

DX NEWS

Serving DXers since 1933

Volume 62, No. 19 - February 13, 1995 (ISSN 0737-1659)



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CPC Test Calendar

KGYN	1210	Feb. 13, 1995	0200-0230
WREN	1250	Feb. 14, 1995	0100-0200
KWRE	730	Feb. 18, 1995	0100-0130
KUJ	1420	Feb. 26, 1995	0400-0600
KTCR	1340	Feb. 26, 1995	0400-0600
KERR	750	Feb. 20, 1995	0200-0230
KFPF	1580	Mar. 4, 1995	0200-0300
WPPL	1330	Mar. 4, 1995	0500-0600
WKBR	1250	Mar. 6, 1995	0100-0130
KZIM	960	Mar. 6, 1995	0200-0230
KWOC	930	Mar. 13, 1995	0200-0230
KSIM	1400	Mar. 20, 1995	0100-0130

KUJ-1420 - Walla Walla, WA, will conduct a DX test between 4:00 and 6:00 am EST Sunday, February 26. The test will include test tones, "special" music, and Morse code ID's. This test will air simultaneously over KTCR-1340 Kennewick, WA. Reception reports may be sent to Mr. Kevin Culbertson (WA7ZNB), Program Director, c/o KTCR-AM Radio - 830 Columbia Center Boulevard North, Suite B-2 - Kennewick WA 99336. Arranged by J. D. Stephens and Bill Hardy for the IRCA CPC.

KTCR-1340 - 830 Columbia Center Boulevard North, Suite B-2 - Kennewick, WA 99336 will conduct a DX test between 4:00 and 6:00 am EST Sunday, February 26. The test will include test tones, "special" music, and Morse code ID's. This test will air simultaneously over KUJ-1420, Walla Walla, WA. Reception reports may be sent to Mr. Kevin Culbertson (WA7ZNB), Program Director Arranged by J. D. Stephens and Bill Hardy for the IRCA CPC.

From the publisher ... Musings of the Members is lost in the mails somewhere (maybe in that infamous, black hole trailer in Washington, DC?).

Publication ... I received my copy of *The Zenith Trans-Oceanic, The Royalty of Radios* (Schiffert Publishing - 77 Lower Valley Rd. - Ageton, PA 19310, or order @ \$24.95 plus \$2.00 shipping from The Radio Professors - P. O. Box 95 - Stillwater, OK 74076) by John H. Bryant, AlA and Harold N. Cones, Ph.D. a few days ago. The 160-page, 8.5x11 "perfect-bound" books is complete with color and b&w photos and all

the information you'd ever want to know about the Zenith T-O (except, wisely, current collector prices). Even restoration tips are covered. Through exhaustive research, the authors have cleared up some misconceptions about certain models of Zenith's most well-known receiver. This book should become the standard reference work on this radio.

Welcome to these new members ... Pascal-Marie Deckerle, Dijon, France; Richard S. Kunath, Neganuue, MI; Charles Bernth, Esport NY; Phil Greenspan, Marshfield, MA; Neil S. Adams, Hinkley, OH; Fr. Bill McChae, Mount City, IL; Jim Coronad, Newton, NJ; Donald B. Dominix, Coronado, CA; Richard M. Ray, Downers Grove, IL; James G. Herkimer WB2ANO (rejoins), Pennellville, NY. A significant number of our new members have found out about the NRC through postings on electronic bulletin boards and services; many thanks to all those who maintain those listings. Remember, the publisher will send out a sample DXN for a first-class stamp, and in the case of non-U.S. hobbyists, we'll waive the stamp for those who find it difficult to obtain stamps or IRC's. Just direct them to send me an E-mail request at plsb@DXER@AOL.com, including their complete address and where they saw the notice.

DX Time Machine

From the pages of DX News:
50 years ago ... from the Feb. 10, 1945 DXN: Bill Gabriel, Lakewood, OH reported that KONP-1450 began broadcasting on February 3, 1945, as the only U. S. station to use a fir tree as an antenna tower. The call stood for the Olympic National Park.

23 years ago ... from the Feb. 7, 1970 DXN: Response to the first of the NRC's broadcasts on MW DX'ing over Radio Nederland on 129 was "fantastic" ... member Vianey Carzano, Rego Park, NY re-attached himself and noted that he was using a 1937 American-Bosch receiver hooked up to a Heath Q-Multiplier, model GD-125.

10 years ago ... from the Feb. 4, 1985 DXN: NRC contest leaders included George Sherman, MN; William Moser, ND; Nancy Hardy, WA; Jim Bentrow, NY; Bill Hardy, WA; Don Kaskey, CA; Nolan Stephany, NY; Pete Nolan, TX; Harry Hayes, PA; Neil Wolfish, ON; and Mike Hogan, IL. In that order, with contest manager Bob Kramer leading the pack in points but centered as a non-contestant.

2 AM Switch

Status changes in AM stations, supplied by the FCC and listeners

Jerry Starr
c/o WHOT Radio
4040 Simon Road
Youngstown, OH 44512-1320

HEALTH TEST



Blow Your Breath On
This Black Dog

CALL LETTER CHANGES

Old call	New call
540 WYLO	WZSR*
670 WBVS	WZRN*
1240 WBBW	WTFN
1410 WRNB	WIOR
1490 WSBH	WMBM
1550 KOHK	KOWB*

*Notes: WYLO/WZSR-540 above was reported in Issue 16 but the state was listed as MI, this is just to keep our book keeping straight. WBVS-670 is a new station that is not on the air yet. Their recent change from WARD to WBVS was never used on the air. KOHK was a recent call change that was set aside, the station remains KOWB and never used KOHK.

GRANT FOR NEW STATION
1580 OR Lebanon: 1000/1000 U3

APPLICATIONS FROM EXISTING FACILITIES

810 WJJO WI Tonawack: reduce power to 980 watts.
850 WYDE AL Birmingham: reduce day power to 9200 watts
880 WPIP NC Winston-Salem: changes in antenna system (we include this otherwise meaningless application simply to indicate this new station that ran a few test transmissions early last year, then never reappeared, is evidently still a viable CP and may yet begin operations)
1160 WVNJ NJ Oakland: day power to 20000 watts
1520 WLDV IL Loves Park: add 125 watts nights; antenna a U1
1520 WKZQ SC Myrtle Beach: to 1450 kHz with 1000/1000 U1 (the former facilities of deleted WKEL)

GRANT TO EXISTING FACILITY
1430 KCOH TX Houston: night power to 330 watts; antenna to U4

OTHERNESS

540 KVIP CA Redding: CP for 2500/14 U1 is on
540 WWSN FL Pine Hills: station now relays WWSN-740 Orlando (clarifies an error reported in Issue # 16)
940 WCND KY Shelbyville: silent station is ON THE AIR
950 WGOV GA Valdosta: CP for 5000/63 U1 is on (station will dismantle their former separate directional night transmitter site)
1000 WCMX MA Leominster: silent station has been sold to the Twin City Baptist Temple and is expected to return
1090 WXXB AL Albertville: reported to be back on the air just two weeks ago, now is being reported to be SILENT again. Can somebody in that area let us know exactly what the situation is here?
1130 KLEY KS Wellington: CP for 250/1 U1 is on (has anybody heard this one at night yet?)
1400 WAJQ GA Alma: silent station will return in March
1450 WNAT MS Natchez: station is SILENT (will return in March)
1500 KJIM TX Sherman: station is SILENT

THANKS: Wayne Heinen, Ed Krejny, Dick Trax, Thomas Reiser, Les Johnson, Wes Boyd, Andy Phillips, Sandy Mauch and MSJ

73 and Good DX, *Danmy's BKE* Jerry Starr & Buffalo K. Foomanan

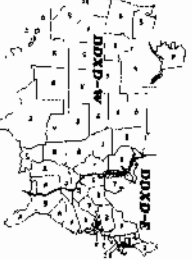
Domestic DX Digest

West: Bill Hale MTH12A@Prodigy.com
495 Creekside Drive - Meridian, ID 83642-3241

(Disten line is between East and Central time zones)

East: Dave Braun 73520.657@compuserve.com
11 Mill Bend Acres - Wyoming, DE 19934-9523

DX Catches in the U. S. and Canada, with 24-hr. FLT



DDXD-West

MEDIUM WAVE RAMBLINGS

◊ A big DDXD-West Welcome to new reporter Diane Maurer of Paluski, Wisconsin, who checks in with some recent DX Test results. Hope we hear more from you!
▲ In prior Ratings Reports, we've seen some depressing news when it comes to AM stations. But rejoice! This time we have good news off the Internet. Three markets in "The West" report AM stations as Numero Uno. They are: Sacramento, with KRKB-1530 topping the list with a 13.9 share, up 2.3 points from the summer book; Milwaukee, as WTMJ-620 leads the pack with an 8.8 share, up from 8.0; and Chicago, with venerable WGN-720 on top (no numbers reported). In Sacramento, KCTC-1320 finished 10th and even KNBR-680 showed up in their book. In Sudsville, other top ten finishers were WISN-1130 in 3rd place and WOXY-920 sliding up to 7th. Way to go, Amers!
◊ **John sez:** "We finally got our first snowfall of the winter on January 19. A big one, 7 inches. We were lucky as temperature never dropped below 30° F, then warmed up to 42°." Neal is certainly persistent, as he stood in a blinding snowstorm to catch a 1/23 test. Did I mention dedicated? Shawn reports temperatures have dropped to -31c, but that hasn't helped him garner any test activity on 1590. And Walt is giving credit the snow pack to his northwest for recent Canadian catches.

REPORTERS

NAP-AL Neal Perdue Madison IC-F-SW30, McChinlock Black Box loop antenna
JT-MO John Tudenham Joplin Superadio II barefoot
WB-MO Walt Breville Wright City Kanwood R-1000, 40-ft wire & '94 Ford Ranger AM/FM
BK-CA Bob Karheveski Sunnyvale NC-183D with 5M-1 ferrite loop. (karheve@hntv.com)
TR-IL Tom Reiser Chicago ICF-2003 with built-in antenna
GS-IN George Smith Decherd Superadio II with antenna
FA-ID Frank Aden Boise modified FRC-7, modified TRF, SRF-42 AM\$ Walkman + 45 longwire N-S, 180' L-longwire, 4' box loop
JJR-WI John J. Rieger South Milwaukee RF-2200, RF-2900 with Radio West Loop, R-1000, IC-R70 with Kowalski Loop, DX-380, GE Superadio and Drake SW8 awaiting KIVA Loop (More radios than catches, hi - Ed.)
DM-WI Diane Maurer Paluski Icom IC-R71A, Sangsan ATS-818CS, Alpha-Delta 60' Sloper
JW-OR Jack Woods Waldport Lowe HF-225E, homebrew box loop with Palomnar amplifier
SA-MB Shawn Axelrod Winnipeg ICOM R-70 w/filiter mods and PLAM board + 4' box loop/Quantum Loop/100' lw
EA-ID Editor Meridian Delco AM\$ /FM\$ ETR

SPECIAL

950 WEJM IL Chicago - 1/29 0100 - Good, with call letter change. Still 106 fans slogan and rap format. (TR-IL)
1410 KRML CA Carmel - 1/22 1700 - Public Radio as they were in a fund-raising drive. Phone number 310 (Long Beach area) 498-8888. Pretty sure call was KLOM. But that's not in Log Book. Reference to "FM-88". Mentioned partner KRML (Monterey, CA) which could be a possibility as they are close to the S.F. Bay Area (my location). They are listed as 500 watts days (or is CP on? - 2500 watts days). Why would Monterey rebroadcast a Long Beach Public Radio station? (BK-CA) [Tis KRML. See 1410 in SPECIAL in Issue 17. Regarding the power increase . . . ? - Ed.] || Bob



follows up with: "A brief telephone call to KRML-1410 reveals that their CP for 2500/2000 watts is not on. They also carry KLOM-FM Long Beach programming part of every day." - Ed.]

DX AND EQUIPMENT TESTS

- 850 KICY- AK Nome - 1/21 0530-0600 - Nothing heard (FA-ID) Not Heard. Only KOA and CKBA. (SA-MB) Not heard. Only KOA's talk show. (DM-WI)
- 910 WSUI- IA Iowa City - 1/9 0105 - Briefly on top, but most of the time it was under KVIS-OK. (WB-MO)
- WSUI- IA Iowa City - 1/9 0100-0130 - VFD, CID, warbling TT, comedy info-skits about electricity, etc. At times, faded in and out and was buried by co-channel pests. Fairly regular catch. (DM-WI)
- 1000 WYWI- VI Charlotte Amalie - 1/16 0200 - Poor signals, mixing with KTOK and KOMO, with clear CID at 0215 and possible TTs or code before that. Also more CIDs around 0222. New station and new country! (SA-MB)
- WYWI- VI Charlotte Amalie - 1/16 0200-0300 - Had high hopes for this one, but nothing heard. (FA-ID) Not heard. Just lots of XEOY with SS music and talk by woman in SS, frequent ads and ID at :00 as *La Estación de la Ciudad*. Frequent fades. (DM-WI)
- 1010 KSYG+ AR Little Rock - 1/23 0315-0330 - Wall-to-wall for entire 15 minutes, with Alabama snowstorm with radio encapsulated in Kroger plastic bag, nulling WINS. Called CE, who said he would be happy to verify. (NAP-AL)
- KSYG+ AR Little Rock - 1/23 0315-0330 - Clearly heard CID at 0317. Very weak, but readable. (FA-ID)
- KSYG+ AR Little Rock - 1/23 0315-0330 - Test heard with code and voice IDs and trilling flute tone. Good signal, over CFRB talk show discussing girls' sports, etc. (DM-WI)
- 1090 KNTS- CA Oakhurst - 1/9 0800-0900 - Not heard. (DM-WI)
- 1570 KUAU- HI Hahaione - 1/15 0501-0530 - Nothing heard. 1/16 0501-0530 - Also nothing heard. Had hoped this would have made it. (FA-ID) Not heard. CKEG dominating, over an UNID believed to be KCVR. HI conditions only fair at this time. (JW-OR) Not heard. Just WARM with very weak signal. (DM-WI) [I can't find "WARN" on 1570 or anywhere else. Did I miss a CL change? - Ed.]
- 1590 WXR+ GA Swainsboro - 1/23 0000-0030 - Test heard, with voice and code IDs as well as gospel music, if that's their format. At times they were over/under co-channel stations. A real challenging test. (DM-WI)
- WXR+ GA Swainsboro - 1/23 0000-0030 - Nothing heard. (FA-ID)
- WPWA- PA Chester - 1/16 0000-0030 - Nothing heard. (FA-ID) Not heard, only KVCB and WAKR. The drought continues on 1590 tests, with none of the 5 or 6 tried for heard. CPC, please check a new frequency, hllll (SA-MB)

MIDNIGHT TO 0800 HOURS ELT

- 960 WFR VA Roanoke - 1/8 0200 - Caught on top with AM 960 WFR and two other IDs. (WB-MO)
- CFAC AB Calgary - 1/24 0103 - With weather report, then This is 960 CFAC. Strong and all alone, then quickly faded out. Last heard 25 years ago, from the St. Louis area! (WB-MO)
- 1290 WHIO OH Dayton - 1/14 0345-0355 - With national news, *Country Music Report* by woman, Cts. mentions of Dayton. Only 2nd time heard. (NAP-AL)
- 1310 WDOC KY Prestonburg - 1/16 0600 - Sign-on announcements, legal ID. Not heard in years. (NAP-AL)
- 1480 WTHI IN Terre Haute - 1/15 2158 - Ad for *Indiana Motor Home Show*, legal ID at :00. First time in years. (NAP-AL)

0800 TO 1600 HOURS ELT

- 540 KNOE LA Monroe - 1/12 0815 - With NOS, ID, news. (JT-MO)
- CBK SK Regina - 1/23 1410 - End of CBC News, Regina weather report. Unneeded, but last heard back in the 1970s. XEW-A gone. (WB-MO)
- 1090 KBYC CO Aurora - 1/26 1306+ - Excellent midday signal, with lotsa K-Big mentions, previous night's pro hockey and basketball scores ("college counting up later"), sports talk, mention of 'OJ trial' going on, more. Another new one during the day! [Ed.-IDI]

1600 TO 2400 HOURS ELT

- 540 KWMT IA Fort Dodge - 1/8 1818 - In good with weather report. (WB-MO)
- 630 KSJR TX San Antonio - 1/12 1745 - With gospel and ID. (JT-MO)
- 690 KCGF KS Coffeyville - 1/19 1852 - Good, clear signal, with news, *Good Year* live ad and into Talknet with Bruce Williams. (GS-TN)
- 740 KRMG OK Tulsa - 1/14 2330 - With singing ID, health talk show about vitamin/mineral/herb supplements for whatever ails ya (nothing mentioned for chronic DX-dependency). (NAP-AL)
- CBL ON Toronto - 1/14 2331 - With *Saturday Night Blues* (great stuff!) program, mentions of CBC and Toronto. Very good, in KRMG null. No KTRH at this time. (NAP-AL)
- 790 WQXI GA Atlanta - 1/19 2005 - Poor, in WMC null, with news and ad for Equal. (GS-TN)
- 890 WOIS MS Laurel - 1/4 1800 - With For The People, ID and news. (JT-MO)
- WQIS MS Laurel - 1/20 1813 - Fair, with ID as *You are listening to WQIS, Laurel - Hattiesburg*, then ad for *Yellow Pages*. Then WLS took over. (GS-TN)
- 1120 WTWZ MS Clinton - 1/12 1800 - With REL, traffic report, ID. In KMOX null, which was weak at this time. (JT-MO)
- 1250 WGL IN Fort Wayne - 1/20 2330 - Fair, with ad for *Archway Cookies*, mentioning that they are baked in Fort Wayne. Weather: light snow and 31°. (TR-IL)
- 1260 WIDV IL Belleville - 1/17 2015 - With *Michigan vs Illinois* basketball. Ad for *Howard Motor Home* at half time. Very poor fading in and out. (GS-TN)
- 1280 WQUE LA New Orleans - 1/17 2058 - Fair, with talk show discussing earthquakes, their cause, and also a religious view of them. (GS-TN)
- 1460 WXOK LA Baton Rouge - 1/13 2200 - Poor, with ID and ad for a play at *TheVarsity Theater*. (GS-TN)
- 1520 KMPG CA Hollister - 1/23 2000 - Good, with SS music, ID in EE, and into more SS music. Over KFXK sports talk. First time heard. (JW-OR)
- 1540 KMBY CA Capitola - 1/23 2004 - Poor-to-fair, with *Personal Success* info talk, ID. First time heard. Soon faded out. (JW-OR)
- 1570 WTAY IL Robinson - 1/22 1900 - In weak and poorly, but clear with... on WTAY. New. (JR-WI)
- 1580 KWYD CO Colorado Springs - 1/7 1901 - Good, with ID and into a church service. (WB-MO)
- WDAB SC *Travelers Rest* - 1/22 1819 - With station promo and 1580 WDAB mentions. CNN News format. Fair, over WBSY and others. (JR-WI)
- 1590 WQCH GA La Fayette - 1/17 2127 - Fair, with ad for local *Ford* dealer, weather, news, obituaries and into Georgia Network Sports. (GS-TN)

Totals

1230	1240	1340	1400	1450	1490	Total		
James Dale	Rosemount, MN	9	6	5	7	6	4	37

ABBREVIATIONS USED IN DDXD

/ / parallel to :00: on the hour AC:Adult contemporary AP:Associated Press BB:Big band BRN:Business Radio Net C&W:country & western CCR:contemporary Christian radio CHR:contemporary hit radio CID:code ID CL:call letter E2L:easy listening EE:English FF:French GOS:gospel IRN:Interstate Radio Net LSR:local sunrise LSS:local sunset NBA:National Basketball Assn NFL:National Football League NPR:National Public Radio OC:open carrier POL:political PRI:Public Radio International PSRA:pre-sunrise authority PSSA:post-sunset authority QRN:man-made interference QRN:natural interference QTH:location PRL:Public Radio International REL:religious ROK:rock 'n' roll RS:regular schedule \$:stereo SID:singing ID SRS:sunrise skip SS:Spanish SSB:Star Spangled Banner SSS:sunset skip TC:time check TT:test tones UC:urban contemporary UPI:United Press International

DDXD-East

NEWS AND VIEWS

Welcome to familiar IDXD reporter William Wylie who reports on some tests heard. William also mentioned that *The Association of DX Reporters* will stop publication with their February issue of *The DX Reporter*. I have also heard a rumor that *SPEEDX* will cease to publish in February. (This true, regrettably -pls.)



A correction from Chris Cuomo: "Re: My logging of the WGY test in Issue #15. The date and time that you have listed are incorrect. I heard an unscheduled equipment test 12/23/94 at 0342, not the scheduled DX test of 12/10." Sorry about that, Chris, ye' olde editor should have caught that one!

Seems to be either feast or famine in 1995 - either three pages or eight pages!

SPECIAL

1010 WXLX NC Albemarle - 1/23 0030 - Dual ID "WXLX-WZKY" with talk format, still using these calls, NOT WSPC (RT-NC)

DX TESTS

850 KICV AK Nome - 1/21 0530-0600 - Not heard, and actually tried! Only a Radio Relio outlet, that hadn't been heard on this frequency before, and another SS on a seemingly auroral night. (DB-DE)

910 WSUI IA Iowa City - 1/9 0100-0130 - Used very little code, but voice broke through jumble from time to time. (HH-MD)

970 WWSW PA Pitsburgh - 1/2 0000-0030 - Noted ID "WWSW 970", it's twelve midnight using daytime pattern, also noted power was 5000 watts, with tones, march music, short history of station at 0024, heard him say "Nightly Night. Return to night pattern." Good signal most of time, but very fadey. Poor at times. (WW-MA)

1010 KSYG AR Little Rock - 1/23 0315-0330 - Ripple tone and code IDs pretty much good through WINS and CFRB. QSL'd the old KLRX 12/29/47 (HH-MD) ... Good with voice IDs, code IDs and TT's. Interrupted *Sony Bloch Show* to run test. (RT-NC)

1300 WNCM TN Nashville - 12/26 0400-0430 - Parts of two code ID periods copied. Pretty good signal but too much WIFE QRM! (HH-MD)

1590 WXRZ GA Swainsboro - 1/23 0000-0030 - Tried both 1/21 and 1/23 with negative results. (RT-NC)

1590 WPWA PA Chester - 1/16 0000-0030 - Fair at best with voice IDs, jingles and comedy skits. (RT-NC) ... Good signal most of time but severe fading in and out. Many IDs as "WPWA Chester, Pennsylvania. DX test for National Radio Club." Played many comedy songs by Tom Lehrer, one by Stan Freberg. Cave address as P.O. Box 1590, Chester Heights, PA 19107. This was not the address listed in the DX test listings. (WW-MA)



UNID AND UNID HELP

540 UNID 1/27 1820 - End of announcement with "...of the South", mentions of western Carolina. Super Bowl promo from '71 and Mix 97.7, more mentions of Carolina, possibly the one with GOS after 1830. (DB-DE)

990 WCMF NY Rochester - This is JH-NJ's "SportsRadio 990", which carries the Rochester Americans AHL hockey games, the Portland Pirates are also in the AHL. (BC-NH)

1230 UNID 1/26 0545-0550 - With country music and slogan "Rockin' Country" atop channel. Relying on the known FM // 's and last year's log formats along with latest FM Atlas, I'd rule out WLFH & WUBE. Owing to prior logging, I rule out WACF. Assuming old WODLVA still off, most likely remaining candidates are WABNVA & WRO-OH. (RE-PA)

1280 UNID 1/27 1723 - Fair on top with ad for races at the North Carolina Motor Speedway, then into local Virginia news. Possibly the one heard at 1712 with CW on top of WYAL before WYAL sign-off at 1715. (DB-DE)

1450 CEAB NS Windsor - Is MS-ON's UNID in Issue #16. Per the bumper sticker I have from them "AVR stands for *Annapolis Valley Radio*, owners of the station. (CC-PA)

1450 CKDR ON Ear Falls/Hudson - 1/23 2240 - Poor. CW music, weather with snowfall in cm. "KDR" IDs, this is MS-ON's UNID that sounded like "AVR", with two stations relaying CKDR-800 on this frequency. (BC-NH)

0000 to 0800 ELT

570 WAAX AL Gadsden - 1/21 0041 - With CW and many "Wax" slogans. New on a frequency normally dominated by WWNC (the unmutable station) which was off. I couldn't keep my eyes open to gather data for a report. (RT-NC)

WWNC NC Asheville - 1/21 0000-0100 - Off air finally! Nothing of importance logged, even with KLF and WAAX. (RT-NC) (KLF would be important here! - db)

1200 WOAI TX San Antonio - 1/20 0459 - "Where you can get it right now" stated and ID given as "WOAI AM 1200", CBS News at :00 followed by *Bohannon, Mutual and America in the Morning* Fair. (RH-ON)

1350 KRNT IA Des Moines - 1/17 0630 - Good-fair with ID as "Take along a friend, KRNT, Des Moines", NOS music. (MB-IN)

1380 WRAB AL Arab - 1/17 0720 - Briefly on top with call letters, weather forecast and CW music. Log says FSRA 500 watts. (AF-IN)

1440 WMMKMI Inkster - 1/17 0700 - Poor but readable in LSB with ID as "All day, all night, all Gospel, WMMKMI". Finally nailed this one under WPPRS. (MB-IN)

1450 CHEF PQ Granby - 1/25 0633-0640 - With announcements, then drama program in FF atop all. (RE-PA)

1490 WCSS NY Amsterdam - 1/23 0649 - Atop channel with sports report and ID. (RE-PA)

1520 KMPL MO Silkeston - 1/9 0000-0105 - In WYWB null, in and out but good most of the time with satellite BBD, no local breaks, an occasional ID, SSB followed by full-data sign-off after news at 0100. New. (TS-MI)

1590 WONX IL Evanston - 1/21 & 1/23 0000 - Both times waiting for tests, fair with SS programming. Brokered programming after 0000, not heard in awhile. (RT-NC)

0800 to 1600 ELT

770 WABC NY New York - 1/12 1445 - Started to appear in WJR splash, good by 1500 when not buried by music splash from WJR. Heard local news with Tom Martin followed by Bob Grant also slogan "The station you grew up with has grown up" and the old call letters and chime ID. Never heard this early in the day before, other distant clear channels also heard for the first time in the daytime on this day of record high temps in MI. (TS-MI2)

880 WCBS NY New York - 1/12 1445-1505 - Station heard under WFRD following the CBS owned and operated all-news format, business news at 1453, must be WCBS, also heard WABC and KYW at the same time. (TS-MI2)

1040 WHO IA Des Moines - 1/12 1400-1500 - With good, steady groundwave and no WJFL or WTKA splash. Rush Limbaugh // WHAS, KMOX, WRVA. New in the daytime. (TS-MI2)

1060 KYW PA Philadelphia - 1/12 1430-1450 - Good groundwave, all news and traffic, another new one in the daytime. (TS-MI2)

1140 WRVA VA Richmond - 1/12 1415-1510 - With Rush Limbaugh and local news with Deanna Malone at 1430 and 1500. Strong daytime signal, equal to WMAQ at this OTH. (TS-MI2)

1520 KOMA OK Oklahoma City - 1/12 1535-1555 - Weak but there with oldies and "Koma" slogans, and *Arby's* and *Sears* ads in the 1550 break. Faded quickly and was gone by 1600. (TS-MI2)



1600 TO 2400 ELT

870 WQRX AL Valley Head - 1/27 1758 - Good, mixing with WWL but mostly on top, with what sounded like CW music, then sign-off message. WWL alone after carrier off. (DB-DE)

1280 WHTK NY Rochester - 1/27 1653 - Good on top of WYAL with traffic report including mention of calls, back to DJ who mentioned call letters quite often. (DB-DE)

1300 WERE OH Cleveland - 1/20 2020 - No ID given but who else would broadcast Cleveland's IHL franchise playing in Kansas City? Good broadcast but poor reception due to conditions, mark this down in your sports notes as the Cleveland flagship for IHL hockey. (RH-ON)

1370 WSPD OH Toledo - 1/12 2259 - "Newradio 1370 WSPD" ID, *Town Talk* promo and into CBS News at :00, fair. (RH-ON)

1450 WCDMCT Bridgeport - 1/25 1730-1734 - Presumed the one here with news in SS. (RE-PA)

1480 WADR NY Remsen - 1/10 1720-40 - First heard at this time with *One-to-One Live* national sports call-in show, but no ID; again same times 1/11. Later with high school hockey, West Genesee vs. "Kooxx Sxxxx Academy", 1930+. At 1940, ad for hardware store in Rome and a partial "WRNY" ID. This is now all sports, heard a couple of early AMs, too, but still // WRNY. At listed 19 watts (NOT!!) over and even with CHR/D, well over WDA5, the only local which disappears at night. (RE-PA)

1490 WKVT VT Brattleboro - 1/24 1948-1950 - With ID following weather. (RE-PA)
 1510 WSSH MA Boston - 1/12 2151-2156 - With 55 spots; then music followed by EE ID
 "WSSH AM Boston" and what I assume was a 55 legal ID. In and out with good
 peaks in WLA.C null. Not heard that often here. (TS-MI)

REPORTERS

MB-JN Mark Burns, Terre Haute, IN: Drake R-8, Quantum Loop, 80' longwire
 BC-NH Bruce Conti, Nashua, NH: ICF-2010 with Kiwa filters, MWDX-5, 30-m longwire,
 23-m southeast sloper
 CC-PA Chris Cuomo, Verona, PA:
 RE-PA Russ Edmunds(WB2BJH), Blue Bell, PA: Nissan Auto Radio & whip, though
 WADR-1480 also listenable in the house on a Walkman
 HH-MD Hank Holbrook, Dunkirk, MD: Hammarlund SP-600, Colegrove Loop
 RH-ON Russ Horton, Mississauga, ON: Sony CFS-7105
 TS-MI Tom Sanders, Davison, MI: Sony 2010
 TS-MI Tom Sanders, Davison, MI: Pioneer car radio
 RT-NC Robert J. Tazara, Hendersonville, NC: R-5000, 24" amplified loop, many longwires
 WW-MA William Wylie, Franklin, MA: Realistic DX-390, indoor antenna
 DB-DE Dave Braun, Wyoming, DE: R-5000, Quantum Loop

PIRACY ON THE MEDIUM OR HIGH FREQUEN-SEAS

Part I - by John D. Bowker

Breathes there a man with soul so dead that doesn't crave to be on the air with his own radio station? Yeah, I suppose so.

But who among us hasn't yearned to play our favorite records for our neighbors and be the envy of all who hear us broadcasting with our own equipment. There must be a pedestal somewhere for each of us to stand on who have done this during the past 70 years. I chimed in with my first pirate station in 1946. Unfortunately, the wood in my pedestal became a paddle that was used on my behind.

I was in the hills of Vermont at the time.. not known for its metropolitan population clusters.. and still they found me! (A ham operator turned me in.) The telegram from the FCC read "Cease and Desist.. and I did. Forty years later I received another letter from the FCC commending me on excellence in representing my employer (RCA/NBC) to them. So I've been on both sides now. And I want to share my conclusions with you.

First of all, the FCC may be lax in some of their enforcement practices. Lord knows we all see this every day of the year, what with stations not giving proper IDs, or leaving their carriers on all night. But let me draw the analogy of the IRS.. the tax people. Lord also knows many people bend their rules from time to time. Put another way, people cheat! And most of the time they get away with it. But heaven help them if they get caught! It's the same with the FCC.

So here are some thoughts about keeping out of jail or running up a big fine.

The FCC isn't stupid. They know pirates are on the air.. but they have priorities. If a pirate is causing harmful interference to a licensed station, they'll act quickly and decisively once they learn of the problem. As you may recall from a *DX News* last summer (see June 20, 1994 edition) the FCC has some very modern, fully equipped trucks that can pin down any terrestrial station (here that means any station other than a satellite communications station) without too much difficulty. So if they really want to, they'll find you!

But they aren't going to bother you if, for example, you're generally in compliance with Part 15 of the FCC Rules. Operating a low-power AM radio station that covers the neighborhood and doesn't interfere with any nearby station is not going to get you in trouble. Later on we'll talk about operating in compliance with Part 90 of the Rules or even, perish the thought, in compliance with Part 73 of the Rules (that Part is called "Radio Broadcast Services") and, if the editor has the patience, we'll touch on cable radio too.

In our next installment we'll start explaining what this legal double-talk is all about and tell you how to turn it to your own advantage. At the very end of this series I hope to find room to tell you why you really shouldn't operate a short wave station that can be heard half way around the world... it will bring tears to your eyes, I'm sure, hopefully from sympathy, not from laughter.

So my opening message is: Sure! You can broadcast all over and even do it legally! Some of the ways to accomplish this take a little more work and commitment, but if everybody could do it, what fun would there be?!

To be continued ...

International Jim Renfrew JimRenfrew@AOL.com

61 Wilcox Street

Rochester, NY 14607-3832

Foreign DX Catches. Times are UTC, for EIT, subtract 5 hrs.

A thousand pardons to Greg Contigo, whose report was received via e-mail, but delayed when I ignored it thinking that it was FM material (since Greg edits a column in WTTDAS VLDI Digest). Welcome to DXD, Greg!

TRANS-PACIFIC DX

153 RUSSIA Komsomolsk FE, JAN 25 1503 - Poor to fair with man speaking RR // 234. 1000 kW per WRTH. [Woods-OR]
 234 RUSSIA Arman FE, JAN 25 1459 - Poor with instrumental music. Pips on the hour, five short and one long. Into RR talk, sounding like news // 153. 1000 kW per WRTH. [Woods-OR]
 850 HAWAII KHLO Hilo, JAN 22 1328 - Fair to good with C&W over KOA talk. [Woods-OR]
 855 AUSTRALIA JAN 25 1515 - Very poor with instrumental music and EE talk, not quite readable. Presumed to be Maryborough/Eidsvold. [Woods-OR]

TRANS-ATLANTIC DX

163 RUSSIA VCTRK Norilsk, JAN 15 1230 - Fair to good signals with lots of talk in RR and RR classical music. New country. This one hung in until almost 1400. Only station heard on LW. Weak het on 180 never came up. I figure this one hung in so long as we were pretty close to each other's grey line and they were probably getting their first light these days so may be in a constant grey line situation. Comments anyone? [Axelrod-MB]
 181 UNID MYSTERY, JAN 29 0100-0230 - not on a regular 9 kHz split. Logged by Oklahoma Lower ace Bill Bowers with western instrumental music and normal announcers in what seemed to be a non-EE euro language. [reported by Bryant-OK]
 183 UNID MYSTERY, JAN 29 0200-0230 - not on a regular 9 kHz split. Playing pops with normally formatted programming with what sounded like a non-EE euro language. This one was most probably from western europe according to the Beverage antenna array. [Bryant-OK]

John speaks: "These were two separate stations. Bill and I were in phone contact. He could hear both. I could get audio out of just 183. They were running clearly different programming (our stacks are separated by 50 miles or so). Any clues or suggestions would be welcome. Any clues or suggestions would be welcome. I might also note that MW was open to Europe at the same time here. Had the usual Spanish/Portuguese bets on the lower portion of the band, with the upper band having poor audio on 1134 and 1215 and monster bets on 1296 and 1314. Unfortunately, the show was all over by 0330 and the MW stuff never came back, despite frequent prayers."

198 UNID KINGDOM BBC Droitwich (pres.), JAN 29 0158 - Tuned 198 at 0158 and heard instrumental music. Was expecting the powerhouse Algerian and was "listening in French and Arabic". About fell out of the chair when the BBC lone fanfare and the World Service 0200 news began at 0200. My first European on Longwave from Oklahoma. [Bryant-OK] (Very nice - Jim)

549 ALGERIA Les Trembles, JAN 31 0520 - news by man in AA, good. [Connelly-MA]
 558 SPAIN, JAN 31 0518 - bits of SS talk; poor. [Connelly-MA]
 585 SPAIN RNEI, Madrid, JAN 31 0125 - Good, telephone talk in Spanish. // 855 which was also a good signal. [Conti-NH]

621 CANARY ISLANDS Santa Cruz de Tenerife, JAN 30 0413 - SS talk by man; loud. [Connelly-MA]

711 MOROCCO Laayoune, JAN 30 0414 - AA chanting & strings; sometimes getting through WOR slop. [Connelly-MA]

756 GERMANY Braunschweig / Ravensburg, JAN 29 0253 - classical music; very good, well over Spain (whose 55 talk was audible in the background). [Connelly-MA]

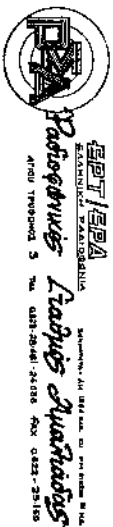
774 SPAIN synchros., JAN 29 0250 - \$S tele talk // 855; fair to good over AA - sounding station with WABC-770 slop phased. [Connelly-MA]

855 SPAIN Murcia et al., JAN 29 0248 - \$S tele talk; fair to good with WEEI- 850 phased. [Connelly-MA]

882 ENGLAND Washford et al., JAN 29 0246 - man in EE to fair peaks over Canary Islands (SS) station; tough WCBS slop at times. [Connelly-MA]

891 ALGERIA Algiers, JAN 28 2132 - AA music with mandolin-like instrument, violins, & drums; excellent. 59+40. [Connelly-MA]

- 1044 SPAIN San Sebastian, JAN 28 0649 - man & woman in SS over/under open carrier. [Connelly-MAI]
- 1044 MOROCCO Sebha-Atoun, JAN 31 0515 - pop-style AA vocal. [Connelly-MAI]
- 1062 DENMARK Kalundborg, JAN 27 0451 - woman in Danish; to good peak. JAN 28 0647 - song "Only Have Eyes for You"; good. JAN 28 2130 - Meatloaf's "2 out of 3 Ain't Bad"; excellent. 59+25. [Connelly-MAI]
- 1098 CANARY ISLANDS // SPAIN, JAN 28 0648 - bits of SS talk over growl & slop. [Connelly-MAI]
- 1107 SPAIN, JAN 28 0646 - fast SS talk by man & woman; good. [Connelly-MAI]
- 1116 ITALY, JAN 28 0644 - II talk // 1575; poor.
- [Connelly-MAI]
- 1116 SPAIN, JAN 31 0509 - SS talk; fair. [Connelly-MAI]
- 1125 SPAIN, JAN 31 0509 - SS talk; fair peaks, some WBRR slop. [Connelly-MAI]
- 1134 SPAIN, JAN 31 0508 - SS talk, in rumble / growl. [Connelly-MAI]
- 1179 SWEDEN / CANARY ISLANDS, JAN 28 0641 - Swedish & SS talk evenly mixed. [Connelly-MAI]
- 1206 FRANCE Bordeaux, JAN 28 0636 - man in FF; in WGMF slop. [Connelly-MAI]
- 1215 ENGLAND Virgin R. synchros, JAN 28 0635 - rock music; EE talk; fair to good. [Connelly-MAI] JAN 31 0305 - Good, usual '80s rock music including Billy Idol and David Bowie tunes. [Cont-NH]
- 1269 GERMANY Neunmünster, JAN 28 0630 - man in GG; fair. [Connelly-MAI]
- 1314 NORWAY Krivoy, JAN 27 0030 - Excellent, jingle and mix of American, European, and Norwegian music, signal strength equal to last September's supurb northern path conditions. [Cont-NH] JAN 27 0457 - EE cocktail/lounge type vocal; excellent, 59+30. JAN 28 0629 - piano music, then woman in Norwegian; very good. [Connelly-MAI] JAN 28 0235 - "Clementine" by Bobby Darin; loud. [Connelly-MAI]
- 1332 ITALY Rome, JAN 28 0542 - woman in II // 1575; fair. [Connelly-MAI]
- 1341 NORTHERN IRELAND Lisnagarvey, JAN 28 0610 - BBC news by woman in EE; poor to fair. [Connelly-MAI]
- 1359 SPAIN Arganda, JAN 31 0500 - fast SS news by man; strong, QRMLing local WLVN. [Connelly-MAI]
- 1377 FRANCE Lille, JAN 28 0546 - classical music // 1557; poor in slop. [Connelly-MAI]
- 1386 RUSSIA (KALININGRAD) Bolshakovo, JAN 28 0612 - Slavic-sounding talk by man & woman; fair. [Connelly-MAI]
- 1521 SAUDI ARABIA Doha, JAN 29 0256-0301 - Qud instrumentation & AA talk at s/on; good before fade. JAN 30 0423 - AA talk; superloud, best T.A. [Connelly-MAI]
- 1530 VAITICAN, JAN 28 0549 - FF talk by man & woman; strong; totally dominating the channel. [Connelly-MAI]
- 1539 unID, JAN 31 2130 - het here against 1540 domestics; briefly strong. Germany is off, so maybe Spain or something from the Middle East. Signal did not persist later into the evening. [Connelly-MAI]
- 1548 ENGLAND, JAN 28 0545 - EE talk by man & woman; poor to fair over others. [Connelly-MAI]
- 1557 FRANCE Nice, JAN 28 0545 - classical music // 1377; to good peaks over second station (probably Malta) that had GG-sounding talk. [Connelly-MAI]
- 1557 MALTA Cyclops (t), JAN 31 0450 - AA-sounding talk in WQEW slop. [Connelly-MAI]
- 1575 ITALY Genova, JAN 28 0542 - woman in II // 1332; fair. [Connelly-MAI]
- 1575 SPAIN, JAN 31 0445 - fast SS talk; excellent. [Connelly-MAI]
- 1594 SPAIN, JAN 29 0521 - echoey SS talk o / others. JAN 30 0446 - SS talk to good peak. [Connelly-MAI]
- 1611 VAITICAN, JAN 15 0336-0402 - Choir music at tune-in, peaking nicely at 0336, woman speaking RR language 0338-0054, Slop from Anguilla, choir music 0354-55, Man speaking RR, Interval Signal 0357-59, then UKrathian at 0400. [Ross-ONI] JAN 23 0507 - Fair // 5882, noted male in Slavic language (Lithuanian?) followed by female with talk at 0509. Music began at 0515 followed by male at 0516. Interval signals began at 0519 and continued until 0520. 5882 signed off at 0520. Signal on 1611 continued for another 5-10 minutes with female in Swedish(?). First timer for country #37 from this QTH. First noted carrier about 0445, audio "just appeared" at strong levels rivaling 5882. I was absolutely amazed at the way this one was coming in. In about 400 miles from the coast and I had no problem hearing this one! I agree with MC - this one should be widely heard throughout NA. The



signal is of short duration, but strong. [Tiara-NCI] JAN 28 0538 - Romanian-sounding talk, then Vatican mention & Latin phrase "Laudetur Iesu Christus", carrier dropped off for a second (pattern change ?), Vatican IS was played, and then Russian-sounding talk followed. Huge signal, to 59+40 peaks. [Connelly-MAI]

PAN-AMERICAN

- 532 TURKS & CAICOS ISLANDS RVC, no date 0957-1022 - Strong, mostly in SS with EE ID around 1000. [Holbrook-MD]
- 535 TURKS & CAICOS RVC, DEC 6 0530 - this puts a het on CIAO nearly every night, and not too uncommon to hear SS relig. audio // WWRJ 1330. [Coniglio-NY] (Has been reported more recently on 533 kHz, making the het worse - jim)
- 540 MEXICO XEWA Monterrey, JAN 15 0132 - Very good signals with "WA" IDs and music just hearing up CBK Regina. CBK only dominant on the west wire, all others XEWA. [Axelrod-MB]
- 570 CUBA Santa Clara, Radio Reloj, DEC 7 0550 - and many other nights over CKGL/WKBN/WSYR mess; not listed in 1994 WRTM. [Coniglio-NY] (Almost certainly the listed station, running Reloj in the late hours - jim)
- 600 CUBA Urbana Norte, CMKV Radio Rebelde, DEC 29 0435 - man/woman announcers and "Rebelde" slogan heard, excellent at times in CKY/CKTB splash. [Coniglio-NY]
- 640 CUBA R-Progresso, JAN 24 0320 - Good, ID including address "...música favorita... programa de Radio Progreso, Apartado 30-42..." [Cont-NH]
- 650 COLOMBIA Antena 2, Bogotá, JAN 24 0309 - Excellent, "Antena Dos la compañía de festival musical de sus mejores tros" and "Escuchala por deportes!" promos, salsa/pop music. [Cont-NH]
- 670 CUBA Arroyo Arenas CMQ Radio Rebelde DEC 29 0445 - // 600, this one was on top of WMAAQ at times, very loud, with another SS unID in back. [Coniglio-NY]
- 690 UNID, JAN 15 1130 - Station here with lots of ranchera music and SS talk. [Axelrod-MB]
- 720 VENEZUELA R. Oriente, Parlamar, JAN 15 0753-0802 - Fair with ID by man as "Radio Oriente" at 0753, male DJ with timecheck and mention of Venezuela, uptempo SS music, mixing with CHTN. [Ross-ONI]
- 720 MEXICO XEAVR Alvarado, JAN 15 1056 - Popped up during WGN equipment test through the open carrier with sign-on information and call sign, new. [Axelrod-MB]
- 770 MEXICO Fresnillo XELH, DEC 30 0600 - caught "Esta es X-H" with two quick letters between X and H then apparently a sign off. Not positive on the date but it was 0600 when they left the air. [Coniglio-NY]
- 770 6 HONDURAS Radio Norte HRNN21 San Pedro Sula, JAN 8 0047-0116 - Poor/fair, man in SS, bad slop from 770 kHz, bad het thrown on 770, several nice audio peaks, but unable to dig out ID, music 0110-0111. [Ross-ONI]
- 780 VENEZUELA Coro, YVMN R. Coro, DEC 7 0507 - fairly clear "Radio Coro" ID (tho at first sounded like "Torro", into SS music, there isn't a "Radio Torro" out there, is there? Heard again JAN 20 0145. [Coniglio-NY] (No Torro out there! - jim)
- 790 MEXICO Mexico City, XERC, DEC 31 0028 - in surprisingly clearly and almost alone for a brief period with SS AC music, calls given, a slogan that sounded like "la mas alta tecnologica digital", and possibly mentioning "cincuenta mil watts" (50 kW), not positive though. This actually made it in JAN 01 0000 as well, sounding like sunset skip! [Coniglio-NY] (unusual logging - jim)
- 810 COLOMBIA Bogota, HJCY R. Caracol DEC 7 0530 - in very strong over WGY with news it sounded like, and many Colombia mentions (ent). [Coniglio-NY]
- 890 CUBA Habana? CM??. R. Progreso, JAN 20 0030 - very strong over WIT5 with clear R. Progreso ID and "desde Habana" mention, anyone know about this one, not listed in 94 WRTM. [Coniglio-NY]
- 1000 US VIRGIN ISLANDS WVWI St. Thomas, JAN 16 0711 - Two periods of weak but clear code, each lasting about 30 seconds or so, were heard at 0711 and 0715. Brief TT seemed to precede and follow the code. WVWI's signal was well under HJAQ, with XEOY partially nulled and WMYV off for weekly SP. I stayed on 1000 from 0716 to 0800, but no further sign of them. First non-US DX test here since Costa Rica 625 in 1976! [Francis-TN] JAN 16 0700-0800 - Poor with code IDs and approximately 400 Hz tone. [Tiara-NC]



Armonias del Palmar

RADIOFUSORA

PARQUE VALLE COLOMBIA
Carrera 29 Sur 29-50
E. J. R. J. - Dpto. Lemp. - 1.980 Kilómetros

Teléfono y Cable: Finales de la Onda de 1.980 Kilómetros
"AMORIOSA"
ARRANCO 1980 P. 111 2847 2944

1000 COLOMBIA HIQO RCN Cartagena, JAN 20 0040 - almost local at times battling not WWVP but another SS! (see below), RCN jingle caught and possible "La Cadena" mention, mentions of news programming, 24 hours schedule "viva la palabra" [Coniglio-NY]

1000 VENEZUELA YVNN Morón, R. Mundial, JAN 20 0040, tentative here, fairly sure I caught a "R. Mundial" slogan under Colombia. [Coniglio-NY]

1020 TURKS & CAICOS Caribbean Christian Radio, DEC 9 0430 - not 100% sure on the time, but heard sign-off weak under KDKA after EE religious preaching. [Coniglio-NY]

1100.2 COLOMBIA CARACOL, Barranquilla, JAN 23 0400 - Good, Caracol ID and news, slightly off-frequency causing a strong het against WWWE-Cleveland, JAN 31 0300 still off-frequency and easy to lock on USB with synchronous tuning for clear audio over WWWE. [Cont-NH]

1100.3 COLOMBIA CARACOL Barranquilla, JAN 8 0137-0147 - Fair, talk in SS by man 0137-0147, slip from WWWE prevented ID. Most probably this is Colombian off-frequency. [Ross-ONI]

1160 BERMUUDA VSB-3 Hamilton, Brief fade-up over mess of stations including KSL. BBC programming // 5975, new country. [Axelrod-MB]

1170 COLOMBIA Medellin, R. Nutibara HIQV, DEC 7 0530 - (tent.), well on top of WWVA at times with SS mostly news, numerous Colombia mentions, as well as several Medellin mentions. Could have sworn I heard the "Eco" slogan which is the slogan listen in my 1987 WRTM, but my 1994 ed lists this slogan. Anyone have a scoop on this one? [Coniglio-NY] (More likely, you got RCN, Barranquilla, which is widely heard. It's a national network, so they very well might mention Medellin - Jim)

2390 MEXICO Huayaocochoa, JAN 15 0045 - Poor signals with lots of SS talk and Mexican music. [Axelrod-MB]

STATION NEWS

ANTIGUA: Have you had any recent reports for Caribbean Radio Lighthouse, Antigua, on 1165. I haven't heard this one in a long time. Do you know if they're still on the air? [Funkhouser-ON] (I don't recall seeing any recent reports - Jim)

GERMANY: Mainflingen 1539 signed off without any kind of announcement on DEC 31 at 2300. [Olle Alm in ARC JAN 13] The transmitter at Burg 261 has been closed down due to its huge energy consumption. Radioopa-Info now only on SW, FM and cable. The frequency is now clear for reception of Radio Rossia's key transmitter at Taldom. [BE in ARC JAN 31]

NORWAY: Oslo-Kjøfda 218 kHz has left the air for good. [Media Network via BE in ARC JAN 13]

UNITED KINGDOM: Talkradio UK started simultaneous test transmissions across the UK yesterday JAN 30. The transmitters seem to be operational round the clock with recordings of the new presenters introducing themselves. The two high power synchronous networks on 1053 and 1089kHz are on, supplemented by low power relays in Newcastle (1071kHz), Liverpool, Fareham and Torbay (all three on 1107kHz). Thus ends a period of good interference free long distance reception on 1050 and 1090kHz: this winter rarely heard stations in Washington, Alberta, Saskatchewan, Manitoba and Ontario have been heard in the UK on these channels. [Steve White, Medium Wave News, JAN 31, via e-mail] Droitwich 1053 100 kW (and 1/2/10 kW synchros), Brookmans Park and Moorside Edge 1089 100 kW, Westerglen and Washford 50 kW (and 2/10 kW synchros). [Dave Kenny "UK News" in ARC JAN 13]

CORRECTIONS

Please make the following corrections to last IDXD log submissions:

1377 FRANCE Lille, JAN 26 0540 - fair with jazz // 1557. [Connelly-MA]

1386 RUSSIA (KALININGRAD) Bolshakovo, JAN 25 0455 - EE talk, electronic music; fair. [Connelly-MA]

1386 did not have jazz // 1557. That note should be for Lille, France on 1377. [Connelly-MA]

TIP FOR KEN MADHARG/HCB

"No luck with HCB here either, due to the buzz. It was bad enough hearing no trace of the test, but then to have the Progoso outlet and its accompanying buzz go off at 0558, followed by KGGF signing off at 0602 was rubbing it in, hi." [Francis-TN] (Sounds like a later time slot might have a better chance - Jim)

CONTRIBUTORS (@ = via e-mail)

Shawn Axelrod, Valhalla Beach MB; two ICOM IC-R70s with filter mods and plain board, 9 beverages or long wires.



@John Bryant, Stillwater OK.

@Greg Coniglio, Williamsville, NY.

@Mark Connelly (WAIION), Billerica MA; Drake R8 ant = two noise-reduced slopers (approx. 37 m each) with 50 m single-turn horizontal loop used as floating ground for noise reduction, antennas are phased with M1WDX-5 phasing unit to MWT-3 regenerative tuner/preamp [MarkWAIION@aol.com]

@Bruce Corti, Nashua, NH; JCF-2010 with Kiwa filters, MWDX-5, 30-m longwire, 23-m southeast sloper [brce@exdot.com]

Steve Francis, Alcoa TN, Realistic TRF

Hank Holbrook, Dunkirk MD; Drake R8 and random wire.

Robert Ross, London ON; Collins 651S-1, Kenwood TS440S, Dipoles; longwires, vertical, homebrew Diamond Loop.

@Robert J. Tara, Hendersonville, NC; R-5000, 24" amplified loop, many longwires. (via Dave Braun by e-mail)

Jack Woods, Waldport OR; Lowe HF-225E, ALN-1 outdoor untuned antenna.

College Sports Networks

Network listings for team sports stations

Rick Dau rdau@blue.veeg.utoledo.edu
335 South Johnson, #8
Iowa City, IA 52240

590 WKZO-MI	1300 WOOD-MI	WSJM-MI	95.3 WOTE-MI
970 WKHM-MI	1340 WCSR-MI	WHLS-MI	96.3 WMBN-MI
1050 WTKA-MI	1370 WGHN-MI	1460 KENO-NV	104.3 WCZY-MI
1230 WFYC-MI	1400 WSAM-MI	1520 WYKB-NY	

MICHIGAN STATE SPARTANS

600 WCHT-MI	1210 WMAX-MI	1440 WDMX-MI	92.7 WEVS-MI
910 WEDF-MI	1230 WCUX-MI	WDOW-MI	93.7 WNBX-MI
930 WBCR-MI	1240 WCBY-MI	1450 WIBM-MI	97.5 WJTM-MI
970 WKHM-MI	1240 WCBY-MI	1450 WIBM-MI	101.1 WGRY-MI
1050 WTKA-MI	1320 WDMJ-MI	1490 WAAB-MI	101.9 WLDL-MI
1080 WOAP-MI	1360 WQSN-MI	1520 WMLM-MI	103.9 WNZX-MI
1130 WDFN-MI	1380 WPHM-MI	1580 WHLY-IN	

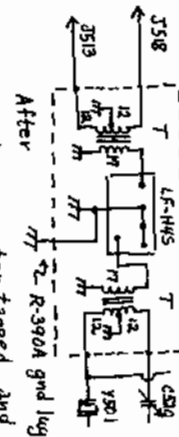
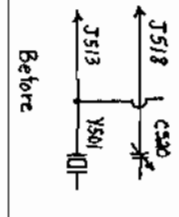
OHIO STATE BUCKEYES: Gary Smith, Craig Taylor

900 WERO-OH	WMRO-OH	1500 WBLZ-OH	97.5 WBNN-IN
930 WBOI-OH	WMAN-OH	1510 WIGN-OH	97.7 WCTO-OH
960 WKVX-OH	WKWK-WV	1520 WQCT-OH	98.3 WPNT-OH
970 WFUN-OH	1410 WING-OH	1540 WBTC-OH	98.9 WERT-OH
1030 WBNN-IN	1420 WHK-OH	1550 WDIR-OH	99.1 WERO-OH
1150 WDMA-OH	1430 WCTL-OH	1570 WCLX-OH	99.3 WTNS-OH
1220 WERT-OH	1450 WBER-OH	1600 WBLY-OH	100.9 WNTX-OH
1230 WIRO-OH	WMOH-OH		100.9 WXIZ-OH
1240 WBBW-OH	WLTP-WV	92.7 WOEL-OH	101.1 WJAW-OH
1260 WHZL-OH	WBNS-OH	93.5 WBNO-OH	101.7 WJER-OH
1270 WUCC-OH	WWVM-OH	94.3 WAKL-OH	102.3 WOLX-OH
1320 WLOH-OH	1480 WHBC-OH	95.3 WAKN-OH	103.1 WNDH-OH
1330 WFIN-OH	WCIN-OH	95.9 WAKM-OH	104.5 WRAC-OH
1340 WIZE-OH	1490 WBEX-OH	95.9 WYNT-OH	104.5 WQKT-OH
1350 WSLR-OH	WOHI-OH	96.7 WWTG-OH	106.3 WWYS-OH
1390 WBLI-OH	WMOA-OH	97.1 WBNS-OH	
	WMRN-OH		

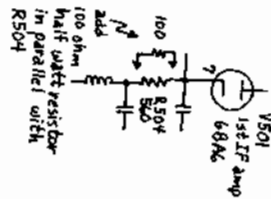
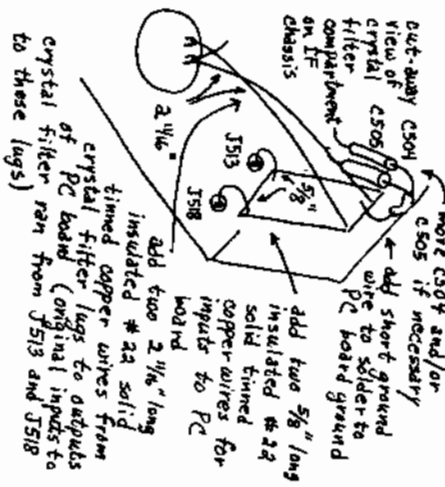
KSLM Radio — Lucky 1390 AM

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R390A Filter Mod 2 ... by Dallas Linkford



T = 24 turns, center tapped, and 17 turns, #26 enameled copper wire, on Amidon FT-50A-75, toroid wrapped with Teflon tape



LF-H4S ceramic filters are available from Kiwa Electronics, Attn. Craig Siegenthaler, 612 South 14th Avenue, Yakima, WA 98902, (509)-453-5424 for about \$15.

Several things caused me to rethink my R-390A torsion filter mod. First, I never liked the idea of modifying the RF chassis because any repairs or adjustments to the mod require removal of the RF chassis, a time consuming process. Second, any changes to the mod, such as developing a noise blanker, would be difficult for the same reason. And third, trouble-shooting the RF chassis could require removal of the mod, which, again, would be difficult.

A much better place for adding such filters is at J518 and J513, where the 455 KHz output of the 1st IF transformer (on the RF chassis, following the last mixer) enters the IF chassis. But when I did the first filter mod, I did not know the output impedance of the 1st IF transformer, so I could not develop suitable impedance matching for filters which might be installed at that point. Subsequently, I read in the Collins R-389/R-390 Engineering Report for tube differences, the R-390A last mixer, 1st IF transformer, and following crystal filter appeared to be similar to the R-390 circuits. So assuming a 1000 ohm output impedance for the R-390A 1st IF transformer, I developed

impedance matching broadband transformers for 2000 ohm source and load filters. Implemented my design, and found that it worked as well as my first filter mod. This mod, called mod 2, is shown above.

There is not much available space in the crystal filter compartment of the IF chassis, so I decided to use a tiny LF-H4S ceramic filter. The total number of parts required was four: the filter, two broadband matching transformers, and a PC board. Everything fit neatly on the tiny 5/8 by 1 9/16 inch PC board. As with the first mod, there is considerable loss with this mod. And like the first mod, signal loss was restored by adding a 100 ohm half watt resistor in parallel with R504 to increase the gain of the 1st IF amp.

As with the first mod, and for the same reasons, close-in (within 100 KHz) dynamic range of the R-390A is improved for non-crystal filter bandwidths, with more improvement as signal spacing becomes closer. For one RF chassis, the 20 KHz spacing ICPS at 1.6 KHz was improved from -12 dbm to +2 dbm. For another RF chassis, the improvement was even greater, to +10 dbm. Apparently there is considerable variation in the potential ICPS improvement from one RF chassis to another. A third RF chassis was tested, and the improvement in ICPS was to +2 dbm. So it seems that +2 dbm is typical of the ICPS improvement.

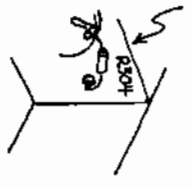
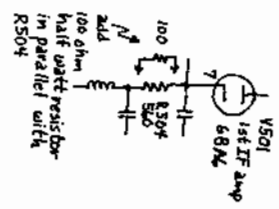
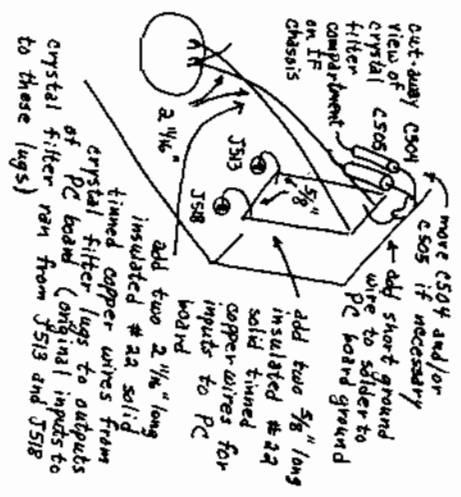
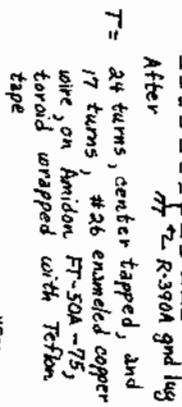
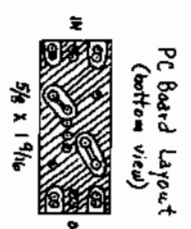
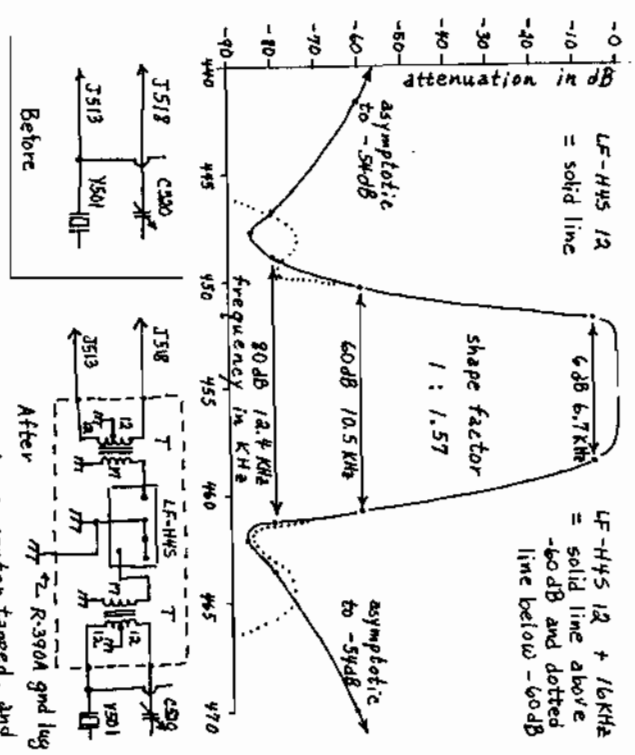
It appears feasible to use a Collins torsion filter for this mod, but a larger PC board, more parts, and a different mounting arrangement would be required. For these reasons, a torsion filter was not used.

The measured attenuation characteristics of a typical LF-H4S ceramic filter are shown below. The solid line is for a stand-alone LF-H4S measured in a carefully constructed test fixture with BNC connectors and RF eight input and output chambers. An LF-H4S installed in an R-390A and cascaded with a 16 KHz bandwidth R-390A filter is shown by the dotted continuation below the -60 dB attenuation points. Above -60 dB attenuation there was no difference between the stand-alone LF-H4S and the installed LF-H4S cascaded with the 16 KHz BW R-390A filter. As can be seen, there is remarkably little signal leakage around the installed LF-H4S filter despite the rather long (2.5") leads from the output of the LF-H4S matching transformer to the input of the crystal filter. I had considered using miniature coax in place of these two open wire leads, but these measurements demonstrate that there would be little gain by using miniature coax. My ultimate plan is to remove the 16 KHz BW filter anyway, and to use the 8 KHz BW filter cascaded with the LF-H4S, in which case the humps on each side of the LF-H4S notches will be eliminated by the 8 KHz filter skirts. As can be seen from the graph below, the stand-alone attenuation of the LF-H4S filter leaves something to be desired below about 447 KHz and above about 462 KHz, namely, the attenuation comes back up from deep notches to about -54 dB. However, when cascaded with other filters, as is done in this R-390A mod, the attenuation characteristics of the LF-H4S below about 450 KHz and about 460 KHz are of little concern because the following filter takes over. When you use the 8 KHz R-390A BW in combination with the LF-H4S you get an outstanding 6 KHz nominal BW. Come are the annoying 5 KHz humps which you normally get with the R-390A 8 KHz BW when tuning the 5M bands. The 4 KHz and 2 KHz R-390A BWs perform about the same as before. In every way this mod is as good as the previous mod using the 6 KHz Collins torsion mechanical filters. Actually, it is better, because it is simpler to implement, and no alignment is required other than adjusting the R-390A 1st IF transformer for maximum signal with a stable signal tuned to the center of the LF-H4S passband.

The toroids must be mounted upright (as opposed to flat) on the PC board; otherwise the finished PC board will not fit into the available space. The transformer lead lengths should be kept as short as possible to minimize signal leakage by reradiation. The 5/8 inch length of the wires from J513 and J518 to the PC board and the 2 1/16 inch length of the wires from the PC board to the crystal filter are the lengths of the insulation, not counting additional wire length for making connections to lugs and the PC board. The input wires should be soldered to J513 and J518 first, then the PC board slipped onto those two wires and soldered. The input wires are curved into a seafirele so that the bottom of the PC board is directly above J513 and J518. Then the output wires are soldered to the crystal filter lugs, and the remaining connections to the PC board are made.

Several things caused me to rethink my R-390A torsion filter mod. First, I never liked the idea of modifying the RF chassis because any repairs or adjustments to the mod require removal of the RF chassis, a time consuming process. Second, any changes to the mod, such as developing a noise blanker, would be difficult for the same reason. And third, trouble-shooting the RF chassis could require removal of the mod, which, again, would be difficult.

A much better place for adding such filters is at J518 and J513, where the 455 KHz output of the 1st IF transformer (on the RF chassis, following the last mixer) enters the IF chassis. But when I did the first filter mod,



LF-H45 ceramic filters are available from Kiwa Electronics, Attn. Craig Siegenthaler, 612 South 14th Avenue, Yakima, WA 98902, (509)-453-5492 for about \$15.

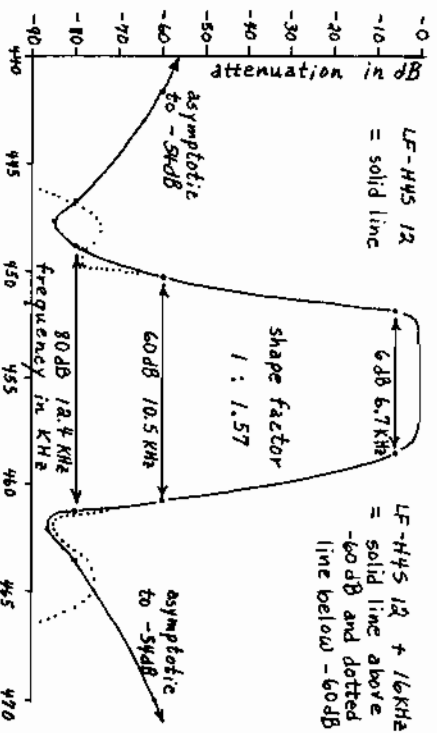
I did not know the output impedance of the 1st IF transformer, so I could not develop suitable impedance matching for filters which might be installed at that point. Subsequently, I read in the Collins R-389/R-390 Engineering Report that the output impedance of the 1st IF transformer was 1000 ohms. Except for tube differences, the R-390A last mixer, 1st IF transformer, and following crystal filter appeared to be similar to the R-390 circuits. So assuming a 1000 ohm output impedance for the R-390A 1st IF transformer, I developed impedance matching broadband transformers for 2000 ohm source and load filters, implemented my design, and found that it worked as well as my first filter mod. This mod, called mod 2, is shown above.

There is not much available space in the crystal filter compartment of the IF chassis, so I decided to use a tiny LF-H45 ceramic filter. The total number of parts required was four: the filter, two broadband matching transformers, and a PC board. Everything fit neatly on the tiny 5/8 by 1 9/16 Inch PC board. As with the first mod, there is considerable loss with this mod. And like the first mod, signal loss was restored by adding a 100 ohm half watt resistor in parallel with R504 to increase the gain of the 1st IF amp.

As with the first mod, and for the same reasons, close-in (within 100 KHz) dynamic range of the R-390A is improved for non-crystal filter bandwidths, with more improvement as signal spacing becomes closer. For one RF chassis, the 20 KHz spacing ICP3 at 1.6 KHz was improved from -12 dbm to +2 dbm. For another RF chassis, the improvement was even greater, to +10 dbm. Apparently there is considerable variation in the potential ICP3 improvement from one RF chassis to another. A third RF chassis was tested, and the improvement in ICP3 was to +7 dbm. So it seems that +2 dbm is typical of the ICP3 improvement. It appears feasible to use a Collins torsion filter for this mod, but a larger PC board, more parts, and a different mounting arrangement would be required. For these reasons, a torsion filter was not used.

The measured attenuation characteristics of a typical LF-H45 ceramic filter are shown below. The solid line is for a stand-alone LF-H45 measured in a carefully constructed test fixture with BNC connectors and RF tight input and output chambers. An LF-H45 installed in an R-390A and cascaded with a 16 KHz bandwidth R-390A filter is shown by the dotted continuation below the -60 dB attenuation points. Above -60 dB attenuation there was no difference between the stand-alone LF-H45 and the installed LF-H45 cascaded with the 16 KHz BW R-390A filter. As can be seen, there is remarkably little signal leakage around the installed LF-H45 filter despite the rather long (2.5") leads from the output of the LF-H45 matching transformer to the input of the crystal filter. I had considered using miniature coax in place of these two open wire leads, but these measurements demonstrate that there would be little gain by using miniature coax. My ultimate plan is to remove the 16 KHz BW filter anyway, and to use the 8 KHz BW filter cascaded with the LF-H45, in which case the humps on each side of the LF-H45 notches will be eliminated by the 8 KHz filter skirt. As can be seen from the graph below, the stand-alone attenuation of the LF-H45 filter leaves something to be desired below about 447 KHz and above about 462 KHz, namely, the attenuation comes back up from deep notches to about -54 db. However, when cascaded with other filters, as is done in this R-390A mod, the attenuation characteristics of the LF-H45 below about 450 KHz and about 460 KHz are of little concern because the following filter takes over. When you use the 8 KHz R-390A BW in combination with the LF-H45 you get an outstanding 6 KHz nominal BW. Gone are the annoying 5 KHz hets which you normally get with the R-390A 8 KHz BW when tuning the SW bands. The 4 KHz and 2 KHz R-390A BWs perform about the same as before. In every way this mod is as good as the previous mod using the 6 KHz Collins torsion mechanical filters. Actually, it is better, because it is simpler to implement, and no alignment is required other than adjusting the R-390A 1st IF transformer for maximum signal with a stable signal tuned to the center of the LF-H45 passband.

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College Sports Networks

Rick Dau rdau@bluc.wccog.uiowa.edu
 335 South Johnson, #8
 Iowa City, IA 52240
 Network listings for team sports stations

INDIANA HOOSIERS: Don Fischer, Max Skurvin			
640 WBOW-JN	1450 WXYW-JN	95.9 WKUZ-JN	102.3 WCBK-JN
980 WITY-IL	1460 WKAM-JN	96.7 WAXT-JN	WFCP-JN
1070 WIBC-JN	1490 WKBY-JN	WBWB-JN	102.9 WNYJ-JN
1190 WOWO-JN	1520 WOOO-JN	WCOE-JN	103.1 WOWO-JN
1228 WSLM-JN	1560 WRIN-JN	WORX-JN	WHME-JN
1230 WSAI-JN	1590 WPCO-JN	98.1 WRAY-JN	103.9 WINC-JN
WTCI-JN		98.3 WBSN-JN	104.7 WTTZ-JN
1250 WRAY-JN		99.9 WSLM-JN	104.9 WWWW-JN
1270 WORX-JN		99.3 WQCY-JN	WAXJ-JN
1280 WWOK-JN		100.1 WNDU-JN	105.5 WQRK-JN
1330 WTRC-JN		93.5 WWWO-JN	106.5 WWBL-JN
1340 WTRC-JN		93.7 WQKC-JN	107.1 WBNI-JN
1350 WLOU-JN		94.3 WJNZ-JN	107.3 WRSW-JN
1370 WLTH-JN		WRRC-JN	

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Station Profile

A special feature about a unique station

Tony Fitzherbert
 356 Jackman Avenue
 Fairfield, CT 06430-1728



Good Day, Good Times

A construction permit was issued in the New Hampshire Broadcasting Corporation in December 1931. Rines built his studios in the Carpenter Hotel. The call WFEA was assigned, but any meaning to the call has been lost to posterity.

Thus, local radio came to the Queen City at 8:00pm that mid March, 1932 evening. The inaugural broadcast featured New Hampshire talent. Local tenor Eugene Clough sang "Old New Hampshire" launching the two-hour-and-fifteen minute program followed by an hour of dance music from Felix Ferdinand and an organ recital relayed from the nearby Franklin Street Congregational Church. A message from a CBS staff announcer welcoming WFEA to the network rounded out the festivities.

In 1934, WFEA applied for a move to 1340 khz with 500 watts' power, which was granted. An increase to 1000 watts quickly followed.

Early WFEA programming included a Sunday afternoon children's show, "The Magic Circle", live from the lobby of the Carpenter Hotel, and Ken Mckenzize "The Singing Cowboy". In the spring of 1936, WFEA broadcast continuous news developments as the Merrimack River (and many other New England estuaries) overflowed, destroying the city's bridges, cutting Manchester in half. Early spring rains falling on many feet of snow in the North Country, sent ice flow laden currents thundering through the streets of many New England mill towns.

On October 30, 1938, WFEA aired the famous Orson Wells invasion from Mars which caused the Manchester Union Leader switchboard to be overwhelmed with calls about a Martian invasion in New Jersey.

WFEA owner Henry Rines died on March 12, 1939, and his wife sold WFEA to the Pittsburgh Sun Telegraph for \$150,000. WFEA would change hands no less than eleven times to date, a record for New Hampshire radio stations. The station also affiliated with the NBC Red Network, fed from WJZ, New York. And WFEA produced numerous local programs, including the predecessors to the DJ shows of the 1950's through the 1970's. These were called "Merry-Go-Round" and "Theme Factory". The WFEA house band "WFEA Trio" provided live music.

In January, 1940, WFEA applied for 5000 watts full time operation, which was granted. In 1941, with hundreds of other radio stations, in the famous "Moving Up Day", under the NARBA treaty, WFEA moved its 5000 watt signal to 1370 khz, its present dial location.

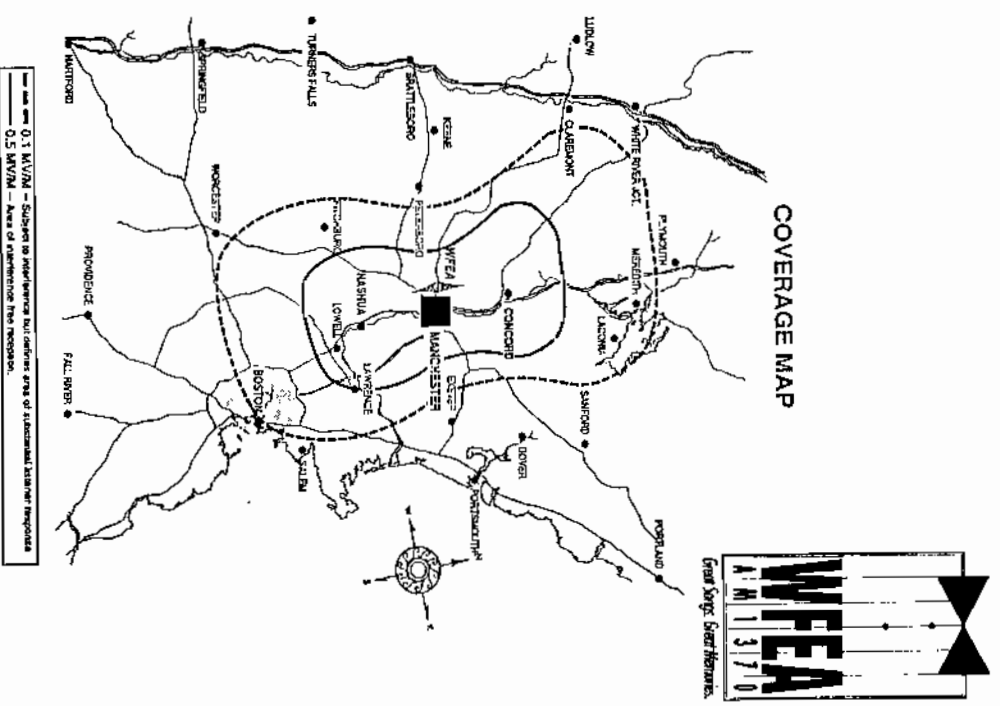
Also, in 1941, WFEA, and competitors WNDU and later, WKBR, experimented with FM. WFEA shared facilities with WMMUR atop Uncanoonoc Mountain. WFEA-FM, approved for 101.7 mhz, with 3400 watts, was never built, and the license deleted in 1945.

In the middle 1950's, WFEA was the first Manchester station to air rock and roll with disc jockey Palmer Payne on the afternoon "Payne's Platter Parade", and each night, Chuck O'Neil (later to become program director at WSMN-1590, Nashua) poured out rock tunes on the "Chuck Wagon Show". At this time, WFEA, the other Manchester radio stations, and the Union Leader applied for TV Channel 9, which was awarded to WMMUR.

In an odd 1954 incident, WFEA aired some comments not favorable to eccentric Union Leader owner William Loeb, who owned what is perhaps America's most politically conservative newspaper. Loeb immediately petitioned the FCC for hearings to revoke WFEA's license. After WFEA maintained that Mr. Loeb could request equal air time to answer WFEA's position, which he never did, the FCC dismissed Loeb's request for hearings a year later.

In the late 1950's, WFEA expanded its rock and roll format to compete with WKBR-1250. Through two decades, the stations battled it out to top the ratings. WKBR, with a more stable staff

COVERAGE MAP



• 5000 Watts - 24 Hours

• Operation Snowfall

and ownership, more money, and an exclusively Manchester orientation, predominated as the Queen City's top station, although WFEA's "Swingin' Guys" did give the WKBR "Good Guys" competition! Numerous DJs, including Eddie B. Baker, who became a "Big K" legend, started out as a WFEA "Swingin' Guy". WFEA kept the rock format for years and issued Top 40 record surveys in conjunction with WKBR-Keene and WEMF-Laconia. At one time the DJs were required to use air names similar to names in comic strips! Some air labels were Perrott Rideout, Granny Goose, Hap Hazard, Tom Foolery, Jason B. Good, and R.W. Churchill. They reported to Program Director Jeff Truehart (Rudy Nelson). WFEA DJ Johnny Tripp (Tom Coughlin) worked his way through New Hampshire College by playing top 40 records each night for five years!

WFEA DJ's quickly learned free meals were readily available by mentioning over the air that they "could use some ice cream" or other nourishment. The radio groupies would arrive, armed with the requested goodies, running all over the station. Management ended this practice quickly.

On June 28, 1976, WFEA began 24 hour operation. Ocean Front Properties paid \$500,000 for WFEA, and rock was dropped for a middle of the road format. And in 1979, WFEA hired New Hampshire's first female DJ. Women on the air, aside from news positions, were rare at that time. WFEA moved its studios to the Merrimack transmitter location.

WFEA was purchased for \$1.45 million by the owners of top rated WZLD-FM, once WKBR-FM, in 1986, becoming a part of New Hampshire's second AM-FM combo. Portland - based Sunshine

Group planned to turn it into an AM stereo station, which never happened. In the 1980's WZLD had become New Hampshire's top station with its easy listening music and slogan "Unrock Delight".

Just before Christmas, 1986, WZLD and WFEA moved into their extremely unique home. Very modern quarters have been constructed on the top floor of the former Stark Picker Mill, built over 115 years ago as part of the Amoskeg Textile Mill complex. These mills were the center of the economy in Manchester. New Hampshire's largest city with a population of over 80,000. The Amoskeg Mills, the largest textile mills in the world, lined the Merrimack River rapids for over a mile and a half. The mills harnessed the power from the rapidly falling waters to drive the turbines in the mills. WFEA-WZLD occupied over 6700 square feet of the former mill. Most of the old complex today houses offices, condominiums, and light industry.

Saga Communications of Grosse Point, Michigan, bought WFEA-WZLD in 1990. WFEA went to its current nostalgic format as "Manchester's Original" and "more Great Songs and Great Memories". WZLD-95.7 mhz today is New Hampshire's top adult contemporary station.

WFEA-WZLD's appealing quarters features the original brick walls of the mill supported by solid oak beams. Its journey to this beautiful facility has gone from the Carpenter Hotel to several offices and the WFEA transmitter site. The Carpenter Hotel, once the focal point of Manchester society, is today a Catholic - run senior citizens' home. Live assisted WZLD occupies a control room, two production studios, and a news studio. The former home of the "Swingin' Guys" manager may input commercials and other items. Otherwise, "AM Only" satellite fed music with CBS News on the hour is automatically fed to the transmitter. WFEA is live assisted by Paul Belay during morning drive time, when local news and information supplement the music. WFEA News over the years has earned a number of awards. After 9:00am, the station goes on to Audisc. WFEA targets the 45 to 64 audience.

On Sundays, from 8:00 to 11:00, Joe Maltais hosts a French Canadian show, "The Franco - American Hour", as he has on WFEA and other area stations for over 45 years.

After 10:00pm, Bruce Williams' talk show is aired and, on Saturday and Sunday nights, David Essels' health show is heard. The station broadcasts 24 hours a day with no scheduled silent period.

WFEA's transmitter site, just east of Route 3 in Merrimack, is a prominent landmark as it features one of the most unusual towers anywhere. The directional array, consists of a 150 foot high guyed pipe and a 400 foot high diamond shaped Blaw-Knox tower. Unlike most guyed antennas, the Blaw-Knox model features tapered tops and bottoms, and a single level of guys supports the structure at the widest part of the diamond. According to old DX News material, only four Blaw-Knox towers were ever built. Two 800 foot plus models presently serve WLW-700 and WSM-650. WFEA uses the third, and the location of the fourth is unknown. The unused former WFEA studio building is still at the site. WFEA's signal mls east and west to protect WDEA-1370, Ellsworth, Maine, and WXXI-1370 (formerly WSAY), in Rochester, NY. Its north - south signal is readily heard by DX'ers in Canada, and along the east coast.

As the Queen City's oldest station, WFEA is indeed a part of the history and life of Manchester. It has been appreciated by Granite State residents for over sixty years.

-----The editor thanks Ton Kallechey, WZLD-WFEA Director of Programming and Operations for all of the material and historical information which he supplied for this Station Profile. Some information is from "Granite and Ether - a Chronicle of New Hampshire Broadcasting", written by Edward W > Brouder, Jr., a WZLD-WFEA staffer.

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USA

- ALABAMA, WQTT, 1500, Alabaster, f/d prepared card, coverage map, info and sticker in 2 weeks. V/s John Sides. (Lazarus-LA)
- ILLINOIS, WCGI, 1390, Chicago, QSL card, sticker, key chains, in 2 months. (Trelford-JA)
- INDIANA, WBRL, 1500, Indianapolis, f/d prepared card in 3 weeks. V/s Max, Turner CE. (Lazarus-LA)
- MASSACHUSETTS, WJIB, 740, Boston, "Sailboat" card in 31 days for mint stamp, not used. V/s Peter George. (Brooker-ON)
- MICHIGAN, WHND, 560, Monroe, "57 Chevy" QSL card with sticker, coverage map in 16 days for mint stamp. V/s Tom Gardull (who signed 1984 card from WAAM). (Brooker-ON)
- MISSISSIPPI, WMOX, 1010, Meridian, n/d personal letter with verite statement, map, sticker in 3 days. V/s Noel Adcock, Music Director. (Lazarus-LA)
- NORTH DAKOTA, KBMR, 1130, Bismark, confirmation with sticker in 15 days for mint stamp. V/s A. R. Anderson, CE. (Brooker-ON)
- NEW YORK, WGNV, 1200, Newburgh, letter in 28 days for mint stamp. V/s Shawn McGrath. (Brooker-ON)
- OKLAHOMA, KTOK, 1000, Oklahoma City, hand written letter, hat, stickers in 33 days. V/s Jeff Gullett. (Burns-OK)
- PENNSYLVANIA, KA2XAU, 1620, Richland, letter in 13 days for mint stamp. V/s Craig Baker. (Brooker-ON)
- PENNSYLVANIA, WBZY, 1200, New Castle, confirmation in 41 days for mint stamp. V/s Bill King. (Brooker-ON)
- PENNSYLVANIA, WDAS, 1480, Philadelphia, letter, coverage map, key chain and sticker in 46 days for mint stamp. V/s William Sullivan, CE. (Brooker-ON)
- SOUTH CAROLINA, WESC, 660, Greenville, letter, sticker, coverage map in 32 days for mint stamp. V/s Allen Powers, VP-GM. (Brooker-ON)
- TENNESSEE, WCRB, 640, Collierville, prepared card in 4 days after follow up. V/s Sunny Caldwell, GM. (Lazarus-LA)
- TENNESSEE, WDOD, 1310, Chattanooga, f/d prepared card, business card and map in 5 days after second follow-up. V/s S. Parks Hall, CE. (Lazarus-LA)
- TENNESSEE, WPLX, Germantown, n/d personal letter with verite statement, map, rate card and information in 5 days. V/s William Pollack, GM. (Lazarus-LA)
- TEXAS, KPBC, 770, Garland, n/d personal letter with verite statement, stickers and business card in two weeks. V/s W. C. Alexander, CE. (Lazarus-LA)
- TEXAS, KJSA, 550, San Antonio, n/d personal letter with verite statement, stickers, map, program schedule, and information in 5 weeks after follow up. V/s Eliza Sommeland, PD. (Lazarus-LA)
- WISCONSIN, WEAQ, 790, Eau Claire, QSL card with coverage map and history in 18 days for mint stamp. V/s James Casey, CE. (Brooker-ON)

OUTSIDE OF NORTH AMERICA

- COLOMBIA, HfAJ, 760, Barranquilla, letter returned by P.O. indicating WRTH address is not correct. (Trelford-JA)
- COLOMBIA, HfBH, 1020, Letter, Sticker. V/s Luis Alfredo Jemungia Perers. (Trelford-JA)
- COLOMBIA, HfJX, 770, Bogota, QSL card, letter, sticker. V/s Antonio Pardo Garcia, Garante de Produccion. (Trelford-JA)
- COLOMBIA, HfKH, 650, QSL card. (Trelford-JA)
- COLOMBIA, HfOP, 960, Barranquilla, Letter, sticker. (Trelford-JA)
- COSTA RICA, TIRN, 780, San Jose, letter, post cards, journal. (Trelford-JA)
- COSTA RICA, TIRN, 990, San Jose, letter, post card. V/s Iris Zanira Amado. (Trelford-JA)
- CUBA, CMFA, 1360, Camaguey, letter, map. (Trelford-JA)
- CUBA, CMCU, 1340, Cienfuegos, letter. (Trelford-JA)
- CUBA, CMDF, 1590, letter. V/s Rafael Perez. (Trelford-JA)
- CUBA, CMJV, 1520, Santiago de Cuba, letter. (Trelford-JA)

RADIO	660
	XERO

- CUBA, CMKC, 840, Santiago de Cuba letter. V/s Sergio Martinez Martinez. (Trelford-JA)
- CUBA, CMKS, 1170, Maisi, QSL card in 2 months. V/s Joel Garcia Rivas, Dir. (Trelford-JA)
- CUBA, CMKO, 1110, Holguin. Confirmation. (Trelford-JA)
- DOMINICAN REPUBLIC, HIED, 1420, Cotui, QSL in 7 months. V/s Maria Sanchez. (Trelford-JA)
- DOMINICAN REPUBLIC, HICV, 1240, Barahona, letter, bumper stickers. V/s Roberto Lama. (Trelford-JA)
- DOMINICAN REPUBLIC, HHDG, 1160, Santiago, letter, sticker. V/s Orlando Jerez. (Trelford-JA)
- DOMINICAN REPUBLIC, HHH, 920, Santo Domingo, letter, bumper sticker. (Trelford-JA)
- DOMINICAN REPUBLIC, HIED, 1420, Cotui, letter, post card V/s Dagberto Lopez Merguido, Dir. (Trelford-JA)
- DOMINICAN REPUBLIC, HfJB, 820, Santo Domingo, letter. V/s Radhames Castellanos. (Trelford-JA)
- DOMINICA, DBS, 595, Roseau, letter V/s Fred White. (Trelford-JA)
- GERMANY, Radio Free Europe, 1593, Holzkirchen, partial data card showing Holzkirchen transmitter station in 80 days. Mailed report to NY address but reply came from Munich. (Burnell-NP)
- MEXICO, XEBA, 820, Guadalajara, letter, bumper sticker. V/s Teresa Morales Romo. (Trelford-JA)
- MEXICO, XEQRV, 770, Veracruz, prepared card, business card, vinyl bag with emblem and calendar in 6 weeks. V/s Ruben Cacho Curtidor, Gerente General. (Lazarus-LA)
- MEXICO, XERF, 1570, Coahuila, card. (Trelford-JA)
- MEXICO, XEW, 900, Mexico City, letter, bumper sticker. V/s Miguel Barrientos Valdez. (Trelford-JA)
- MEXICO, XEX, 730, letter. (Trelford-JA)
- MEXICO, XEG, 1050, Monterrey, card. (Trelford-JA)
- NEVIS & ST. KITTS, Radio Paradise, 825, Charlestown, card. (Trelford-JA)
- PANAMA, HOXO, La Voz del Istmo, 760, Panama City, full data letter in 18 days after e-mail follow up to reports over many years. V/s Tim Roberts, HQJB engineer who is very open to DXers. (McVicar-EC)
- ROMANIA, Radio Romania, 1053, Iasi, 1152, Cluj, and 1179, Galben-Bacau, three full data cards but without the sites noted, 2 stickers, a SW schedule and a very friendly letter from F. Dochicun (?) in 122 days for four reports (including Bucuresti 855), a cassette with recordings of all four stations and 2 IRCs. (The Bucuresti report seems to have been lost, forgotten or ignored!) (Burnell-NP)
- RUSSIA, Radio Moscow, 1089, Krasnodar, full data card specifying site as Armavir, New Years card with note from Elena Provol'skaya, Letters Dept., and Voice of Ruesia schedules in 81 days. (Burnell-NP)
- TURKS AND CAICOS ISLANDS, Caribbean Christian Radio, 1020, f/d QSL card in 5 months. (Lazarus-LA)
- TURKS AND CAICOS ISLANDS, Caribbean Christian Radio, 1020, card, signed by J...K... (Trelford-JA) (Verite signer is Jerry Kifer-Ken)
- U.S. VIRGIN ISLANDS, WWVI, 1000, St. Thomas, Charlotte Amle, letter. V/s Nicky Russell. (Trelford-JA)

Thanks to all who wrote. Please tell me what your abbreviations mean. I speak English, Spanish and a bit of Hauser, but some of your shorthand is a bit tough to figure out! Thanks.

This month's contributors: Mike Brooker, Toronto, Ontario, Canada; Jean Burnell, Newfoundland, Canada; Mark Burns, Terre Haute, Indiana; Henry Lazarus, New Orleans, Louisiana; Rich McVicar, Quito, Ecuador; Don Trelford, St. Ann's Bay, Jamaica

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What a Time-saver - the Country Cross Reference

A complete list of counties, parishes, and similar political divisions in the U.S. and Canada. Two lists are included: *alphabetically by county, and by state*. Compiled by Bill Hale and designed and produced by Myrme and Jean Hehen. \$4.95 for members, \$8.95, non-member. Order from CCR from the NRC Publications Center, NY residents, please include sales tax.