EST t/c heard makes WPLO likely. (TA)
- 600 KSJB Jamestown, ND - 11/13 0855-0910 in fair o/ KROD & Cuban w/C&W mx, ID 0905 as 'Radio 600, KSJB'. No sign of usually dominants KOGO & CJOR. (TA)
- 600 KROD El Paso, TX - 11/13 0905 ID moments before KSJB ID, as 'better mx Radio 6, KROD'. This a/nx, rapidly faded. (TA)
- 610 WDAF Kansas City, MO - 11/19 1011 fair o/subdued KFRC w/C&W, '61 Country' IDs, anncr was Phil Young. Lost to QRM 0520. (TA)
- 620 WSUN St. Petersburg, FL - 11/18 0930 noted w/nx headlines to 0931, ID & into C&W. Fair atop others. (TA)
- 620 KNGS Hanford, CA - 11/13 0929 w/slight het against 3AR-621, C&W mx, frequent 'Kings Country 62' IDs, fair above QRM. (TA)
- 620 KWFT Wichita Falls, TX - 9/26 in fair w/severe 3AR-621 het w/wx for TX & Wichita Falls, then into farm news 1050. (AK)
- 660 WNBC New York, NY - 11/18 0718 ID & into Stevie Wonder song, station promoting 'commercial free half hour of mx' easily thru 2YC-657 slop, but gone by 0223. (TA)
- 720 KDWN Las Vegas, NV - 11/18 1122 thru 4YC OC (off for maintenance) w/talk prgm sponsored by the Holiday International Hotel. ID 1130 as 'K-Dawn' & KDWN. QRM R. Moscow which was in English. (TA)
- 760 WJR Detroit, MI - 11/20 heard 0700 w/ID 'This is Radio 76, WJR Detroit' then NBC Nx, thru severe KGU QRM. KFMB heard earlier. (TA)
- 770 WABC New York, NY - 11/18 heard 0756 past 0830 competing w/KOB. Top 40 mx, 'WABC News' ID 0259, then sport, wx. Peaked vg. (TA)
- 820 WBAP Fort Worth, TX - 11/18 0635 thru extreme 1YZ-819 het, w/talk. (TA)
- 880 WCBS New York, NY - 11/15 1055 cutting thru 1YC-882 slop at good level w/nx, spot for Annual Olympic Ski Show at Rockland Community College. (TA)
- 890 WLS Chicago, IL - 11/14 0949 unbelievable level w/advts, & jx ID 'The greatest mx, WLS'. Completely destroying Fiji & ZXW both on 891 kHz. (TA)
- 910 KRIO McAllen, TX - 11/13 0735 atop KNEW/KJJJ/KOXR w/automated rr, & 'Super Rock, KRIO' IDs. (TA)
- 920 KARN Little Rock, AR - 11/14 1000 a/a block of BFL mx, an ID & into NBC nx atop another, some 3YZ-918 slop. (TA)
- 930 CJCA Edmonton, AB - 9/23 1351-1407 w/good signal way o/KHJ, Nx 1400, then Edmonton Area Weekend Wx 1405, sports nx. (AK)
- 930 KSEI Pocatello, ID - 11/18 1300 tentatively the one here u/KHJ w/Mutual IDs, very poor. (TA)
- 960 KABL Oakland, CA - 11/15 0859 w/CLA mx, ID 0900 'In the air, everywhere, this is KABL Oakland, San Francisco', followed by nx. Good o/KARZ & 3YC-963 slop. (TA)

- 970 WDAY Fargo, ND - 11/20 0643 Larry King heard here mixing KYTE/KPUA at this time, WDAY only one on 970 w/LK at this time, so seems likely. (TA)
- 980 CKRM Regina, SA - 11/19 0752 w/C&W past 0810 w/'RM-98' IDs way o/KFWB & Unid TT, 1YE-981 was little problem here. (TA)
- 1010 KLRA Little Rock, AR - 11/18 1112 tentatively the one here w/CBS R. Network promo, weak and soon faded. Mixed XEHL and another. (TA)
- 1020 KBCQ Roswell, NM - 10/11 1235 w/Top 40 mx fair to good atop KTNQ w/many IDs mentioning 50,000 watts, taking requests too. (AK)
- 1020 KDKA Pittsburg, PA - 11/15 0748 floated in o/KTNQ w/talk show, gone again by 0250. Peaked fair. (TA)
- 1030 WBZ Boston, MA - 11/18 0623 tremendous signal, equal level w/NZers on 1026 & 1035 kHz, talk show w/ph. no. (617) 254-5678, then took call 'hello you're next on WBZ Radio'. (TA)
- 1030 KCTA Corpus Christi - 9/7 1315 up to vg level w/REL, ID anncing 50,000 watts clear channel, then 'Chapel of the Air'. Hrd o/KTWO. (AK)
- 1050 CHUM Toronto, ON - 11/19 0733 came in out of nowhere peaking strong w/advts wx, and 'Chum' ID, then Bee Gees mx. Way atop SS station. (TA)
- 1050 CFGP Grande Prairie, AB - 10/29 1250 poor to fair but clear w/extensive farm and livestock rpts, o/the Mexican. (AK)
- 1060 KYW Pennsylvania, PA - 11/19 0634 w/wx for '5 State Area' and 'KYW Nxttime' ID, then into nx report from Iran. Fair o/CFCN/KPAY, noted past 0644. (TA)
- 1080 KRLD Dallas, TX - 11/18 1133 noted good o/KIOE w/ID & C&W mx. (TA)
- 1140 KMJJ North Las Vegas, NV - 11/19 1120 fair to good w/PSAs & many 'Magic 11, KMJJ' IDs w/KRAK off for MM SP. (TA)
- 1150 KSAL Salina, KS - 11/19 1133 fair atop XEJP w/spot for Music centre in d/town Salina, then '1150 KSAL' ID. (TA)
- 1150 KAGO Klamath Falls, OR - 10/23 1247 w/nx, wx and ID 'you're now up to date on KAGO'. Fair to good above QRM. (AK)
- 1150 KBAI Morro Bay, CA - 8/15 heard ETing w/George Harrison song, then annc that they were reducing pwr from 5000 watts to 500 watts, told listeners to standby. Wasn't heard on reduced power. Hrd 1317. (AK)
- 1150 CKIQ Kelowna, BC - 9/9 1310 ID heard in between songs, w/contest promo 1314. Fair topping the freq o/QRM. (AK)
- 1150 CKX Brandon, MB - 9/23 1222 poor to fair w/sports nx, than a '1150 CKX' ID and into mx. Made some further appearances from time to time. (AK)
- 1150 KAYO Seattle, WA - 9/22 1253 surfaced above the jumble w/KAYO ID, then SID & into C&W. Noted nil to fair to ABC Nx 1330. QRM CKX/KAGO. (AK)
- 1150 UNID ----- - 11/16 0638 w/Larry King, a couple of possibilities, WJBO seems most likely. (TA)
- 1180 KOFI Kalispell, MT - 10/21 1300 fair, peaking good w/ID 'It's coming up 7 o'clock at KOFI in Kalispell'. Into UPI Nx. Het against 3KZ-1179. (AK)
- 1190 WOWO Fort Wayne, IN - 10/28 1203 w/KEX off, heard nx, wx then 'Wo Wo Nx' ID then into talk prgm. Fair to 1209 then faded u/QRM. (AK)
- 1180 KOFI MT KALISPELL - 10/21 0900 fair, peaking good w/ID 'It's coming up 7 o'clock at KOFI in Kalispell'. Into UPI Nx. Het against 3KZ-1179. (AK)
- 1190 WOWO IN FORT WAYNE - 10/28 0703 w/KEX off, heard nx, wx then ID as 'Wo Wo' Nx, then into talk prgm. Fair to 0709 then faded u/QRM. (AK)
- 1190 KEYZ CA ANAHEIM - 11/18 0458 w/ID 'KEYZ - Anaheim', then into prgm called Powerline w/John Rivers. Fair thru KEX OC. (TA)
- 1190 CFSL SA WEYBURN - 10/25 0817 surfaced o/KEX during KEX fade, w/ID then spot for a theatre in Weyburn. KEX back on top by 0819. (AK)
- 1260 KGIL CA SAN FERNANDO - 11/14 0110 in the clear before 3XA faded in, always in behind the NZer. (TA)
- 1270 KFJZ TX FORT WORTH - 11/18 0137 Neil Diamond hit, ID then wx for Forth Worth-Dallas Area from KFJZ's Meteorologist Mike Rucker. Temp was 57. Very good atop SS station. (TA)

- 1280 KKAL CA ARROYO GRANDE - 8/14 0658 on new calls ex KFYV w/sports nx, and into C&W. Fair atop the QRM. (AK)
- 1280 KFRN CA LONG BEACH - 8/14 0714 w/blocks of instrumental mx, then Family Radio ID. Fair when surfaced o/the QRM. (AK)
- 1280 KBDF OR EUGENE - 11/29 0714 poor to fair w/ID and into 'Knights in White Saturn' song, gone by 0718. (AK)
- 1280 KJOY CA STROCKTON - 11/18 0810 faded up o/KFRN with Top 40 mx, wx and jx ID ' W/Pat Kelly - KJOY' then into rr. Good signal. (TA)
- 1280 KIT WA YAKIMA - 11/18 0949 topping the freq w/spot for warehouse in Yakima, ID then into Pop mx. (TA)
- 1290 WHIO OH DAYTON - 11/19 0210 pleasant surprise w/Carol King song, ID & wx then CBS R. Network prgm. Fair and clear o/QRM. (TA)
- 1290 KHSL CA CHICO - 11/13 0300 noted w/s/off annct and SSB, leaving KMEN in the clear. (TA)
- 1290 KTRN TX WICHITA FALLS - 11/20 0210 w/end of nx, then wx and '1290 KTRN' ID and into Bee Gees hit. Fair, dominating the freq. (TA)
- 1290 KRGV TX WESLACO - 12/20 0622-0700 w/extensive agricultural rpts, wx, PSAs for forest fire prevention. Wx 0658 sponsored by Chevy dealer in Brownsville. Generally good o/KMEN. (AK)
- 1300 CJME SA REGINA - 9/14 0724 noted o/KWKW w/no sign of KMPS w/spot for car dealership in Regina, two IDs and into Top 40. Peaked fair but soon faded. (AK)
- 1310 KNPT OR NEWPORT - 9/22 1010 fair and alone on freq, probably on day pwr and pattern w/spot for sports coverage and list of sponsors, many IDs then into mx. KDIA was there 5 mins before. (AK)
- 1320 KGNR CA SACRAMENTO - 11/14 0915 very good level w/'KGNR Sports' ID spot for United Calif Bank then more nx. (TA)
- 1330 KFH KS WICHITA - 11/20 0125 thru 1X1-1332 slop w/lady anncer, '13-KFH' ID & into C&W. Poor-fair o/2 others, soon lost to QRM. (TA)
- 1360 WSAI OH CINCINNATI - 11/19 0334 exceptional level o/KRYS/KGB w/many IDs, spot for American Ctry Countdown on 'AM 1360, WSAI'. (TA)
- 1380 WLCY FL ST. PETERSBURG-TAMPA - 11/13 0249 all alone except for XECO during unusual cx w/Top 40 mx, ID and nx 0250. No sign of KTOM. (TA)
- 1410 WIZM La Crosse, WI - 11/18 0700 ending Larry King w/Mutual ID, then SID 'WIZM' and La Crosse, Wisconsin mention. Poor to fair w/no sign of WUNI/CFUN. (TA)
- 1420 WOC Davenport, IA - 11/12 0720 peaking fair o/KCCN w/'WOC Sports' ID. (TA)
- 1420 KTQE Mankato, MN - 11/19 0656 dominating to fade out 0205 w/Top 40, nx, sport, advt, wx & ID. Fair o/KSTN/KCCN/WOC. (TA)
- 1420 KSTN Stockton, CA - 11/19 0657 ID heard u/KTOE w/promos for mx all night long. Poor. (TA)
- 1430 KLO Ogden, UT - 7/30 1316 thru severe het against 2WN-1431 taking calls for 'Super Sponge Contest', & '1430 KLO' IDs. Fair despite het. KALI way u/w/SS prgm. (AK)
- 1430 KGAY Salem, OR - 11/14 1526 poor signal from this daytimer w/KGAY Nx & Sport ID, then into C&W. Gone by 1029. All alone on freq. (TA)
- 1440 WHHY Montgomery, AL - 11/19 0615 faded up to barely fair w/ID o/KUHL/KEYS and other QRM and quickly faded again. (TA)
- 1440 KUHL Santa Maria, CA - 11/15 0917 best ever heard w/spot for the Union Hotel then into Top 40 mx, good past 0931. (TA)
- 1460 KSO Des Moines, IA - 11/16 0843 poor, to peaks at good level w/C&W thru minimal 3YW-1458 slop. Many IDs. (TA)
- 1470 CJVB Vancouver, BC - 11/16 0859 past 0931 nil to poor mixing XESM & thru 1XA-1476 splash w/instrumental mx. Wx for major world cities 0930. (TA)
- 1480 KYOS Merced, CA - 11/15 0726 thru little 1XA-1476 slop w/Top 40 mx, then ID. Some fair to good peaks. (TA)

- 1500 KXRX San Jose, CA - 11/14 0937 assumed the one here w/Larry King mixing KUMU/KSTP. (TA)
- 1510 WLAC Nashville, TN - 11/12 0612 frequent visitor around this time, later mx'd KGA. Many '15-LAC' IDs, w/rr mx. (TA)
- 1530 WCKY Cincinnati, OH - 11/17 0834 faded up to equal level w/KFBK w/promo for an upcoming prgm and a no. of IDs clearly heard. (TA)
- 1540 KZLA Los Angeles, CA new calls ex KPOL heard w/Larry King to 1058, local prgm to ID & nx 1100. Good signal tho strong het against 1539 kHz. (TA)
- 1550 KQWB West Fargo-Fargo, ND - 11/13 0721 topping the channel w/Top 40, often heard mx'd & u/KGAR/KKHI
- 1570 UNID ----- - 11/15 0812 someone came up IDing as 'Centre Island Radio', then back into Top 40, and faded. Maybe often heard CHUB. (TA)
- 1580 CEJ Chicoutimi, PQ - 11/19 1038 w/KDAY off, hrd instrumental mx, no anuncts then Canadian anthem 1056 & French talk heard. Fair level. (TA)

In addition to these stations many of the easier heard stations and clear channel stations were not listed; they are ....

KFI-640	KRMG-740	CFPR-860	WHO-1040	KSL-1160
WSM-650	WSB-750	KOAM-860	KNX-1070	KVOO-1170
KBOI-670	KFQD-750	WWL-870	KING-1090	WHAM-1180
WMAQ-670	KOB-770	KRVN-880	KFAX-1100	WOAI-1200
KNBR-680	KCRL-780	CJVI-900	KFAB-1110	WCAU-1210
WLW-700	WBBM-780	KFRE-940	KRLA-1110	KGYN-1210
KIRO-710	KABC-790	KJR-950	KPNW-1120	CKDA-1220
KMPC-710	WCCO-830	CKNW-980	CKWX-1130	KEEN-1370
CKLG-730	WHAS-840	KOMO-1000	KWKH-1150	KCEY-1390
KTRH-740	KOA-850	CBR-1010	KSDO-1130	KGER-1390

PTO

## Report From the Azores

by Mark Connelly

A friend of mine who works at Teradyne, Peter McGonagle, recently went to Lejes Field on a two week tour of duty with the U.S. Naval reserves. He took a Realistic TRF, a cassette recorder, and a copy of the World Radio-TV Handbook. During the tour, he also made a brief stop in the Canary Islands. After analysing tapes and logs, the following loggings are hereby reported:

### AZORES LOG

- 531 Algeria, Ain Beida, xln't w/YL AA chant & violins 0120 9/30.
- 548 Algeria, Oran, loud w/AA mx //531 0120 9/30.
- 567 Ireland, Tullamore, good w/"Take 5" by Dave Brubeck 0121 9/30. Also hrd evening of 9/30 w/special coverage of Papal visit to Eire; anc'r said stn would be on for 24 hrs a day.
- 585 Spain, Madrid, good w/SS family drama 0122 9/30.
- 594 Unid, German suspected w/rock mx 0123 9/30.
- 612 Morocco, Sebba-Aioum, good w/AA mx 0125 9/30.
- 640 Canada, St. John's, CBN, poor-fair w/EE talk o/SAH's 0128 9/30.
- 648 England, Daventry, BBC good w/EE discussion 0129 9/30.
- 666 Portugal, Lisboa, very good w/PP male vocal 0130 9/30.
- 670 Unid, probably CHYQ 0131 9/30.
- 684 Spain, Sevilla, loud w/SS argument, drama //585/855. Slavic male vocal way underneath, probably Yugoslavia 0132 9/30.
- 693 England, BBC synchros, good w/EE talk, the old time piano mx atop het from something on 692 0133 9/30.
- 719 Portugal, Norte loud w/PP dialogue mentioning Hebrew League 0135 9/30.
- 756 West Germany, Braunschweig et al, noted w/"oompah band" style German instrumental mx 0136 9/30.
- 770 USA, New York, WABC, fair-good w/"Some Day We'll be Together Again" by Diana Ross & the Supremes 0137 9/30.
- 782 Portugal, Porto Miramar, loud w/guitar rock 0138 9/30.
- 801 USSR, Leningrad, good at s/on o/GG stn & 800 het (VOWR?); Russian anthem, woman in RR, then "skating rink" type organ mx followed by man & woman in RR 0158-0202 10/1.

- 810 Spain, Madrid, good w/SS vocal and guitar 0139 9/30.  
819 Morocco, Rabat, extremely loud w/AA mx 0140 9/20.  
828 Portugal, fair w/PP talk. The Moroccan on this channel was off at the time 0141 9/30.  
837 Azores, Pta. Delgada, local hrd w/soccer in PP 1705 9/30.  
846 Italy, Roma, good w/II MoR mx 0142 9/30.  
850 USA, Boston, WHDH, very good, equalling level of 846 & 855; Jim Sands Saturday Night Oldie Show heard, WHDH ID 0143 9/30.  
855 Spain, Murcia, good w/SS family drama //585/684 0144 9/30.  
873 Spain, Zaragoza, suspected here w/disco 0145 9/30.  
882 Wales, BBC sychros fair-good w/"Nobody Does it Better" //909; just o/strong WCBS het 0146 9/30.  
891 Algeria, Algiers, probably the chanting heard here just atop low het rumble 0147 9/30.  
900 Italy, Milano, good w/time pips, nx in II, then RAI ID & nx in EE; AA station underneath was probably Saudi Arabia, 0300 10/1.  
909 England, BBC fair-good //882 0148 9/30.  
918 t Spain, disco mx, poor, 0148 9/30.  
930 Canada, St. John's, CJYQ, fair w/Elton John song o/adjacent European hets 0149 9/30.  
981 Algeria, Alger, loud w/AA chanting 0150 9/30.  
1010 USA, New York, WINS, xlnt w/sports, ID, 0150 9/30.  
1017 Morocco, Tetouan, good w/AA mx, totally dominant, 0515 9/30.  
1026 Unid, Morocco or Algeria here w/AA mx weak 0151 9/30.  
1044 Unid, Weak AA//1062, Sebaa-Aioun off at the time 0152 9/30.  
1053 England, BBC good w/cw mx //1089 0152 9/30.  
1062 Unid, weak AA //1044; PP & II stns not noted 0153 9/30.  
1080 Unid, male AA chant o/low growl of hets 0152 9/30.  
1089 England, BBC good w/cw mx //1053 0153 9/30, xlnt w/light pop mx, female ancr in EE 0335 10/1.  
1120 USA, St. Louis, KMOX, fair w/talk, "...skies are still clear in St. Louis, this has been KMOX news." 0313 10/1.  
1134 Yugoslavia, male vocal //1143 good 0155 9/30.  
1143 Yugoslavia, good w/mx //1134 atop AFN 0155 9/30.  
W. Germany, Stuttgart, AFN, audible u/Yugoslavia, US football game 0155 9/30.  
1179t Sweden, good w/rock song by Dire Straits 0156 9/30.  
1188 Ireland, Cork, fair w/"Midnight Blue" mx pgm 0106 10/1.  
1190 USA, Ft. Wayne, WOWO, fair w/bank ad, Ft. Wayne mentioned 0105 10/1.  
1210 USA, Philadelphia, WCAU, good w/sports talkshow 0158 9/30.  
1215 Albania, Lushnje, xlnt, like a local, carrier popped on & 8-note trumpet IS was sounded. Slavic-sounding talk followed 0159-0201 9/30.  
1224 Spain, Zaragoza, suspected w/disco 0201 9/30.  
1260 Azores, Horta local heard w/PP talk 1652 9/30.  
1332t Italy, pop song "It's too late" //1449 0204 9/30. WRTH does not list operation at this time however.  
1350 France, Nice, good w/FF vocal, then FF talk atop unid stn w/apparent Slavic talk 0205 9/30.  
1368 Italy, assumed w/II group vocal 0205 9/30.  
1395 Azores, Angra Do Heroismo, local hrd, PP talk (soccer results) 1727 9/30.  
1404 Guinea, Conakry, loud w/Islamic chanting, violins, drums, flutes 0340 10/1.  
1422 W. Germany, Saarbrucken, good w/Kaemfert inst mx 0206 9/30.  
1440 Luxembourg, Marnach, ploughing in like a local; pgm was Barry Aldiss DJ show featuring reggae, pop/MoR & disco records, ID given along w/freq of 1439, not 1440 0225 10/1.  
1449t Italy, song "It's too late" //1332 0206 9/30.  
1503 Azores, Lajes, AFRTS, local, LSU football 0210 9/30.  
1539 W. Germany, Langenberg, very good w/GG vocal 0214 9/30.  
1566 Azores, Sousa marches 1700 9/30.  
1593 W. Germany, Langenberg, WDR, very good w/GG vocal 0214 9/30.

#### CANARIES LOG

The following stations were heard from near Las Palmas on 10/4/79 1745-1845.

- |      |                                       |       |  |
|------|---------------------------------------|-------|--|
| 657  | Morocco, AA mx                        | 1125  | Libya, AA talk   |
| 711  | France, FF mx                         | 1170  | Algeria, AA talk   |
| 765  | Senegal, AA mx                        | 1197a | Unid, AA mx, maybe Moroccan                              |
| 882  | Wales, EE rock mx                     | 1206  | France, FF mx  |
| 936  | Morocco, AA talk                      | 1269  | Canary Islands, local w/disco mx, SS talk & ads          |
| 981a | Unid, hets w/FF mx under              | 1332? | Italy?, cl mx  |
| 999a | Unid, rock mx                         | 1341  | Canary Islands, local w/EE lesson for SS speaking people |
| 1017 | Morocco/W. Germany, AA talk o/GG talk | 1521  | Unid, AA talk  |
| 1044 | Morocco, pop/rock mx                  |       |  |

THE INTERNATIONAL RADIO CLUB OF AMERICA

A non-profit organization devoted to the hobby of listening to distant radio stations on the AM broadcast band (510 to 1630 kHz). IRCA is a member of ANARC, the Association of North American Radio Clubs.

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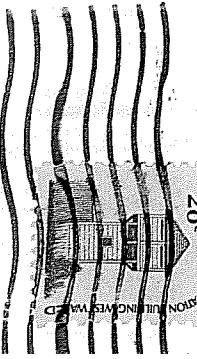
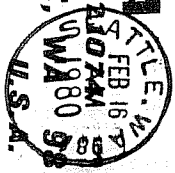
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