

DX MONITOR

THE OFFICIAL
PUBLICATION
OF THE



INTERNATIONAL
RADIO CLUB
OF AMERICA

DEVOTED EXCLUSIVELY TO BROADCAST BAND DX'ING

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DX TESTS courtesy National Radio Club - Colorado CPC Machine - Thank You

APRIL 15th, 1991 WJ TZ-640, 640 RADIO WAY SUITE 286-B, BLOUNTVILLE, TN
37617 time 0430-0500 EST. Test will be tones, code ID's, this will be the
last portion of WJ TZ's POP test. Thanks Mitch Sandidge CE.

APRIL 22nd, 1991 WYRU-1160, BOX 711, RED SPRINGS, NC 28377 time 0540-0545
EST. Test is code ID's just before s/on at 0545. Thanks Richard Atwell.

CONVENTION: Anyone wishing to host the 1991 IRCA convention contact: Karl
Zuk for a bid form at 154 Old Post Road North, Croton, NY 10520.

FROM THE PUBLISHERS DESK: MIXED UP PAGES - Sorry about the mixed up pages
in issue 25. Just missed it. NEW BOX LOOP: Have the masters at hand and
will run them soon. Article is 10 pages long and I am now copying Mark
Connelly's article so this one will have to wait it's turn. ELECTION: I
hope all of you received your ballots in good order and use them. Geov
Parrish informed me that his campaign statement was missing from the rest
of them, I do not know what happened I copied what I received. While on
the subject of Geov Parrish I was very sad and sorry to read the item at
the beginning of Broadcasting Information. I would like to wish you all
the best Geov, as does the rest of the membership. LOOP PREAMP: I also
have on hand an article on loop preamps that I will copy soon. EDITOR
NEEDED: Need editor for Broadcasting Information check with Karl Zuk on
this item. Till next time, as Ernest would say Forward March.....73...

KM JY

MAGIC COUNTRY
AM 700 FM 104.9

JAMES STARGEL, Owner/Manager • P.O. Box 1740, Oldtown, ID 83822

BROADCASTING INFORMATION

Editor: Geov Parrish, P.O. Box 15164, Seattle, WA 98115-0164

Deadlines: every Saturday thru March 30 * compiled 3/17/91

It is with great regret that I must announce my resignation as editor of BI. This is rather unexpected and due to health & personal reasons; I'll be more than happy to work with whoever takes the column over, but I'm not going to be able to commit to deadlines and it seems most prudent to find someone else to handle the actual work of pulling the column together. My last column will be in two weeks, with the last of the weeklies. Sorry for the bad news, and thanks to the many people who've helped support BI during my tenure over the last few years.

GOING OFF THE AIR

call KHZ power/antenna state/city

WYOR 560	500/137	DA-1 TN BRENTWOOD was business news, silent again
WJML 1110	10000/	DA-D MI PETOSKY was AC // FM, now silent
KOYL 1310	1000/	ND-D TX ODESSA was Spanish, now silent
WPLY 1420	500/	ND-D WI PLYMOUTH was AC/ now silent, to be religion upon sale

GOING ON THE AIR

WJTO 730 1000/500 DA-2 ME BATH was silent, back on w/sat. oldies

NEW STATIONS

KRMW 700	50000/1000	DA-2 CO SILT app. denied for extension of time, this may be the oldest CP in the country - it was one of the first CPs granted on the newly broken-up clear channels at least ten yrs ago, and the FCC may finally now kill it
WJFG 890	500/	DA-D NY SOLVAY granted new xmtr location
WBYG 1030	5000/	DA-D IN UNION CITY applies for 330/ w ND-D
WONS 1030	1000/	ND-D KY PLEASURE RIDGE PARK app. denied for ext. of time, this one is probably dead
KXER 1060	1000/	ND-D CA TEMPLETON granted extension of time
WMLD 1160	10000/400	DA-2 GA EAST POINT wants CP to reinstate exp. pmt

CHANGES IN EXISTING FACILITIES

KPUP 540	10000/500	DA-2 CA CARMEL VALLEY granted 50000/500 w, DA-2
KWNK 670	1000/1000	DA-1 CA SIMI VALLEY granted 5000/1000 w, DA-1
WBOW 1230	1000/1000	ND IN TERRE HAUTE granted ext. for move to 640
WHRF 1520	250/	ND-D MD BEL AIR wants ext. of time for move to 830

CALL LETTER CHANGES

(\$ means change accompanies a station sale; * check for format info)

WBMX 640 MI Zeeland	WROR WIQN 1460 OH Phenix City now *	WPNX
KGLK 910 OK Miami	\$ KVIS WNRE 1540 OH Circleville	WNRJ
WMAK 980 KY London	\$ WBBE WCCZ 1550 FL New Smyrna Beach	WBBH
new 1240 MS Flowood	WZQA KDAY 1580 CA Santa Monica	* KBLA
WBIG 1330 SC Conway	\$ WPJS	(may not have changed yet)

FORMAT CHANGES

WDFZ 740 TN TULLAHOMA	was satellite rock oldies, now satellite country
WJAC 850 PA JOHNSTOWN	was rock oldies, to go country in April
KQEO 920 NM ALBUQUERQUE	was rock oldies, now news, talk
KAGI 930 OR GRANTS PASS	was AC, to be non-commercial news/tk upon sale
WIBG 1020 NJ OCEAN CITY	was travel info, now Spanish // WREY-1440-NJ
KGTO 1050 OK TULSA	was AC // FM, now satellite adult standards
WBTV 1060 MA NATICK	was brokered Spanish, now Spanish religion
WAMG 1130 TN GALLATIN	was rock oldies, now southern gospel
KLDI 1210 WY LARAMIE	was satellite country, now satellite rock oldies
2 KOFE 1240 ID ST. MARIES	was country, now news, talk

WLRQ 1350 FL COCOA was adult contemporary // FM, now all news
 WFTG 1400 KY LONDON was adult contemporary, now country // FM
 WLTG 1430 FL PANAMA CITY was contemporary Christian, now all news
 WFTQ 1440 MA WORCESTER was adult contemporary, now rock // FM
 WPNX 1460 AL PHENIX CITY was WIQN, black AC, now satellite country
 WOLF 1490 NY SYRACUSE was adult contemporary // WNYR-FM, now black
 WSSH 1510 MA BOSTON was AC // FM, now leased to Spanish broadcasters
 WVAC 1510 OH NORWALK was WLKR, news, talk, now AC, will add travelers
 info 50% of time from May-September
 WDCY 1520 GA DOUGLASVILLE was southern gospel, now country
 KAMX 1520 NM ALBUQUERQUE was rock // FM, now AC // FM "Mix 107.9"
 KBLA 1580 CA SANTA MONICA was KDAY, rap, to be business news upon sale

PROPOSED STATION SALES (* means check the format listings for more info)

KARV-610-AR, WUSQ-610-VA, KAGI-930-OR*, WLLI-930-VA, KCSY-1140-AK, WLDY-1340-WI, KRZV-1400-AZ, WCOX-1450-AL, KOKC-1490-OK, WRKU-1510-SC

STATION SALES THAT FAILED: WTGH-620-SC



Dominica Broadcasting Corporation

P.O. Box 1 • Victoria St. • Roseau
 Commonwealth of Dominica

Tel.: (809) 44-83282/4
 Cables: RADOM

DATE 18th April, 1990....

Mr. Randy Stewart.....

4225 W. LA CASA.....

SPRINGFIELD, MO 65802-5615

Dear Mr. Stewart.....

22 February, 1990

Many thanks for your letter dated
 with regards to Dominica Broadcasting Corporation reception
 report. Your reception report, agrees with our programme
 log, and you were infact listening to D.B.S. on 595 at
 the time you stated. It was very nice reading you report
 we have received signal report as far as New Zealand, and
 from West Germany, so while you are back at home, you
 should take a try once again, you might be lucky.
 This station came on the air with its first transmission
 on the 1st of November, 1971. We programme daily from
 5.30 a.m to 10.30 pm local time and 09.30 to 02.30 G.M.T.
 The Island of Dominica is mountainous, it is 289.5 sq
 miles and is located between latitude 15 degrees North
 and longitude 61 degrees West. Our MF. Transmitter is a
 HARRIS MW 10B..... with an out-put of 10 KW. Carrier,
 Impedence 50 ohms. Hight of mast 300ft. elevation 700ft.
 above sea level. STL. MARTI 100 watts. Main crops of the
 Island, are Coconut, Bananas, Grapefruit and Oranges.
 Hope the above menticned will prove useful, seventy threes
 and happy DX.

Sincerely,
 GEORGE JAMES
 SENIOR TECHNICIAN



**WESTERN
DX
ROUNDUP**

Nancy Hardy
2301 Pacific Ave.
Aberdeen, WA 98520

WDXR deadlines are Mondays -- April 1, April 8, April 22, May 13,
June 10, July 8 and August 12

REPORTERS FOR THIS ISSUE:

- (NH) Nancy Hardy-2301 Pacific Ave.-Aberdeen, WA 98520
FRG-7, Radio West loop
- (RJO) Rod O'Connor-P.O. Box 3488-Kodiak, AK 99615
- (RW) Robert Wien-1309 Dentwood Dr.-San Jose, CA 95118
GE Superadio, GE long-range portable, SM-2

- *****
- 800 CKOR BC, Penticton 3/11 0800 finally logged this call change ex-CKOK. Canadian satellite network news //CJVI-900, gave full list of stations on the "OR Network," then nice ID "You're on the OR Network," into Elvis Presley song. Heavy KGO-810 splash, faded to usual XEROK/KNKK. (RW-CA)
 - 980 KSWC UT, Richfield 3/11 0837 good with local spots on top, then C&W. (RW-CA)
 - 1020 (KTNQ) CA, Los Angeles 3/11 0514 totally off, back on RS at 0525 recheck. (RW-CA)
 - 1040 CKXY BC, Vancouver 3/11 0855 noted with apparent new NOS format, ex-rock. Continuous IDs even on top of hour as "Magic 104 AM" & "The new Magic 104 AM," local news on hour. Faded out under KOPY splash. Did they change calls??? (RW-CA)
 - 1260 (KOIT) CA, San Francisco 3/11 0809 totally off briefly, XEMM in strong o/u KGIL. (RW-CA)
 - 1340 KLKI WA, Anacortes 3/16 2157 local ads, 2200 ID into Mutual news. Fair o/u the jumble. Not heard too often here. (NH-WA)

DX TEST

- 640 (KTIB) LA, Thibodaux 3/11 tried for KTIB test but again no luck up here in Alaska. Only regulars KYUK/KFI. Tried 0200-0210 with KYUK-Bethel over KFI. KFI doing Desert Shield benefit from the Comedy Store and KYUK featuring "Iditarod Update" at 0205. Tried again 0300-0310--only KFI with Larry King. (RJO-AK)

UNIDS

- 1090 3/11 0523 unID TT good looping north. Suspect KING again. (RW-CA)
- 1340 3/12 2306+ Spanish talk & music looping east o/u jumble. 2324 ad for "Hospital Memorial." Heard again 3/15 2220. Not KWWW (oldies) or KTCR (CNN). (NH-WA)

Last week I began a new section for WDXR for changes to local stations. The idea was suggested by a member because when his locals had a change (format, network, etc) they could not be included in WDXR as they were not DX. So we will give this new section a try. If you have a comment about it, or a suggestion, just send me a note! I'll have to ask the CA reporters to mention in their report if a tip is a local, or write "Local Changes" by the tip. Reporters from WA, OR, BC or AB need not do that, as I know these areas "like the back of my hand," hi. ♥

IRCA Foreign Logs

Before the creation of the IRCA Foreign DX Reference, the IRCA published nine editions of the IRCA Foreign log. Each edition contained the actual tips that were reported to the DXWW sections during an entire year (2 years in Volume 9), recompiled and retyped in a book format. In addition, special features include: articles on foreign DXing (Vols. 6-9), utility lists (Vols. 7-8), shortwave parallels (Vols. 8-9) and BCB propagation (Vols. 6-8). IRCA archives still has Volumes 3, 4 and 6-9 of the IRCA Foreign Log available to all for \$2.50 each. Make checks out to Phil Bytheway and send them to: 9705 Mary N.W., Seattle, WA 98117



Central DX Roundup

Editor: **John C. Johnson**
979 Neptune Boulevard
Billings, Montana 59105-2129

FOR THE RECORD

Report in Eastern time. Deadlines: 4/13, 5/4, 6/1, 7/6, 8/10.
CDXR accepts reports via computer through Prodigy, my address: MPNN49A.

RIDING GAIN

- [RS-MO] = Randy Stewart, 4225 W. La Casa, Springfield, MO 65802-5615
Realistic TRF 12-656, 4' spiral loop.
- [JcJ-MT] = Your editor using an Icom IC-R71A with Radio West Loop.

DOWN THE DIAL

- 790 WWKY KY Louisville, 3/5 fair to good. 2150 w/ID "Traditional country music, pure and simple, here on AM Stereo 7-90, WWKY." New for me. [RS-MO]
- 840 KWPN NE West Point, 3/5 good in WHAS null. 2010 w/oldies music. ID "We're the station with fewer interruptions, Bright 108 FM, KWPN." Thought AM was daytime only? [RS-MO]
- 1020 KRAD OK Perry, 3/3 fair to poor mixing w/KDKA. 2156 ID mentioned "KRAD-AM" and "KJFK-FM 105.1" into NBC News at 2200. New for me. [RS-MO]
- 1190 WHMT TN Humbolt, TENTATIVE, 3/5 fair to good. Must have been the one from 2232-2305 with high school basketball tournament game between Union City and McNairy. Spots for Gibson County Co-Op and Humboldt Strawberry Bowl. Never gave ID, not even on hour! Once the game concluded they dropped like a stone, like someone pulled the plug! At best 420 watts (or 230 PSA). Listed as a daytimer. [RS-MO]
- 1210 KOKK SD Huron, 2/26 fair to poor. 2041 w/high school basketball game. [RS-MO]
- 1330 KLBO TX Monahans, 3/18 briefly good w/KWLO, KNOW, KWKW. 0300 fade up w/rock oldie and ID: "The best variety of music, AM 13-30 KLBO Monahans." Back to music, quickly lost to KWLO. New for me, TX#66. [JcJ-MT]
- 1420 WOC IA Davenport, 3/5 fair in mix. 1942 w/"You're hearing the Tom Davis Show on News-Talk AM 1420, WOC, Davenport." Sports call-in show. [RS-MO]
- 1540 KSGB TX Fort Worth, 3/5 nil to good. 1934-2000 w/SS pop music and SS DJ. Many Dallas/Ft. Worth mentions. Canned English ID at 2000 into preacher program. Noted another SS station mixing with them at times. [RS-MO]
- 1570 KLLA LA Leesville, TENTATIVE, 3/3 poor. 2310 caught tail end of sign off announcement, calling itself "...the only AM stereo station between Shreveport and Lake Charles..." Of the LA stations on 1570, this is the only one that seems to fit geographically, and is the only one listed as stereo. New for me. [RS-MO]
- 1590 KLLL TX Lubbock, 3/18 good, dominating (very rare). 0150 w/Larry King. 0200 ID by Larry King "This is the Larry King Show on KLLL Lubbock." Mutual News. Not needed. [JcJ-MT]

BEACONS

- 513 PP NE Omaha, 2/26 fair to poor. 2054 with repeated code IDs. [RS-MO]
- 522 ORC IA Orange City, 2/26 fair to good w/interference from TO-521 KS and UOC-524 IA. 2150 with repeated code IDs. [RS-MO]

25 YEARS AGO

April 2, 1966 issue of DX Monitor.....President Paul Kirkpatrick explained the DXWW editor mixup.....Gary Scrimgeour of La Jolla, CA received a verie from 1YZ-860 Rotorua....Discussions continued on the Swan Island issue.



OPEN MIKE

Those who dare to lead or teach must never cease to learn. We're almost to the end of the weeklies, so please note column deadlines above. If you have a computer and subscribe to Prodigy you can send your mail and CDXR reports to me at MPNN49A. 73, John.





Eastern DX Roundup

Ray Bauernhuber
141-12 243rd Street
Rosedale, NY 11422

DEADLINE: Friday's at my QTH for ALL winter issues

-
- (RB-NY) Ray Bauernhuber at home QTH w/SONY-2010 + 60' longwire & MFJ Active Antenna
- (MB-ON) Mike Brooker 99 Wychcrest Avenue, Toronto, ON, Canada M6G 3X8; Panasonic RF-2200 & Sony ICF-7600D
- (MH-NC) Mike Hardester P.O. Box 8159, Camp LeJeune, NC 28542-8159 R-70 + Radio West 18" ferrite loop.
- (SM-MA) Steven Miller 368 Quincy St., Apt.1, Boston, MA-02125-2400; Realistic TRF, GE Superadio, GE World Monitor w/Space Magnet-2 bi-coupled to TRF & Superadio; all radios separately grounded.
- (JDS-AL) J.D. Stephens 122 Brawley Drive, Owens Cross Roads, AL -35763; Panasonic RF-2600; RF-B300; Sony ICF-2001 + several wires.
-
- 530 CFJT PORT ERIE, BUFFALO 3/5 0203 FAIR w/MYL format; simulcasts w/710 CJRN; several IDs. (SM-MA)
- 550 WDEV VT, WATERBURY 3/3 0710 GOOD w/local nx, wx, ski reports. (SM-MA)
- 550 WAYR FL, ORANGE PARK 2/28 1754-1815 P-F w/QSB w/"USA Radio News" at 1755, ID as "This Is Your Channel of (blessings?), at 5-50 AM: WAYR, Orange Park." Into religious program centered on a book review. (MH-NC)
- 550 WSWA VA, HARRISONBURG 2/26 2033-2100 P-F w/QSB w/bkb tournament Results, frequent mentions of the "James Madison University Foundation"; local spot for "Town and Country Furniture." Returned to "Talk Net" at 2052. (MH-NC)
- 560 WQAM FL, MIAMI 2/24 1352-1424 FAIR w/oldies format; ID as "Cool Gold Means Good Time Rock & Roll on 5-60, WQAM, Miami-Fort Lauderdale." Promo for "Miami Heat Fast Break Get Away" contest and "Cool Gold Spotlight Weekend." (MH-NC)
- 610 WIOD FL, MIAMI 2/24 1445-1514 F-G w/Miami Hurricanes/Florida Gator baseball game. ID at ToH as "This Is News/Talk Radio 6-10, WIOD, Miami-Fort Lauderdale, In The Sunshine State." QSL, stickers and aerial photo received. (MH-NC)
- 640 WNNZ MA, SPRINGFIELD 3/7 0630 w/ID as "All News 64 WNNZ" w/CBS news; local nx. (SM-MA)
- 700 CHSJ ON, ST. JOHNS 3/7 0636 F-G w/sports report and ID as "Part Of What Makes St. Johns Great - CHSJ, Country 700." (SM-MA)
- 720 CHTN PEI, CHARLOTTETOWN 2/27 1734 FAIR new at this frequency (ex-1190) o/u 50,000 watt WGN. (SM-MA)
- 720 WGN IL, CHICAGO 2/28 2220 FAIR w/Chevy Beretta and "Designer Mart" furniture ads and IDs as "WGN Radio-720 AM" and "This is WGN, 720, Chicago." (RB-NY)
- 720 CHTN PEI, CHARLOTTETOWN 2/28 2230 POOR o/WGN w/ID as "720 CHTN" ...rock song and gone. (RB-NY)
- 730 CKAC QUEBEC, MONTREAL 2/27 1743 FAIR w/FF programs, mx. (SM-MA)
- 730 WFMC NC, GOLDSBORO 2/23 0637-0702 w/local spots, community calendar and ID as "The Call Letters of This Station are WFMC, 7-30 On The Radio, WFMC, Goldsboro-Smithfield." Slogans noted as "AM Stereo: WFMC" and "WFMC, Your Variety Country." (MH-NC)
- 750 WSB GA, ATLANTA 2/28 2235 STRONG w/ID as "AM 750-WSB"; promo for "WSB Rally For America" on 3/9; talk host Hosea Williams taking listeners' calls. (RB-NY)
- 820 WQSI MD, FREDERICK 2/26 0115 GOOD o/u WCCO (830) and local WHDH (850) QRM w/several IDs as "AM 820 Country, WQSI" and into an all night show. (SM-MA)

870 WHCU NY, ITHACA ID = "Ithaca's Sports Leader, WHCU" into MYL.
(SM-MA)

880 CKLQ MB, BRANDON 2/22 0640 F-G chewing up partially-nulled WCBS w/C&W mx, 0645 ID as "The Best Country On AM, 880, CKLQ"; promo for "Feedback" program with a special guest; Federal Grains and Oilseeds minister, Charlie Mayer. (MB-ON)

920 KDHL MN, FARIBAULT 2/25 0640 FAIR o/WOKY, WHJJ et al w/c&w mx, farm report and local (SUBzero) wx at 0642. (MB-ON)

970 WYNZ ME, PORTLAND 3/7 0722 w/wx, TC and ID as "Portland's #1 Choice For Oldies, WYNZ. Ex-WCSH. (SM-MA)

990 WALE RI, PROVIDENCE 3/6 0527 FAIR w/newstalk format; several IDs. (SM-MA)

1070 WKDR NY, PLATTSBURGH 2/25 1717 GOOD s/off w/AM, FM station IDs. (SM-MA)

1100 WHLI NY, HEMPSTEAD 2/25 1623 FAIR o/WWWE w/ID as "WHLI, Hempstead, Long Island." (SM-MA)

1100 WYKR VT, WELLS RIVER 2/25 1620 FAIR ex-1490 heard at s/off...only 200 watts! (SM-MA)

1120 WBIS CT, BRISTOL 2/23 2345 GOOD ex-1440 o/KMOX w/ID as "1120 Radio, WBIS" into oldies. (SM-MA)

1130 WCXI MI, DETROIT 2/27 1728 FAIR o/u WNEW (NY) w/c/w mx and promo for Detroit Pistons. Slogan = "WCXI AM Stereo Country." (SM-MA)

1160 WOBM NJ, LAKEWOOD TOWNSHIP 3/3 0049-0118 F-P (Yep-QSB!) signal w/c&w format; "Star Country" promos and ID at ToH as "It's One O'Clock At 11-60 AM; Star Country, WOBM AM, Lakewood." No local spots noted (New Jersey #1 and State #44 1/2 [tentative on Maine, hi!])!! (MH-NC)

1180 WJFJ RI, HOPE VALLEY 2/24 1714 FAIR o/u WHAM w/promos, wx and c/w tune before s/off. (SM-MA)

1190 WLIB NY, NEW YORK 2/25 1726 GOOD w/several IDs, black formatted mx and spot for sister station, WBLS. (SM-MA)

1200 WOAI TX, SAN ANTONIO 3/3 0258 FAIR in mix w/CPGO, WBZY w/promo for 10th annual San Antonio Home and Garden Show; legal ID at 0300 into CBS nx...lost to Ottawa by 0305 but still possible here despite proliferation of fulltime stations on 1200. This used to be a very easy catch not too long ago! (MB-ON)

1230 WENY NY, ELMIRA 2/28 0200 GOOD ID = "WENY 1230 Elmira, NY" into NBC nx. (SM-MA)

1230 WMOU NH, BERLIN 2/28 0207 GOOD w/wx and ID = "WMOU AM 1230-Berlin, NH, The Greatest Hits of All Time." (SM-MA)

1230 WLVA CT, HARTFORD 2/28 0215 FAIR ID = "The Best Music, Golden Oldies, WLVA, Hartford." Ex-WINF. (SM-MA)

1250 WTAE PA, PITTSBURGH 2/26 0158 FAIR w/ID into Mutual News and the Larry King Show. (SM-MA)

1260 WBNR NY, BEACON 2/26 0215 FAIR w/contest promo, ID and "The Song Of Broadway." (SM-MA)

1260 CIHI NB, FREDERICTON 2/26 0239 GOOD o/u WBNR w/ID as "CI-HI, Fredericton." (SM-MA)

1290 CJBK ON, LONDON w/ID as "The Most Music Allowed by Law, 1290, CJBK." A most interesting ID. (SM-MA)

1300 WAVZ CT, NEW HAVEN 2/26 0339 FAIR w/MYL and IDs. (SM-MA)

1310 WJLK NJ, ASBURY PARK 2/24 0200 GOOD ID at 0159 into AP Network News o/u WAVZ. (SM-MA)

1320 WWWT VT, RANDOLPH 2/24 0120 FAIR ex-WCUR; heard o/u WARA w/ID as "3WT AM 1320, Randolph, VT" into c/w; Satellite Radio Network News. (SM-MA)

1320 CJMR ON, MISSISSAUGA 2/28 2130 GOOD w/ID as "You're Listening To Great Oldies, CJMR, The Voice of The City" into oldies. (RB-NY)

1340 WMID NJ, ATLANTIC CITY 3/1 0433 GOOD ID = "1340 WMID, Atlantic City, NJ" o/u WNHC (CT). (SM-MA)

1340 WENT NY, GLOVERSVILLE 3/4 2227 GOOD ID = "1340 WENT, Gloversville, NY"; several ads. (SM-MA)

1340 WMID NJ, ATLANTIC CITY 3/1 0655 POOR w/celebrity birthdays, wx, MYL and ID as "It's 7 O'Clock at WMID" into nx. (RB-NY)

1350 WINY CT, PUTNAM 2/27 1231 GOOD w/AP Network nx, mx, station ID. (SM-MA)

1370 KTPA AR, PRESCOTT 2/25 2323 PEAKED STRONGLY w/sponsor list for Arkansas Razorbacks bkb; slogan = "Southwest Arkansas' Hog Caller - Super Country 105" (//FM). NRC log lists it as 65 watts night power; (JDS-AL)

1390 WDOT VT, BURLINGTON 3/1 0530 GOOD w/oldies format; ID = "WDOT, Your Oldies Network." (SM-MA)

1400 WIDE ME, BIDDLEFORD 2/27 1751 FAIR w/ID as "WIDE 1400, Biddleford, Maine", nx, wx, sports. (SM-MA)

1400 WHMP MA, NORTH HAMPTON 2/27 1807 GOOD complete sports report format w/emphasis on HS hockey and bkb. Definite ID heard. (SM-MA)

1420 WHK OH, CLEVELAND 2/26 2155-2207 FAIR w/Talk Net, local spots and promos before/after hour. ID as "You're Listening To Northeast Ohio's Only Source For All News, All Day: WHK, Cleveland, News and Business Radio, 14-20." and back to Talk Net at 2207. (MH-NC)

1420 WHK OH, CLEVELAND 2/28 2140 P-F in mess but definite ID as "WHK 1420", a Buick ad and lost. (RB-NY)

1440 WSSL SC, GREENVILLE 2/23 2300 occasionally noted with "WSSL, Whistle 100" IDs across hour without mention of WSSL. Noted w/dual ID on 2/23 at 2300: "...WSSL, Whistle 100...WSSL, Greenville." Country mx format. (MH-NC)

1440 WRRO OH, WARREN 2/28 2150 P-F w/national nx, promo for polka mx (Saturday's), several "WRRO" mentions and ID as "It's Solid Gold 1440, WRRO" into oldies. (RB-NY)

1510 WLAC TN, NASHVILLE 3/3 0525 FAIR w/several spots for household products including Aphrodisiacs for only \$19.95. (SM-MA)

1540 WPGR PA, PHILADELPHIA 3/2 1659 POOR heard just prior to s/off o/u WPTR. (SM-MA)

1570 WFEL MD, TOWSON 2/27 0900 FAIR ex-WTOW heard o/u WNSA (MA) with religious programs. (SM-MA)

1580 WLIJ TN, SHELBYVILLE 2/27 1640 FAIR w/an ABC Gulf update; AC mx and Paul Harvey with "The Other Side." (SM-MA)

1580 WVKO OH, COLUMBUS 2/21 0645 FAIR poking through CBJ and polka mx on nulled WAMJ w/Black mx, contest promo to win a CD player, listeners' calls ("Hello...WVKO"), gave Ohio lottery winning numbers at 0651. (MB-ON)

1590 WARV RI, WARWICK 2/23 1936 POOR faint but audible w/excessive QRM; heard several religious format programs w/f announcer. (SM-MA)

1590 WAKR OH, AKRON 3/2 0230 POOR faint but managed an ID and into a talk show. (SM-MA)

1590 WLIM NY, PATCHOGUE 3/7 0600 GOOD w/ABC nx; AM Stereo w/Big Band, 40s, & 50s mx. (SM-MA)

=====

TENTATIVES, unID's, TIS & DX TESTS

=====

640 WNNZ ??,?? 2/26 GOOD w/local nx, wx, sports...into Four Seasons unID song. HELP w/location (it's in Westfield, MA-ed). (SM-MA)

670 WWFE FL, MIAMI P-F TENTATIVE w/Spanish language format w/frequent (t) mentions of "WWFE" and "Miami." No definite ID. (MH-NC)

720 KJAI HI, ELEELE 2/25 0532 TENTATIVE DX TEST possible code. WGN almost inaudible until 0541. This would be my best if correct! Tentative report sent (Good Luck...I hope you get the QSL!-ed). (JDS-AL)

810 WCYK VA, CROZET 2/26 0001-0016 TENTATIVE FREQUENCY CHECK per IRCA list; high-pitched tone...no ID noted. (JDS-AL)

930 unID NH, ROCHESTER w/all news format. HELP on ID (WZNN-ed). (SM-MA)

1072.2 unID UNID 2/26 2130 tune-in to 2140 w/strong tones of varying cps. Tones noted on/off for short (5-10 seconds) periods of time. Covered WIBC-1070. Unable to loop; local? Silent from 2140-2145 tune-out. Nothing noted on rechecks remainder of the evening. (MH-NC)

8 1110 CKTY ON, SARNIA 2/25 1650 FAIR just heard ID o/u WBT...constant (t) QRM...TENTATIVE. (SM-MA)

1160 WSPW? 2/23 0538 FAIR unID; noted a few station IDs but none unID definite. ID'd as "AM 1160 WSPW (?). (You were hearing WSKW in Showhegan, Maine -ed). (SM-MA)

1510 WAHT PA, ANNVILLE-CLEONE 2/19 0019 FREQUENCY CHECK per IRCA list; 1 khz tone, beeped twice, voice ID at 0026. (JDS-AL)

1580 WLIM NY, PATCHOGUE 2/16 0445-0515 STRONG DX TEST w/many, many code IDs. (JDS-AL)

=====

QUIPS & QUOTES

=====


FROM: MIKE HARDESTER: This past week has seen some unusual reception on the bands. The entire past week has seen the longwave (NDB stations) band being almost "dead" with even "regular" stations non-existent. Today, 3 March, was unreal. I sat down this afternoon to do some DXing...almost NOTHING heard! Local Jacksonville stations were heard but stations "only" 25-30 miles away were not heard. Even using the BFO, not so much as a carrier detected. Replacing the loop battery didn't help; a random wire didn't help. The ONLY frequency I could barely hear was 15 MHz (on the SONY-2010) and that was only slightly audible. Must be one heckuva storm in progress!! I did note the FM stations, even up in Raleigh (120 or so miles away) were being heard at good levels however.

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COMMENTS

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A nice column this issue. I regret it didn't make the Anniversary Issue - the bulk of the reports arrived at my QTH too late to make the issue (increased postage, decreased service?). Nice to hear from Steven Miller again...keep 'em coming in Steve! A belated HAPPY ANNIVERSARY IRCA - may you live forever. Until next time, CONTINUED GOOD DX MY FRIENDS and 73 de Mr. B



COMMITTED TO COMMUNICATE CHRIST TO THE NATION:



801 kHz

1000 watts

Radio Rhema officially commenced transmission from Nelson on May 28th at 2.30 p.m. 1983. The Christchurch originated signal is linked to Rhema's Nelson studio via NZPO micro-wave circuits. The signal is then fed via NZPO land lines to the transmission site at Wakapuaka. There, it is re-transmitted between the hours of 6 a.m. and midnight by means of a CCA 1000 transmitter and 60 m aerial mast.

Radio Rhema permanently broadcasts from 3XG in Christchurch on 1503 kHz with a power of 2000 watts, and 2XG in Wellington on 1503 kHz with a power of 5000 watts.

The station began broadcasting on 11th November 1978 under a full warrant issued by the New Zealand Broadcasting Tribunal.

Head Office
P.O. Box 21 CHRISTCHURCH 1

Confirmation of Reception

Dear Mr. MARTIN

of Box 843 DRECON

We are pleased to confirm your reception of Radio Rhema 801 kHz at 2005-2200 (GMT)

on 12-2-86

Your report has been most appreciated, and we sincerely thank you for your interest.

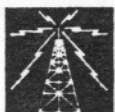
73's

J. Salby

RADIO RHEMA
BOX 801
NELSON

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Now in its 2nd edition, this 120 page book answers questions on how receivers work, how to make them work better, what audio filters and loop antennas will do for you, how to build a beverage and phasing unit, and much more. Only \$5.50 for IRCA members, \$6.50 for non-members (add \$2.50 for overseas airmail). Write: Phil Bytheway, 9705 Mary N.W., Seattle, WA 98117.



Western DX Forum

★★★★

Editor: Ric Heald • 8539 Bellamy Way • Sacramento, CA 95828 USA • (916) 386-8677

Temporary Editor: Bill Hardy • 2301 Pacific Ave. • Aberdeen, WA 98520
Revised deadlines: Saturdays 30 March, 6 April, 20 April, 11 May,
8 June, 6 July, 10 August

GUY KUDLEMYER, 1320 CITY VIEW #1, EUGENE, OR 97402-6712

(Continued from last issue-BH.) Here's an offer for anyone interested: I'm in possession of a Macintosh program that will compute Great Circle Bearings and distances from anywhere to all of the countries on earth. Anybody wishing me to print out a copy for them for their town need only send a #10 SASE and be patient for its return (I'm quite overwhelmed these days, but I WILL eventually get to it!). This is particularly useful for those in possession of a directional antenna who need to know which direction to point it to achieve maximum effect. (You'll need a compass, too, but I'm not giving those away this month. . .) Write me at my home address if you're interested.

RANDY STEWART, 4225 W. LA CASA, SPRINGFIELD, MO 65802-5615

Many thanks to Mike Hardester for finding the location of my unID "CQ" beacon on 517 kHz - it's in Kansas City, MO (Mike found it in the LWCA's Aero/Marine Beacon Guide). The IRCA Almanac got some good (inter)national coverage recently - Glenn Hauser plugged on his "World of Radio" program on shortwave WWCW 7520 kHz the weekend of 8-10 March. In case you missed it, Glenn commended the Almanac's "wealth of information. . . this book certainly has no peer." His only complaint was that the FM listings aren't as complete as the AM. (He also gave Ralph's address for orders, though I see Phil Bytheway's handling it now. . .oh well!) Anyway, a nice bit of promotion. By the way, are there any plans to market the Almanac beyond IRCA's "borders" - that is, could we perhaps sell it through some of the big SWL/ham mail-order houses like Gilfer, DX Radio Supply (which is all books anyway), Universal Shortwave, EEB, etc.? The NRC Log seems to be sold in every SWL catalog I receive, though I don't recall seeing our Almanac. . .wonder how big a "middle-man" chunk those outfits take off the top? Whatever the case, it might be a good way to generate extra revenue, possible new members, etc. Finally, I have what I hope is not a stupid question for any of our expert international DX'ers (J. Hall/P. Martin/Hall-Patch/Portzer/Eckman/Connelly et al.). . .the foreign loggings columns and the various lists of "target" stations that come out from time to time (like Bruce's recent one on foreign DX from WCNA) have always been pretty reliable indicators of which stations should be audible in North America under the right conditions. But there's something that rarely seems to be factored into it: directional antennas! One occasionally learns that, for instance, Norway 1314 is directional to the west, or that the old (pre-hurricane) Radio Antilles 930 was directional away from the U.S. mainland. . .but such info is rare (WRTH is no help either, at least on MW). How prevalent are directional AM's in other parts of the world, and how can DX'ers find out which foreign MW's are directional? Just a thought - comments welcome. Sorry to see Father Jack dropping out of IRCA. . .hope someday he'll get back into DX'ing MW. Out of space - 73.

MIKE SANBURN, P.O. BOX 1256, BELLFLOWER, CA 90706

Hello again. I was surprised by John Johnson's forum in the 9 March issue of DXM mentioning the recent contest sponsored by MTV, in which WSTT 730 Thomasville GA was the prize. As it turns out, the winner of this contest was Chris McCarron, 25, general manager (and notorious non-verifier) of local college radio station KCEB 1560. She was one of 250,000+ people who participated. She had sent in 330 postcards - and just got lucky. \$10,000 cash was also awarded in addition to the grand prize. Last I heard she was undecided on whether or not to keep the station; however, if she does, McCarron plans to change the format to

"something more eclectic than cry-a-minute country-western ballads" (her words). Who knows? WSTT might be a good prospect for a CPC test next season! Speaking of CPC tests (nice segue, huh?) the KUAI 720 test in February made it here loud and clear - at least the Morse code portions. Have recent veries from CPAC, KXAM, and the long sought after KBRE. Lately I've been trying to increase my collection of coverage maps and business cards. If anybody has either of the above from recently defunct stations such as KDB - WIL - KSO - WHN - KHQ etc. and would consider parting with them, drop me a postcard. Glad to hear KMAK is returning to the Fresno airwaves (even if it is FM), maybe they can also resurrect KEAP. Remember to support IRCA - DX happens! 73.

PETE TAYLOR, 2614 JACKSON ST., SAN FRANCISCO, CA 94115

KRCX Roseville will be on 650 kHz (ex 1110) about 1 April. 1110 transmitter is for sale, as per Broadcasting ad. New address is Box 417250 (5301 Madison Ave., #402), Sacramento, CA 95841 and new phone number is (916) 349-1100. Go get 'em, gang!

BILL HARDY, 2301 PACIFIC AVE., ABERDEEN, WA 98520

Great looking Anniversary Issue. Thanks to everyone who contributed to all the sections. If you didn't figure it out, the pages of WDXF were out of sequence. Pages 13 and 14 were reversed (I think I put them into the envelope reversed when I mailed them in!). Tim Hall's forum at the bottom of page 12 continues on page 14, George Elliott's forum on page 14 continues one page earlier on 13, and Bill Nittler's comments on page 13 conclude on page 15. Sorry to all! Randy, Ralph and Phil have been working on selling Almanacs to mail-order houses. Gilfer bought a few hundred Almanacs from the third and fourth editions. Typical mark-up in the book industry is 50% - that is, the retailer gets half! So the advantage to IRCA is two-fold: Cash up front, and club exposure. I'm glad to hear Glenn speak so highly of our book, especially with another major club avoiding promotion of anything related to IRCA. See page 12 of the 4 March NRC DX News, where it appears that a plug for the IRCA Mexican List was cut out - am I wrong? Speaking of which, the Mexican List is a fine piece of work, and congratulations to Tim Hall for all the work on it. For those who don't know, Tim did a massive amount of work on the Almanac, and much of its appearance and content are a direct result of Tim's highly efficient computer. The work went on and on when Tim wasn't involved, so when you compliment the Almanac, much of the credit goes to Tim. I think he's highly deserving of the Ted Vasilopoulos Award and I'm planning to vote for him. Ralph has worked out new publication dates, so see the revised WDXF deadlines. 73 and good DX.

*** **IRCA Mexican List, 2nd edition** ***

The IRCA Mexican List, 2nd edition, is now available from the IRCA Reprint Service! This comprehensive guide lists calls, frequencies, locations, powers, schedules, networks, slogans and formats of AM stations throughout Mexico. It contains a wealth of never-before-published information received direct from Mexico City, and has been updated by listener tips though September 15, 1990. AM radio in Mexico has undergone an extensive shuffle in the past year. If you DX Mexico (or want to), you need this publication.

The IRCA Mexican List is available in four convenient formats:

Volume I - Sorted by Frequency, State, City (24 pages)	US \$3.75	Canada \$4.75	Foreign \$6.00
Volume II - Sorted by State, City, Frequency (21 pages)	US \$3.25	Canada \$4.25	Foreign \$5.25
Volume III - Sorted by State, Frequency, City (22 pages)	US \$3.50	Canada \$4.50	Foreign \$5.50
Volume IV - Call Index (Call/State/City/Freq only) (6 pages)	US \$1.00	Canada \$1.25	Foreign \$1.50

Send your order to: IRCA Reprint Service, c/o Steve Ratzlaff, 295 Pettis Ave., Mountain View, CA 94041

Please be sure to specify the volume(s) desired.

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Now in its 2nd edition, this 120 page book answers questions on how receivers work, how to make them work better, what audio filters and loop antennas will do for you, how to build a beverage and phasing unit, and much more. Only \$5.50 for IRCA members, \$6.50 for non-members (add \$2.50 for overseas airmail). Write: Phil Bytheway, 9705 Mary N.W., Seattle, WA 98117.

EASTERN DX FORUM

Richard C. Evans
5104 N. Lovers Lane
Milwaukee, WI 53225

Reports from members living east of the Mississippi River
Deadlines: 3/30, 4/13, 5/4, 6/1, 7/6, 8/10

Mark Connelly, 30 William Road, Billerica, Massachusetts 01821-6079
Greetings. It's been a while since I've sent anything to this column. Luckily, my work schedule lightened up a bit in Feb. and I managed to get in some DXing, project experimentation, and answering backed-up correspondence. March/April look like "crunch time" again at work, so DXing may again slow down. My work-hours schedule keeps getting shifted around: sometimes that can be good (and other times bad) for DX. Good to see the troops coming home after their Desert Storm success: I wonder if any DXers were among them. The importance of radio was stressed in several TV news stories - one was about US & Saudi soldiers way out in the desert enjoying radio at night "because" (as one GI said) "you can hear many more stations". I doubt he was talking about FM! A "60 Minutes" piece on BBC's Caversham, UK Monitoring Station and its key role in intercepting Iraqi broadcasts and military comm's was of great interest. What a job: DXing for a living! On the Boston area broadcast scene, ethnic-mania sweeps the dials. Haitian Creole FF programs are on several stations on Sat. night. Spanish is now on WSSH-1510 most of the time; this is added to significant SS blocks on WBIV, WNTN, and WUNR. WSSH runs some sports in EE, always ID's in EE on the hour. Their 50kw day signal is a juggernaut here 9 miles from their towers; the still-respectable night signal sounds like 5 kw or a drastic pattern change (about 10 dB below days; some CJRD/WLAC off in the background). The SS is syndicated "R. Continental" stuff similar to (but not parallel to) WBIV-1080. Sometimes WSSH goes off at midnight local (but not always). Boston's 1510 signal has been a top performer into Europe and Africa both from the present Waltham site and from the previous Quincy QTH. Both sites are within 8 miles of the open Atlantic. WMEX-1150 (not to be confused w/'60s-era WMEX-1510) dumped Business Radio and is running simulcast MoR/AdCon with sister-station WMJX-106.7. These guys should go back to oldies. The 1150 signal is generally a "wimp" - good in only one direction: southeast over Boston, the South Shore, and Outer Cape (and onwards to E. Brazil). Two NH stations, WHEB-750 and WKBR-1250 are now silent. Nothing is audible on 750 days from Billerica except WLVG-740 splash. From W. Yarmouth days there is a weak mix of (I think) WSB (Ga) and CBGY (Nfld). ERC may have more daytime success with the Newfie out there in P-town. The absence of WHEB's big signal will help sunset TA/Brazil/Caribbean DX around that channel. In Billerica, 1250 is all WARE days; all WOCEB-1240 slop at my folks' house in W. Yarmouth. WMTR-NJ has previously been noted from Cape sites (e.g., Dennispot) a bit father from WOCEB. On another there, I'd like to see more TA DX activity by Boston-area DXers. Today is a far cry from the early '70s when this area was a hotbed of activity. In those days, frequent large DX meetings at Gordon Nelson's (and other)shacks kept DXers informed about rare catches and state-of-the-art DX techniques / technology. Regrettably those days are gone. The DX is still there to be heard - let's get it! 73 for now.

Steve D. Miller, 368 Quincy Street, Apt. 1, Boston, Massachusetts 02125

Hello! everyone, how's DX? If this is in the club's 27th anniversary issue - lucky me (whew!) I begin by introducing myself. I'm 29 years old, employed as an ink mixer maker. I'm studying Business Management via correspondence school. I'm considering joining the Navy in a couple of months - because I'm not too old yet and given nationwide recession my chances of being laid off are greater. Anyway

12 I first joined this excellent club back in the fall of '79 and had I

EASTERN DX FORUM

Richard C. Evans
5104 N. Lovers Lane
Milwaukee, WI 53225

continued

re-newed my membership since then, I'd be in the club 12 years. Oh well, I'm going to rejoin come the first issue of the volume 28 publishing year. I'm probably one of the few members who still has their business card-sized membership card. (I probably still have mine from 1965--rce) I first started DXing AM BCB back in the spring of 1978. I used my mothers Realistic AM-FM clock radio to hear all that DX; since then I've used a RF-2600, 12-655 modified TRF, GE Superadio, GE World Monitor, the last 3 I still have. Since '78 I've heard 339 different stations, none verified, sorry guys...hi! Also I heard stations from 29 states from Boston and 7 Canadian provinces. I love DXing the GYers. As soon as I can, I'm gonna move to the northeastern part of Mass. to set up an elaborate DX listening post, complete with beverages, loops; lotsa high elevation. In just 2 years the NRC will be 60 years old, and come Labor Day then, I plan to be at that convention, as well as IRCA's 30th in '94. I hope you all read the article on DXWW West editor Pat Martin by the club prez - Karl Zuk in the Jan. 91 issue of Monitoring Times. Eventually, I'm gonna start verifying domestic, international stations heard. I love pennants, anyone wanna sell me theirs? Happy 27th anniversary IRCA! (to be continued next week)

Rick Evans, P. O. Box 21883, Milwaukee, Wisconsin 53221

It's late, and probably the guy downstairs is wishing I'd quit typing. (It's almost midnight.) Last week, I mentioned an apartment we liked near work. After waiting a week for them to return repeated phone calls, we did some more looking and stumbled onto a house we both liked. We put in an offer and had it accepted the same day (the current owner has already bought a replacement house and had a prior offer fall thru for lack of financing so he's in a bind, hi.) Good location, apprently good price, a back yard where I can put out a "long" short wire (or short long wire, hi). The only drawback is aluminum siding but I've lived with that before. For those who are familiar with the area, it's on 26th Street near Carpenter (between Layton and Edgerton). No DX done this week--too much work and too little time. Must close. 73.

*** IRCA AM-FM ALMANAC, 5th Edition 1991 ***

The fifth edition of the IRCA AM-FM Almanac is now available! This 240 page book is a must have cross reference for the serious AM DXer. Within it you will find the current frequency check list, affiliates for news and talk show networks, syndicated music and religious programs, AM-FM simulcasts, station slogans, broadcasting in Canada, AM stereo, sports networks, utility stations and many articles on AM broadcasting. In addition, Volume V contains a section focusing on AM band foreign DXing (including a compressed IRCA Foreign DX Reference). Each list is in frequency order and many include the FM frequencies as well as the AM (great for FM DXers).

The IRCA AM-FM Almanac is available in large comb bound or loose leaf (please state preference when ordering). Post-publication prices are:

IRCA member: US - \$13.00 Canada - \$14.00 Overseas Sea Mail - \$14.00 Overseas Air-Mail - \$17.00
non-members: US - \$15.00 Canada - \$16.00 Overseas Sea Mail - \$16.00 Overseas Air-Mail - \$19.00

The IRCA AM-FM Almanac is available from: Phil Bytheway, 9705 Mary NW, Seattle, WA 98117.

*** IRCA Foreign Logs ***

Before the creation of the IRCA Foreign DX Reference, the IRCA published nine editions of the IRCA Foreign log. Each edition contained the actual tips that were reported to the DXWW sections during an entire year (2 years in Volume 9), recompiled and retyped in a book format. In addition, special features include: articles on foreign DXing (Vols. 6-9), utility lists (Vols. 7-8), shortwave parallels (Vols. 8-9) and BCB propagation (Vols. 6-8). IRCA archives still has Volumes 3, 4 and 6-9 of the IRCA Foreign Log available to all for \$2.50 each. Make checks out to Phil Bytheway and send them to: 9705 Mary N.W., Seattle, WA 98117

- 3. higher gain option (extra amplification stage) for low-signal level work such as groundwave from rural locales, auroral DX, TA DX pre-sunset, TP DX post-sunrise, and DX using short antennae (or the output of a phasing system)
- 4. broadband amplification function (using a modified function switch and an impedance transformer)

Documentation has been organized to track that of MWT-1 when possible. This allows the builder / DXer to make quick comparisons between the two units.

Organization of article

(Main article: standard MWT-2)

Table 1: MWT-2 Controls and Input / Output Connectors

Table 2: S1 Bandswitch Settings Chart

text: Building the MWT-2 Tuner

text: Operating the MWT-2

Mode (1): direct feed of antenna to receiver

Mode (2): passive tuning

Mode (3): simple (non-regen.) active tuning

Mode (4): regenerative active tuning

Figure 1A: MWT-2 system schematic

Figure 1B: S1 bandswitch schematic

Figure 2: (M1) RFE-C regenerative front-end card schematic

Figure 3: (M1) RFE-C regenerative front-end card assembly

Table 3: MWT-2 hole-drilling list

Table 4: "upper level" parts list

Table 5: (M1) RFE-C regenerative front-end card parts list

Table 6: small hardware parts list

Table 7: wiring / component connections

Table 8: control orientation conventions

(Appendix: options for the MWT-2)

text: Option 1 = frequency range extension

Table 9: S1 frequency ranges (Option 1)

text: Option 2 = regeneration vernier pot.

text: Option 3 = higher gain

Table 10: (A1) BBA-C broadband amplifier card parts list

text: Option 4 = broadband amplification function

Table 11: holes added to implement options

text: supplementary articles and publications

Figure 4: 12-position S1 bandswitch with added J7 external-coil jack

Figure 5: (A1) BBA-C broadband amplifier card schematic

Figure 6: (A1) BBA-C broadband amplifier card assembly

Figure 7: Option 4 transformer card assembly

Figure 8: MWT-2 system schematic with Options 1, 2, 3, & 4 installed

Table 1: MWT-2 Controls and Input / Output Connectors

<u>Controls</u>		
<u>location</u>	<u>designation</u>	<u>operational description</u>
left side	R1	input attenuator pot
top	C1	main tuning capacitor
top	R2	regeneration control pot
top	S1	bandswitch
top	S2	function switch
top	S3	antenna length (coupling) switch
top	S4	input mode switch

Input / Output Connectors

<u>location</u>	<u>designation</u>	<u>operational description / connector type</u>	
left side	J1	RF source input	BNC jack
left side	J2	wire antenna input	banana jack
left side	J3	earth ground input	banana jack
right side	J4	RF output	BNC jack
right side	J5	B+ in	phono jack
right side	J6	9V battery holder	Keystone 1290

Table 2: S1 Bandswitch Settings Chart

(Ranges are usually a bit greater than those shown.)

S1 Position #	S1 Knob Pointer "o'clock"	Min. Freq. kHz	Max. Freq. kHz	Tank Inductor Values			
				"Main" L #	uH	"Tap" L #	uH
=	=====	====	====	===	====	===	====
1	9:30	130	187	L1	4700	L7	1000
2	10:30	187	280	L2	2200	L8	470
3	11:30	405	590	L3	470	L9	100
4	12:30	590	870	L4	220	L10	47
5	1:30	870	1280	L5	100	L11	22
6	2:30	1280	1900	L6	47	L12	10

Building the MWT-2 Tuner

The documentation (schematics, assembly drawings, parts lists, hole lists, etc.) serves as the starting point. The following procedure should serve as an outline for the builder.

1. Gather all necessary parts (see Tables 4, 5, 6). Prepare work area with appropriate tools.

2. Drill out chassis box, in accordance with Table 3.

3. Assemble RFE-C front-end card per Figures 2 & 3 and Table 5. 0.5 inch spacers are mounted at each of the 4 corner holes. Set the completed RFE-C aside temporarily.

4. Mount 0.5" spacers for vernier knob, tap two 6-32 mounting holes in C1, mount C1, then install vernier knob. See Micro-MWDX-4A article to see how this is done. Consult hole list. Holes 5 through 9 of Micro-MWDX-4A serve the same purpose as Holes 1 through 5 of MWT-2.

5. Install jacks, pots, and switches. Solder inductors onto S1 per Figure 1B and Table 2.

6. Mount RFE-C card inside chassis right side, per hole list (Table 3).

7. Install wiring and other components per Figure 1A and Tables 4, 6, & 7.

8. Install knobs per Table 4.

9. Connect phono plug P1 to jack J5 to permit power to go to the unit. Install 9V battery in J6.

10. Place labels near controls and jacks. Test the unit (use the "Operating the MWT-2" section of this article as a guide).

Operating the MWT-2

Before operating any of the four modes, connections to/from the MWT-2 must be made. The antenna or other signal source may be connected to J1 or J2. Earth ground should be connected to J3 if the cable to the receiver will be longer than 10' / 3 m. or if the receiver is not grounded. Earth ground may be an actual ground connection or a "dummy" ground provided by a spare long-wire antenna. A 9V battery or AC adapter should be connected to J6. The RF-output coaxial cable (to the receiver input) should be connected to J4.

Mode (1): direct feed of antenna to receiver

Set-up: The following controls are not used in Mode (1): C1, R2, S1, S3. Their positions are irrelevant. Set R1 initially to fully CCW (the switch on R1 takes the R1 // R4 attenuator out of the line). Set S2 to Bypass. Set S4 to "Float" unless an active antenna is being used - in that case, set S4 to "Power to Active Antenna".

Operate: With receiver on desired frequency, check that the wanted signal is of sufficient strength and has no spurious mixing signals or images from strong local stations. If spurs / images are present, adjust R1 until they go away. If the wanted station is now too weak, a different operating mode (2, 3, or 4) is suggested.

Mode (2): passive tuning

Set-up: R2 is not used in Mode (2). Its position is irrelevant. Set R1 initially to fully CCW. Set S1 for operating frequency range desired, in accordance with Table 2. Set S2 fully CCW = passive tuning position. Set S3 to up = "normal" length position. Set S4 to "Float" unless an active antenna is being used - in that case, set S4 to "Power to Active Antenna".

Operate: Adjust C1 for maximum strength of the desired-frequency station. If overloading-caused spurious responses QRM the desired signal when C1 is properly peaked, set S3 to middle = "long" and re-peak C1. If, after having done that, spurs still exist; adjust R1 to make the spurs go away. Setting S4 to left = "Terminate" position may also help (if it had been on "Float"). Slight re-peaking of C1 may then be necessary.

Mode (3): simple (non-regen.) active tuning

Set-up: Set R1 initially to fully CCW. Set R2 to fully CW. Set S1 for operating frequency range desired, in accordance with Table 2. Set S2 fully CW = active tuning position. Set S3 to up = "normal" length position (wire length greater than 10'/3 m.) or to down = "short" length position (antenna shorter than 10'). Set S4 to "Float" unless an active antenna is being used - in that case, set S4 to "Power to Active Antenna".

Operate: Adjust C1 for maximum strength of the desired-frequency station. If overloading-caused spurious responses QRM the desired signal when C1 is properly peaked, set S3 to the next longest position (e. g. to "long" if it had been on "normal") and re-peak C1. If, after having done that, spurs still exist; adjust R1 to make the spurs go away. Setting S4 to left = "Terminate" position may also help (if it had been on "Float"). Slight re-peaking of C1 may then be necessary.

Mode (4): regenerative active tuning

Perform all Mode (3) steps above. Bring R2 gradually CCW in small steps; after each step re-peak C1. An increase in signal level and tuning sharpness should be readily apparent. At the "regeneration threshold" the received audio gets muddy; beyond that threshold, oscillation occurs.

FIGURE 1A
SYSTEM SCHEMATIC

MWT-2 (WITHOUT OPTIONS)

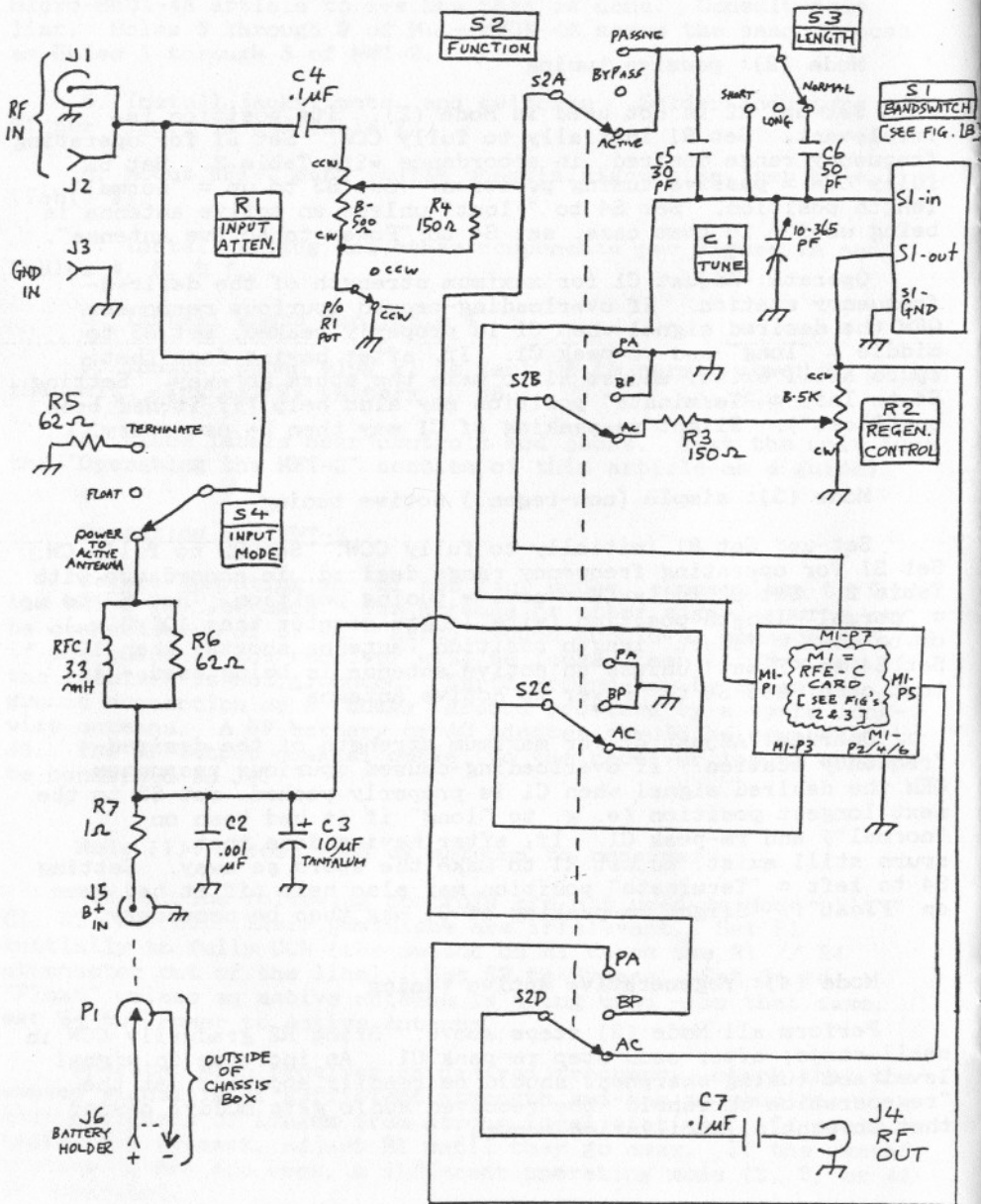
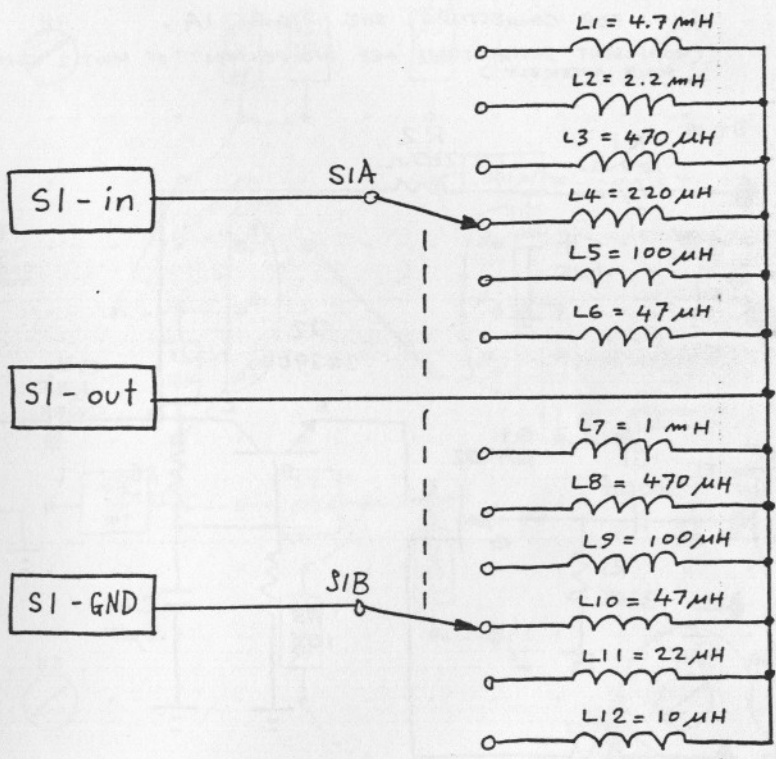


FIGURE 1B

STANDARD MWT-2 SI BANDSWITCH



FOR CONNECTIONS, SEE FIG. 1A & TABLE 7.
 FOR PARTS LIST, SEE TABLE 4.
 FOR FREQUENCY RANGES, SEE TABLE 2.

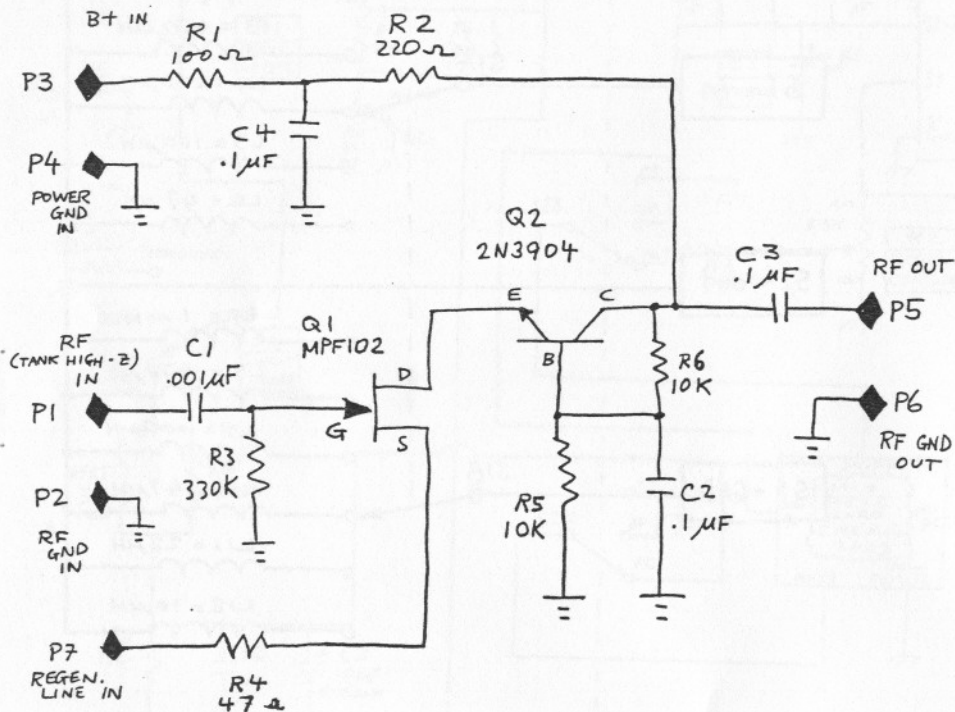
MWT-2 REGENERATIVE TUNER

FIGURE 2

RFE - C REGEN. FRONT-END CARD (MODIFIED KEN CORNELL DESIGN)

FOR CONNECTIONS, SEE FIGURE 1A.

(COMPONENT DESIGNATIONS ARE INDEPENDENT OF MWT-2 COMPONENTS IN MAIN ASSEMBLY)

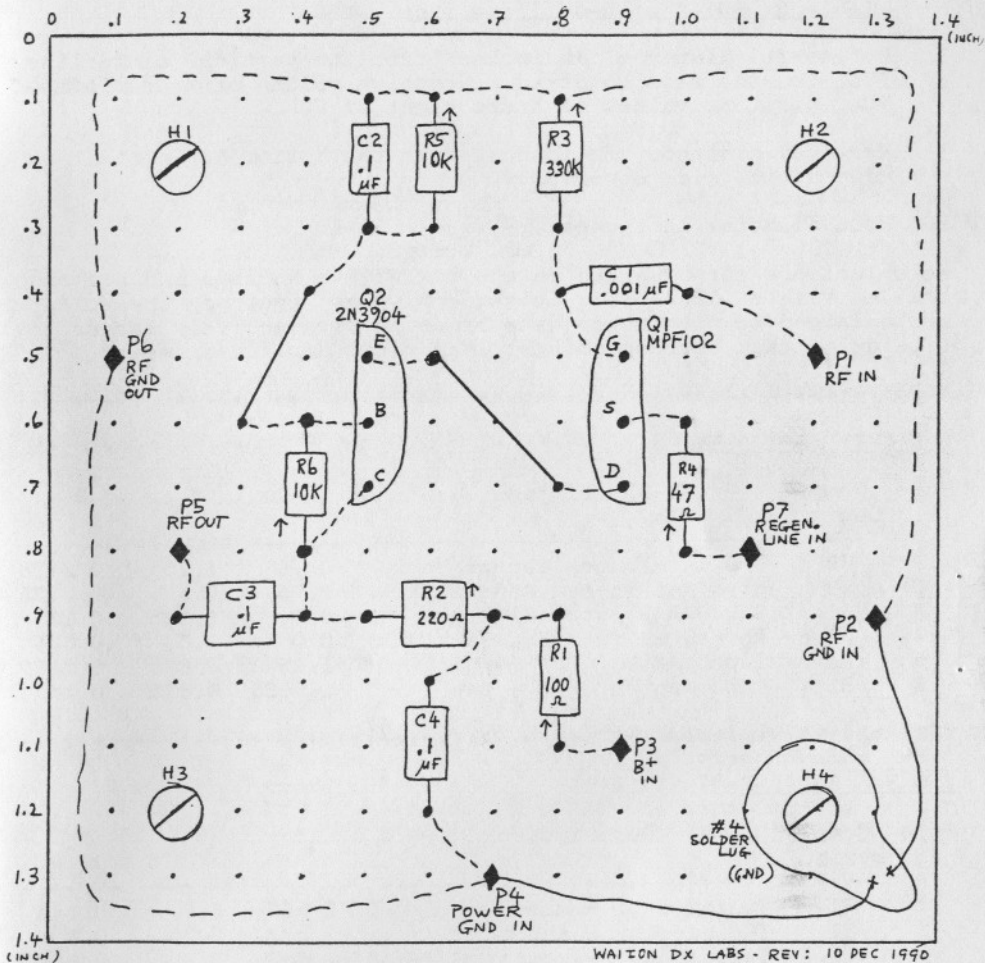


NOTES

\perp = CIRCUIT - BOARD GROUND

FOR ASSEMBLY DRAWING ("ROADMAP"), SEE FIGURE 3
FOR PARTS LIST, SEE TABLE 5.

THIS IS "M1" OF MWT-2.



NOTES

FOR SCHEMATIC : SEE FIGURE 2.

FOR PARTS LIST : SEE TABLE 5.

↑ = LONG-LEAD SIDE OF VERTICALLY-MOUNTED COMPONENT.

— = BUSS WIRE ON COMPONENT SIDE OF BOARD.

--- = BUSS WIRE ON SOLDER SIDE OF BOARD.

Table 3: MWT-2 hole-drilling list

X = Horizontal distance, in inches, from the vertical centerline (VCL) on the side observed. Negative values of X are left of VCL, positive values of X are right of VCL.

Y = Vertical distance, in inches, from the bottom horizontal edge of the side observed.

D = Hole diameter in inches.

Hole loci are first marked on the box with a scribe and are then drilled with a .125" bit. Subsequently, as required, the holes are enlarged to the proper size by using progressively larger bits up to that corresponding to the final desired diameter.

+++++

LEFT SIDE

Hole #	Comp. Desig.	Description	X	Y	D
1	J3	GND In - black banana jack	-0.75	1.25	0.3125
2	J2	Wire Ant. In-red banana jack	-0.75	0.5	0.3125
3	G1	GND H/W - internal lug	0.0	1.125	0.125
4	J1	RF source in - BNC jack	0.0	0.5	0.375
5	R1	Input Atten. Pot - shaft	1.25	0.625	0.3125
6	R1	Input Atten. Pot - tab	1.5625	0.625	0.144

+++++

TOP SIDE

Hole #	Comp. Desig.	Description	X	Y	D
1	C1	Tuning cap. - mounting H/W 1	-1.963	3.0	0.144
2	C1	Tuning cap. - shaft	-1.5	2.75	0.5
3	C1	Tuning cap. - mounting H/W 2	-1.037	3.0	0.144
4	-	C1's vernier knob - H/W 1	-2.14	2.125	0.125
5	-	C1's vernier knob - H/W 2	-0.86	2.125	0.125
6	R2	Regen. Control pot. - shaft	-1.875	0.625	0.3125
7	R2	Regen. Control pot. - tab	-1.5625	0.625	0.144
8	G2	GND H/W - internal lug	-1.25	1.125	0.125
9	S4	Input mode switch - shaft	-1.0	0.4375	0.25
10	S4	Input mode switch - tab	-0.75	0.4375	0.144
11	S3	Length switch - shaft	-0.25	2.25	0.25
12	S3	Length switch - tab	-0.25	2.0	0.125
13	S2	Function switch - shaft	0.0	0.875	0.375
14	S2	Function switch - tab	0.0	0.375	0.144
15	S1	Bandswitch - shaft	1.0	2.25	0.375
16	S1	Bandswitch - tab	1.5	2.25	0.144
17	G3	GND H/W - internal lug	1.625	3.25	0.125

Table 3 (continued)

+++++

R I G H T S I D E

Hole #	Comp. Desig.	Description	X	Y	D
1	J6	battery holder - H/W 1	-1.625	2.625	0.125
2	J6	battery holder - H/W 2	-1.625	1.75	0.125
3	G4	GND H/W - internal lug	0.0	1.125	0.125
4	J4	RF out - BNC jack	0.0	0.5	0.375
5	M1	Regen.Front End Card-H/W 3	0.625	1.375	0.125
6	M1	Regen.Front End Card-H/W 1	0.625	0.375	0.125
7	M1	Regen.Front End Card-H/W 4	1.625	1.375	0.125
8	M1	Regen.Front End Card-H/W 2	1.625	0.375	0.125
9	J5	B+ input - phono jack	1.125	2.125	0.25

+++++

Table 4: "upper level" parts list

Vendor codes:

- RS = Radio Shack / Many locations worldwide
- MOU = Mouser Electronics / 11433 Woodside Ave.
/ Santee, CA 92071
- RK = Radiokit / P. O. Box 973
/ Pelham, NH 03076

Item	Designator	Description/Value	Vendor	Vendor Stock #	QTY
1	-	chassis box	MOU	537-TF-779	1
2	M1	RFE-C regenerative front-end card (see Table 5)			1
3	(for C1)	vernier knob	MOU	45KN100	1
4	(for R1, R2)	knob	MOU	45KN013	2
5	(for S1, S2)	knob	RS	274-416	2
6	B1	9V alkaline battery	RS	23-553	1
7	C1	variable cap., 10-365pF	RK	BC-01	1
8	C2	capacitor, 0.001 uF	RS	272-126	1
9	C3	capacitor, 10uF tant.	MOU	581-10M35	1
10	C4, C7	capacitor, 0.1 uF	RS	272-109	2
11	C5	capacitor, 30 pF	MOU	ME-232-1000-030	1
12	C6	capacitor, 50 pF	MOU	ME-232-1500-050	1
13	J1, J4	BNC jack	RS	278-105	2
14	J2	red banana jack	RS	274-662	1
15	J3	black banana jack	RS	274-662	1
16	J5	phono jack	RS	274-346	1
17	J6	battery holder (Keystone 1290)	MOU	534-1290	1
18	L1	inductor, 4700 uH	MOU	ME434-1120-473K	1
19	L2	inductor, 2200 uH	MOU	ME434-1120-223K	1
20	L3, L8	inductor, 470 uH	MOU	43LR474	2
21	L4	inductor, 220 uH	MOU	43LR224	1
22	L5, L9	inductor, 100 uH	MOU	43LR104	2

continued next issue

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The IRCA is a non-profit organization devoted to the hobby of hearing distant stations on the AM Broadcast Band (510 - 1630 khz). **DX Monitor**, the official publication of the IRCA, is published 34 times a year, weekly from October to March, twice in September and April, and monthly from May to August. **DX Monitor** contains members' loggings, articles on radio stations, receiver reviews, technical articles, DX tips, and other material of interest to Broadcast Band DX hobbyists. IRCA is a member of ANARC, the Association of North American Radio Clubs.

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