



★ ★ ★ DX MONITOR ★ ★ ★

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VOLUME 12

NO. 6

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NOVEMBER 4, 1978

DX CALENDAR DX CALENDAR DX CALENDAR

- MM Nov 7 KUOM--770-Minneapolis, MN 0100-0300.
14-21-28 Open Carrier, Voice IDs & TT. Reports to:
Larry Brogger, KUOM-580 Rarig Center,
University of Minnesota...Mpls, MN 55455
- MM Dec 4 KADE-1190-Boulder, CO. 0200-0300 1 kw-ND.
May use 52.1 watt PSA the last 5 minutes.
v/s-Bob Greenlee, GM. Prepaid calls accept-
ed. 4840 Riverbend Road, Boulder, CO 80301.
(From NRC-DX News)
- MM Dec 4 KPPG-1240-Pasadena, CA 0330-0400 100 w.
1000 cycle tone, music & ID's. Possibly
KROY may be off during part of the test.
Rpts to: George Chambers, GE, KPPG, 3844
Foothill Blvd., Pasadena, CA 91107.
Arranged by Matthew Shugart for IRCA..
- MM Dec 18 KDLG--670-Dillingham, AK 0515-0615 5 kw.
Tones, voice/code IDs, DX gab & some Esk-
imo language. Rpts to: Les Robinson, GM,
KDLG, Box 670, Dillingham, AK 99576.
Arranged by Eddie Ryan, GWDXA...

***** *****FLASH TIPS***** *****

First, thanks to Jef Jaisun, Albert Lobel, Bill Moriyama & The Association of Illionis DXers, among others who forwarded material to HQ. It will be used whenever & wherever possible.

Guy A. Kroger, 211 S. Fawcett, Sioux City, IA 51103 would like to know if someone can steer him to an outlet for an inexpensive military time clock or what he needs to build one.

From Jef Jaisun, 12860 136th Ave NE, Kirkland, WA 98033 (206) 821-4770 pp only... "Because of conflicting schedule I was not able to offer a copy of my new album, 'Brand New Rose' for the IRCA Convention auction. From now thru December 1, 1978 I will be accepting bids on an autographed first pressing copy, with a sequenced number for collectors' reference. The winning bidder will receive the album upon presentation of payment to IRCA HQ. The album contains 9 original songs with full rock and roll or country/rock instrumentation; 27 musicians participated in the project, including former members of the Steve Miller Band and the Kingsmen. The LP has received regular airplay on KZAM AM & FM, KLAY-FM, KGAA and has reportedly been added to KMED, KSHA and KSYG. So far it has not been officially distributed outside of the Seattle-Tacoma area, and as such is currently unavailable elsewhere. Basically the music is light, uptempo rock. Good fun mx. It's on Virgin Vinyl Records, whose motto is "It Sounds Like the First Time List price for this album is \$7.98, with most local stores selling it for \$5.79. Usual mail order price is \$6. These prices are strictly for bidding reference and are not intended for the solicitation of record sales. Copies of newspaper reviews of the LP are available for a SASE. Getcher bid in today, support IRCA, ooo wah wah!"...

SUMMARY OF DOMESTIC STATIONS REPORTED TO DXR's & DXWW VOLUME 12 through CURRENT ISSUE

The following is a breakdown of the number of stations in each state & province and the volume number they last appeared, in either the various DXRs or in DXWW (generally as QRM).....dkk

- KEY: Vol #16=Sep. 1978-Aug 1979
Vol #15=Sep. 1977-Aug 1978
Vol #14=Sep. 1976-Aug 1977
Vol #13=Sep. 1975-Aug 1976
Vol #12=Sep. 1974-Aug 1975
NR =Not reported since
September 1974

STATE	#16	#15	#14	#13	#12	NR	TOTAL
AL	12	59	17	10	11	29	==138
AK	4	7	1	1	0	12	==25
AZ	17	26	8	5	1	7	==64
AR	2	32	17	4	8	24	==87
CA	120	96	4	3	3	7	==233
CO	18	26	7	0	1	20	==72
CT	15	20	2	0	1	2	==40
DE	1	4	2	0	1	2	==10
DoC	4	3	0	0	0	0	==7
FL	19	71	12	6	12	80	==200
GA	35	73	17	7	10	42	==184
HI	12	13	0	0	0	0	==25
ID	16	16	2	5	1	4	==44
IL	20	48	10	14	17	18	==127
IN	14	29	11	13	14	6	==87
IA	10	18	7	9	16	21	==81
KS	9	18	6	5	9	14	==61
KY	10	42	19	9	18	24	==122
LA	19	32	4	5	9	25	==94
ME	10	11	4	1	0	11	==37
MD	17	25	3	1	0	4	==50
MA	19	31	6	0	6	4	==66
MI	13	41	20	17	17	23	==131
MN	5	18	26	6	8	32	==95
MS	10	34	12	8	7	34	==105
MO	12	33	17	9	20	19	==110
MT	9	23	6	0	1	6	==45
NE	6	11	11	2	8	11	==49
NV	16	2	0	0	1	2	==21
NH	9	12	1	1	0	5	==28
NJ	12	15	3	1	1	7	==39
NM	18	7	6	2	8	15	==56
NY	56	58	12	6	9	22	==163
NC	16	86	10	15	17	65	==209
ND	4	14	5	0	0	7	==30
OH	22	42	11	10	15	25	==125
OK	10	11	9	5	10	22	==67
OR	32	38	5	1	3	3	==82
PA	48	74	14	4	12	27	==179

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The Inside Story -

- | | |
|----------------|----------------------|
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**eastern dx
roundup**

Bob Curtis
17 Cobbleview Dr.
Colchester, VT 05446

DEADLINES: Mondays All times are Eastern Local

Splatter:

"ONT. #50" Linda Morby - NY (see 516)
"Caught ID during PSA bandscan." (see CKCY-920) Bill Townshend - DC

"One of my best catches." (see WARD 1540)
Roger Morby - NY
"We miss hearing from our Canadian reporters during the current mail strike." Bob Curtis - VT
** ** ** **

- 516 YWA ON, Patawawa 10/16 2310 In fair with code IDs at 2310. (LSM-NY)
(ed: for the novice DX'er YWA is an aviation beacon.)
- 920 CKCY ON, Sault Ste. Marie 10/12 0600 caught ID during PSA bandscan. (WPT-DC)
- 950 t WIBX NY, Utica 10/16 0019 s/off w/NA after ment of NY state. Fair. (WPT-DC)
- 970 WWDJ NJ, Hackensack 10/13 2231 "The best inspirational programs come to you over WWDJ" by OM. Fair sig(WPT-DC)
- 980 CBV QU, Quebec 10/16 0004 talk in FF by OM, s/off w/NA at 0010. Fair u/CKGM after WRC s/off. (WPT-DC)
- CKGM QU, Montreal 10/16 0010 ID by OM, then song by Three Dog Night. Fair o/CBV. (WPT-DC)
- 990 CBW MB, Winnipeg 10/8 0600 s/on w/NA. Fair-good. (WPT-DC)
+ 10/10 0701 Good at 0701 w/wx for Manitoba & start of nx. (RAM-NY)
+ 10/21 2332-2400 in w/long slow fading playing Broadway hits of 1951 & good "CBC Radio in Manitoba" at 2400. (BC-VT)
- WNTY CT, Southington 10/13 1815 in well at 1815 s/off, EZL mx, no NA, some WTRY QRM. (LSM-NY)
- 1110 CKJD ON, Sarnia 10/8 1843 caught ID by OM. Fair in null of WBT. (WPT-DC)
- 1130 WASP PA, Brownsville 10/10 1842 c/w mx, ID, spot for National Ford, s/off at 1846 w/Lord's Prayer by Perry Como. Good. (WPT-DC)
- 1150 WCNX CT, Middletown 10/17 1728 in over WRUN w/ad & ID as "C-N-X" at 1728. (LSM-NY)
- 1170 CFIK ON, Cornwall 10/13 1830 s/off w/NA sung by OM. Fair u/WWVA. (WPT-DC)
- WJMQ MA, Norfolk 10/17 1732 fair to good w/WWLE nulled, had ID ads for store in Walpole & talk w/local basketball coach. (RAM-NY)
- 1220 CKCW NB, Moncton 10/15 2240 in good w/WCAR, clear ID at 2240. (LSM-NY)
- 1230 WINF CT, Manchester 10/9 0100 good, totally alone on freq. at 0100 w/-end of rlg's pgm & start of nx w/-ID. (RAM-NY)
- 1270 CJCB NS, Sydney 10/16 2323 in predominant w/sports report & then contest announcmt, many IDs, this at 2323 on 10/16. (LSM-NY)
- 1280 WROC NY, Rochester 10/13 1823 "WROC News Radio, Rochester" said by OM. Fair sig. (I heard this as WVET in the 40's and 50's.) (WPT-DC)
- 1300 t WSYD NC, Mt. Airy 10/14 1845 ID, with Y heard as third letter, others were garbled. Poor signal. (WPT-DC)
- 1330 WEBO NY, Owego 10/13 1820 plug for rock show. ID, T-40 mx. Fair atop channel. (WPT-DC)
- 1370 WKMC PA, Roaring Springs 10/13 1830 heard at s/off 1830, much QRM, ments of WHGM-FM and NA. Heard every day since then, too. 10th stn on 1370. (LSM-NY)
- WLOP GA, Jesup 10/7 1900 s/off by OM, ment of Albermarle River after wx forecast. Fair signal. (WPT-DC)
- 1380 WMLP PA, Milton 10/17 1828 fair at s/off 1828, no NA. PA#80. (RAM-NY)

- 1390 WPLM MA, Plymouth 10/13 0100 in well at s/off w/anncmnt and ment of FM. This at 0100 on 10/13, off w/the Lord's Prayer in song. My 10th stn on 1390. (LSM-NY)
- 1440 WBLA NC, Elizabethtown 10/7 1845 s/off, missed ID but ment of NC, 1845 s/off and WBLA being the only NC daytimer on 1440 led to claim of catch. S/off w/NA. Good signal. (WPT-DC)
- t WJBQ ME, Westbrook 10/19 2008 in o/u CFGO w/ad for the Red Barn in Westbrook. I supposed this was WJAB, but note that Comm. World lists WJBQ for Westbrook. (BC-VT)
- 1480 WKND CT, Windsor 10/11 1803 good signal atop freq. at 1803 w/ID. Does anybody know when they're going to move to 620? (RAM-NY)
- WSAR MA, Fall River 10/13 2007 spot for drycleaners in Somerset and Fall River. Wx report (temp 57°F/14°C), then sports show. Fair o/u WLEE. (WPT-DC)
- 1530 WPNO ME, Auburn 10/14 1803 poor at s/-off u/WDJZ/WPTR slop, 1803, much fading (QSB). (RAM-NY)
- WTHM MI, Lapeer 10/13 1833 fair to poor w/ID in WPTR slop. This ½ hr before their ISS. (RAM-NY)
- 1540 CHIN ON, Toronto 10/13 1815 good to excellent o/WPTR! ID at 1815 as "your foreign language station, C-H-I-N", almost all programming is in foreign languages. First time heard in two years. (RAM-NY)
- WABQ OH, Cleveland 10/13 1837 "The new WABQ is coming" by OM. Fair amid QRM. (WPT-DC)
- WARD PA, Pittston 10/11 1832 s/off by OM w/no SSB. Good. (WPT-DC)
- + 10/13 1812 fair to very poor under CHIN w/local WPTR almost totally nulled. One of my best catches. (RAM-NY)
- 1550 WCGR NY, Canandaigua 10/16 1817 fair to poor at 1817 on 10/16 w/2 IDs, com'l, u/UNID, likely unneeded WTTG. (RAM-NY)
- WKBA VA, Vinton 10/13 1844 in fair at s/off 1844 w/much WPTR & WQXR QRM, Jimmy Sweigart rlg's pgm going off. (LSM-NY)
- 1580 CBJ QU, Chicoutimi 10/13 2000 Radio Canada ID, then nx in FF by OM. Fair signal. (WPT-DC)

REPORTERS THIS ISSUE

- LSM-NY Linda Sue Morby, Ushers Road, Ballston Lake, NY 12019
Monty Ward 10-band portable, w/internal ant
- RAM-NY Roger A. Morby, Ushers Road, Ballston Lake, NY 12019
HQ-100C, TRF + dipole ant.
- WPT-DC Bill Townshend, 4500 Conn. Ave., NW # 901, Washington, DC 20008
Realistic TRF
- BC-VT Bob Curtis, 17 Cobbleview Dr., Colchester, VT 05446
SP-600 + longwire

The logging for WHOA in PR was forwarded to DXWW, as PR is included in the foreign DX.
Just a few reporters this week, but nevertheless some real good domestic DX was reported. Several hard-to-get stations are among the loggings, the kind that add to any DX'ers tallies.

73 and good DX Bob Curtis

radio clube de itapira ltda.
ZVR 3B
RUA CONSULHEIRO DANTAS 3 FONE 43 0311 CP 32 CEP 13970 ITAPIRA SP
930 KHz 1000 Werts CGC 49 915 028/000-48

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Tel. 07 21 13 70 31

central dx roundup

Bob Lazar
511 W. Doty St., Apt. 208
Madison, Wisconsin 53703

Deadlines: Tuesdays 11/7, 11/14, 11/21, 11/28 etc.

- 810 CHQR AB Calgary, poor-fair 0118 10/23 o/u KCMO & a tentative KGO w/ easy listening mx, mention of Frankenstein and War of the Worlds programs on Halloween. (RAL)
- 860 *WDMG*GA*Douglas, 10/11 0117-33 Good to fair on ET w/ various tones, brief periods of OC, and one ID shortly after the half hour; some slight QSB, as well as QRM from KOAM/KONO/unid SS; has been noted ETing quite frequently over the past several months, and, JL, is most likely the TTer you heard on 9/14; this one sends out very nice v/l. (SAM)
- 1150*WFPM*GA*Fort Valley, 10/15 0111-23 Very good to fair on ET w/ 750 cycle tone, fragmented patches of hard rock mx and 1 very readable ID at 0123; apparently left the air shortly thereafter; good, steady signal, mostly well o/ usual WJBO/WJRD mess; new w/ stn called, but no answer - reported anyway. (SAM)
- 1300*WLBG*KY*Lexington, 10/14 0247-0340 Good to somewhat below average on ET w/ various tones, some fairly extended periods of OC, and two commercial-type irregularly-spaced IDs mentioning "13; WLBG; Lexington"; some QSB o/u WIBR and other unid QRM; new w/ stn called and reported. (SAM)
- 1460*WPNX*GA/AL*Columbus-Phenix City, 10/13 0122 Xlnt on ET, completely dominating the frequency w/ various tones, brief periods of OC and 1 ID; strong, solid signal, way o/ all unid QRM; a nightly pest in these parts and never rptd. (SAM)
- 1530*WRPW*MS*Poplarville, 10/18 0123-48 Suprisingly weak for a 10,000 watt operation located less than 40 miles from here; slugging it out w/ WCKY on ET featuring nothing but 400 cycle tones, extra-long periods of OC; leaving and reentering the air, w/ 1 ID mentioning end of test; easy "daytimer" in these parts and never reported. (SAM)
- 1560*WAGL*SC*Lancaster, 10/11 0103-09 Very strong signal, well o/ WDXR (up until their 0105 s/off); afterward, all alone on ET w/ Rock mx, 1 ID, more mx and suddenly off; first time relogged since DX Special of 11/10/75; reported at that time w/ v/f received in about six weeks. (SAM)

NEWS FROM NEW MEXICO

The following loggings were all made by Mark Bixby in Santa Fe, New Mexico:

- 560 KLZ CO Denver, 10/7 2209 fair w/cw mx, 2210-"Colorado Country" ID. (This is a format change for them; noted here on MM 10/23 also-ed)
- 610 KRKE NM Albuquerque, 10/7 fair 1657 w/ pop mx at the end of "Jo-Jo's" shift.
- 620 KWFT TX Wichita Falls, 10/7 2215 poor-fair w/ "The best in the great Southwest, this is KWFT in Wichita Falls", into MoR.
- 690 NHEY TX El Paso, 10/7 2029 poor w/ "KHEY Scoreboard".
- 710 KERE CO Denver, 10/7 2225 poor w/"71 Country" ID.
- 730 KDAZ NM Albuquerque, 10/7 1703 poor w/ MoRish mx.
- 810 KAFE NM Santa Fe, 10/7 1708 Xlnt w/ MoR. 1709 "Cafe Radio" ID, into spot for Chamino Car Center.
- 910 KBIM NM Roswell, 10/7 2035 Fair w/ "91 KBIM playing your kind of music" ID and into pop mx.
- KALL UT Salt Lake City, 10/7 2228 poor in mess w/ ID, pop mx.
- 920 KQEO NM Albuquerque, 10/7 1711 poor-fair w/ pop mx. 1712-"AM 920 KQEO" ID, many mentions of "the Q".
- 950 KIMN CO Denver, 10/7 2229 fair w/ pop mx, 2231-TC, ID as "KIMN Music Radio".
- 970 KDCE NM Espanola, 10/7 1716 fair w/ spot for Valley National Bank, into SS mx.
- 1000 KKIM NM Albuquerque, 10/7 1718 fair w/ religious pop mx, 1723-"Radio 100 KKIM" ID.

- 1020 KBCQ NM Roswell, 10/7 1724 poor w/ pop mx, 1728 wx, spot for Coke, and "KBCQ - The sounds of southeastern New Mexico" ID.
- 1060 KRSP UT Salt Lake City, 10/7 2039 fair w/ pop.
- 1090 KAAT CO Denver, 10/7 2000 poor w/ "KAAT News Radio" ID, spot for Avco and into net nx.
- 1150 KUFF NM Albuquerque, 10/7 1731 poor-fair w/ spot for "Comedy Hour" program sponsored by Shakey's Pizza.
- 1170 KVOO OK Tulsa, 10/7 2005 poor w/ "College Scoreboard".
- 1190 KPAR NM Albuquerque, 10/7 1734 very poor w/ beautiful mx.
- 1260 KVSF NM Santa Fe, 10/7 1735 Xlnt w/ pop mx, 1738-spots for Valley National Bank in Espanola and "Pot Luck", a drug paraphernalia shop in Santa Fe.
- 1320 KXYZ TX Houston, 10/7 2245 poor-fair w/ "Studio 13, KXYZ" ID, into pop mx.
- 1350 KABQ NM Albuquerque, 10/7 1740 very poor w/ SS mx.
- 1390 KFML CO Denver, 10/7 2251 poor w/ pop mx, 2255-spot for Factory Outlet.
- 1400 KTRC NM Santa Fe, 10/7 1741 Xlnt w/ high school football game, 1743-spots for "Quality Checked" ice cream and Freight Sales of New Mexico.
- 1490 KRSN NM Los Alamos, 10/7 1746 fair w/ football, 1752- spots for Speedway 7 to 11 Stores and the Los Alamos Credit Union.
- 1510 KDKO CO Littleton, 10/7 2054 poor w/ ID and into local nx.
- 1580 KNIX AZ Tempe, 10/7 2051 fair-good w/ pop mx.
- 1590 KEND TX Lubbock, 10/7 2046 fair w/ horse race results, 2050- cw mx.
- 1600 KBBB TX Borger, 10/7 2018 poor in crud w/ s/off.
- 1620 KAFE NM Santa Fe, 10/7 strong but distorted harmonic noted here.

(Thanks to Nancy Hardy for forwarding these rpts.)

A TIP OF THE HAT TO THESE CDXR REPORTERS

- MB - MARK BIXBY, 1627 Highland Dr., Newport Beach, CA 92660 (DXing from Santa Fe, NM w/ Zenith Transoceanic)
- SAM - SCOTT A. MENTZER, Route #3, Tylertown, MS 39667 (DX-160, Dymek DA3, various LWS)
- RAL - BOB LAZAR, 511 W. Doty St., Apt. 208, Madison, WI 53703 (FRG-7, SM-2)

NANCY HARDY, Editor

2301 PACIFIC AVE.

ABERDEEN, WA 98520

western dx roundup

ALL TIMES ARE EASTERN LOCAL

Phone for hot WDXR tips: (206)532-6827 till 11:30pm (PLT) nightly--prepaid calls only

DEADLINES: Thursday Nov. 9, Thursday Nov. 16

Wednesday Nov. 22, Thursday Nov. 30.

REPORTERS FOR THIS ISSUE:

- (DG) Dan Gradin-27540 SE Chase-Gresham, OR 97030 HQ-180, NRC loop
- (NH) Nancy Hardy-2301 Pacific Ave.-Aberdeen, WA 98520 FRG-7, SM-1
- (SMM) Steve Mittman-2248 W. 37th St.-San Pedro, CA Realistic TRF, 3' wedge 90720
- (bp) Bruce Portzer-6546-19th Avenue NE-Seattle, WA 98115 HQ-180A, 4' box loop
- (RW) Robert Wien-945 Desert Isle Dr.-San Jose, CA GE TRF long-range port., SM-2 95117
- *****
- 570 (KLAC) CA, Los Angeles 10/2 0307 completely off, including their OC (which was left on 8/14) for another rare SP. (SMM-CA)
- 570 KLUB UT, Salt Lake City 10/2 0404 fair w/ nx, ID, into beautiful mx (loooong mx sets, hi.) (SMM-CA)
- 570 KVI WA, Seattle 10/2 0307-0339, 0530-0556 good to poor w/pop mx & OM DJ who enjoyed talking 2-3 min. between each song. Promo for the KVI Deflate-Inflation/Great Grocery Give-Away Contest. (SMM-CA)
- 580 KIKX AZ, Tucson 10/23 0930-0938 poor u/KMJ w/KFXD nulled. Ae nx at 0930 (not Ae as listed in NRC Log.) Mention of KIKX, wx for Tucson, then religious hymns, then local spot. Faded out quickly after 0938. (RW-CA)

580 KFXD ID, Nampa-Boise 10/17 0155 in good w/
no sign of KMJ, w/wx for Nampa, into
pop mx. SID at 0159. (SMM-CA)
KFXD 10/23 0322 noted off RS, w/TT. Strange
as they're usually NSP MM, but off
Tues. morning. (RW-CA)

590 KID ID, Idaho Falls 10/23 0820 ID, very
poor u/KHQ. (DG-OR)

620 KIPA HI, Hilo 10/22 0533 fair to poor w/
"You are listening to rainbow radio--
KIPA in Hilo, Hawaii." KTAR off. (SMM)

690(XETRA) BC, Tijuana 10/19 0410 noted totally
off. KHEY in unbelievable mess! (SMM)

690 XETRA BC, Tijuana (Baja Calif.) 10/21 1310
noted new legal (SS) ID as "XETRA,
Baja California, Mexico;" vs old ID,
"XETRA, Tijuana, Mexico." (SMM-CA)

900 KUEN WA, Wenatchee 10/23 0947 one of my
most-wanted finally heard w/"Blue
Skies" and "Little Things Mean a Lot"
and spot for a furniture store in
Wenatchee just before totally disappear-
ing u/CJVI. KBIF s/on at 1000 eradicated
any further reception. (RW-CA)

900 CJVI BC, Victoria 10/15 0341 poor w/C&W mx,
TC, and ID. (SMM-CA)

920 KQEO NM, Albuquerque 10/23 0540-0600 poor
w/rr mx. "KQ" slogan, IDs. Legal
"KQEO" ID at 0600. (SMM-CA)

950 KSEL TX, Lubbock 10/2 0626 fair w/pop mx.
"26 past 5:00" TC from DJ Kevin Clark.
(SMM-CA)

950 KJR WA, Seattle 10/23 0520 poor w/QRN w/
ID from OM, into wx, then pop mx.
Mention of 15 Grand in cash giveaway.
(SMM-CA)

1230 KFLR AZ, Phoenix 10/5 0109 ex-KRIZ (new
owners) KFLR = Family Life Radio.
Fair w/relig. mx & ment. of bumper
stickers. (SMM-CA)

1230 KPRL CA, Paso Robles 10/4 2159 local ad,
then ID. Into Ai nx. Fair w/KKTT QRM.
(SMM-CA)

1230 KGAM CA, Bakersfield 10/9 0411 good w/
beautiful mx. "The mx is alive and
beautiful on KGAM" slogan. SID at
0415. (SMM-CA)

1230 KRXK ID, Rexburg s/on 0729 10/23 after
SSB, poor, barely readable in the
cacophony. (bp-WA)

1230 KHSN OR, Coos Bay atop channel about five
seconds after KQYZ s/off 0200 10/23
w/mention of "Kissin ? Weekend,"
ID, & into rock mx. Then faded u/
KRDR/CJNL. (bp-WA)

1230 KTDO OR, Toledo 10/21 0328-0333 a total
surprise, occasionally dominant w/
high school football game (Elmira
Cougars vs Toledo ?), many mentions
of Toledo. This supposedly 2 1/2 hours
after their normal 10pm s/off, caught
when frequency clearer. (RW-CA)

1230 (KWYZ) WA, Everett this NSP pest was noted
w/s/off 0200 10/23. Announced they
would be off until 0830 because
they were moving to new studios. (bp-WA)

1280 *KFRN* CA, Long Beach 10/24 noted at 0317 w/
a few min. of OC, but otherwise w/TTs.
Abruptly returned to the air at 0352
w/program in progress, w/ment at 0404
that they had been off for transmitter
maintenance. (SMM-CA)

1280 KWMS UT, Salt Lake City 10/19 2113 good,
well o/KJOY w/ID "KWMS newstime 7:13."
Are they still on day pattern then?
(RW-CA) (According to LSR/LSS map
they go nighttime at 2045!--NH)

1300 KROP CA, Brawley 10/22 0511 good, o/KYNO
& KWKW w/nice clear SID "Your country
sound, K-R-O-P," but soon gone. (RW)

1350 KIVM HI, Lihue 10/23 0415 fair w/QRN w/
info on Hurricane Susan, which was
approaching the islands. Into rr mx.
ID at 0427. (SMM-CA)

1360 KFIV CA, Modesto 10/23 0250 making a very
rare showing through KEEN-1370
splatter w/talk show, "K-5" slogan,
then promptly gone. (RW-CA)

1370 CFOK AB, Westlock 10/23 0855 ID as "OK
Country." (DG-OR)

1380 *KZUL* AZ, Parker 10/7 0415-0500 testing w/
rr mx. OM gave phone # (602)669-9274
collect, and was quite excited to
hear from me. This stn conducts a
f/c from 0300-0500 on the 1st Sat. of
every month. They are normally non-
directional day only, and are the
first U.S. AM station licensed at
2500 watts. (SMM-CA)

1390 KGER CA, Long Beach re DG's question in the
10/21 issue of DXM; KGER is indeed
24 hours, w/a weekly MM SP 0300-0800
(thank goodness, hi!) (SMM-CA)

1430 KCLK WA, Clarkston 10/23 0927 ID then
C&W mx. Fair to good u/KLO. (DG-OR)

1430 CKFH ON, Toronto 10/16 0515 good through
KARM (KALI off) w/C&W mx. Promo for
Brian Parker on the Morning Show
on 1430--CKFH. (SMM-CA)

1440 WRBA IL, Normal-Bloomington 10/23 0634
s/on ID. This one threw me for a
while as I hadn't made the call
change from WAKC to WRBA. (DG-OR)

1440 KCHE IA, Cherokee 10/23 0700 s/on w/
several IDs & then "KCHE news".
Battling w/KEWI. (DG-OR)

1440 KQRS MN, Golden Valley 10/23 0603 s/on
ID immediately after WSGO. Good signal,
dominating the frequency. (DG-OR)

1440 WSGO NY, Oswego 10/23 0602 s/on ID!!! Boom-
ing in w/about 5 IDs during the s/on;
2 of these being of excellent quality.
Actually on top of the frequency, o/
WHHY & several others. Now I believe
it when they say nothing is impossible!
(DG-OR) (Excellent catch, Dan!--NH)

1440 CJOI AB, Wetaskiwin 10/23 0926 ID on top
all alone. I don't know where in the
world KMED, KODL, & everyone else
was. (DG-OR)

1520 WKBW NY, Buffalo 10/16 0324-0401 fair w/
SS QRM w/pop mx. UPI nx at 0346.
Many IDs as "KB-Radio 15," but there
were also a couple of "WKBW" SIDs.
Legal ID at 0400 "WKBW, Buffalo, the
friendly place." (SMM-CA)

1540 KRXV TX, Fort Worth 10/23 0748 ID u/KZOK.
(DG-OR)

1540 KZAM WA, Bellevue 10/16 0508 fair w/pop
mx. Ad for the Guitar Center at 0510.
ID as "Ka-Zam." (SMM-CA)

1550 KQWB ND, West Fargo 10/16 0311 fair o/KRGO
w/ID, into pop song, state # 31. (SMM)

1590 KEND TX, Lubbock 10/23 0440 good through
KBBQ w/C&W mx. "Super Country--KEND"
slogan. (SMM-CA)

DX TESTS HEARD:
930 KIUP CO, Durango 10/23 0205-0241 tuned in
for 36 min., nothing but a "whoop"
sound like an undulating police siren,
interrupted by IDs at 0205, 0210, 0213,
0220, 0225 & at 0241 re-check. Surprisingly
good, quite often well o/KHF, usually
o/u KHJ, CJCA also creating slight QRM.
KSEI s/off at 0200 made reception easier.
(RW-CA)
+10/23 0210 ID weak, KAGI & KSEI had
both just s/off. (NH-WA)

UNIDS:
590 9/29 0545 poor u/QRN w/IDs which sounded
like "CBC-Radio 2," and "2-59." KFXM off.
(SMM-CA)

730 10/23 0941 KSVN? Preacher in CKLG null. Looped
more east than north, so doubt KBOY. KSVN
more likely. (RW-CA)

920 10/23 0555-0604 w/public affairs program,
into NBC nx. Poor u/KQEO; KORK off. KARN?
(SMM-CA)

940 10/23 unID promoting "sunshine stickers,"
looping north. Suspect either KGRL or CJIB.
Who's got sunshine stickers? (RW-CA)

1330 10/21 0349 unID on 1330 w/Larry King u/
KFAC, looping ESE w/KUPL nulled. KPH?
KGAK off. (RW-CA)

1400 KRPL? 10/23 0308 in KRE semi-null, looping
NE (toward Idaho). KVEG not in MDT. Heard
a rumor that KRPL is NSP, rr mx format
heard on this station, maybe KRPL? (RW)

Sure seems odd not to have any Canadian reporters
due to their postal strike. Please remember that
Standard time went into effect on 10/29 so be sure
loggings made around that time have the correct
hour listed.

~~~~~ John Zondlo  
**eastern dx forum** 6617 Maryland  
~~~~~ Hammond, IN 46323

Paul Mount-35 1/2 W. Columbus St.-Nelsonville, OH
4576L-(614) 753-3280 7-8AM & 10:30P-12:30a best
WLCN 1510/98.3 is looking for weekend help, in
case you're interested. Some friends and I may
get a show on the FM Wednesday nights. No veries
received in about 3 months now. I don't think
I'll be writing for veries from Nelsonville,
except for special receptions or DX tests, which
was roughly my policy in Teaneck since 1976.
Congrats to Ron Kida on getting WOWO verified
after several letters and phone calls. Just got
the 9/23 DXM; my mail is being forwarded from NJ,
which seems to take a week. Anyone ID the country
music tester on 1560 MM 9/25? No ID 1:12 to 1:30.
Just the guy saying, "Here we go again," @ 0120.
Probably WTOD or some similar tough station.
Having to get up at 7:15 MMs doesn't help early
morning DX sessions.

Mark Connelly-52 Amsden St.-Arlington, MA 02174
(continued from last DXM) The Quincy site is
considerably closer to the black community served
by WILD than its present location in Medford. WGTR
is still seeking 50kw day/5kw night authorization on
1060, with AM stereo to boot. This, if cleared, will
be from a new antenna farm in Ashland. WACQ may be
changing its call sometime - I'm not sure if its
top 40 and oldies format will be retained. Its
present format is more relaxed than disco-powered
WRKO and more oldies, largely late '60s/early '70s
AM hits of the 3 Dog Night ilk, are featured. All
well and good, but Boston is primarily an FM-
dominated town, with rock stations of every variety,
including WCGY with a format similar to that of
WACQ. It seems that it would do no harm to have WACQ
(or whatever their new call will be) to bring back
the C&W format it had as WQOP. No C&W stations are
audible on AM or FM in downtown Boston on consumer-
grade radios. While I'm not a big C&W fan
(preferring fiddling of the Celtic and Canadian
Maritimes variety), I only think it reasonable that
a market of this size should have one C&W station.
Perhaps such a station could go more progressive at
night with more "outlaw" country-rock to satisfy
both the college student and trucker audience.

Michael Dorner-1304 Airline Park Blvd.-Metairie, LA
70001 (continued from last DXM)
We passed XEUL 1360, and it sits on the northern
edge among expensive beach homes, with its red and
white stick rising above the palms. 50,000 watt
XETRN must lie west of the city, which we did not
visit. I recall hearing a faint signal about that
place on the dial, but it would seem that 50,000
watts should get into Merida, about 60 miles south,
with a better signal. In any event, unless XETRN
runs directional--and my understanding is that few
Mexicans do, because of the economics--then it
should be a fair bet for DXers. Oh, yes, I searched
for my locals down there, and even WWL couldn't
be heard. I am fairly sure that I heard WSMB-
1350, since the voice and format were familiar.
Come to think of it, all the locals, save the GYs,
are highly directional, including WWL. Their new
antenna is in near-inaccessible swamp south of New
Orleans, and no longer on the edge of Lake
Pontchartrain just north of the airport--their
immense acreage out there became too valuable just
for antenna farming. (continued in next DXM-jz)

Bill Wurtzel-32 W. 31st St.-New York, NY 10001-(212)
594-4892
Recent DX includes a nulling of WNJR-1430 late evening
of August 24, in which I heard a call of WLBO playing
country-western music. I don't think it was CKFH
Toronto. The Vane Jones logbook shows no such call
letters. Monday morning September 18 at 0100 I heard
a good signal from WOL-1450 Washington DC playing
R&B music. The DJ gave a phone number of 432-2121 and
I called him. These were on my Sony ICF-8000 6-band.
On the Realistic TRF 9/26 at 0115 CBEF-540 Windsor,
Ontario, came in well. The DJ gave a phone number of
897-4044, but I did not call. I will be reading 5
minutes of my poetry on New York FM station WBAI
99.5 in November. Anyone within range of their
signal should try to hear me, all my poems rhyme.

Here are two limericks for the readers:
Vancouver, British Columbia radio station CKLG
Announces their call as "Radio 73"
It was DX'd by Bill Moriyama
In San Francisco, California
And almost heard back east by me....and.....
While driving down California highway I-805
Albert Lobel saw an airplane take a dive
Coming at him he started to see
A piece of the plane's debris
But drove out of the way, he's glad to be alive.

~~~~~ Rick Heald  
**western dx forum** 1581 - 20th Avenue  
~~~~~ San Francisco, CA 94122  
Ph: (415) Montrose 5-4201

JOHN OLDFIELD - 7135 129A STREET - SURREY, BC, V3W 0T4

As usual I hope to DX this season. I missed Portland
due to a minor eye accident. Those who count a catch
only if they hear the full calls should note that some
Canadian stns. no longer "legally" ID. It's just "CBC
British Columbia" except CBU at s/on & s/off. CFJC is
only "JC 55" in Kamloops, & CHNL(& twins) now rarely
IDs with anything but "NL Radio". In Vancouver it's
now just "LG 73" with no mention of CKLG. Watch you
don't accidentally report the full calls in your reports.
For years many private stns. in Canada had to carry a
bit of CBC in order to keep their licenses. As the CBC
adds more relayers these stns. apply to drop all CBC.
Examples: CKAY, CFJC, CJAT, CFBP, CEM, CJOQ, CJPB, CKOK,
CKOV, CKPG & CHAT. CKPG & CHAT were so desperate to rid
themselves of the CBC that they opened CHPG & CJTH which
just relay CBU/CBR. Silly waste as CBR covers the Hat.
CHPG dies in one year as CBC FM is on. New line limit
so I'll leave quietly. Watch for CHAL 1050 Vernon, BC
& CKST 1070 St. Albert, AB, & CPNY 1480 Newmarket, ON
& the CJBQ twin on 1270 Trenton. CHAL, CKST & CPNY will
be NSP. CKST opens 10/15. CPNY should be easy here,

JEF JAISUN-12860 136th AVE NE-KIRKLAND, WA. 98033 (206) 821-
4770
++++
Hi folks. Sorry I didn't make it to the convention, but it con-
flicted w/the Vancouver, B.C. Folk festival. Sounds like every-
body had a good time, though. I had intended to offer a copy
of my new album for the IRCA auction (some poor sap would no
doubt have been sucked in, hi), so in lieu of that I will do
the following: mail order bids will be accepted thru December
1. The winner will get the LP and IRCA will get the check.
Watch an upcoming AD-VIGOR for further details. My updated
stations-heard list is ready to go, and anyone who wants a
copy should send me a CASE. Matthew Shugart, the jazz you hrd
on 1540 was more than likely KZAM, which programs a lot of
late night stuff like that. KZAM, incidentally, says they've
recently tweaked up their XR but I know for a fact that they
were only running at about 1/2 pwr a couple wks ago. They still
get wiped out at my place by slop from KGAR & KFBK, and I'm
just 10mi (metric is a commie plot, hi), (16km, hi-rth) North
of their XR site. I've recently come by a Hammarlund SP600
which has changed DX around here considerably. I've added at
least 15 newies in the past several weeks, including KOWH 660,
WBUY 1440, & WGBS 710, all on RS. The IAs seem to be quite
strong lately, w/the Colombians getting in around midnight
PLT. KORL has also been a regular, but so far no DUs. KRKO has
a new CE, Lynne Sloan, who's been at the job there about two
months. On 10/5, I caught them doing a POP test w/various
tones, and while they were down, I relogged WLCY in FL. Yes,
cx have been good. Now if I could just hear Wisconsin.....

STEVE MITTMAN-2248 W. 37th ST.-SAN PEDRO, CA. 90732
++++
The biggest nx to hit SoCal in a long time is that XETRA-FM
91.1 has, at long last, boosted its power from 3kw to 100kw!
Furthermore, it has gone from simulcasting 100% w/its AM
(btfl mx) to rx/progressive rock, and is billing itself as
"91 X". Both EE stns (AK/FM) are now easily audible through-
out most of SoCal, but plans are nevertheless underway to
move the XRs from Rosarita, BCN, to Tijuana (which is just
across the border from San Diego), and to increase the FM
antenna height. Since the stns are outside the FCC's juris-
diction, 17 San Diego stns have formed an alliance to pre-
vent advertisers from contracting w/the Mexican stns, claim-
ing that it is an unfair invasion via the airways. This in
turn has prompted an antitrust suit in which each of the 17
stns is being sued for at least \$3 million! It'll be inter-
esting to see how this all turns out. In other nx, I just

received a v/1 from KFLL 900, a 250watt daytimer in Floydada, TX, which reads in part, "We were very surprised to know that we could reach that far." It's letters like that that makes morning DX all worthwhile! 73 de SMM. (Steve, do I read right, XETRA-AM will also move their XR to TJ, or just the FM?-RTH).

MATTHEW F SHUGART-12561 GROVEVIEW ST-GARDEN GROVE, CA 92640
+++++
Greetings. returned from Minnesota 3 weeks ago (more or less). had a little DX time while there. Listened to Angels near capture of royals over KFEEQ 680 w/a clear signal. One night tho I noticed severe QRM and after staying with it I found I had.. guess who, RTH...I know you'd never guess so I'll tell you. It was none other than the infamous "weighty 6-80"! (I'm telling you, they're EVERYWHERE!-RTH). Oddly, one night in Duluth KOMA was clear w/practically no QRM, next night all I heard was WKBW. Boston was hrd to my surprise on 1510 o/u WJAC. Seven states were hrd in broad daylight in Mpls are which impressed me. Saw WDGYS giant array in Bloomington---TWELVE towers!! Actually it is more like 3, 4-tower arrays // to each other. w/their 25kw on that array, they are almost dead at nite in Prior Lake, only about 20mi/32km SW, but like a local in Duluth, 160mi/256km N. Also strong in Duluth in daytime so day DA must be quite similar except it puts more signal to the S (also 50kw). Next time in the Twin Ports, I hope to arrange a TEST at WDSM. Speaking of tests, hope everyone has a chance to catch KNBR SPS whenever they may be. Out of room, so 73 de MFS.

JIM KORN-77A MIGUEL STREET-SAN FRANCISCO, CA 94131
+++++
(First of a 2-part series....) Greetings. I'd like to tell you of a visit I made not long ago to what has to be one of the most unusual AM broadcast transmitter sites in this country: KROQ 1500. Although constructed in 1964, this site violates the prevailing theory, adopted many years before, that an AM transmitter site should be located in a flat place w/high ground conductivity (usually from a high water table in the area) where conductive radials can be embedded in the earth to form a ground plane extending equally in all directions from each tower, usually almost equal to the height of the tower(s). Instead of selecting the usual marshland or river-bank site, these guys simply shaved off the top of one of the highest ridges on Verdugo Mtn just E of Burbank, at a spot over 2600 ft above sea level, o/2000 ft above downtown Los Angeles, and at least 1500 ft higher than the San Fernando valley floor which is the station's primary target area. They left just enough flat area for the 6 tower (4 day, 4 night, 2 towers common to both patterns) array. Since some of the towers are virtually on the edge of the cliff thus created, the ground plane obviously does not extend equally in all directions. The self-supporting towers themselves are unusual; instead of the usual latticework construction, these things are tubular aluminium about 18 or 24 inches in diameter at the base and tapering toward the top. They look more like the support posts for some football stadium's lighting system. The towers had to be transported by helicopter to the site, which is accessible by a lone lane dirt fire road which snakes up the mountain about 2 miles from civilized Glendale. On the day of my visit, I took along a shovel and had to use it several times to smooth out washed-out places in the road for my VW bug to pass. Upon reaching the top I could see downtown Los Angeles, the entire San Fernando valley, Catalina Island and most of Pasadena. (To be continued next week...).

GENE MARTIN-3303 E. EVANS AVE-DENVER, CO 80210
+++++
It has been a very poor DX season here up to Oct 13 w/no TAs noted except Gonakry 1403. Most might have had a distinct auroral flavor into the late hours. When you find KFMB in control of 760 at 0800 w/little evidence of WJR there, you are under auroral conditions of unusual intensity. Normally, KFMB is overwhelmed and out of sight u/WJR. Only a few more weeks before the big frequency shifts for TAs and TPs, and I'm getting disturbed about the lack of advance info on where so many TPs will be found after the change. How come no word on Japan & Australia changes. Surely the official decisions have all been made by this time. Nov 23 begins at 4AM PST on Nov 22, when midnight arrives in N.Z.--by 6AM PST in E. Australia. So I can tell even now what I'll be doing DXwise at 1205GMT Nov22. I'll be on 765 cussing out KOB and trying for 1YA. And for

what it's worth, let me repeat that on the morning of Nov 22, 1928, I logged JOAK, Tokyo from Dallas, my first TP--and one week later, JOFK Hiroshima. Late November is a good DXing time for the JOs, although October is usually better. 73.

DAVID F JACKSON-4281 ENCINITAS WY-ALVARADO, CA. 94587
+++++
Request from the par West Outpost. Perhaps some of the San Francisco Boys can assist or point my schnozzle in the right direction for a source on this one. I am trying to learn the histories of various Bay Area stations and would like to especially know of any extinct stations, stations that used "amateur"-type call-signs once upon a time (e.g., KPFC down in pakersfield was once W6XA1), the original call letters of stations now on the air, and the early formats of certain stations that began operating in the '40s, '50s and '60s, plus anything else interesting that you can provide. Get in touch soon--and thanks. Good DX to all/73/Jackson. (I'll try to get some early radio logs from '30s SF newspapers in the mail to you soon. Can anyone else help?-RTH).

BILL HARDY-2301 PACIFIC AVE-ABERDEEN, WA 98520
+++++
Just got the 10/21 DXM and would like to clarify a point RTH made after Dave Roger's forum. Yes, a stn may return to a 3-letter call at a later date, but not if the call is still in use on a stn w/different owners! Hence, if WRR-FM ever changes calls, KAAM 1310 could change back to WRR, but not until then. For those of you who don't read WDXR (or at least don't read the closing comments by Nancy), you should know that she and I are expecting a visit from the stork next May. Don't know if this will eliminate AN DXing, or if it will provide opportunities for headphone DX during the 2AM feedings, hi. However, cx usually stink in June, soooo..... Glad to see us reinstating the 20-line limit. However, rather than hold over the 2nd half of lengthy forums, why not do what we should probably be doing anyway - cutting out the non-DX-related stuff if the forum runs overlength? This way, good DX tips wouldn't have to wait an extra issue or two. I don't mind an occasional short blurb on job changes, etc., but long travelogues that have little or nothing to do w/DX sure aren't why I joined IRCA! My 20 lines are about up, so 73 and keep those BOJ-and-Almanac comments coming.

KIRK SCHNEIDER-781 CEDARWOOD DR-LA HABRA, CA. 90631
+++++
Hi everyone. I have just re-joined the IRCA after about a yrs absence. I'm 18 yrs old and attend Fullerton college. My main equipment right now is a TRP and DX-150-B w/various longwires, etc. KDOR-830 (pirate) has been in operation for 6 months now. I have visited KDOR several times and made recordings of it. KDOR operates Mon-Fri from about 4.30PM PST to around 1 or 2 o'clock in the morning. On weekends they come on about noon. The format is basically rock w/oldies and some Arabic programming. The XR is home brew, crystal controlled and has about 50-60 watts output. The antenna is a longwire that is vertical up about 30 ft w/the remainder horizontal spread around the yard. The stn is located near Western & Melrose in Hollywood. The owner has had 2 visits from the FCC but doesn't stop operating. He has appeared on local newscasts on ch.11 TV and welcomes all DX reports. The address is POB 29099, Los Angeles, 90027 and the phone # is (213) 469-9933. Only other new news is that KGBS-FM 97.1 is now using KHTZ call w/same C&W format. That's about it and 73 till next time, all tapesorders welcome. (Welcome back to IRCA, Kirk. Please keep those forums coming-RTH).

RICK HEALD-1581 20th AVE-SAN FRANCISCO, CA. 94122
Tele-forum: (415) Montrose 5-4201 to 2200 PLF prepaid
+++++
I agree w/bill Hardy, so will make this a DX-Travelogue, hi! Hooked up w/an agent's trip (read almost free), spent 3 nites in Puerto Rico. Stayed about 20mi/32km W of San Juan (SJU) and 4km W of Dorado. Nearest local was actually 5km to the W in Vega Baja on 1350 who I stumbled across with (get this) their 10.30PM s/off! Most SJU stns have their XRS (from what I could see) W of SJU in the suburbs of Cataño & Payamón. Best of all, after midnight (local time), 7 SJU stns were OFF! Those on, a couple were very directional away from Dorado back into SJU and could hear stuff u/them. Actual DX will be sent to bp, possibly for next issue. 1 stn in EE, WOSO 1030, playing elevator mx, and the educational stn on 940, both EE & SS.

only rocker on 1190, mostly disco, IDing as "radio rock", hi. But, Donna Sommers is so popular, that all the others had her mx mixed in w/all the salsa and tropical mx. virgin is in well of course, my favourite was Br. V.I. on 780, good soul and disco. Also, R. Paradise 1265 was in all day, and all but 4 PR stns were audible mid-afternoon. Wondered why venezuela was like local at nite til I looked at a map, about the same distance as S.F.-Lozangeles, no wonder R. Margarita was so good, but could still hear KDKA in bkgnd. Most E & Midwest clears were there at nite, went to sleep w/WABC 1st nite, and ZNS 1540 next 2 nites. Best was WCCO (for distance) quite clear tho weak. NOT noted, cuba 640!!! Mucho SJU 630 slop and EE hrd on 640 u/the slop. Reception all on my TRF. back at home, have scanned the dials, nothing spectacular. until next week (Thurs deadlines now), 73 de Rth..



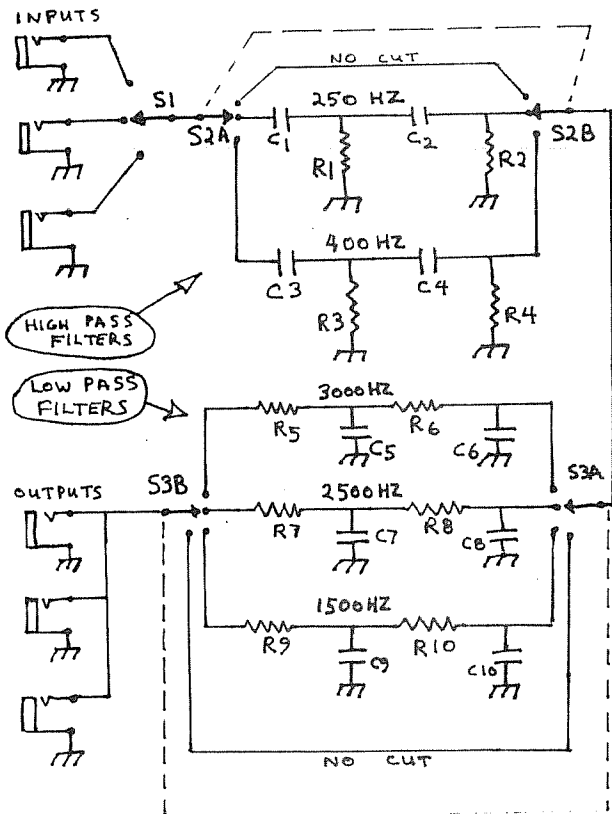
the irca technical column

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

This month the column will cover audio filters for the BCB DX'er. First, a couple of simple definitions for those not familiar with filters. A low-pass filter is one which passes all frequencies below a certain frequency (the cut-off frequency), and rejects all those frequencies above the cut-off--useful for eliminating high-pitched heterodynes, static, and sideband splash. A high-pass filter is one which passes all frequencies above the cut-off frequency and none below, which cleans up low-pitched heterodynes, and can make bassy audio from a selective receiver sound cleaner.

The first contribution this month comes from Brian P. Sherwood, who announces himself as "Dr. of Transmogrification & Inventor of Other Useful Stuff"--had cards printed up yet Brian? In a more serious vein he writes:

"Here is a neat little audio filter/switcher that gives you up to 6 inputs, unlimited outputs, and the QRN/HNL-eliminating, QRM-lessening abilities of the FRG-7's audio filters. The circuit is as follows:



- | | |
|-------------------------------|--------------------------|
| $C_1, C_2 - 50\mu F$ | $R_1, R_2 - 33\Omega$ |
| $C_3, C_4, C_5 - 1\mu F$ | $R_3, R_4 - 400\Omega$ |
| $C_6, C_9, C_{10} - 3.3\mu F$ | $R_5, R_6 - 56\Omega$ |
| $C_7, C_8 - 3.3\mu F$ | $R_7, R_8 - 22\Omega$ |
| | $R_9, R_{10} - 75\Omega$ |

(Brian has tried to design this circuit with parts available at Radio Shack. S1 can use a 1-pole, 12-position rotary switch (#275-1385), S2 & S3 can be a 2 pole, 6-position rotary switch (#275-1386), the input & output jacks should be 1/8" 2-conductor open circuit phone jacks (#274-251). All except the 3.3 uF capacitors are available there also. A metal box large enough to contain all components is also needed and he used a #270-265 slope-front cabinet.)

"Please note that although I only used 3 inputs, you can have up to 12, even more if you can get the right switch. And although I used only 3 outputs, you can have as many as you want, up to the point where you've split the signal so many times that no appreciable amount of current will get to each output. Two tape-recorders, two pairs of headphones, and two speakers ought to be sufficient, unless you want a third to tune WWV and get rid of your mother-in-law, hi.

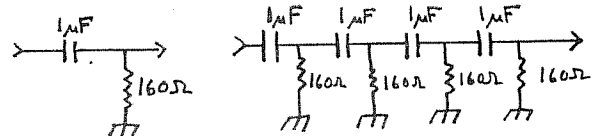
Although I used the same cutoff frequencies as in the FRG-7, you can create your own filters, up to as many as the switch will handle (make sure they'll all fit in the cabinet you're using). The formula is as follows:

$$CR = \frac{1}{2\pi F} \quad \left(\begin{array}{l} \text{LOW} \\ \text{PASS} \end{array} \right) \left(\begin{array}{l} \text{HIGH} \\ \text{PASS} \end{array} \right)$$

where C is in Farads, R is in ohms, F (the cut-off frequency) is in Hertz, and 2π is 6.28. An example, with a cut-off frequency of 1000 Hz follows.

$$CR = \frac{1}{2\pi \times 1000 \text{ Hz}} = \frac{1}{6280} = .0001592$$

Since 1 uF equals .000001 Farad, you could effectively use a 1 uF capacitor and a 160 ohm resistor, giving you a cut-off frequency of 995 Hz. You cannot always get exact cut-offs because of the "standard parts value" problem; if you cannot have a 160 ohm resistor, settle for 160. I've noticed it's best to accept standard capacitors; it's a lot easier to juggle resistors than to fool around with multiple capacitors. You can also cascade filters; if one filter gives a 6-dB per octave attenuation, 2 filters ought to work better. Just use the same parts value, but more of them:



Well, that's it. Any questions, inquiries or comments can be addressed to: Brian P. Sherwood, 221 Larch Ave., Elmhurst, IL 60126."

Brian adds that these filters are intended to be used between the speaker output of a receiver and the speaker, or between headphone output and headphones. Like all passive audio filters, these exhibit loss even at the frequencies you want to hear. This loss can be minimized by using a very high R/C ratio in the high pass filters (i.e. use large resistors and small capacitors in the circuit) and a very high C/R ratio in the low pass filter--small resistors and large capacitors. He is willing to construct such filters for anyone who is interested--write to him at the above address.

One way to avoid the loss inherent in passive audio filters is to use active audio filters, which include active devices (usually cheap operational amplifiers--741's and multiples thereof), and cheap, easily available values of R and C. The op-amps make up for the loss in the filtering circuits; the only disadvantage is the necessity for a power supply (9 to 30 volts DC) to make them work. There are two commercially available active audio filters that I have tried--the Autek QF-2 and the MFJ SBF-2BX. Initially, the Autek filter appears more impressive--it can give you a variable cut-off low-pass filter, with a variable steepness to the cut-off curve, and you can switch to an audio "notch" or "peak" facility which can reject or highlight a continuously variable range of frequencies from "narrow" to "broad".

The QF-1 model can be plugged into the headphone jack of the receiver and provides output for speaker or low impedance headphones. It has its own power supply and power audio amplifier. The cheaper QF-2 is just the basic filter guts of the QF-1, should be placed between receiver audio stages and needs 6-30 volts DC from somewhere. The MFJ filter on the other hand is simply made up of one high pass filter (375 Hz cut-off) and three low-pass filters of 1500, 2000, and 2500 Hz cut-off. The high-pass can be used on its own or combined with any of the three low pass units. For best results it should be used between audio stages of the receiver, the best place being after the first low level audio stage. It can be used between the headphone jack and headphones as well, but with inferior audio quality at high volumes.

These filters were designed for the SWL and radio amateur. How well do they work for a BCB DX'er? To a certain degree, it depends on your receiver, and whether you are a SW DX'er or ham as well. In spite of the Autek's versatility, you may find that it isn't much help if you already have a receiver

with good IF selectivity--the Hammarlunds, Collins, modified FRG-7 etc. Such receivers already reject a lot of heterodynes and noise which the low pass filter can eliminate. My QF-2's low pass setting doesn't really clean up that much on my HRO with mechanical filters, but it makes quite a difference on the less selective DX-150A. The notch setting on the QF-2 can really knock down a het on any receiver while leaving your desired audio--it's also fine for eliminating an undesired test tone if you're looking for something underneath. The variable width "peak" setting is not that great for peaking a voice, however, but if you're a ham, it will do wonders on a CW signal at its "sharp" setting, also good for peaking code ID's on testers.

What is really lacking on the Autek is a high pass filter to eliminate low hets and clarify the muddy audio of high selectivity receivers. The notch set at "broad" and tuned to low frequency approximates, but is not as good as, the MFJ filter's high pass for this purpose. Again, the MFJ low pass settings are not tremendously useful for a high selectivity receiver, but they'll make your cheapo receiver sound great.

The QF-1 was priced at \$52.95 and the QF-2 at \$32.95 two years ago (more now?) and are available from Autek Research, Box 5127, Sherman Oaks, CA 91403. More info is available from them also. The SBF-2BX sells for \$29.95 and is available from MFJ Enterprises, P.O. Box 494, Mississippi State, MS 39762. Thanks to Karl Jeter for sending me details of the MFJ filter.

It would appear that neither of these commercially available filters completely fills the bill for the BCB DX'er. Gordon Cottrell of Roseburg, OR has sent me a circuit for a variable frequency low-pass/high-pass filter and circuits for a couple of audio notch filters which would appear to be ideal for the BCB DX'er. Look forward to these next time and keep transmuting. 73--NHP

(Continued from Page 85)

| | | | | | | | |
|--------|------|------|-----|-----|-----|------|--------|
| RI | 3 | 9 | 0 | 0 | 1 | 2 | ===15 |
| SC | 11 | 38 | 7 | 4 | 12 | 33 | ===105 |
| SD | 3 | 8 | 3 | 4 | 2 | 15 | ===35 |
| TN | 15 | 50 | 17 | 19 | 27 | 28 | ===156 |
| TX | 50 | 44 | 34 | 16 | 40 | 105 | ===289 |
| UT | 20 | 12 | 0 | 0 | 1 | 2 | ===35 |
| VT | 0 | 8 | 3 | 0 | 5 | 3 | ===19 |
| VA | 24 | 54 | 15 | 9 | 11 | 23 | ===136 |
| WA | 37 | 43 | 3 | 3 | 5 | 2 | ===93 |
| WV | 8 | 20 | 4 | 6 | 8 | 16 | ===62 |
| WI | 10 | 26 | 22 | 13 | 16 | 17 | ===104 |
| WY | 14 | 4 | 1 | 4 | 0 | 7 | ===30 |
| AB | 12 | 17 | 2 | 2 | 0 | 1 | ===34 |
| BC | 17 | 30 | 4 | 2 | 1 | 6 | ===60 |
| MB | 5 | 8 | 2 | 0 | 0 | 3 | ===18 |
| NB | 4 | 10 | 2 | 0 | 0 | 1 | ===17 |
| NF | 2 | 4 | 2 | 0 | 0 | 20 | ===28 |
| NWT | 0 | 0 | 0 | 0 | 0 | 4 | ===4 |
| NS | 3 | 7 | 4 | 1 | 1 | 2 | ===18 |
| ON | 38 | 36 | 8 | 3 | 3 | 8 | ===96 |
| PEI | 0 | 1 | 2 | 0 | 0 | 0 | ===3 |
| QU | 21 | 24 | 4 | 1 | 5 | 25 | ===80 |
| SK | 5 | 11 | 0 | 0 | 1 | 2 | ===19 |
| YU | 0 | 0 | 1 | 0 | 0 | 1 | ===2 |
| USA | 896 | 1535 | 436 | 263 | 403 | 934 | 4467 |
| CANADA | 107 | 148 | 31 | 9 | 11 | 73 | 379 |
| TOTAL | 1003 | 1683 | 467 | 272 | 414 | 1007 | 4846 |
| % | 20.7 | 34.7 | 9.6 | 5.6 | 8.6 | 20.8 | 100.0 |

54 stations have been reported in Volume #16 that have not appeared since before #12. Credits as follows:

Bill Townshend (9) WATS, WELS, WIGO, WBEW, WING
 WBLA, WEXM, WEND, WPLW... Bryan Lee (7) OHLC, WOTW,
 WGOB, WMTR, WXL, WGKA, WIBG... Dan Gradin (6) KGRI,
 KSKI, KWRV, KSPT, KCHE, KOJO, Bill Harms (4) KUBO,
 KSLV, KRAL, KVRH... Karl Jeter (4) WEGO, WRED, WSYL,
 WGC... Joseph Landry (3) KPAL, WMYR, KBUN... Roger
 Morby (3) WFAU, WIRY, CFLV... Dave Rukakoski (3)
 WNAK, WLMS, WHOL... Mark Bixby (2) KTRC, KRSN...
 Pete Nolan (2) KWSD, KAYT... John Allechin (1) WOKB...
 James Critchett (1) KFLI... Bob Curtis (1) CFMB...
 Jef Jalsun (1) WBUY... Scott Mentzer (1) WHHL...
 Steven Miller (1) WNNH... Linda Morby (1) WOKW...
 Ian Myers (1) WLSV... Brian Sherwood (1) WQOM...
 Gerry Thomas & Paul Mount (1) WNLV... Robert Wien
 (1) KTDO.....

(Continued on Page 96)

THE DALLAS COWBOYS NFL NETWORK
 (courtesy of the Mutual Broadcasting System)

| | | | |
|------|-----------|------|----------------|
| 550 | WCBI-MS | 1350 | KRHD-OK |
| | KGRS-TX | 1360 | KFFA-AR |
| 590 | KLEJ-TX | | KOYY-KS*+ |
| 600 | KERB-TX* | | KRRR-NM* |
| 620 | KTAR-AZ | | KACT-TX* |
| 630 | KVMA-AR* | 1380 | KSWO-OK |
| 710 | KGNC-TX | | WTNN-TN |
| | KURV-TX | | KTSM-TX |
| 730 | KLOE-KS* | 1400 | KELD-AR |
| 740 | KCMC-TX | | KACK-LA |
| 850 | KGOE-CA% | | KCHS-NM |
| | KRPT-OK* | | KTNN-NM+ |
| 860 | KPST-TX* | | KNOR-OK |
| | KSPA-TX*+ | | KILE-TX |
| | KONO-TX | | KGVL-TX |
| 900 | WDDT-MS*+ | | KIUN-TX |
| | KALT-TX* | | KEYE-TX |
| 910 | KAMD-AR+ | | KVOP-TX |
| | KGLC-OK | 1410 | KJCH-TX |
| 920 | WEOX-LA* | | KXTP-TX* |
| 930 | KIUF-CO | | KBAL-TX* |
| 940 | KTON-TX* | | KNAL-TX |
| 950 | KNFT-NM* | 1420 | KXOW-AR* |
| | KDSX-TX+ | | KPEL-LA |
| 970 | KSYL-LA | | KSYX-NM* |
| 980 | KICA-NM | | KFYX-TX* |
| | KMIN-NM* | 1430 | WLAU-MS* |
| | KVRN-TX* | | WWEE-TN*+ |
| 990 | KVFP-NM+ | | KSTB-TX* |
| 1010 | KIND-KS*+ | 1440 | KDNT-TX |
| 1050 | KBUF-KS* | 1450 | KNOT-AZ |
| 1060 | KHYM-TX* | | KGIW-CO& |
| 1070 | KOPY-TX | | WROB-MS |
| 1080 | KRLD-TX | | KRZY-NM |
| 1090 | KACO-TX* | | KOBE-NM |
| 1110 | KEOP-OK* | | KENM-NM |
| 1130 | WGUP-MS*+ | | KWHW-OK |
| 1150 | KXLR-AR | | KCYL-TX+ |
| | KNED-OK | 1460 | KBSF-LA* |
| | | | WMBA-PA* |
| 1230 | KSUN-AZ | | WJAK-TN* |
| | KCON-AR | | KLIL-TX*+ |
| | KLIC-LA | 1470 | KLIB-KS*+ |
| | KPSA-NM | | KTDL-LA* |
| | KSIX-TX | | KVLH-OK* |
| | KNUZ-TX | | KCNY-TX* |
| | KERV-TX | 1480 | KWEW-NM |
| | KSEY-TX* | 1490 | KIBL-TX |
| | KWTX-TX | | KWMC-TX |
| 1240 | KEWA-AZ | | KPLT-TX+ |
| | KLOA-CA | | KDOK-TX |
| | KASO-LA@ | | KVWC-TX |
| | WMIS-MS | 1500 | KWRC-LA* |
| | KBEL-OK | 1510 | KCTX-TX* |
| | KOKL-OK | | KYKR-TX* |
| | KVLP-TX | 1530 | KGTN-TX*+* |
| | KOCA-TX | 1550 | KOKA-LA |
| | KXOX-TX | | KMAD-OK* |
| 1260 | KVSF-NM | | KHBJ-TX* |
| | KTUE-TX* | 1560 | WSDL-LA* |
| 1270 | KWPR-OK* | | KWGO-OK |
| | KIOX-TX | 1570 | WABL-LA* |
| 1280 | WGSO-LA@ | 1580 | WAMY-MS* |
| | KRAN-TX* | | KGAF-TX*+ |
| | KWMS-UT | | KWED-TX* |
| 1300 | WRBC-MS | 1590 | KGAS-TX*† |
| | KXXO-OK | 1600 | KBBB-TX* |
| 1320 | KWHN-AR | | (plus 55 FM's) |
| | WKPG-MS* | | |
| | KVMC-TX* | | |
| 1330 | KHYT-AZ* | | |
| | KGAK-NM | | |
| | KSWA-TX* | | |
| 1340 | KIKO-AZ | | |
| | KFBR-AZ† | | |
| | KPGE-AZ | | |
| | KVOE-LA | | |
| | KHLB-TX# | | |
| | KRBA-TX | | |
| | KPDN-TX | | |

Specified-hours station

% Daytimer with CP to go fulltime

@ WGSO-1280 & KASO-1240 are also on the New Orleans Saints regional network (WGSO is the flagship)

† KSEY-1230, KGTN-1530, & KGAS-1590 are also on the Houston Oilers regional network

‡ KFBR-1340 is also on the Los Angeles Rams network & KGIW-1450 is also on the Denver Broncos network

DX Worldwide



BRUCE PORTZER,
Editor

All times GMT/UTC
Deadline Thursdays:

6516 19th Avenue Northeast - Seattle, WA 98115 - 206-522-2521

ATLANTIC DX ROUNDUP

- 1034 PORTUGAL, Porto Alto, 9/25 0550 loud het, poor voice, SS mx (not PP mx? bp), fades; 0600 man talking (nx?), lang not quite like SS, almost sounded like GG (gutteral sounds). At 0605 faded but was into mx. Before 0615 poor-fair w/inst mx, drums beating. At 0615 woman talking "Aqui..." ID?, then more of same mx & at 0617 a chorus of women, at 0619 woman spoke, 0625 fair w/YL talking w/man "uno" & "maji" (or "magio") used 3-4 times, women laughing at times, possible ad? Reception was better than any so far this season and it was maddening not to be able to get a more positive ID, not knowing PP. (Poda, OH)
- 1205 SIERRA LEONE, Cayman carrier here displayed sound of other stn QRM on same freq 0612-0620 10/15, weak audio few times underneath, but nothing readable. Looping 80-85°, experience suggests Africa. (Martin)
- 1403 GUINEA, Conakry, was putting a pretty good het on the 1400 imbroglio, but no audio detected 0551-0601 10/15. (Martin, CO)
- 1466 MONACO, Monte Carlo, TWR, 9/19 0500, loud het, poor audio, woman in EE, also chorus singing & man talking. Some of these were probably 1460 or 1470 stns. However, there were other hets on the high end & WWV had A-index of only 2 on 9/19. Hrd at work on Guardian 7700 inside steel frame bldg. (Poda, IL)
+Fair-nil in tight local WOKO-1460 null. IDs 2255 & 2235 in EE, including address 10/16. (Morby, NY)

PAN AMERICAN DX ROUNDUP

- 575 t COSTA RICA, San José, R. Nacional 10/9 0255 fair, SS, "Merbe América", "musica", spoken by man. Some mx & man talking again 0257, "programa de...", then into piano mx 0258. Also 10/13 0420 poor, piano & violin mx 0422 man in SS, 0425 same kind of mx, 0428 man talking. (Poda, IL)
- 630 CUBA, Santa Clara, CMHQ, was indeed my unid reported here recently. The same chimes were noted on 3MJM-780 0730 10/22. (Portzer, WA)
- 640 t GUATEMALA, Guatemala, TGV, I'm 99% sure was the one w/marimba mx in & out in KFI null 0409-0530 10/22 but no ID or location hrd & few anmts of any sort. (Portzer)
- 655 t EL SALVADOR, San Salvador, YSS, 10/12 0425-0430 poor & fades, light & slow LA mx. Hrd at work. (Poda)
- 660 MEXICO, México, XERP, s/off 0800 10/15 still playing US Golden Oldies rightly to that hour, "musica con buen gusto" often hrd, translating loosely into "mx w/ good taste" I suppose. I find great variation in signal strength from this stn, sometimes potent but often weak. (Martin, CO)
- 660 ? UNID, probably Haiti in well w/FF rlgx mx & hymns 1005-1030, then man w/brief FF talk & back into mx 10/22. (Portzer, WA)
- 675 COSTA RICA, San José, TIGN, "R. Sonora" 0917 10/15, always here, must operate AM. ID is often the single word, Sonora, over the mx. (Martin, CO)
+In well w/KNBR/XB01 slop mull'd 0815-0832 10/22 w/LA mx & a couple of passable Sonora IDs. (Portzer, WA)
- 686 ? UNID, OC here from SE 0244-0310 10/15, weaker than 675 IAs but gone by 0435 recheck. (Martin, CO)
- 700 ? UNID, 10/9 0628 current pop song "boogie" in EE in WLW null. Fast SAH. Faded quickly. Looped SE. (Poda, OH) (Jamaica? bp)
- 710 ? MEXICO, 10/3 1300 w/opera mx, clear IDs as XEBF & XEB (neither was supposed to be here). Suspect XEVB. (Pejza)
- 750 JAMAICA, Point Galina, JPC atop the usual pests (KPOD, JOTB, WSB) w/inst version of "Raindrops Keep Falling", ID by YL "You are tuned to JBC Radio One", then into drama of sorts w/British YLs 1035 10/22. (Portzer, WA)
- 750 t VENEZUELA, Caracas, YVKE, likely the one w/American rock mx & SS ancr looping pretty far east 0736 10/22. No ID hrd but format fits. (Portzer, WA)
- 753.5t COSTA RICA, San José, TIRA, presumed, quite weak 0234-0240 10/15. Settled on 755 last season but seems to have resumed drifting. (Martin, CO)
- 760 COLOMBIA, Barranquilla, HUAJ, LV de Barranquilla, w/WJR mull'd. 0709-0733 10/15, s'teady sig reaching fine volume on peaks, but other IAs there too. Suceso/RCN ID on half hour, LV ID about 0725. Surely my best sig

- nal from Colombia & would love to hear this on a clear channel just once. (Martin, CO)
- +Creaming KFMB w/excited male ancr & mention of "La R. de Colombia" 0514 10/22. (Portzer, WA)
- 800 NETHERLANDS ANTILLES, Bonaire, PJB, ID 0430 10/22 w/man in EE giving anmts of TWR. A religious group in Grand Rapids, MI, paying for one hr on air. (Wilson, CA)
- 826.7 ? UNID, carrier here 0403 10/25. Hrd audio once 10/18 0501 w/LA mx but no anmts as yet. In almost every evening. (Bytheway, WA)
- 830 MEXICO, Culiacan, Sin., XEVQ, s/on 1252 10/11, ID as Rancho Alegre. (Pejza, CA)
- 834 BELIZE, R. Belize, 10/9 0200 very poor, man talking, Looped S. (Poda, OH)
- 840.2 ? UNID, het here 10/25 0333, thought I hrd OM annc mixing w/Colombian about this time. Hrd most evenings as het & only a little audio. MHP hrd El Salvador here last year, so maybe them. (Bytheway, WA)
- 870 PUERTO RICO, Hato Rey, WHOA, fair-good w/WVL mull'd 0326 10/17 w/EE IDs & talk before fading. (Morby, NY)
- 875 COSTA RICA, Liberia, TIGPH, strong carrier & audio 10/18 0426 w/OM babbling in SS. 0430 weird electronic sounds & fadeout. In & out for next 45 minutes 0528, OM talk & into spot w/ment of San Jose, then into SS mx w/"Monumental" mention by OM over record a few seconds into song. (Bytheway, WA)
- 900 MEXICO, México, XEW, 10/9 0158 fair, man in SS, loops SW. (Poda, OH)
- 940 MEXICO, México, DF, XEQ, 10/9 0158 good, man in SS & song. Also 10/9 0555 good, man in SS, talk 0601, ID "Ahkees-ay-koo", "Radio-television", etc. Paint IA under them. (Poda, IL)
- 945 ? UNID, 10/9 0550 poor-fair w/SS mx, then YL talk, ID? as "R. Paramason?", hrd again 0555 & then "...presente" & piano notes 2 or 3 times followed by more IA mx. Faded before 0600. (Poda, OH) (Sounds like HRYW, Tegucigalpa, R. Panamericana, which operates on 944. bp)
- 975 t COSTA RICA, San José, TIAZ, 0426 10/25 strong carrier hitting TVI. 0433 YL vocal song fadeup followed by OM ancr & fadeout. Fadeup 0443 w/LA romantica mx. Noted carrier abruptly go off 0501. (Bytheway, WA)
- 1020 VENEZUELA, La Asunción, YVRS, R. Margarita, 10/2 0530 Fair-good w/US pop mx. 0535 R. Margarita ID & then singing ad by men. Looped SE. (Poda, OH)
- 1025 ? UNID, 10/9 0610 fair but mostly poor. IA mx. (Poda)
- 1030 MEXICO, México, DF, XEQ, R. Centro, 10/2 0540 fair-good "R. Centro" ID by man several times, then song by man. (Poda, OH)
- 1030 ? UNID, 9/28 0030 very poor LA mx in WBZ/XEQ null. Also 10/2 0545 very-poor-poor in XEQ null, man singing slow song in SS. Poor-fair for several seconds. "Ee-vay-kay" & "grande" hrd, may have been call/slogan but at 0547 WBZ came on w/test. (Poda, OH) (Probably one of the Colombians. bp)
- 1040 COLOMBIA, Bogotá, HJGJ, "R. Super" only IA which managed to get its ID through the local image/LA combination here 10/15 0929 w/WHO off. Am always amazed at amount of traffic here. (Martin, CO)
- 1070 ? UNID, 10/2 about 0600, SS fair looping SE, low het also hrd, also looped SE. (Poda, OH) (Colombia? bp)
- 1140 t MEXICO, Monterrey, NL, XEMR, 10/2 0500 poor, light mx looping S or SW in WRVA null. Also 10/2 0630 SS good w/rock mx. (Poda, OH)
- 1165 t ANTIGUA, St. John's, CRI, 10/9 0112 fair, fades to poor, rlgx singing. 0116 man talks EE, "P.O. Box 1605...". (Poda, OH)
+2300 10/17 w/SID in heavily accented EE. Good but sad WWVA slop. (Morby, NY)
- 1180 ? CUBA, 10/2 about 0530, fair, man talks, mx?, time tones. (Poda, OH) (Sounds like Cuba's Reloj Nacional format. bp)
- 1190 ? UNID, 10/2 about 0530 poor-fair LA mx, looped S. (Poda)
- 1202.5 CUBA, assumed to be the location of the stn w/male & female talk 0338 10/22, into nondescript IA & American inst mx 0341, possible talk 0354. Still on 0655 & other times w/background mx and/or SS dialog. Good on peaks but subject to deep fades. No references to Cuba hrd, but programming was so dull and uninteresting I figure the only thing it could be was a Cuban, hi. (Portzer, WA)
- 1203 t HAITI, Port au Prince, 4VDS, FF ancr male 0451-0523 10/15. Mx portions lots of drums, misc beating, vocal wailing, African flavor. Must be the same that Connelly found on 1206 recent DXWW. Separated pretty easily from W0AI at times so must have been stronger than it seemed. Het w/1205 OC presumed R. Cayman. Other hets between 1200 & 1210. (Martin, CO) (Well, I'm still wondering if we hrd the same thing. My 1202.5 I thought sounded like FF when I first tuned in but sounded more like SS when I replayed the tape. SS was noted later. Our formats are different & I recall hearing a slight het above Cayman-1205 10/22 which I took to be Haiti. Who else is hearing weird stuff between 1200 & 1205? bp)

1205 CAYMAN ISLANDS, Georgetown, R. Cayman assumed to be the one w/inst mx & man w/Caribbean accent & deep resonant voice 0336 10/22. (Portzer, WA)
 1265 ST. KITTS, Basseterre, R. Paradise, 9/28 0030 poor but fair for a minute w/rigs singing. Also 10/9 fair in EE, list of people & addresses, from letters to str? then into song. (Poda, OH) (Possibly a list of song dedications. bp)

PACIFIC DX ROUNDUP

647 t RSPSR, Iman, 10/22 1213, just a het. (Korinek, WA)
 655 N. KOREA, Pyongyang, 1220 10/22 fair w/YL in KK. (Korinek)
 +Good w/chorus 0948 10/22. (Portzer, WA)
 665 t RSPSR, Komsomolsk, 10/22 1207 weak carrier looping TP. (Korinek, WA)
 750 ALASKA, Anchorage, KFQD, very good w/rock oldie 0743 10/22 on a "Golden Oldie" weekend. (Portzer, WA)
 +10/23 0838 fair o/JOIB, man w/wx, then cw song. (Korinek)
 750 JAPAN, Sapporo, JOIB, talk in JJ good 0903 10/22. (Portzer, WA)
 +10/22 1200-1223, NHK pips 1200, then man in JJ. Had xln't signal by 1223. (Korinek, WA)
 +JJ talk 1259:30 10/22. Hrd the beautiful musical notes for 15 secs before KXL went on the air. (Wilson)
 770 JAPAN, Akita, JOUB, first time hrd this season, 1/750 w/JJ talk 0934 10/22. (Portzer, WA)
 782 RSPSR, Spassk Dalniy, fair w/woman in RR 0928 10/22. Het against WBBM/Cuba, plus what sounded like a very weak het w/someone on 783 (possibly someone jumping the gun on the 11/23 freq plan). (Portzer, WA)
 +10/22 1225 strong carrier & het, no audio. (Korinek)
 835 t CHINA, Nanchang, weak carrier only 10/22 1228. (Korinek)
 873.lt NORTH KOREA, Wonsan(?), 1142-1229 10/22 strong het & carrier, no audio hrd. (Korinek, WA)
 t +Good carrier & what sounded like bits of choral mx 1150 10/22. (Portzer, WA)
 t +Strong carrier & bits of audio 10/23 1335. Soon faded as I rush off to get ready for work. (Bytheway, WA)
 881.9? UNID, 1247 10/22 looped TP, carrier & het only. (Korinek, WA) (Could be someone making their move to 882 a little early. See Hardesters comments re China last issue. bp)
 890 ? UNID, vocal very weak, but violin solo very audible & other mx at same tempo 1335-1400 10/22. (Wilson, CA) (Australia? bp)
 1525 t RSPSR, Khabarovsk, carrier & bits of audio 10/23 1328, didn't sound CC, so assume it was the Russian. Fadeout before bottom of hour (naturally) so didn't hear chimes. (Bytheway, WA)

REPORT FROM BERMUDA - Charles A. Taylor

Hello again from sunny Bermuda! We moved & are now on the SW side of Harrington Sound (see a map of Bermuda). As usual, the rx is an SPR-h. I'm trying out a Palomar Engineers MW loop. I'm using our phone line (via a 680 pf cap) as an antenna. I estimate the effective length as around 500'. Reception is sometimes nearly phenomenal, despite being at the mercy of noise & IVI, using the latter antenna. With it WKAQ-580 & WKVM-810(PR), CMW-590 (Cuba), WGTG-540(FL), Guadeloupe-640, CMKP-670(Cuba), ZBVI-7 80 (Br Virgin Is), HILR-860 (Dom Rep), ZIZ-555 & 1265 (St. Kitts), besides the eastern seaboard of the US, is more or less clearly audible all day. The past few days I've been hearing extremely long-haul, enhanced groundwave from CBF-690 (PQ) (sic), WLN-700(OH), YVOE-720(Venezuela), WJR-760 (MI), CFBC-930 (NB), all listenable at 1300 local time. I'm not sure that this is groundwave in all cases. WLN-700 is observed to fade at the normal LSR time to inaudibility & then to regain strength gradually until clear audibility at 1200 (local time)! Possibly this is due to reflection (actually refraction) from temperature-differentiated atmospheric layers a short distance above the sea. That's 1300+ miles from here to Cincinnati. I'm working on a daytime MW spectrum for presentation later in DXW, as well as a descriptory of the local MW BC stns (ZWEI-960, ZBML-1230, ZBML-1340, for DXW II. 73 til next time de Charlie. (Looks like you've come across a very interesting daytime DX phenomenon not unlike the tropospheric bending encountered by TV/FM DXers. Keep the reports coming. bp)

CONTRIBUTORS

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(Gene Martin, 3303 East Evans Ave., Denver, CO 80210
 HQ-180A, box loop
 Father Jack Pejza, 212 S. Carpenter Rd., Modesto, CA 95351
 SPR-h, Sanerino loop
 Louis Poda, 395 Kling St., Akron, OH 44311
 Realistic TRF, Guardian 7700, Kenwood R-300 w/60' LW
 Bruce Portzer, the editor
 HQ-180A, 4' box loop, SM-2, SB-620 bandscanner
 Charles A. Taylor, NASA Box 7015, FPO New York, NY 09560
 Ted Wilson, 1001 S. Tamarack Dr., #1, Fullerton, CA 92632
 Modified FRG-7, Loop antenna

That does it for another week. I finally broke down after years of resistance and bought (gasp!) a Realistic TRF. I must say it is a cute little devil. It's not exactly in the same league as the HQ-180, but when I set it next to my box loop and tune the loop to the TRF's frequency, it comes close to the 180 in signal quality. Time to call it a column. 73. bp



Father Jack Pejza
 212 S. Carpenter Rd.
 Modesto, CA 95351

Once again it's time to regale you with all kinds of goodies about furrin stations...

LATIN AMERICA

Bolivia.
 600 CP.. R. Aclo, Departamento de Chuquisaca is new, heard at times relaying CP51 R. Loyola-1300.
 840 CP8 R. Nueva America ex 1470.
 1490 CP61 R. Juan XXIII ex 1450, on 1030-1830, 2030-0230; Sun. 1130-1800. Power is 10 kw. (Arctic 9/22)

Brazil
 570 R. Vale do Cariri, Juazeiro do Norte, CE, new, 5/.25.
 570 R. Imperatriz, Imperatriz, MA, new, 1/.25 kw.
 570 R. Uirapuru de Itapipoca, CE, new 1/.25 kw.
 630 ZYJ884 R. Estadual do Parana ex 550.
 720 ZYH422 R. Macapa, AP, new, 10 kw. Same station listed on 630 elsewhere?
 980 ZYH707 R. Nacional de Brasilia now 10 kw.
 1250 R. Em. L & C, Caçapava, SP, new. 5/.25 or only .85?
 1450 R. Educativa do Amazonas, Benjamin Constant, AM, new 1 kw.
 1450 R. Felix de Santo Antonio de Padua, RJ, new 1/.25 kw.
 1490 R. Alvorada de Rondonia, Jaci-Parana, RO, new 1/.25 kw.
 1490 R. Girua, RS, new 1/.25 kw.
 1490 R. Bela Vista, MT, new 1/.25 kw.
 1490 Rede Regional de Radiodifusão, Gloria de Dourados, MT, new 1/.25 kw.
 1530 R. Ubedin de Fátima do Sol, MT, new 1/.25 kw. (Arctic 9/22)

Colombia.
 1130 HJCO Em. Eldorado now uses 20 kw.
 1510 HJAY R. Canoas ex HJBV according to the station. But these calls also used by Onda Nueva on 1490. (Arctic 9/22)

Costa Rica.
 575 TIRN R. Nacional de Costa Rica, San José started daily transmissions 9/15. Power 50 kw; 1200-0700.
 725 TILX R. Columbia, San José now 50 kw. (Arctic 10/8)

Dominican Republic.
 670 HILD R. 670 began in early Sept. Located in San Pedro de Macoris.
 950 HIBA R. Popular, Santo Domingo now here, ex 920. HIG, R. Fiesta is inactive.
 1100 HI.. R. Jimari does not have calls of HIRJ, as previously reported here.
 1360 HISS R. Television Dominicana, La Vega has 0.25 kw, not 1 kw.
 1470 HIVP R. Cumbre, Villa Tapia ex 1190.
 1530 HIJN R. Action 24 hours a day; 1 kw. (Richard Clark via Arctic 9/22)
 650 HIAT R. Universal, Santo Domingo now 20 kw.
 860 HILR R. Clarin, Santo Domingo 50/10 kw.
 1410 HI.. R. Río San Juan, Río San Juan, new 1 kw.
 1440 HIAK Mi Radio, Santo Domingo now 5 kw.
 1470 HIUA R. Clarin, Barahona, Construction permit. (Arctic 10/8)

EL Salvador.
 765 YSKLD R. Universal, Usulután, ex 780 khz.
 1080 YSEM R. 1080, San Salvador, now 5 kw.
 1160 YSMN R. Libertad, San Salvador, ex 1390. 5kw. (Arctic 10/8)

Guatemala.
 830 TGAV R. Guatemala, ex R. Satellite. (Arctic 10/8)
 TGNA plans to move its FM, AM, and TV transmitters from Petapa to Anochoché Hill, near Guatemala City. The move is expected to "increase station effectiveness 50%". (NASWA 9/78)

Nicaragua

1060 YNMB R. Futura, Managua, is new. 10 kw.
1410 YNMS R. Ondas Populares, Leon is new. 3 kw.
1560 YNCW R. Minerva, Managua, ex Ondas del Xolotlan.
1590 YNAW R. Colinas, Apartado 5208, Managua. Director: Augustin Fuentes. (Arctic 9/22)
555 YNS R. Tic Tac, Chinandega now 8 kw.
840 YFRN R. Noticias, Managua now 10 kw.
930 YNW R. Mundial, Managua ex 920 khz.
1295 YNOO R. Plaza, Matalappa now 10 kw.
1390 YNRP R. Mar, Puerta Cabezas, now 2.5 kw. (Arctic 10/8)

Panama.

790 HO.. R. Libertad, Provincia Herrera.
870 HOL81 R. Guaymi, David, ex 890. power is 10 kw.
1090 HOL82 R. Urraca, Santiago de Veraguas ex 910 khz.
1060 HOHPM21 R. Titania, Panamá ex Musical 76.
1200 HO.. Onda Tropical, Chitré still here. Heard last season on 1197 khz. A move to 1130 is in future plans. New address is Apartado 1181, Chitré.
610 HOMH Circuito RPC, Panamá now 25 kw. (Arctic 9/22, 10/8)

Peru.

950 OAX8E R. Loreto ex 1150 OAX8D.
1395 OAX7R R. Sicuani ex 1365. Schedule 1055-0500. (Arctic 9/22)

Trinidad and Tobago.

610 National Broadcasting Service, Port-of-Spain has new 50 kw transmitter. (Arctic 10/8)

Uruguay.

1510 CW151 R. Ibirapitá ex R. San Gregorio. (Arctic 10/8)

Venezuela.

540 YVOK R. Perijá ex YVOV. 1100-0500 with 60 kw.
870 YVMP R. Lara ex 880.
980 YVTB R. Exitos ex Exitos Novecientos Ochenta now uses 100 kw.
1300 YV.. R. Nacional de Venezuela Oriente, Puerta La Cruz, new, 10 kw.
1500 YV2B R. Nacional de Venezuela ex R. Politécnico. (Arctic 9/22)

TRANS-PACIFIC.

Australia. The new stations for the blind and visually handicapped are to be introduced in 1979 in Melbourne, Sydney, and Adelaide on about 1750 khz. (NASWA)

6NR, run by the Western Australia Institute of Technology on 930, 500 watts, the only station serving immigrant minority communities, may lose its license. Used only during the academic year, the frequency is silent three months a year; the Australian Broadcasting Tribunal wants better use of the freq. (SCDX 9/5/78)

China. Inner Mongolian Regional domestic service from Huhehot uses 675 2240-0200, 0405-0705 and 1000-1620. Local programs mostly. (Arctic 9/22)

Korea, North. Radio Pyongyang uses the following frequencies for External Service: 615, 635, 655, 735, 800, and 850. (Arctic 10/8)

Papua New Guinea. According to the latest schedule of the NBC, the new station at Enga will operate on 1494 khz with 2 kw. (SCDX 8/29)

Tahiti. R. Tahiti-740 now runs to 0900 on local Saturday nights (Sunday mornings in North America); s/off is 0730 other nights. (NASWA)

Vietnam. Ho Chi Minh City (Saigon) domestic service now also rebroadcasts Voice of Vietnam external service programs on 870 khz. (SCDX 9/19)

TRANS-ATLANTIC.

Algeria. The Voice of the Free Sahara (clandestine) is heard over R. Oran and not from Bechar, on 575 with AA 2100-2130 and SS 2130-2200. (SCDX 9/12)

Bulgaria.

701 Sliven is a new transmitter with 5 kw.
962 According to EBU this is Sofia; some DXers, however, indicate that it can be the old #178-Blagoevgrad coming to 862 via 1610. (Arctic 9/22)
1016 The new Bulgarian noted here by EBU will certainly interfere with the nearby Istanbul transmitter on the same frequency. (SWNS)

Czechoslovakia.

899 New station here is Moravské Budějovice 30 kw with a relay of Brno-Regional. S/off weekdays at 1600. This station used earlier for 272 khz. (Arctic 10/8)

Germany, East.

1511 RFI states its evening program at 1830 in EE. (Arctic 10/8)

Germany, West.

720 WDR, Langenberg will be on the air regularly from 6/1/79. (Arctic 10/8)

Gibraltar. Gibraltar Broadcasting Corp. will occasionally use 1089 khz plus 1456 khz after 11/23/78. (Arctic 10/8)

Great Britain. BBC has apparently dropped its plans for 227 khz for Radio 4 after Nov. 23. Current BBC info lists only 200 khz for Radio 4. A BBC leaflet lists two stations not listed in the Geneva plan: a new Radio 4 station in Newcastle (Tyne-side) on 603 khz, and an additional Radio 3 in Cambridge on 1197 (Radio 3 uses mostly 1215 khz. A BBC team has been touring the Indian Ocean islands looking for a suitable site for a new relay station. One place visited was the Seychelles. (SCDX 9/19)

Orfordness indicated on 1295 by EBU with 500 kw. Radio 2 will go 24 hours after Nov. 23. (Arctic 9/22, 10/8)

Greece, Thessaloniki, YENED, heard on 1179. (Arctic 10/8)

International Waters.

Mi Amigo-- R. Mi Amigo will not go off the air, as reported. Full power of 50 kw still used for Dutch broadcasts, Caroline-- As of 9/1, R. Caroline has reduced broadcasting hours. Closes down 0100-0530 Mon and Fri. But has been noted going off at 0100 every day since the announcement. Reduced power used for R. Caroline broadcasts in EE.

Aegir -- Station called Weekend Music Radio will use two 3 kw transmitters. Tests using 500 watts on 1562 have begun.

Regular service was supposed to have started in September. On 9/11, the anchor chain broke and the ship drifted to the coast where it was seized by the Dutch Coast Guard, ending the brief career of Radio Del Mare. (SCDX 8/22, 9/12, 9/19)
Mebo II-- thought to be anchored in Libyan waters, Mebo II has been reported on 1611 about 0000 in Arabic. (Arctic 9/22)

Iran.

576 Abadan reported using 600 kw by EBU.

820 Iranshahr monitored here with power of 10 kw by EBU.

1098 Zabol with 100 kw now here; causes much interference within Iran. (Arctic 9/22, 10/8)

Italy.

1000 Radio Spazio Campano (ex R. Gamma), Santagata di Benevento.

1460 R. Bruno

1494 and 1594 Radio Elle, C.P. 12, Abbiatograsso (ex 1554).

1237 Radio Elle Estense, 44100 Ferrara is a new local station. (Arctic 9/22, 10/8)

Jordan. Continental Electronics will install a 2 megawatt transmitter near Ajlun, to become operational in May or June. (Presumed BCB because of high power.) (NASWA)

Lebanon. A new station called the Voice of United Lebanon with 100 kw MW to cover North Africa and SW directed toward the U.S., S. America, and Australia. Station is to be located in Ehdn in northern Lebanon. Although the station is supported by the Zghorta of the former Christian president Soleiman Frangie, the station's director says it will be only "nationalist." (SCDX 9/5)

Libya. A new MW channel has been heard on 1224 with fair signals in W. Germany around 2200. (SCDX 8/22)

Malta. Since 8/2 a station has been heard on 5960 in AA, calling itself the Radio of the Socialist People's Libyan Arab Jamahiriyah from the Mediterranean Station. The "Mediterranean Station" is thought to indicate that it comes from Cyclops, Malta, since a similar announcement was noted in 1976 when Libyan radio was first noted operating from the Maltese relay station on 1570 khz. (SCDX 8/22)

Mongolia. A new station has been built in Ulan Bator and should have become operational 9/78. It is one of the four stations going on the air this year. The stations are being built with Soviet help and will have Russian transmitters. (Frequency unknown, BCB or SW). (NASWA 9/78)

Morocco. Sebba Aloun has boosted power on 1043 from 25 to 300 kw. (EBU via SWNS)

Pirate. The very popular Danish pirate, Radio Viking, was raided by Danish postal authorities and closed down on 9/10. (SCDX 9/19)

Spain.

836 La Voz de Levante is now La Voz de Valencia (Arctic 9/22)

United Arab Emirates. A new high powered BCB and SW station will be inaugurated in 1979. (NASWA 9/78)

U.S.S.R.

227 Tyumen is here with a new transmitter // 890.

899 A new station located in Central Asia has been heard with R. Moscow program in Chinese between 1739-2230. (Arctic 9/22, 10/8)

Publications. The long-awaited World DX Guide has finally been published by WRTH organization. Compiled by Radio Nederland's Jim Vastenhou, the 192 page book has some of the best articles published in Listen to the World plus new articles. Cost \$8.75 U.S. from World Radio TV Handbook, P.O. Box 88, DK-2650 Hvidovre, Denmark.

The EDXC list of radio countries 1978-79 is offered for 4 IRCs from European DX Council, P.O. Box 250325, D-4630, Bochum 25, W. Germany. (SCDX)

Clubs. The Rosario DX club of Argentina is interested in getting members from other countries. If there is enough interest from non-Spanish speaking DXers, the club may include English articles in the bimonthly magazine. Write: Rosario DX Club, Italia 662, 2° Piso, Departamento "B", 2000 Rosario, Argentina.

The Skywave Bulletin, published weekly, carries listings of US MW stations and their programs, DX Loggings, technical tips, and feature articles on stations, programs, and clubs. Sample copies and additional information for 2 IRCs from: The Skywave Bulletin, 1410 West Sligh Ave., Tampa, FL 33604. (SCDX) (a new MW Club? Ed)

That's it for now. I don't know when this will appear. Two previous DXWW-II columns have been sent to San Francisco; since they both were fairly lengthy, I presume DKK is holding them until he has a big issue. CU in a while. FJP. (Typed 10/17/78)

(Continued from Page 92)

From time to time, as space permits, I'll list the stations from each state that have not been reported since prior to volume #12... For a start:

ALABAMA (29) WJDB, WHRT, WWWW, WEIS, WWWW, WLWN, WBIB, WJBB, WHOD, WNUZ, WULA, WBCF, WMLS, WBSA, WHEP, WKUL, WKOR, WFEB, WEIR, WRAB, WGYV, WPPA, WZZA, WPHK, WRMG, WYAM, WBLO, WANA, WHBB

ALASKA (12) KVOK, KYUK, KHAR, KBRW, KOTZ, KCAM, KFRB, KRKA, KTKA, KJNP, KIFW, KLAM

ARIZONA (7) KEVT, KAPR, KSUN, KPPR, KBWA, KSWW, KFBR

ARKANSAS (24) KVMA, KBBA, KOSY, KAGH, KCAB, KMCW, KCON, KBTM, KTLO, KWAK, KFAY, KCOB, KCAT, KLYR, KDQN, KWYN, KTGS, KHBM, KJWH, KCOL, KXAR, KDRS, KAOJ, KDDA,

CALIFORNIA (7) KLOG, KLOA, KHSJ, KSFE, KYOR, KGUD, KRKO

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THE INTERNATIONAL RADIO CLUB OF AMERICA

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

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DX MONITOR: The official bulletin of IRCA, published 34 times a year; weekly from November to March, 3 times in April and October, and monthly from May to August.

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Opinions appearing in DX FORUMS are those of the contributors and do not necessarily reflect those of IRCA, the publishing staff, or the DX FORUM editors.

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Radio-Wellen

NDR/WDR I MW: 520, 701, 827, 971, 1502, 1586 kHz. UKW (NDR): 88.55 (5), 89.9 (10), 90.05 (10), 90.3 (11), 90.5 (12), 90.8 (13), 91.1 (14), 91.2 (14), 91.3 (14), 91.5 (15), 92.4 (16), 92.8 (15), 93.1 (20), 96.05 (30) MHz. UKW (WDR): 87.7 (2), 87.8 (3), 88.0 (3), 88.1 (3), 88.2 (3), 88.3 (3), 88.4 (3), 88.5 (3), 88.6 (3), 88.7 (3), 88.8 (3), 88.9 (3), 89.0 (3), 89.1 (3), 89.2 (3), 89.3 (3), 89.4 (3), 89.5 (3), 89.6 (3), 89.7 (3), 89.8 (3), 89.9 (3), 90.0 (3), 90.1 (3), 90.2 (3), 90.3 (3), 90.4 (3), 90.5 (3), 90.6 (3), 90.7 (3), 90.8 (3), 90.9 (3), 91.0 (3), 91.1 (3), 91.2 (3), 91.3 (3), 91.4 (3), 91.5 (3), 91.6 (3), 91.7 (3), 91.8 (3), 91.9 (3), 92.0 (3), 92.1 (3), 92.2 (3), 92.3 (3), 92.4 (3), 92.5 (3), 92.6 (3), 92.7 (3), 92.8 (3), 92.9 (3), 93.0 (3), 93.1 (3), 93.2 (3), 93.3 (3), 93.4 (3), 93.5 (3), 93.6 (3), 93.7 (3), 93.8 (3), 93.9 (3), 94.0 (3), 94.1 (3), 94.2 (3), 94.3 (3), 94.4 (3), 94.5 (3), 94.6 (3), 94.7 (3), 94.8 (3), 94.9 (3), 95.0 (3), 95.1 (3), 95.2 (3), 95.3 (3), 95.4 (3), 95.5 (3), 95.6 (3), 95.7 (3), 95.8 (3), 95.9 (3), 96.0 (3), 96.1 (3), 96.2 (3), 96.3 (3), 96.4 (3), 96.5 (3), 96.6 (3), 96.7 (3), 96.8 (3), 96.9 (3), 97.0 (3), 97.1 (3), 97.2 (3), 97.3 (3), 97.4 (3), 97.5 (3), 97.6 (3), 97.7 (3), 97.8 (3), 97.9 (3), 98.0 (3), 98.1 (3), 98.2 (3), 98.3 (3), 98.4 (3), 98.5 (3), 98.6 (3), 98.7 (3), 98.8 (3), 98.9 (3), 99.0 (3), 99.1 (3), 99.2 (3), 99.3 (3), 99.4 (3), 99.5 (3), 99.6 (3), 99.7 (3), 99.8 (3), 99.9 (3), 100.0 (3) MHz.

NDR II MW: 87.6 (2), 89.2 (7), 90.9 (13), 91.65 (15), 91.9 (16), 92.1 (17), 92.2 (21), 94.1 (24), 95.9 (30), 96.2 (31), 96.3 (31), 96.4 (31), 97.8 (36), 98.15 (37), 98.3 (38), 98.7 (39), 99.8 (43) MHz.

NDR III MW: 88.0 (3), 89.6 (9), 89.6 (9), 90.2 (11), 93.3 (21), 94.4 (25), 96.5 (25), 94.7 (36), 95.8 (29), 97.8 (36), 96.0 (37), 98.4 (38), 98.7 (39), 98.8 (39), 99.2 (41), 99.4 (41), 99.3 (43) MHz.

Bremen I MW: 936 kHz. KW: 6190 kHz. UKW: 89.3 (8), 93.8 (23) MHz.

Bremen II MW: 88.3 (4), 92.1 (17) MHz.

Deutschlandfunk MW: 548, 755, 1268, 1538 kHz. UKW: 89.1 MHz (Bonn) LW: 151 kHz.

WDR II MW: 89.6 (9), 90.7 (12), 92.3 (18), 92.6 (19), 93.2 (21), 93.3 (21), 93.5 (22), 93.9 (23), 94.1 (24), 94.2 (24), 95.7 (28), 95.2 (41) MHz.

WDR III MW: 88.2 (4), 89.7 (9), 91.9 (16), 92.8 (18), 96.1 (27), 95.8 (29), 95.8 (30), 97.0 (33), 97.3 (34), 98.1 (37), 98.2 (37) MHz.

Frankfurt I MW: 593 kHz. UKW: 88.1 (4), 90.6 (15), 91.0 (15), 91.6 (14), 94.4 (25), 92.0 (40) MHz.

Frankfurt II MW: 95.0 (27), 95.3 (28), 95.5 (28), 95.7 (28), 97.4 (35), 99.6 (42) MHz.

Frankfurt III MW: 87.6 (2), 89.2 (8), 89.5 (8), 89.7 (9), 90.4 (11), 91.9 (16), 92.85 (19), 93.7 (22), 97.2 (34), 97.3 (36) MHz.

SWF I MW: 665, 827, 1016 kHz. KW: 7265 kHz. UKW: 87.9 (3), 88.3 (4), 88.9 (6), 89.0 (7), 89.175 (7), 89.5 (8), 89.8 (9), 89.85 (9), 90.8 (13), 90.9 (13), 91.1 (14), 91.2 (14), 91.4 (15), 92.4 (19), 93.5 (22), 94.5 (25), 95.9 (30), 96.05 (30), 97.7 (39), 99.1 (40), 99.2 (41) MHz.

SWF II MW: 87.2 (2), 90.4 (11), 91.8 (16), 92.0 (17), 92.6 (19), 92.8 (19), 93.0 (20), 93.6 (23), 93.9 (23), 94.0 (23), 94.8 (26), 95.1 (27), 95.4 (28), 96.2 (31), 96.4 (31), 97.4 (35), 97.9 (36), 98.9 (40) MHz.

SWF III MW: 89.9 (10), 90.0 (10), 91.6 (15), 93.1 (20), 94.3 (24), 94.8 (24), 97.1 (34), 97.5 (35), 98.4 (38), 96.7 (39) MHz.

Saar I MW: 1421 kHz. UKW: 88.0 (3), 91.9 (16), 92.3 (18) MHz.

Saar II MW: 88.6 (5), 89.1 (7), 91.3 (14), 95.5 (28), 96.1 (30), 96.0 (37) MHz.

Stuttgart I MW: 575, 908, 1169, 1412, 1484 kHz. KW: 6030 kHz. UKW: 87.8 (3), 88.0 (3), 92.9 (20), 93.0 (20), 94.5 (25), 94.7 (26), 95.1 (27), 95.9 (33), 97.8 (36), 98.8 (39) MHz.

Stuttgart II MW: 88.5 (6), 88.8 (6), 89.2 (7), 89.5 (8), 90.1 (10), 91.1 (14), 91.8 (15), 93.2 (21), 93.8 (23) MHz.

Stuttgart III MW: Württemberg: 92.2 (17), 94.6 (25), 95.8 (28), 96.3 (32), 97.4 (35), 98.1 (37), 99.5 (42) MHz. Baden: 91.9 (16), 97.0 (33), 99.9 (43) MHz.

München I MW: 520, 800, 1602 kHz. KW: 6085 kHz. UKW: 87.8 (3), 88.1 (4), 88.9 (6), 90.2 (11), 90.7 (12), 90.9 (13), 91.0 (13), 91.3 (14), 91.9 (16), 92.1 (17), 92.8 (19), 93.5 (22), 93.7 (22), 94.8 (26), 95.0 (27), 95.6 (29), 96.8 (33), 98.0 (37), 98.1 (38), 99.2 (41) MHz.

München II MW: 87.6 (2), 87.7 (2), 87.9 (3), 88.0 (3), 88.2 (4), 88.3 (4), 88.4 (5), 88.7 (6), 89.0 (7), 89.2 (7), 89.5 (8), 89.6 (8), 89.9 (10), 90.5 (12), 91.2 (14), 91.5 (15), 91.6 (15), 92.0 (17), 92.3 (18), 93.0 (20), 93.1 (20), 93.8 (21), 94.2 (24), 95.0 (30), 95.2 (32), 97.0 (33), 97.8 (36), 98.5 (42) MHz.

München III MW: 93.4 (21), 94.6 (23), 94.4 (25), 94.7 (26), 95.8 (28), 95.9 (30), 96.3 (31), 97.3 (34), 97.6 (35), 97.9 (36), 96.5 (38), 99.4 (41), 99.5 (42), 99.6 (42), 99.8 (43) MHz.

SFB I MW: 566 kHz. UKW: 88.75 (6) MHz. KW: 6190 kHz.

SFB II MW: 1484 kHz. UKW: 92.4 (18), 96.3 (31) MHz.

RIAS I MW: 683, 737, 889 kHz. KW: 6005 kHz. UKW: 89.6 (9) MHz.

RIAS II MW: 683, 854 kHz. UKW: 91.2 (14), 94.3 (24) MHz.

Radio DDR I MW: 575, 881, 1043, 1570 kHz. UKW: 87.85 (3), 89.95 (7), 89.2 (7), 95.8 (29) MHz.

Radio DDR II MW: 92.55 (18), 92.75 (19), 93.85 (23), 94.6 (23), 92.7 (42) MHz.

Stimme d. DDR MW: 611, 692, 782, 1358 kHz. UKW: 94.2 (24), 95.25 (27), 97.15 (34), 97.4 (35), 97.55 (35) MHz. LW: 165 kHz.

Berliner Rundf. MW: 728 kHz. UKW: 90.2 (11), 91.4 (15), 91.55 (15), 91.7 (16), 95.05 (27), 98.55 (38) MHz.

FFB MW: 83.6 (22) MHz.

AFN MW: 611, 672, 935, 1106, 1142 kHz. UKW: 87.85 (3), 90.7 (39), 100.4 (45), 102.4 (51) MHz.

DRBS MW: 90.2 (11), 93.0 (20), 96.5 (32), 97.6 (36) MHz.

BBC deutsch MW: 90.2 (11) MHz and MW: 809 kHz.

Luxemburg MW: 1439 kHz. KW: 6090 kHz. UKW: 88.9 (6), 97.3 (31) MHz.

Niederlande MW: 746, 1007 kHz.

Osterreich I MW: 584, 1025 kHz. KW: 6000 kHz.

Osterreich II MW: 1475 kHz.

Osterreich III MW: 88.8 (6), 89.2 (7), 89.4 (8), 90.6 (9), 90.0 (40) MHz.

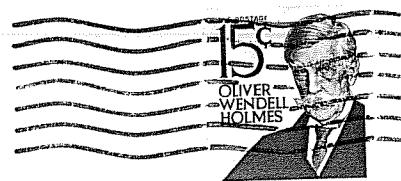
Osterreich KW: 6155 kHz.

Beromünster I MW: 529, 1562 kHz. UKW: 90.6 (12), 90.9 (13), 92.0 (43) MHz.

Beromünster II MW: 95.4 (28), 96.6 (32), 99.0 (40) MHz.

Deutsche Welle: Deutsches Programm KW: 6075, 9545 kHz.

KQXI
10,000 Watts
DENVER-ARVADA
1550 Radio



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