

APRIL 10, 1993 - VOLUME 30 - NUMBER 29 - EDITION 987 - ISSN 0899 - 9732

**NEW MEMBERS:** D FRAKER, D HANSES. **REJOIN:** L FLEGLE. **RENEWALS:** C SMITH, R TOEBE, R GORDON, F WIDMANN, D WILLIAMS, L MEEK, L PODA, C HEALY, C SIMPSON. WELCOME TO NEW MEMBERS D FRAKER & D HANSES. THANK YOU ALL VERY MUCH.

**IN THIS ISSUE:** IRCA DX TEST INFO (only one test this time), BROADCASTING INFORMATION, DX WORLDWIDE II, DX WORLDWIDE WEST, WESTERN DX ROUNDUP, CENTRAL DX ROUNDUP, EASTERN DX ROUNDUP, DX RECORDS, ANOTHER EASTERN DX ROUNDUP, A NOTE FROM GLENN HAUSER WITH TIMES & FREQUENCIES FOR HIS **DX DAILY** PROGRAM, VERIFICATION SIGNERS, WESTERN DX FORUM, EASTERN DX FORUM, R-392 RECEIVER: ANOTHER LOOK, SUPER-MWDX-5 PHASING UNIT (9 pages of 30, I just cannot run all the pages this time).

**LATE:** THIS ISSUE OF DXM IS A LITTLE LATE. I HAD TO BE OUT OF TOWN OVER THE WEEKEND. I WILL DO BETTER NEXT TIME. WE GO TO MONTHLIES NEXT MONTH, A LITTLE TIME OFF FROM THE WEEKLIES. THANKS TO YOU REPORTERS & EDITORS.

**ELECTION:** PLEASE MARK YOUR BALLOTS AND MAIL THEM TO PHIL BYTHEWAY NOW...

**POSITIONS:** NEW MEMBER PACKET REVISION COMMITTEE. IF YOU ARE INTERESTED IN HELPING RE-DO THE NMP. PLEASE CONTACT PHIL BYTHEWAY.

## IRCA DX TEST BULLETIN

MONDAY, APRIL 19, 1993 - WVHI-1330, THIRD AND MAIN, EVANSVILLE, IN 47708 WILL CONDUCT A DX TEST FROM 1:00 - 4:00 AM EST. THE TEST WILL INCLUDE MORSE CODE, TONES, VOICE ID'S AND VARIOUS TYPES OF MUSIC. RECEPTION REPORTS MAY BE SENT TO: MR. RALPH TURPEN (KA90WT) - VICE PRESIDENT/CHIEF ENGINEER. (ARRANGED BY J.D. STEPHENS FOR IRCA CPC)

TESTS ARRANGED BY THE INTERNATIONAL RADIO CLUB OF AMERICA COURTESY PROGRAM COMMITTEE

**KAZM** 7  
**KAZM** 8  
**KAZM** 0  
**SEDONA, AZ.**

# BROADCASTING INFORMATION

EDITOR: ROBERT WIEN 1309 DENTWOOD DR SAN JOSE CA 95118

DEADLINES: 2nd & 4th Saturdays.

Compiled: 03/27/93

Much of this information was compiled from M Street Journal, DXM, and various other sources.

NEW STATION APPLICATIONS: NONE

NEW STATION GRANTS: NONE

CONSTRUCTION PERMIT ACTIVITY: NONE

FACILITY & PARAMETER APPLICATIONS:

NH. Concord	WNHA-1140	2500-D (CP)
NY. Canton	WNYS-750	1000/8 (CP)
OR. Oregon City	KFXX-1520	15000-N

FACILITY AND PARAMETER GRANTS:

HI. Honolulu	KUMU-1500	50000/50000DA
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CALL LETTER CHANGES:

CA. Riverbank	KPLA-770	becomes KCBC (drops KDEY request)
MD. Blue Springs	KBZR-1030	becomes KBEQ
MT. Bozeman	KBMN-1230	becomes KZLO
NY. Cornwall-On-Hudson	WARW-1170	becomes WRWD
OH. Cincinnati	WKRC-550	requests WLWA
Fairborn	WMX-1110	becomes WGNZ
OK. Oklahoma City	KPRW-1140	requests KVSP
Perry	KRAD-1020	becomes KASR
SC. Bamberg	WWBD-790	becomes WRIT
Dorchester	WVVO-910	becomes WIMZ
Walterboro	WRIT-1080	becomes WALD
VA. Lynchburg	WVZN-1170	becomes WKPA

FORMAT CHANGES:

AZ. Springerville	KRVZ-1400	was C&W/variety, now JSN C&W
AR. Paris	KCCL-1460	was country//FM, rptd. silent
CA. Alturas	KCNO-570	was country, talk, now all talk, adds FTP talk
Fresno	KBIF-900	was religion, adds SEN sports
Redding	KHTE-600	was oldies, now nx/sports/talk, calls itself "KNR" on air, CNN/NBC/SUN/WOR/SEN
Riverbank	KPLA-770	was nx/talk, now KCBC, religion
Sacramento	KSAC-1240	was sports, adds SEN sports
CO. Ft. Collins	KCOL-1410	was all nx, adds EFM talk
Montrose	KUBC-580	was AC, now JSN oldies
CT. Hartford	WDRC-1360	was stds., adds WOR talk (stds. overnight only)
West Hartford	WCCC-1290	was rock//FM, now IEN, DAN, MBS talk

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FORMAT CHANGES (CONT.):

FL. Jacksonville	WCRJ-1530	was southern gospel, rptd. silent
Wildwood	WHOF-640	was religion, adds FTP talk
ID. Hailey	KSKI-1340	was stds., now silent
IN. Vincennes	WAOV-1450	was country, now EFM, CBS, MBS talk
KY. Cadiz	WKDZ-1110	was nx/talk, now SMN Real C&W//FM
Campbellsville	WTCO-1450	was country//FM, adds JSN CD-C&W//FM
LA. Garyville	WCKW-1010	was classic rock//FM, now rock//KLOL AM's
New Iberia	KNIR-1360	was oldies, now Unis. stds.
MN. Minneapolis	KFAN-1130	was sports, adds SEN sports
MO. St. Louis	KUSA-550	was country, now Unis. CNN headline nx
MT. Bozeman	KEMN-1230	was AC, now KZLO, country
NE. Omaha	KOIL-1290	was oldies, now country//KXKT
NH. Franklin	WFTN-1240	was oldies, to be Super C&W//WSCY 4/93
NY. Ellenville	WELV-1370	was soft AC//FM, now talk
Kingston	WKNY-1490	was AC, adds IBN talk
NC. Fair Bluff	WJHB-1480	was country, now silent
Rocky Mount	WEED-1390	was AC, talk, now JSN C&W, talk, s. gspl
OH. Cleveland	WWWE-1100	was nx/talk, adds SEN sports
Dayton	WING-1410	was nx, adds talk (MBS Larry King, CBS)
Springfield	WELY-1600	was oldies, talk, now talk
OK. Ada	KADA-1230	was country, now country//FM
Lawton	KRRX-1050	was oldies, EFM talk, now SEN sports, EFM talk
Muskogee	KMUS-1380	was country//KMMY, now urban
Perry	KRAD-1020	was silent, now KASR, country
Tulsa	KOLL-1430	was talk, adds SEN sports
OR. Baker	KBKR-1490	was oldies//KLEB, adds EFM talk//KLEB
La Grande	KLEB-1450	was oldies, adds EFM talk
Milwaukie	KZRC-1010	was hard rock, adds sports talk 12-2PM
PA. Scranton	WTSS-1320	was sports, rptd. silent
SC. Bamberg	WWBD-790	was soft AC, now WRIT, black gospel
Charleston	WTMA-1250	was nx/talk, adds SEN sports
Columbia	WCOS-1400	was trad. C&W, now country//FM
Dorchester	WVVO-910	was silent, now WTMZ, talk
Georgetown	WGTN-1400	was soft AC//FM, now silent, to return w/new format in Apr. or May
Walterboro	WALD-1080	was black gospel, now SGC C&W gospel
TN. Farragut	WTNN-670	was new AC, adds talk
TX. Beaumont	KLVI-560	was talk, adds SEN sports
Dallas	KCMZ-1480	was stds., now KMRT, reg. Mexican
Houston	KPRC-950	was nx/talk, adds EFM talk //WSEV
UT. West Valley City	KRCQ-1550	was country, SS, now all-SS
VA. Lynchburg	WKPA-1170	was religion, now s. gospel//WKBA
WA. Goldendale	KLCK-1450	was country, now JSN country
Quincy	KWNC-1370	was AC, now JSN soft AC
Seattle	KKFX-1250	was urban, now silent, will become KKDZ, children's programming
WI. Port Washington	WGLB-1560	was nx/talk, now EZL//FM, to launch sep. AM format in about 1 month
BC. 100 Mile House	CKEX-840	was variety, now country//CKCQ
Quesnel	CKCQ-920	was AC, now country
Williams Lake	CKWL-570	was AC, now country//CKCQ
ON. Hamilton	CHML-900	was oldies, talk, now talk

Mike Hardester of Jacksonville, NC. passes on the following tip:

NC. Camp Lejeune      WWOF-1580 still noted silent as of 3/19

April Fool's day is just around the corner, and spring has sprung.  
Have a good April! 73's.

# DX WORLDWIDE II

Bruce Portzer

6546 19th Avenue N.E.

Seattle, WA 98115

greetings. Time for another column as the season winds down.

Last time I reported that the VOA was having difficulty answering its mail. They've apparently resolved the problem (although I still haven't gotten a QSL for Thailand-1575 after 5 months). To expedite your QSL requests, send them to Kim Elliott at VOA HQ in Washington. If that doesn't work, try John Vodenik at the Bethany relay site.

According to various ham publications, radio pioneer Harold Beverage died on January 27 at the age of 99. He was the inventor of the antenna that bears his name. The antenna was first developed during World War I to enhance communications between the US and Europe, and later used for trans-Atlantic telephone circuits in the 1920's (back when such communications took place on longwave). The antenna fell into obscurity until it was rediscovered by radio hobbyists in the late 1960's.

## TRANS-PACIFIC

AUSTRALIA: 2SM-1269 has adopted a "sophisticated" country format, making them the first metropolitan Aussie stn to play 100% country. 7EX & 7XT have been sold to the Tasmanian TAB. 7EX call as of 1/12 is 7TAB. The old freqs of 2NX-1341 & 2WL-1314 have been put to use by the TAB for racing & sporting results w/irregular sched. [DXA]

CHINA: Southeast Broadcasting Co started up 1/1 on 585 at 0355-0600 0955-1600 & 2155-0000 in Standard Chinese except 1400-1600 when they broadcast in a yet unidentified language. This is a commerial station. The address is 2 Putian Suzhou, Fujian Province, China, or PO Box 10051, Hong Kong [SW Echo]. 603 China Radio Int'l for Hong Kong & Macao started 10/1/92 2100-0700. Dongfeng PBS started 10/28 2100-0700. Shanghai PBS on 990 now 24hr. Yichang PBS is on 1215 [Arctic]. New AM radio dial in Nanjing as of 1/1: Nanjing News Station 1008, Economics Station 900, Traffic Station 801, Jiangsu PBS 702 & 1314, Jiangsu PBS economy oriented service 585 [A Cushen, DXA]. Per visit to China: Guangdong PBS is on 846 rather than 850 as in WRTH, (PBS2 outlet hrd on 852, Zhujiang EBS (Pearl River EBS) varies from 895 to 905 & is //801 927 1062, Guangdong Music Radio //1200, Guangdong Province (?) American Music Hour in EE & Cantonese at 1315 on 1292, Fujian 1 //1400 on 1381, Anhwei 1390//1395, Fujian 2 on 1465-1467. [Tony Magon, DXA]

FIJI: Several FBC outlets were damaged by Cyclone Kina. All stns were back on as of 1/8 except for Sigatoka on 927 & 1206. [DXA]

NEW ZEALAND: Access Radio Dunedin on 900 call is 4XS. 4XK Kingston "The Voice of the Mountains" now operates on 1575. [NZDXL] Latest RNZI schedule is 0400-0700 on 15120, 0700-1210 on 9700, 1650-1850 on 9675, 1850-2138 on 15120, 2139-0658 on 17770 (I mentioned this since RNZI often relays domestic programs and may be worth checking for // if you think you're hearing a NZ station. bp) Sports Round Up 909 Hawkes Bay is new, 800 watts & transmitter is at Pakowhai, shares tower w/2C [DXA]. Classic Gold Radio in Ranfurly moved to 729 on 1/12 & is now 1kw. Radio Rhema Hamilton on 855 has a new 2kw xr. [NZDXL]

PHILIPPINES: Stations noted during a recent visit but not in 93 WRTH: DXDN-792 Philippine BCing Service; DZWN7-891 Catholic stn in Alameos, Bangatan; DZNN7-963 Catholic stn in Vigan; DWDY-1107 in Minante Uno, Cauayan Isabela, s/on 2000; DWMC-1265 (instead of listed 1260); DWSS-1494 Ultrasonic BCing System Inc, metro Manila, 2100-1800. [Tony Magon, DXA]

RUSSIA: FEBC Russia will start a Korean service 2/1 on 783 (1200kw at Blagoveschensk, sked 1400-1900. [Arctic]

SOLOMON ISLANDS: The 1386 transmitter came back on the air 1/7 after being off due to power supply damage. [DXA]

VIETNAM: A new 200kw transmitter at Dong Hoy was inaugurated on 639 in January to serve central Vietnam 2145-1600 w/domestic relay of Hanoi. It has been heard in Japan [Arctic]

## TRANS ATLANTIC

ALBANIA: The 648 xr has been hrd on 657 [Euronews]. 2nd pgm of RTV Shqiptar is on 1458 //6160 0600-0800. [Arctic]

BOSNIA-HERCEGOVINA: The stn of the Bosnian Serbs, Studio S, has been hrd on 1395, making no mention of that freq, just 1242 & FM. [SCDX]

BULGARIA: The Kaliakra 2x500kw xr on 1125 will not come on the air in 1993. Negotiations w/VOA BBC Russia & Deutsche Welle are taking place to finish the project & then rent air time. [Arctic]

CZECHIA (aka Czech Republic): the old CS Federal Pgm is now called Radio Journal on 270/1233. [Arctic] Since 1/1 the Czech Radio strn on 270 has been putting out a stronger signal. [BDXC]

GERMANY: DT64-1044 has reduced from 250 to 150kw. SFB started using 1449 in Kopenicke w/250kw on 11/4. 801 & 520 are now used by R Aktuell. Foreign langs are used on 801 1800-2120. [Arctic] 1143 AFN Bremerhaven closed down 3/31 [Euronews]

LATVIA: Riga-945 150kw now used by VOA Europe 0400-1545 [Euronews]

LITHUANIA: Pgm 1 is now on 612 (ex-1557) from xrs in Vilnius & Viesintos. 1557 now relays Mayak pgrn. [BDXC]

LUXEMBOURG: Radio Luxembourg ceased English broadcasting 12/31 after 59 years of operation. 1440 is now in GG //15350 IDing as "Der Oldie Station" w/whits of the 50's 60's & 70's. 234 is //6090 w/FF service. [Media Network & Arctic]

MALTA: Voice of the Mediterranean can be heard in English 0600-0700 on 1557/9765, and 1400-1500 on 11925 [WOR]

MONACO: TWR Summer schedule: Dutch 2015-2030 on 1467 (only Monday); English 0640-0820 on 9480 (Sundays until 0845), 2030-2130 on 1395 kHz (except Saturday & Sunday), 2200-2230 on 1467 (Sunday until 2300); French 0230-0300 on 216; German 0345-0415 on 1467/6230, 0730-0745 on 7160/9795 (Sundays until 0815), 1005-1020 on 7160/9795 (not on Sunday); 1330-1400 on 7160/9795, 1900-1930 on 1395 (via Albania? bp); 1930-2000 on 6230 (until 2015 on Sunday, Monday and Tuesday), 1930-2015 on 1467. [Benelux DX Club]

NETHERLANDS: The transmitters on 675 747 & 1251 can be hired by interested organizations. The Radio One transmitter on 747 will be leased to a commercial company for US\$3 million. [Media Network]

POLAND: The new transmitter of Polish Radio's First Program was formally started 12/16 at Raszyn. It had been testing since 10/26 on 225 kHz. [SCDX]

PORTUGAL: Lisbon-756, Canidelo-1575 & Azurara-1602 were taken out of service at the end of Nov 92. [Arctic]

RUSSIA: Deutsche Welle is being relayed part time on 1188 in St Petersburg & 702 in Moscow. [Arctic]

SOMALIA: R Hope started BC'ing in the Somali language from the US Embassy compound in Mogadishu. It is operated by a US Military unit from Fort Bragg, NC. [BDXC] "The Voice of the Unified Task Force" is hrd daily in Somali & English on 1480 & 7400. [Media Network via Arctic] (A news article in the Seattle Times in January said there were no radio or TV strns active in Somalia except for a "makeshift" strn operated by the U.S. military for an hour a day. This would imply the gov't owned R Mogadishu is (or was) off the air. bp)

SWEDEN: 1179 will start relaying the P3 pgrn at night due to budget cuts at R Sweden. [Arctic] the 600Kw xr on 1179 was damaged by fire in early March and will be out of service until further notice. A lower power reserve transmitter is in operation on 1179 with greatly reduced coverage. [Mediascan]

UNITED KINGDOM: Virgin Radio is to be launched April 30 from studios in Woking, Surrey with programs distributed by Satellite to 25 MW xrs around the UK. Original frequency lists showed 1215 & 1197 as main channels, supported by 729 1485 1521 et al. Virgin now plans to use only channels between 1197 & 1242, if approved by the authorities. Expect them on any frequency from 1197 to 1242 [BDXC/MWC] Virgin 1215 is now testing on 1215 kHz with music plus announcements as follows: "This is an engineering test transmission for Virgin 1215, the new national independent radio network, which launches officially on April 30th 1993. Virgin 1215 will be a 24 hour service playing the very best album rock and pop from the past 25 years. For more information on this new national network write to Virgin 1215, 1 Golden Square, London W1R 4DJ. From April 30th much more music on Virgin 1215." [Euronews]. Anglican & Catholic churches are planning to bid for one of the London-wide licenses later this year under the banner London Christian Radio [BDXC].

## PAN AMERICAN

ANGUILLA: Caribbean Beacon is on 700 ex-690 [Play-DX via Arctic]

BAHAMAS: Information from a recent visit to Nassau: ZNS1-1540 is 20kw highly directional to SSE, primarily used to serve the "out islands", little chance of much signal getting back to the US; ZNS2-1240 1kw local service mainly religious for Nassau, non-directional; ZNS3-810 10 kw in Freeport, directional, main lobe to N, often //1540 but also originates a lot of local pgrms. [Tom Bryant]

CAYMAN ISLANDS: R Cayman will probably discontinue 1205 & 1555 operation in July, will be replaced with 3 FM xrs. Why were there 2 AM xrs in the first place for such a small area? According to the station, before construction a survey showed ground conductivity was so poor that a single transmitter could not serve all 3 islands. Thus a local strn (1205) served the area around Georgetown, & the 1555 transmitter at Gun Bluff served the eastern edge of Grand Cayman, plus Cayman Brac & Little Cayman [Tom Bryant]

# wGNU

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COLOMBIA: R Urimia-820 is new, belongs to Todelar network. IJEP-860 now belongs to RCN. Ondas de Belen-1605v in Belen de Umbria is a pirate hrd irregularly in parts of S America. [Arctic]. R Calima-940 ex-1160, Caracol Caribe 960 & Ondas del Rio 1130 are off the air, R Eco-1160 ex 940, LV del Mar-1220 Barranquilla is new, R Lemas de Colombia-1310 Bucaramanga is new, R Bahia-1330 ex-1420, R Autentica-1420 Cartagena is new, R Metropolitana-1420 ex 1450, LV de Vichada-1100 ex Brisas del Orinoco [TRN]. Ondas del Rancheria in Barranco hrd in Venezuela on harmonic 2393 at 1030 (can't find them listed in 93 WRTH on or near any of the possible fundamental freqs. bp) [TRN]. R Catatumbo (nom 1150) hrd on 2350 (2nd harmonic of 1175) in Venezuela in December [TRN]

CUBA: CMCK-980 is 5kw. CMKO-1110 carries R Rebelde after R Angulo s/off. [Arctic]

ECUADOR: is on UTC-4 as of 11/28. [Arctic/BDXC]

GUATEMALA: R Tayajata, Santa Elena on 1520 is new. [Arctic]

MEXICO: "Sistema Radio Nuevo Leon", the state of Nuevo Leonradio is now active on 1510, announces 9 suns in the net, but the others are possibly FM. [Carl Huffaker]

PERU: is on UTC 4 as of 1/1, except for Puno & Cusco. [Arctic]

VENEZUELA: YVTP-1430 ex 1420 since mid-December. [Arctic]

CREDITS: Arctic Radio Club, DX Australia (DXA), New Zealand Radio DX League (NZDXL), Euronews (via Richard Eckman), British DX Club (BDXC, via Karl Zuko), Medium Wave Circle (MWC), The Radio News (TRN), others as noted. A special thanks to those of you who have sent in information from other clubs or from your own information and observations.



PAT MARTIN P.O. BOX 843 SEASIDE, OR 97138

## DX Worldwide - West

Time: UTC phone (503) 861-3185

DEADLINES: 4/12,5/3,5/31,6/21

We're getting out of the weekly schedule now so watch the deadlines. DX continues to be somewhat on the slow side. Some DU cx the past few days. 4QR-612 was armchair copy a couple AMs lately. On with reports:

### PAN-AMERICAN DX ROUNDUP

- 810 COLOMBIA, Bogota-HJCY Caracol 3/21 0305 Nice signal over KGO until 0315, ad string, news items, IDs as "Caracol" //5075(NP-AB)
- 850 COLOMBIA, Bogota-HJKC Radio Recuerdos 3/21 0253 coming in over KOA for about 20 minutes w/ezl mx Commercial at 0300 then ID as "Radio Recuerdos, La Original, La Poplar de Colombia" (NP-AB)
- 890 UNID, SS here with Tropical mx u/o Domestics at 0650 3/28, May have been the Colombian or Venezuelan. (PM-OR)
- 900 MEXICO, Mexico City-XEW-very strong on top of freq. with many "X-E-Double 00"IDs, at 0550 on 3/31. (PM-OR)
- 940 t MEXICO, Mexico City-XEQ?-Unid SS u/KFRE/KDEO at 0556 3/31, sounded like an XE call at 0559. (PM-OR)
- 1220 t MEXICO, Mexico City-XEB-poss. XEB here w/mx and SS ancr at 0603 3/31 (PM\_OR)

### THANKS TO THESE REPORTERS

- NP-AB NIGEL T J PIMBLETT-1146 QUEEN STREET-MEDICINE HAT, AB T1A 1B4  
KENWOOD R-5000, 1000' strand of Barb Wire running E/W
- PM-OR YOUR EDITOR  
DRAKE R8, HAMMARLUND SP-600-JX17,1500' E Term. Beverage  
Ground System



WESTERN  
DX  
ROUNDUP

Nancy Hardy  
2301 Pacific Ave.  
Aberdeen, WA 98520

DEADLINES FOR WDXR TIPS: Mon. April 12, Mon. May 3, Sat. May 29, Sat. June 19, Mon. Aug. 2, Mon. Aug. 23, Sat. Sept. 4. PLEASE USE EASTERN TIME.

REPORTERS FOR THIS ISSUE:

- (FA) Frank Aden-4096 Marcia Place-Boise, ID 83704  
(BH) Bill Hardy-2301 Pacific Ave.-Aberdeen, WA 98520-4527  
Ford car radio  
(LH) Leonard Hyde-1805 Whipple Drive-Blacksburg, VA 24060  
(GJ) Gary Jackson-7735 Center Pkwy.-Sacramento, CA 95823  
(PM) Patrick Martin-P.O. Box 843-Seaside, OR 97138  
Drake R8, SP-600 JX17, 1500' E. Bev. term., 1600' NNW Bev. term., 200' SW/NE wire term., Sanserino loop, radial ground system  
(bp) Bruce Portzer-6546 19th Ave. NE-Seattle, WA 98115  
Racal RA-17, Kiwa loop  
(MS) Mike Sanburn-P.O. Box 1256-Bellflower, CA 90707  
GE Superadio II  
(SW) Stan Weisbeck-411 E. Sinto #203-Spokane, WA 99202  
Sony ICF-2010, 1972 Realistic TRF portable, Select-A-Tenna loop  
(RW) Robert Wien-1309 Dentwood Dr.-San Jose, CA 95118  
GE Superadio, GE long-range portable, SM-2

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OF SPECIAL INTEREST

- 770 KCBC CA, Riverbank 3/15 0914 s/on at 0900 with KCBC ID, tuned out, later with BRN news. Call change, ex-KPLA. (RW-CA)  
+3/22 fair with relig. promos, USA net news at 2300 with ID "K-C-B-C, Riverbank-Sacramento-San Francisco," ex-KPLA. (PM-OR)  
+3/23 2106 a surprise atop KULL/CHQR with station promo, "KCBC (???) - Sacramento-San Francisco" ID, into Don McDonald Show on BRN. Ex-KPLA. (BH-WA)
- 790 KWSW CA, Eureka 3/15 0932 good after switch to day power at 0930 over KOQO/KABC, KROW-780 splash. Nostalgia music, ID "AM 790, KWSW," several local spots, PSA. Ex-KFLI. (RW-CA)  
+3/19 1036 ex-KFLI with spot for Volvo dealer in Eureka, "KWSW AM 790" ID's, MOR music. AM only // 910-KKSN. (PM)
- 1140 KXNO NV, North Las Vegas 3/22 0915-0923 strong in KRAK null with "98 point 5, KLUC" ID's, many local spots. Called station later in the day-has changed calls to XKNO, ex-KLUC. (RW)
- 1250 (KKFX) WA, Seattle 3/14 & 3/15 off air all day, called station and confirmed they had "gone dark" and wouldn't be back on. Station had been plagued by technical problems & highly erratic schedule for months. (bp-WA)
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- 530 WNNW611 CA, Martinez new TIS operated by Martinez Police Dept., 5225 Henrietta St., Martinez, CA 94553, on 24 hours a day. Gives numbers to call for fire, water leaks, etc., Emergency 911. Mentioned Martinez incorporated in 1876, that it is an historic community. Believe power is 10 watts. (GJ-CA)
- 540 ?KIEZ? CA, Carmel Valley 3/14 0500 heard light/MOR type music fade in during KOJY SP. Are these guys all night? Still needed here. (MS-CA)
- 550 KMVI HI, Waiuku 3/25 0245 "local like" 40db+ o/S9 with preamp off!! Splatter (ticks) down to TIS on 530, and on KSFO-560! Strongest heard in a while, with pop music & Hawaiian pops. (PM-OR)

- KBOW MT, Butte 3/13 2031 fair over NPR programming, KOAC I think. (SW-WA)
- 570 ?KLIF? TX, Dallas 3/22 possibly KLIF with "Talkradio" & "570" ID's during NBC Talknet, spot break at 0520. 0530 spot sounded like "...Ft. Worth, Dallas." 0531 KVI back on, then too much KVI-KISN QRM. Off eastern Beverage. (PM-OR)
- KISN UT, Salt Lake City 3/22 0510 fair on top of jumble with KVI off. "Music of the 60's, 70's and 80's, K-I-S-N." (PM-OR)
- 590 KSSA HI, Honolulu 3/13 0345 fair on top of jumble with "K-59" ID's, Anne Murray's "Snowbird." (PM-OR)
- 600 ?KNRS? CA, Redding 3/15 0909 think these are the calls, ex-KHTE. Numerous "Newsradio 600" ID's, CNN news, ID at 0909 "KNR news time is 6:09," local news. (RW-CA) (See next tip!-NH)
- KHTE CA, Redding still "K-H-T-E" as of 3/19 at 2149, ID into CNN Headline News at 2200. Apparently now CNN. (PM-OR)
- 620 KINK OR, Portland 3/15 0837 call change ex-KGW good in KCLQ null with local spot, talk about Oregonian newspaper, ID "KINK AM & FM." Another 3-letter call gone... (RW-CA)  
+3/22 0357 call change, ex-KGW, logged over KTAR. Back announcing jazz music. ID "KINK AM & FM," spot for "Kink" Karaoke for kids. Held previous call letters for 70 years. (MS-CA)
- 650 KMTI UT, Manti 3/21 0128 "24 hours a day, your country leader, KMTI 650." (SW-WA)
- 710 \*KIRO\* WA, Seattle 2/27 0425 testing with OC. (bp-WA)
- 760 (KFMB) CA, San Diego 3/22 0623 totally off, KRZN/CKQR mix. (RW)  
KRZN CO, Englewood 3/22 0627 good with ID "Memories are made, on KRZN..." (RW-CA)
- 790 KABC CA, Los Angeles 3/13 0305 the Ray Briem Show--doing his annual DX program. (MS-CA)
- 830 KNCO CA, Grass Valley MM 2/22 0100 "Newstalk 83" with Talknet. Heard for the first time while trying unsuccessfully for KBOA test. (SW-WA)
- WCCO MN, Minneapolis 2/27 0535 good with 60's pop tune o/u CKKY. Not heard very often these days. (bp-WA)
- KUYO WY, Evansville 2/24 0824 relig. programming, first time heard. (SW-WA)
- 860 KTRB CA, Modesto 3/22 0506 unusually great signal this morning through XEMO with music by Billy Ray Cyrus. ID/SID at 0513: "KTRB California's Country Superstation." (MS-CA)
- 880 ?KCAC? OR, Phoenix-Medford 3/23 0800 not sure of call letters in ID. Spanish programming. Last heard as KMFR but call to directory assistance indicated neither KCAC nor KMFR in Medford phone book. (SW-WA) (We have calls KTMT as currently being used by this station.--NH)
- 890 (KDXU) UT, St. George 3/22 0555 apparently no longer NSP, has MM SP again, totally off 3rd MM in a row. (RW-CA)
- 940 KIOA IA, Des Moines 3/2 0104 "All Oldies KIOA," only second time heard. (SW-WA)
- 972 KBBK ID, Rupert 3/15 1005 fair off frequency, with Mutual news, weather for valley. Slight splat from KBBT, off east Beverage. (PM-OR)
- 1000 \*KOMO\* WA, Seattle 3/21 0530 off with varying TT's, OC, ID, unID Larry King underneath looping east (either KCEO or KTKO?) (RW-CA)
- 1060 ?KAHU? HI, Honolulu 3/25 0230 presume the station u/o KPAY during auroral conditions with Hawaiian music. (PM-OR)
- 1170 (KLOK) CA, San Jose 3/20 2120-2125 totally off due to technical problems for 5 minutes, KCBQ in weak. (RW-CA)
- CKGY AB, Red Deer 3/20 2329 good on top with news promo "First on CKGY." (PM-OR)
- 1190 KEX OR, Portland 3/22 0559 noted NSP with talk show, MM SP was short-lived. (RW-CA)
- 1210 KEBR CA, Rocklin 3/8 "Family Radio" relig. programming. (SW-WA)
- 1230 KVAS OR, Astoria operating with reduced power, barely above jumble AN 3/10. (PM-OR)
- KQIK OR, Lakeview 3/10 0559:45 "KQIK Lakeview" ID. (PM-OR)
- 1240 KNRY CA, Monterey 3/12 with CBS news at 0005, ID "You are not



- tuned to KXDC-630, but you are tuned to KNPY Monterey." Interesting ID. (PM-OR)
- 1250 ?KDHI? CA, Twentynine Palms 2/27 0400 probably the one with "...AI" or "...HI" ID into CBS news weak in jumble. (bp-WA)
- WREN KS, Topeka 3/19 heard with cluster of spots, and ID "W-R-E-N Topeka" at 0359:55. (PM-OR)
- 1270 KAJO OR, Grants Pass 3/10 2010 weather for Medford, Ashland, and Grants Pass. (SW-WA)
- 1290 KHSL CA, Chico 3/24 0316 ID, "Pure Country 103.5 K-H-S-L," followed by song "When Country Came to Town." Ments of the Country Club at 0325, then snow warnings. Some lightning QRN this night. (MS-CA)
- 1310 KEIN MT, Great Falls 3/25 2106 "You're tuned to Keen 1310, Montana's first radio station." (SW-WA)
- 1340 KANR ID, Nampa 3/20 2320 with "All news radio, KANR." (PM-OR)
- KBBR OR, North Bend 3/23 now running Spanish programming, ID in English at 0200 "KBBR Coos Bay-North Bend" into net news in English. (PM-OR)
- KTCR WA, Kennewick 3/20 2309 spot for Kennewick jeweler, "K-T-C-R" ID, CNN news. (PM-OR)
- 1360 KPPO CA, San Diego 2/27 0436 good with nostalgia music, "AM 1360 K-P-O-P" ID's. (bp-WA)
- KKMO WA, Tacoma re RCW's comment in 3/13 DXM, I'm not 100% sure, but I think KKMO is off daily 0300-0900. Format seems to be all Spanish (had been odd mix of nostalgia, Spanish & Asian programs), with ID's as "doble Cah Emmeh Oh" & Radio Alegria. (bp-WA) (Bill was in Tacoma on Friday 2/19, and noted KKMO with local nostalgia show in English at 8:30am local time.--NH)
- 1370 KWNC WA, Quincy according to CE, station will soon be operating a few hours after LSS with reduced power of 39 watts. Will still go off somewhere between 1800-2100 PST, though. (PM)
- 1400 KBLX CA, Berkeley 3/18 2346 atop mess with ID given slowly then jazz/R&B instrumental. (MS-CA)
- KIXT CA, San Luis Obispo re JH-CA's "KKCB-1400" logging in 3/20 WDXR, calls are KIXT and not KKCB. They have been KIXT for over a year now. (RW-CA)
- KUKI CA, Ukiah 3/18 0030 "Continuous Country Hits on 1400 KUKI, Ukiah," spot, weathercast. (PM-OR)
- 1410 KCOL CO, Ft. Collins 3/22 0659:50 ID into news "All news all the time, your news source KCOL Ft. Collins." (PM-OR)
- KFMS NV, North Las Vegas 3/10 0030 "Today's hot country is on continuous country KFM 102," //FM. (SW-WA)
- 1470 KWSL IA, Sioux City 3/22 fair above jumble with AM-only // 910 kHz, ID at 0630 "K-W-S-L..." into Della Reese song. (PM)
- 1490 KRNR OR, Roseburg 3/18 fair with spots and "14-90 KRNR" ID at 0026. (PM-OR)
- KENE WA, Toppenish 3/21 0306 "The best hits of the 60's, 70's and 80's, KENE AM 1490" ID. (PM-OR)
- 1530 (KFBK) CA, Sacramento 3/21 0520 totally off on a SM. (RW-CA)
- 1560 WQEW NY, New York City 3/21 Julie London tune, 0301 "WQEW 1560" ID, o/u KNZR off eastern Beverage. (PM-OR)
- 1570 CHUB BC, Nanaimo 3/19 0403 mostly dominant with clear signal. Heard hockey scores, weather, spot mentioning Ottawa (bank?), music by Paul Simon and Dr. Hook. National weather at 0415 and spot for Royal Paving at 0419. Could get to be a regular feature here. (MS-CA)
- +3/22 0551 excellent, absolutely no fading. Local spots, "Nightshift" program. Not uncommon here, but never this strong (slopping KNZR-1560!!). (RW-CA)
- 1580 KCWW AZ, Tempe 3/11 0818 "1580 KCW" weak, mixing with unID Spanish station. (SW-WA)
- 1600 KWMX CO, Lakewood 3/18 fair with rock music "Denver's Mix 107.5" ID at 0352, full ID at 0358 as "KWMX-??? Lakewood-Denver," followed by "107.5" jingle. (PM-OR)
- 1610 TIS CA, Holbrook 3/22 0230 o/u Hammond TIS with agriculture info. (PM-OR)
- TIS CA, Pebble Beach 3/11 0635 fair on top of presumed 1PPP and 7RPH with emergency info. (PM-OR)

## LOCAL NEWS

840 KSWB OR, Seaside 3/11 on all day until about 0000 with non-stop C&W music, "KSWB Country" ID's. The last 2 or 3 hours of broadcast day they run EZL music, some C&W, comedy, etc. Also, now runs some Spanish programming Sun. nights about 2300, their "Spanish Hour." How long that will last who knows. Was off all day 3/22. Their phones have been disconnected (again). (PM-OR)

## DX TESTS

980 ?KGWA? OK, Enid 3/1 tent. heard some Morse code at 0330, but extremely weak and unable to confirm. (FA-ID)

1090 (KTNS) CA, Oakhurst 3/9 0300-0400 nothing heard for this DX test. Was it on? If so, I should have heard it. (FA-ID)

1150 (KWKY) IA, Des Moines 3/15 0100-0130 nothing heard of test under KGEM sloop (nulled to SE). (FA-ID)  
+3/15 0100-0130 tried, not heard, under KBAI/KIIS, mucho KLOK-1170 splash. (RW-CA)

1180 KKAR NE, Bellevue 3/15 0103 clearly heard under KOFI, with tones and Morse code IDs. (FA-ID)  
+3/15 0113 CPC test logged when Morse code ID's cut through the Spanish QRM. As is often the case, voice portion was unreadable. NE #4. (MS-CA)  
(KKAR)+3/15 0100-0130 tried, not heard. Way too much KLOK-1170 splash. (RW-CA)

1530 KPCR MO, Bowling Green 3/7 weakly heard Morse code ID's at 0103, 0203, and approx. 0208 during DX test. This was barely readable under KFBK. (FA-ID)

## HELP WITH UNIDS

720 Two of Bob Wien's 720 unIDs in the Anniversary Issue were probably the same station, WGCR, Pisgah Forest, NC. There is no C&W station listed on this channel, as I'm sure Bob knows, but WGCR does play C&W/Gospel mix. The 0730 unID COULD have been the MS station, but I doubt it: WGCR is only a little farther away, and has twice the power. WMXY-GA? I have never heard them with any other format than their "X-720 Hacksaw" UC format. WRZN-FL is exclusively mellow nostalgia programming. (LH-VA)

790 JH-CA's 790 unID with mentions of "Richmond" and Moses Lake in 3/20 WDXR, possibly KGMI Bellingham, WA? He gets WA stations down his way real good, and "Richmond" may have been a reference to Richmond, BC (suburb of Vancouver) maybe playing Moses Lake in high school BKB. (RW-CA)

790 Jim Hilliker's unID 3/5 2140 reported in 3/20 DXM is probably KJRB-WA not KGHL. KJRB was running H.S. basketball playoffs & Richland (which I think he heard as Richmond) and Moses Lake were two of the towns in the playoffs. (SW-WA) (Yes, Bill and I agree with KJRB as the most likely station.--NH)

1280 PM's unID in 3/13 DXM was probably KDOL which I heard in February on SRS with Spanish programming and Radio Latina ID's. (hp-WA)

## UNIDS

1230 3/10 station going into CBS news at 0600. (PM-OR)

1360 2/27 0420 unID Jim Bohannon show looping east under KRKK. Turning loop N-S produced only KPOP. Any ideas? (bp-WA)

Welcome to WDXR, Stan. We're all looking forward to meeting you in Billings! Yesterday they had an interesting radio on the QVC TV shopping channel. It was an AM & FM radio in the replica of an old gasoline pump. What I found interesting was that the show host said that one could hear "any AM or FM radio station" using it. If that were true, I'm sure everyone reading this would have ordered one, hi.

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JUNE 25 - 26 - 27, 1993 - BILLINGS, MONTANA - 1993 IRCA CONVENTION.  
See Central DX Roundup for details. BE THERE!!

# Central DX Roundup



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



## FOR THE RECORD

REPORT ALL TIMES AS EASTERN.

DEADLINES: 5/1, 5/29, 7/3, 7/31, 8/19, 9/4.

## RIDING GAIN

- [SA-MB] Shawn Axelrod, 30 Becontree Bay, Winnipeg, Manitoba R2N 2X9  
Icom IC-R70 with PLAM board and 4kHz filter, 4-foot box loop, 100' wire.
- [RTE-MO] Richard T. Eddie, 152 West Rose Avenue, St. Louis, MO 63119-4653  
Drake R8, Palomar loop.
- [JcJ-MT] Your editor using an Icom IC-R71A with a Radio West loop.

## SPECIAL INTEREST

- 1030 **WCTS** MN, Maplewood. EX-WMIN. 3/12 good. 2358 with Gospel music, weather report, TC, and ID "You're listening to the Bible Station, WCTS AM Maplewood, Minneapolis, St. Paul." New for me. [SA-MB]
- 1600 **KWMX** CO, Lakewood. EX-KRXY. 3/17 good. 0650 with lite rock/CHR music. Lots of "Mix 107 point 5" slogans. 0655 with "KWMX FM, AM Lakewood, Denver. A division of Jefferson.... Communications." New for me. [SA-MB]

## DOWN THE DIAL

- 660 **WFAN** NY, New York. 3/10. 0426-0434 with "Sports Radio WFAN." [RTE-MO]
- 690 **WTIX** LA, New Orleans. 3/14. 2316-2343 with "Request night on WTIX New Orleans' station of the stars." [RTE-MO]
- 710 **WOR** NY, New York. 3/10. 0245-0301. ID "Your first station for news all day, all night. WOR New York." [RTE-MO]
- 740 **KRMG** OK, Tulsa. 3/8. 0221-0231 ID "Your official weather station, 7-40 KRMG" [RTE-MO]
- 760 **WJR** MI, Detroit. 3/10 0446-0504 with J.C. McCarthy's "Focus." [RTE-MO]
- 770 **WABC** NY, New York. 3/10. 0436-0445. "WABC Fitness Feature." [RTE-MO]
- 790 **WRMS** IL, Beardstown. 3/4. 0240-0308. "Lite 94 WRMS. The station that plays the best music of four decades." [RTE-MO]
- 880 **WCBS** NY, New York. 3/12. 0348-0401. "Complete news coverage on WCBS. All day, all night." [RTE-MO]
- 930 **WTAD** IL, Quincy. 3/8. 1506-1535 with Larry King. [RTE-MO]
- 940 **WMIX** IL, Mt. Vernon. 3/8. 1548-1608 with Russ Limbaugh Show. [RTE-MO]
- 970 **WAVG** KY, Louisville. 3/12. 1602-1632. "Stardust on Wave 970, WAVG." [RTE-MO]
- WMAY** IL, Springfield. 3/8. 1608-1621 with Larry King. [RTE-MO]
- 980 **KMBZ** MO, Kansas City. 3/17. 0354-0401 with SID "News talk 9-80 KMBZ Kansas City." [RTE-MO]
- KSGM** IL, Chester. 3/8. 0421-0430 with country music. [RTE-MO]
- 990 **WCAZ** IL, Carthage. 3/8. 1631-1705 with country music. [RTE-MO]
- WIVK** TN, Knoxville. 3/15. 2352-0002 with business news and school closings due to bad weather. [RTE-MO]
- 1030 **KCTA** TX, Corpus Christi. 3/10. 0706-0713 with "Hour Of Prophecy." [RTE-MO]
- WNTL** MD, Indian Head. 3/10. 0624-0633 with "AM 10-30 Super-station WNTL Free Form Gospel Music Program." [RTE-MO]
- 1050 **WDZ** IL, Decatur. 3/8. 1705-1723 with CNN Headline News. [RTE-MO]
- 1060 **WMCL** IL, McLeansboro. 3/8. 1758-1806. "Best Country WMCL." [RTE-MO]

CDXR Continues....

- 1080 **CKSA** AB, Lloydminster. 3/14 good. 0015 with weather for Lloydminster, local spots into C&W music. No longer CHR. [SA-MB]
- 1090 **WCRA** IL, Effingham. 3/9. 1518-1542 with music. [RTE-MO]
- 1140 **WRVA** VA, Richmond. 3/12. 0205-0240 "Trucker's Radio Station WRVA. Richmond, Virginia." [RTE-MO]
- 1150 **KLRG** AR, North Little Rock. 3/17. 0321-0335 with Gospel. [RTE-MO]
- WGGH** IL, Marion. 3/9. 1545-1607. "Where the music speaks for it'self. Light and Easy WGGH 11-50 Marion, Illinois." [RTE-MO]
- 1180 **WLDS** IL, Jacksonville. 3/9. 1612-1632 airing old radio program "Lil Abner." [RTE-MO]
- 1210 **KOKK** SD, Huron. 3/10. 0650-0703. "12-10 Dakota Country KOKK weather." [RTE-MO]
- WILY** IL, Centralia. 3/9. 1637-1702 with Business Radio Network. [RTE-MO]
- 1230 **WHCO** IL, Sparta. 3/9. 1754-1810 with news. [RTE-MO]
- 1440 **WGEM** IL, Quincy. 3/9. 1824 with "Paul Harvey, Rest Of The Story." [RTE-MO]
- 1480 **KGCX** MT, Sydney. 3/16 good. 0657 with "KGCX" ID into Mutual News. Later airing Country music. [SA-MB]
- 1510 **WLAC** TN, Nashville. 3/11. 2036-2051 with sports call-in show. [RTE-MO]
- 1530 **WCKY** OH, Cincinnati. 3/11. 2029-2035 with call-in program. [RTE-MO]
- 1540 **WSMI** IL, Litchfield. 3/17. 1413-1435 with country music. [RTE-MO]

### DX TESTS

- 1090(KTNS) CA, Oakhurst. 3/9 DX Test not heard here, only heard KAAY. [SA-MB]
- 1150 **KWKY** IA, Des Moines. 3/15 DX Test barely audible to poor. Severe KLRG interference. 0115-0121. TT, march music, code IDs. [RTE-MO]
- 1180 **KKAR** NE, Bellevue. 3/15 DX Test. 0103-0115 Only heard code IDs through strong R. Taino. [RTE-MO]

### LOCAL CHANGES

- 1490 **KBSR** MT, Laurel. KBSR has increased the amount of SS programming. Now airing local SS program Saturday 1000-1300 and Sunday 1000-1300. [JcJ-MT]

### unIDs

- 1080 unID 3/13 good. 2353 with OC and TT with bits of country music between TTs. Gone by 0001. No ID given. [SA-MB]

### 25 YEARS AGO

April 5, 1968 issue of IRCA's DX Monitor....Father John Pejza of Ojai, CA mentioned his best verie so far was from KWIL-790 Albany, OR....Paul S. Lotsof of Kenmore, NY vacationed in CA toured 18 stations....Lynn D. Brooks of Ponca City, OK got a chance to look over reception reports sent to KOMA-1520. Most were post card reports with a sickening lack of details.

### OPEN MIKE

If you try to please everyone, somebody is not going to like it. Rich Eddie says he is now a CRB Research Monitor Station, KMOOEO. Montana Vacation Kits will be sent to those registered for the convention. Others who want a FREE Montana Vacation Kit please call 1-800-541-1447. BILLINGS '93. 73, John.

### 1993 IRCA CONVENTION UPDATE



The 1993 IRCA Convention will be held in Billings, Montana on June 25, 26, and 27th. Craig Siegenthaler of Kiwa Electronics will be at the convention with a display of Kiwa's products. You'll want to check out the performance of their MW Air-core Loop Antenna on one of our DX'peditions. We have yet to pick a site for the DX'pedition, but it will not be a camping trip into the wilderness! Our convention site is at the Quality Inn which is located in the Homestead Business Park. If you get bored, within walking distance you'll find a 5

screen theatre, post office, bank, 2 gas stations and numerous shopping and eating establishments. Including: WalMart, Shopko, Costco, Toys-R-Us, Burger King, Perkins, Fuddrucker's, The Jade Palace, and Gussicks. Within 2 miles there is a public golf course. Also within two miles there are many other fast food places and Montana's largest shopping mall with over 100 stores. 73, John & Larry.

12

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**EDXR EASTERN DX ROUNDUP EDXR**  
Leonard Hyde - 1805 Whipple Dr #26 - Blacksburg VA 24060-2436  
~~~~~

**\* THE REPORTERS \***

- (DLR) DAVID REITZ-Louisville KY  
R-1000, Radio West loop  
(JD) J.D. STEPEHENS-Huntsville AL  
Panasonic RF-2600, Sony ICF-2001, several longwires  
(ES) ELLIOT STRAUS-Tom's River NJ  
R-390A, Quantum Loop, longwires, MFJ-959B  
(ed) The editor at home with R-392/URR, 2' box loop, Autek QF-1

**\* OF SPECIAL INTEREST \***

- 1550 WTYR TN, SODDY-DAISY 3/8 0330 MM, "WTYR All Oldies 1550." 90s, oldies mx. I always wanted to hear a stn from Soddy-Daisy, hi. Next is Young Harris GA. (ES)  
(As I speculated last week, there's no way this stn is getting out like this on 11 wts night power! -ed)

**\* THE REPORT \***

- 560 KWTO MO, SPRINGFIELD 2/15 0129-0205 v strong w/no sign of WHBO "Best of Bohannon," lots of "560 KWTO" jx, local spots. "Color radar" wx, ABC nx. Many IDs a/TOH & half hour. (JD)  
600 CIQC PQ, MONTREAL 2/20 0225-0300 fair u/WMT, WREC w/"Country Coast to Coast" prgm. Frqt "Country 600" signs, contest promos. (JD)  
790 CIGM ON, SUDBURY 3/8 0215 MM, "Country Coast to Coast." 90s C&W mx. (ES)  
820 WQSI MD, FREDERICK 3/8 0530 MM, "82-Q" jx, "Frederick's great country stations: 82-Q." C&W mx. (ES)  
870 WQRX AL, VALLEY HEAD 3/5 1830 "870 WQRX," calls on request line. Fair. (ES)  
(Interesting logging, Elliot - WWL dominates here -ed)  
1040 WOKT KY, CANONSBURG 3/3 1755 REL tx, ID w/s/off anmts, ment 2700 wts, address PO Box 5730 Ashland KY 41105. (DLR)  
1170 WDAT MS, AMORY 3/16 1815 popped up out of mess in WWVA null w/"...it's 15 after 5 on WDAT. Now..." and gone. M/ancr. I listened & listened but it never came back. (ed)  
1100 WLBB GA, CARROLLTON 3/6 1750 Saturday Afternoon Gospel Hour. 60S mx, ID w/s/off anmts. (DLR)  
1140 KNAB CO, BURLINGTON 3/5 1955 o/WRVA w/C&W mx. "This is KNAB, Burlington CO" then lost. A very nice surprise. (DLR)  
1200 WSMC NC, GRAHAM 3/4 1825 Piedmont Evening News, ABC world nx, In/out: (ES)  
1210 KGYN OK, GUYMON 2/13 0055-0200 f/u/WOGL w/IRN Country. A/each TDH, ID as "KGYN Guymon, the information stn." Followed by ABC nx. New and one of my longtime most wanteds! Tnx to Tom Bryant for the tip! (JD)  
(are you sharing, JD? I don't recall that tip. -ed)  
& 3/5 2015 C&W/AC mx, wx fcst. ID: "1210 KGYN." (DLR)  
KOKK SD, HURON 3/5 1928 lcl spots, ID: "Dakota Country KOKK." Into hs bktball pregame show. (DLR)  
1320 WKRK NC, MURPHY 3/3 1905 in briefly w/ID: "WKRK 1320 AM, Murphy NC." Into C&W mx. Lost to WJAS. (DLR)  
WJAS PA, PITTSBURGH 3/8 0415 MM, "1320 WJAS: Your station for great memories." (ES)  
1370 KGGY TX, ROLLINGWOOD 3/6 1920 lcl spots for 1) Austin Supreme Graphics 2) Ballet Austin. ID: "For the best oldies in Austin, the choice is loud & clear: It's Froggy 94, Digital 94.7." Into oldies mx. (DLR)  
KGNO KS, DODGE CITY 3/6 2110 lcl spots, hs bsktball. ID: "1370 KGNO." Ments of Dodge City. (DLR)  
1430 CJCL ON, TORONTO 3/8 0430 MM, "Sports Radio 1430, The Fan" ID. Sports tx. (ES)

1550 KXOJ OK, SAPULPA 2/25 0055 strong w/satellite Xtian mx from the Skylight network. ID: "AM Stereo 1550, KXOJ, Sapulpa-Tulsa." Spot for a Bible. (JD)  
1590 KYOK TX, HOUSTON 3/1 0016 gd w/black oldies, promo for Kenny G concert, listen to win tix. "From Houston's only adult station, the new Y-98.5." (JD)  
WARV RI, WARWICK 3/8 0600 MM, USA Radio nx, REL pgmimg. In the muck. (ES)

**\* DX TESTS \***

550 ?WDEV? VT, WATERBURY 2/22 0400-0500 several weak tent code IDs & tones. Tentative rpt sent. (JD)  
640 WWJZ NJ, MT. HOLLY 3/1 0000-0100 fair mixing w/WCRV & R. Relej Cuba. Several lengthy code IDs, step tones, BBD mx, even thought I heard a polka tune! New, NJ 3. Now I may finally get NJ verified. (JD)  
(having this stn certainly improves the chances, eh? Not like before when WOBN was the only realistic shot. -ed)  
740 (WVCH) PA, BROOKHAVEN 3/8 0230-0330 NRC DX TEST nothing hrd but KTRH & KRMG. (JD)  
830 WKTX OH, CORTLAND 3/1 0100-0112 NRC DX TEST: caught it all: code IDs (which varied in pitch,) BBD, marches, tones and voice IDs. Went to bed at 0112 w/lots of details. Fair u/WCCO. (JD)  
1530 KPCR MO, BOWLING GREEN 3/8 0100 code IDs, voice: "KPCR Bowling Green MO, testing on 1530 kHz. KPCR." C&W mx, fair w/WCKY. (DLR)  
& 3/8 0100-0123 surprised at the strength of this one, u/WCKY. Many code IDs & voice anmts, C&W mx including "The Ballad of Davy Crockett." Took listener calls. (JD)

**\* OTHER STUFF \***

From DAVID REITZ: "Some really good DX cx here lately. Had a great opening to the Midwest on 3/5 & 3/6. KOKK was totally dominating 1210, & with a turn of the loop had KGYN. No WOGL at all. Only new stn KNAB 1140 Burlington CO. Peaked just in time for a beautiful ID (hi.) I hope cx continue to be this good. Wow, I've rptd for 3 weeks in a row. Hope to keep it up."  
(I hope so too, David. Regular reporters are essential to a column like this. On KNAB: it has been claimed that Murphy's Law works in reverse 1 time in 1,000,000 but this is the first time I've seen it. Hi! I had the same cx on 3/5 & 3/6 as you, but couldn't null WOGL. Oh well. -ed)

**\* EDITOR'S DESK \***

Thanks to DAVID, J.D. & ELLIOT for their support this week.

Remember to listen to the frequency of the month: 1000 kHz.

A reminder: please report all times as ELT. Also, it is very helpful if you list your logs in frequency order. Keep in mind that while you have to sort only your report, the EDXR editor has to sort several at one time. Could lead to errors and omissions. Thanks for your support.

As I write this, we are still digging out from the great "blizzard of '93." Actually, we dodged the bullet, if there's any way you can refer to 32 inches of snow as dodging a bullet, hi! The sustained hurricane force winds that were forecast never materialized in SW VA. We did have winds in the 30-40 MPH range, but damage was much less severe than it could have been. This is the third great snowstorm of my life. The blizzard of '63 dumped 36 inches on Fairfax Co. VA, and we were out of school for a week! The storm of '67 dumped 28 inches on Lexington NC, an amazing amount for that part of the country. What does this have to do with DXing? I'm getting to it. Cx during the storm were unchanged from normal, maybe a little off. This was after the cold front had gone by. The snow cover, as expected, has elevated daytime signal levels.

**\* DX RECORDS \***

REPORTER: Jim Wallace      DATE OF REPORT: 3/6/93

STARTED DXing: 8/11/69 YRS SERIOUSLY? 23 1/2 COUNT CALL CHANGES? No  
SPECIFIC INTERESTS: AM, FM & TV DX

LOCATION: Olmsted Falls OH (8/11/69-12/26/77)

HEARD/VERIFIED:

TOTAL BCB: 1017/210 US-CANADA: 974/204 FOREIGN: 43/6  
STATES: 44/42 PROVINCES: 8/7 COUNTRIES: 13/7  
DC? y/y MOST HEARD STATE-PROVINCE & NUMBER: OH-105

BEST CATCHES:

DOMESTIC VERIFIED: KOMO-1000 WA, Seattle  
CANADIAN VERIFIED: CFAC-960 AB, Calgary  
FOREIGN HEARD: HJJM-660 Colombia, Cali  
FOREIGN VERIFIED: 4VEC-830 Haiti, Cap Haitien

TOTAL BY HEARD/VERIFIED: 121/17

1230: 23/1 1240: 13/6 1340: 20/4  
1400: 18/2 1450: 25/3 1490: 22/1

LOCATION: Columbus OH (9/24/72-9/2/80)

HEARD/VERIFIED:

TOTAL BCB: 1168/292 US-CANADA: 1101/289 FOREIGN: 67/3  
STATES: 41/38 PROVINCES: 8/5 COUNTRIES: 18/5  
DC? y/y MOST HEARD STATE-PROVINCE & NUMBER: OH-109

BEST CATCHES:

DOMESTIC VERIFIED: KHIL-1250 AZ, Willcox  
CANADIAN VERIFIED: CKXL-1140 AB, Calgary  
FOREIGN HEARD: HJBC-1090 Colombia, Cucuta  
FOREIGN VERIFIED: R. Belize-834 Belize, Belize City

TOTAL BY HEARD/VERIFIED: 85/15

1230: 1/0 1240: 7/0 1340: 18/7  
1400: 17/1 1450: 17/5 1490: 25/2

LOCATION: Bellaire, OH (9/6/80-1/20/92)

HEARD/VERIFIED:

TOTAL BCB: 1157/366 US-CANADA: 1106/355 FOREIGN: 51/11  
STATES: 39/34 PROVINCES: 5/3 COUNTRIES: 20/11  
DC? y/y MOST HEARD STATE-PROVINCE & NUMBER: PA-103

BEST CATCHES:

DOMESTIC VERIFIED: KNIX-1580 AZ, Tempe  
CANADIAN VERIFIED: CHTN-720 PEI, Charlottetown  
FOREIGN HEARD: HJCX-700 Colombia, Cali  
FOREIGN VERIFIED: TIHB-730 Costa Rica, San Jose

TOTAL BY HEARD/VERIFIED: 98/21

1230: 26/4 1240: 21/6 1340: 10/1  
1400: 10/1 1450: 17/7 1490: 14/2

LOCATION: Charleston WV (1/27/92-3/5/93)

HEARD/VERIFIED:

TOTAL BCB: 307/17 US-CANADA: 301/17 FOREIGN: 6/0  
STATES: 34/13 PROVINCES: 2/0 COUNTRIES: 6/1  
DC? y/n MOST HEARD STATE-PROVINCE & NUMBER: OH-40

BEST CATCHES:

DOMESTIC VERIFIED: KNZZ-1100 CO, Grand Junction  
CANADIAN HEARD: CBW-990 MB, Winnipeg  
FOREIGN HEARD: HJCY-810 Colombia, Bogata

TOTAL BY HEARD/VERIFIED: 11/0

1230: 3/0 1240: 3/0 1340: 3/0  
1400: 0/0 1450: 1/0 1490: 1/0

Thx to Jim for his marvelously detailed report! 73 de LLH.

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\*\*\*\*\*  
 EDXR EASTERN DX ROUNDUP EDXR  
 LEONARD HYDE - 1805 WHIPPLE DR #26 - BLACKSBURG VA 24060-2436  
 \*\*\*\*\*

DEADLINES UNTIL WEEKLIES BEGIN AGAIN:: April 16, April 30, May 28,  
 July 2, July 30, August 20, September 4.

**\* THE REPORTERS \***

(TB) TOM BRYANT-Nashville TN  
 (TF) TONY FITZHERBERT-Fairfield CT  
     GE Superadio, ICFSSW, Lazy Susan  
 (MH) MIKE HARDESTER-Jacksonville NC  
     Sonoma Truck radio, fender antenna  
 (DLR) DAVID REITZ-Louisville KY  
     R-1000, Palomar Loop  
 (ES) ELLIOT STRAUS-Toms River NJ  
     R-390A, Quantum Loop, longwires, MFJ-959B  
 (WPT) WILLIAM P. TOWNSHEND-Washington DC

**\* OF SPECIAL INTEREST \***

1170 WKPE MA, ORLEANS 2/14 1728-1747 never hrd here before, in like  
 a local. IDing as "Oldies 104" and "All oldies, all of the  
 time." Commercial for a car dealer in Plymouth. Called stn  
 at 1745 to get correct AM call. Ancr who answered said "Oh-  
 oh!" and signal abruptly vanished! (TF)  
 1580 (WVWF) NC, CAMP LEJEUNE off on 3/14 & 3/15. Uncertain if storm  
 related or other reason. In it's absence 0700-0745 on 3/15  
 noted usual WPGC and unID occ fading up. ID snd/lk WPOP or  
 WBDB. After ID, ment of "currently 26 degrees..." Format  
 snd/lk C&W but WPGC was just too strong. (MH)  
 (Mike's rather extensive comments included the fact that  
 WVWF is not on Camp Lejeune even though it IDs as such. As  
 for the unID, Mike, couldn't be WBDB; that's my 1360 semi-  
 local in Galax VA. How abt my local WPUV? Format & temps  
 certainly would fit, and WPUV could snd/lk WPOP in a jum-  
 ble. There's also WBGB-FL, but temp wouldn't fit. -ed)

**\* THE REPORT \***

690 WJOX AL, BIRMINGHAM 3/14 0545 spts tx, calls taken. Weak, list  
 500 wts. (ES)  
 720 WGCR NC, PISGAH FOREST 3/14 2335 o/WGN w/EBS. Tlk of safety  
 tips, need for kerosene & firewood. Wx, road updates. (DLR)  
 810 WYRE MD, ANNAPOLIS 3/13 1730 live prgm from boatshow/marina.  
 Pr w/WGY interference. 250 wts. (ES)  
 930 WSEV TN, SEVIERVILLE 3/15 0010 on EBS w/wx & power outage up-  
 dates. "You're listening to 105.5 WDLY." Into C&W mx. (DLR)  
 960 WPMR PA, MT. POCONO (date, time?) rock mx. "Stn that was born  
 to rock." IDs for "107.9, WPMR, Mt. Pocono." Cmrcl for  
 American Cookery Restaurant. Took rqst frm Tobyhanna. (TF)

FREQUENCY OF THE MONTH: 1000 kHz

1000 WLNL NY, HORSEHEADS 3/8 1810 REL pgm to 1817:30 s/off. (ES)  
 1120 WADN MA, CONCORD 2/27 1750 way atop w/folk mx. F/ancr, IDs for  
 "Walden 1120." Cmrcls for Concord Colonial Inn. TC for 2300  
 GMT at 1800. BBC World Service nx. Gone by 1803, never hrd  
 here before. (TF)  
 WBIS CT, BRISTOL 3/8 1755 ads to 1754:45 pattern change. (ES)  
 1140 KNEI IA, WAUKON 3/10 1915 wx, ID: "Hear Tanya Tucker/Randy Tra-  
 vis and more right here on all American country KNEI Wau-  
 kon." Into C&W mx. New. (DLR)  
 KSOD SD, SIOUX FALLS 3/10 1920 faded up o/KNEI w/lcl spots.  
 ID: "The news voice of Sioux Falls, AM 1140 KSOD." Into C&W  
 mx. (DLR)

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1150 WMEX MA, BOSTON 2/13 1632 o/u semi lcl WCXN. IDs for "Magic 106.7." Cmrcls for WBZ-TV 4 and other Boston businesses. Cordial verie back in a week! (TF)

WHUN PA, HUNTINGTON 2/27 1735 Randy Travis rcrd. "Put AM 1150 on your car radio button so we will always be there - on AM 1150 WHUN." More C&W, way o/night semi reg WDEL. (TF)

WGGH IL, MARION 3/8 2130 "spreading the light into our 5 state listening area, this is AM 1150 WGGH, Marion IL." Into REL tx. (DLR)

1160 WMVI NY, MECHANICSVILLE 2/13 1550 in v well w/BBD mx. (TF)

1250 WREN KS, TOPEKA 3/8 1948 GOS mx, lcl spots. ID: "The best in Southern gospel music, AM 1250 WREN." (DLR)

1260 WNOD TN, CHATTANOOGA 3/13 2105 on EBS w/road cx, wx updates, emergency numbers. V good. (DLR)

1270 WTSN NH, DOVER 2/13 1605-1620 atop w/financial show. Unusual here so early. (TF)

WLIK TN, NEWPORT 3/13 2120 on EBS w/wx updates, shelter, road info. Xlnt. (DLR)

1290 WJBR DE, WILMINGTON 2/13 1702 gd w/rock mx. "Mix 99.5" (TF) & 2/21 (time?) rock mx, promo for "Operation Snowflake." (TF)

1300 KGLO IA, MASON CITY 3/10 2000 ID: "KGLO AM 1300 Mason City." Into Iowa Hawkeyes bsktball. (DLR)

1310 WMTG MI, DEARBORN 3/10 2050 MSU Spartan bsktball. Lcl spots. ID: "You're listening to Michigan St. bsktball on Big Time oldies 1310: WMTG Dearborn/Detroit." (DLR)

1340 WALL NY, MIDDLETOWN 2/15 1711 in for a moment in WNHC null. ID for "AM 1340, WALL." Gone. (TF)

1350 WHWH NJ, PRINCETON 3/7 1754 in WNLK null. PSAs and Moneytalk call in show. (TF)

1360 WIXZ PA, MCKEESPORT 2/20 1729 hs bsktball, interview w/Pittsburgh Post/Gazette columnist. Weak signal. (TF)

WZPQ AL, JASPER 3/12 1930 gd w/wx, school/business closings due to heavy snow. Into AC mx. (DLR)

1380 WNRI RI, WOONSOCKET 2/15 1640 telephone tx, cmrcl for a Chinese restaurant. Gd bet for those of you who need RI. (TF)

1410 WDOV DE, DOVER 2/15 1729 tx, ID: "WDOV Newsradio 1410: we are WDOV, Delaware." Into nx. Over WPOP. (TF)

WLSH PA, LANSFORD 3/7 1758 Cat Steven's "Moonshadow" record, "The tradition continues on AM 1410, WLSH, Lansford." Into USA nx. (TF)

1430 WGFS GA, COVINGTON 3/13 1900 wx, tx of icy rds & snow in area. ID w/full data s/off amts. (DLR)

1480 WAJA NC, FRANKLIN 3/13 1915 on EBS. ID, wx, emer numbers. Rd cx. C&W mx, many IDs. Xlnt. (DLR)

1550 WV LX CT, BLOOMFIELD 3/11 1525 REL pgm. ID as "Christian 1550: WV LX." (ES)

WTTC PA, TOWANDA 3/13 1815 ads to 1820:15 s/off amnt. 500 wts. My 41st reception on 1550 from 21 states & 3 cntrys. (ES)

1590 WWCC PA, HONESDALE 2/15 1658 C&W mx. "1590 WWCC, Honesdale." Into USA radio nx. Good signal. (TF)

WHPY NC, CLAYTON 3/13 0600 s/on w/prayer & "Gospel Caravan" program. In muck. (ES)

WFTH VA, RICHMOND 3/13 0603 s/on, mixing w/abt a dozen stns. "WFTH, Richmond: serving Petersburg & the Tri-States(? -ed) area." (ES)  
 (a look at the map leaves me wondering which 3 states they mean. VA, MD & NC, or VA, MD & DE? I think it's a stretch either way, though conceivably their signal could be hrd in MD & DE, going across the water of the Chesapeake Bay. Any one have any info? -ed)

\* DX TESTS \*

(A number of DX Tests rptd as "not hrd" were deleted for space considerations. It has been verified that these tests DID run. -ed)

550 WDEV VT, WATERBURY 2/22 0405 fr/gd u/WGR w/code IDs. (WPT)

640 WWJZ NJ, MT. HOLLY 3/1 0002-0014 code IDs, history of stn by CE. Gd/xlnt. (WPT)

740 WVCH PA, CHESTER 3/8 NRC DX TEST thought this was going to be

a no show...vigilant search from 0230-0245, then temporarily gave up. Tried again 0325 and hrd cont. code IDs. No voice IDs but there was an odd flip-flop tone sounding like a European police siren. Almost inaudible w/KRMG. CBL apparently on w/OC. (TB)

1090 (KTNS) CA, OAKHURST 3/9 0300-0400 tried, not hrd. (TB)  
1180 KKAR NE, BELLEVUE 3/15 0101 TTs, Code IDs. Pr w/WHAM. (DLR)  
1530 KPCR MO, BOWLING GREEN 3/8 0100-0200 Code ID, voice anmts. Song "Davey Crockett" (haven't hrd that one for ages!) Later, Scott Joplin piano ditties, several code & voice IDs. Pr/fr in WCKY null. (well, sort of a null-WCKY is almost impossible to get rid of!) (TB) (how well I know...-ed)

**\* OTHER STUFF \***

From TOM BRYANT: JD's 1510 unID w/CNN was probably KPBI, Greenwood AR. I got 'em in Feb. in WLAC null (not easy to do here in Nashville) then really got lucky when WLAC had a 45 minute programming lapse. Thru the OC I heard ads for a towing company, and an attorney licensed to practice in OK & AR. Absolutely NO IDs...CNN Headline sounders ran through most breaks, but some sort of automation system occ squirted in a spot or two (usually upcutting CNN when rejoining.) (thx Tom. I said this stn was unlikely. It seems I read the state as AZ, not AR! Oops! -ed)

**\* EDITOR'S DESK \***

Thanks to TOM, DAVID, ELLIOT, and BILL for their support this week. FREQUENCY OF THE MONTH FOR MAY: 820 kHz

~~~~~

Box 1684  
ENID OK 73702

26 MAR 93

DEAR RALPH,

COULD YOU RUN THIS INFO IN THE NEXT DX MONITOR?

GLENN HAUSER's DX DAILY RESUMES APRIL 12. How MW DX TIPS AND PROGRAM ITEMS ARE WELCOME IN ADDITION TO SW ITEMS. LAST-MINUTE DX TESTS WILL BE PUBLICIZED HERE. LISTEN UTC TUE-SAT 0130 ON 7315, REPEATED 0600 ON 7315, 9495, EXCEPT SATURDAYS THE REPEAT IS AT 1400 ON 9465, 15105, ON RADIO MIAMI INTERNATIONAL VIA WHRI. LISTEN FOR NEW ADDRESS, PHONE AND FAX NUMBERS TO BE ANNOUNCED HERE AND ON WORLD OF RADIO.

THE WEEKLY HALF-HOUR PROGRAM WORLD OF RADIO HAS THIS ANTICIPATED SCHEDULE DURING THE DST PERIOD, TIMES AND DAYS HERE STRICTLY UTC:

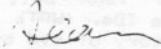
ON WWCN NASHVILLE: FRI 2115 ON 15685, UT SUN 0305 AND 0700 ON 7435, 2300 ON 15685, MON 1230 ON 15685, TUE 1130 ON 12160 CR 15685; ALSO MAY ADD SAT 0930 ON 5810.

ON WRNO NEW ORLEANS: SAT & SUN 2030 ON 15420, UT SUN 0200 ON 7355.  
ON RADIO FOR PEACE INTERNATIONAL, COSTA RICA: FRI 20, UT SAT 04, 12, 18, SUN 02, 10, 23, MON 07, 15, TUE 19, WED 03, 11. ON 3 OR 4 OF THESE FREQUENCIES: 7375, 7385-USB, 13630-USB, 15030, 21465-USB.

WORLD OF RADIO ALSO INCLUDES MEDIUMWAVE DX NEWS AND NEWS OF DOMESTIC MEDIA DEVELOPMENTS, EQUIPMENT REVIEWS, PUBLICATION INFO.

DOMESTIC STATIONS CARRYING WORLD OF RADIO: WNGM, 1300, NASHVILLE TN, SATS 12:25 AM CT.  
WHUS, 91.7, STORRS CT, FRIS 10:30 AM ET  
WPKN, 89.5, BRIDGEPORT CT, SATS 2:30 PM ET  
WSUI, 910, IOWA CITY IA, SATS 10:30 PM CT.

MANY THANKS,



GLENN HAUSER

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QSL

# VERIFICATION SIGNERS

Stephen S. Howe  
9 Warner Drive  
St. Albans, VT 05478-1575

My deadline will be the last Friday of the month during the weekly issues of the DX Monitor.

**Contributors:**

MH Mike Hardester, 3118 Gaitway Court, Jacksonville, NC 28546-6973  
GVJ Gary V Jackson, 7735 Center Parkway, Sacramento CA 95823  
ERS Elliot R Straus, 980 Cooper Dr, Toms River NJ 08753

| FREQ | CALL | NAME and TITLE            | ADDRESS                                                      | WHAT | WHEN  | WHO |
|------|------|---------------------------|--------------------------------------------------------------|------|-------|-----|
| 600  | WMT  | Rick Sellers, VPOps-Prgm  | 600 Old Marion Road NE<br>Cedar Rapids IA 52406              | L    | 11    | MH  |
| 640  | WNNZ | Curt Hahn, P              | P O Box 1570<br>Westfield MA 01086                           | L    | 15    | ERS |
| 720  | WWII | Dean Lebo, GM             | 8 W Main St<br>Shiremanstown PA 17011                        | LMB  | 14    | ERS |
|      | CHTN | Gordon Mills, CE          | 590 North River Rd P O Box 7200<br>Charlottetown PEI C1A 8V7 | QB   | 401ff | MH  |
|      | CHTN | Gordon Mills, CE          | 590 North River Rd<br>Charlottetown PEI C1E 1K1              | LB   | 20    | ERS |
| 810  | WQIZ | Ezekiel "Bob" Brown, StnM | P O Box 903<br>St George SC 29477                            | PM   | 151f  | MH  |
| 870  | WQRX | Timothy H Dobson, CE      | 870 Jeff Cook Dr P O Box 309<br>Valley Head AL 35989         | LB   | 6     | ERS |
| 940  | WADV | Craig A Senior            | 720 E Kercher Ave Box 940<br>Lebanon PA 17042                | L    | 10    | ERS |
| 1070 | WANM | Charles Kinney, CE        | P O Box 10174<br>Tallahassee FL 32302                        | LB+  | 28    | MH  |
| 1110 | CKTY | Brian Hinz, TechDir       | 1415 London Rd<br>Sarnia ON N7S 1P6                          | L    | 14    | ERS |
| 1180 | KERI | Michael McCutchan, StnM   | P O Box 82225<br>Bakersfield CA 93380                        | L+++ | 40    | GVJ |
| 1240 | WUOK | Vern Coleman, CE          | 278 South Sea Ave<br>W Yarmouth MA 02673                     | L    | 8     | ERS |
| 1260 | WBUD | William L Smith, CE       | P O Box 5698<br>Trenton NJ 08638                             | L    | 22    | ERS |
| 1320 | WQIK | Doug Walker, DirE         | 5555 Radio Lane<br>Jacksonville FL 32205                     | L    | 13n   | MH  |
|      | WLEE | Edward E Burkhardt, CE    | 121 Wyck St Suite 300<br>Richmond VA 23225                   | L    | 6     | ERS |
| 1460 | WIMX | Chris Fickes, OpsM        | P O Box 3433<br>Harrisburg PA 17105                          | L    | 7     | ERS |
| 1520 | WWKB | Tom Atkins, CE            | 659 Delaware Ave<br>Buffalo, NY 14209                        | L    | 13    | ERS |

WHAT was received: L = Letter; Q = QSL card; P = Prepared card supplied by DXer; R = DXer's letter returned with statement; M = Coverage map; B = Bumper or other sticker; + = Extra goodies  
WHEN the reply came: Number of days elapsed; f = Follow-up; n = Return postage not used; r = Return postage returned

Good to have two new reporters to the column this month. I have listed two entries for CHTN-720 because of the discrepancies in the reported postal code. Maybe Mike and Elliot can clarify this for us. Also note the difference in what was sent and the time for reply. Mike also provided telephone and FAX numbers in his report: WMT-600: telephone 319-395-0530, FAX 319-393-0918; CHTN-720: 902-892-8591, 902-566-5904; WQIZ-810: 803-563-2337, 803-529-1933; WANM-1070: 904-222-1070; 904-561-3645; WQIK-1320: 904-388-7711, 904-384-0859. This column was prepared on 3/26/93. 73, SSH



# Western DX Forum ★ ★ ★ ★ ★

Reid Wheeler 5910 Boulevard Loop SE Olympia, WA 98501

Deadline: Saturday 2 weeks before publication

## Mike Sanburn, P.O.Box 1256, Bellflower, CA 90707

Greetings. It seems I never break my annual tradition of missing the Anniversary Issue of DXM. Happy belated 29th! Thanks to Albert, Karl, Robert, and others who have written to me recently. I just finished logging the KKAR DX-test. I was so glad about it that I thought I'd celebrate by sending in a forum. Several things keeping me busy as of late. My 2 major obsessions this season have been finding as many station logos as possible to send to HQ, and actively supporting our CPC effort. The end results have been very satisfying. J.D. Stephens got me hooked on collecting plastic promotional cards from various radio stations. It made sense, I've already got a notebook full of airline frequent flyer club cards, and department store credit cards. (Travel, shopping, and DX - it all fits.) Have enjoyed participating in Nancy's DX contest over the past few months. This is the first time I've been involved in one of those (I think, hi!) I'm getting a small collection of radio bumper stickers together. I just joined Decalomania for a trial membership. Now I can know what goodies are available from who. I'm currently working on some publicity projects for the club. The more people that know about us, the better. If any member has suggestions or comments, please write me. I try to answer letters, but admittedly sometimes it takes a while. Locally, KJQI-1260 has just announced their application with the F.C.C. to switch their city of license from San Fernando to Beverly Hills, might prove to be demographically correct. At least 1260 and 540 are clear at nights now, after the K-Joy twins signed off. This MM I'm trying for WGTO. Another terrible storm has ripped through Florida so there's a probability of emergency broadcasts. Local KFRN-1280 was off for a couple of days and I managed to log KDYL and KHEP. Recent veries here are from KAAM, KAZM, and KBIF. Called Radio AAHS - they said their network consisted of KPLS/KCTQ in Southern Cal, KIDR Phoenix, and KYD Abilene, TX (ex-KORQ). A likeable format. Remember the song "Meet Me in Montana" by Dan Seals and Marie Osmond? I'll be in Billings this June .... PRACTICE SAFE DX, 73

## Patrick Martin, P.O.Box 843, Seaside, OR 97138-0843

[3/12] It was nice to see all the reporters in the Anniversary Issue. It is nice to see how everybody is doing. It was also great to see the past pix of current and past members. Most of those people I haven't heard of in years. Theo Donnelly is in Vancouver, B.C. at CJVB radio. In fact he does a lot of the QSLing for the station. He makes it to Bruce Portzer's GTG most years. Eldon Luoma is still in the Vancouver area I think, as I heard him call in on a talk show a year or two ago from Vancouver. RE KUMT-1600-Utah. I logged them with a "KUMT AM&FM" ID on the hour. In fact they were // to the FM not running the rel format, but their oldies rock on FM! I sent a taped report with the ID on it. I never received a reply. Now I see why, hi! Apparently it was a mistake by the DJ. Since the station is still KBBX, I already have it QSL'ed under that call. Thanks for the information from RW and JCJ. If I haven't mentioned it in the past, I will now. I sure enjoyed your "25 years ago"; a lot of those things I have forgotten about like the 1942 Whites Radio Log. I don't know what ever happened to it. The election is going on now. I hope everyone will vote. Also my hat goes off the J.D. Stephens for all the great tests. I have been lucky enough to catch several including Rhode Island. I know I would never have heard them without the code test. Received a few good QSLs recently from KGUM-567-Guam, CBA-1070-New Brunswick, CJXX-840-Grande Prairie, AB, KVML-1450-Sonora CA, KZEP-1250-TX, and CHOK-1070-Ontario. Reports out to: KFEZ-1190 (ex KJLA), KGBS-1190 (ex KUJI), WOWO-1190 (tent), KPCR-1530 (test came through great), KSTE-650 (f/up), KBBK-970 (f/up), WYET-990 (f/up), KAVA-1450, CKKY (f/up), KWNC-1370 (f/up), KYET-1180, KWAM-990 (f/up), KLDI-1210, KNEU-1250, and XETOL-1130. Til' next time. Good DX 73s. Patrick.

John Oldfield, 7135 - 129A Street, Surrey, BC V3W 6T4

I was a week early last year for the BIG issue. Guess I'm late this year. Happy Anniversary anyway! The "exciting" highlights for radio in the Vancouver area? CHRX-600 "Classic Rock" & sister CJJR-93.7 "JR Country" were sold. The CHUM Group is finally getting a buyer for CHQM-1320. They currently carry the ex-CJVB Chinese program. The balance is still "real oldies" (30s-40s-50s). Rumors are that CHQM will also go Ethnic like CJVB-1470. There are over 100,000 Chinese here. CHUM still owns CFUN-1410 & CHQM-103.5 FM. CFUN's morning man is moving to CKKS FM "because AM radio is dying". Coast(CKST) 1040 was denied a move to FM and they are protesting. They planned to kill 1040 AM. Rogers dropped there pm drive and use their own "Country Coast to Coast" on CKWX-1130. Rogers also has the "Oldies Coast to Coast" which is carried on their own CJVI-900 Victoria as well as CISL-650 Vancouver. CKDA-1200 is also OLDIES. That's 3 AMers with Oldies in this area. Shaw Cable bought CKLG-730 & CFOX-99.3 and the only change is the use of CKGL calls for the first time in years. Other stuff: our CRTC can't seem to make up its mind re dumping AM for FM. Some "lucky" AMers got FM and dumped their AM. Others didn't. CHOW-1470 & CHLO-1570 were both denied FM (& dump AM). CKMG-1340 got lucky. CHAT-1270 will soon dump the silly CBR relay, CJMH-1460. CBC found the bucks for an FM relay in Medicine Hat. The CRTC OKed CHUM Group to buy out the ex-mighty CKLW-800 (& CKLW FM) Windsor. CHUM already owns CKWW-580 & CIXM FM. I'm not sure which ones die here as CRTC says they don't like dual ownership in the same market. Hope we're still here next year. I would rather see an end than any merger.

Albert S. Lobel, P.O.Box 26762, San Diego, CA 92196

(619) 566-0092

AN OBVIOUS TYPO: In an obvious typo Reid listed my telephone area code as 609 instead of 619 in the Anniversary Issue. Hope no one tried to call me in area code 609 instead of 619. 609 is a New Jersey Area Code and 610 is a California Area Code. *[sorry Albert - unfortunately my spellcheck is useless on names, call signs and numbers of all types - rcw]* RE. MY UPCOMING TRIP TO MONTREAL: I will be leaving on 26 April for about a week in Montreal. If any of you in or around the Montreal area would like me to telephone you while there please let me know before April 24. If time permits I will call you. I am planning on visiting the Radio Canada International Studios. I have called and talked to someone at Radio Canada International who told me that Ian McFarland is back in town. Ian is a very good friend of mine and I do have his non-published phone number. I will be giving him a call. IRCA ELECTION: I urge all IRCA members to vote. The ballots are out; I just received mine. Remember that I am no longer the Election Committee Chairman! Be sure to send all completed ballots to Phil Bytheway!! If any ballots are mistakenly sent to me I will forward them directly to Phil; but, this may delay your vote and cause it not to be counted in time. 73's and good DX Albert.

Patrick Martin, P.O.Box 843, Seaside, OR 97138-0843

[3/22] Hi Everybody: Many of you know I have been fighting the noise of an electric fence for over a year. I finally made a deal with the farmer - I would repair his fence in the future and keep an eye on it if he took down the electric fence near my beverage. It worked well and a few hours of time and some wire, which I have lots of, it has been great. The noise is gone and it looks like a great future for DX. It isn't much fun when you have electric fences surrounding your antennas, hi. I have filtered them to a point, but some of the noise still gets through. These are all battery operated fences. There are still some around but they are far enough away that they do not interfere. With the noise blander in the Drake RB, if there is any weak clicks, that takes all the noise out. One thing I have enjoyed living out here, 8 miles North of Seaside, has been little or no noise as most of the powerlines are underground. This fence noise off and on has really been something. You wouldn't believe the nights everything was fine and a cow knocked a pole over making the fence arc. Then at 11 pm or 1 am, putting on a coat and going out there in the dark with the flashlight to find the problem! The amount of hours I have spent out there trying to solve the problem. I found out later, the farmer also was trying to solve the problem on his end and I never knew it! Well, everything is fine now and I hope it stays that way. In the past year, I sure have learned a lot about electric fences! Until next time, good DX to all. 73s, Patrick.

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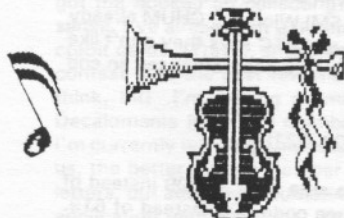
Gary Larson, 2806 Lincoln, Burbank, CA 91504

(818) 846-5540

[3/22] Hello again. Anniversary issue looked great. Sorry I missed deadline for forum. Pressures are causing problems here. Guess I needed to say happy birthday IRCA earlier. Great club to be involved in. Again, an open offer for free large KGIL/KMGX envelopes for those collectors of such items and I only ask for help with postage. I also taped about 3 hours of DX special over KABC and have scoped it - I can dub it for those interested; need a C90 or a couple 60s. 73.

Your editor

Whew! What a tough issue! The number of Forums with a large amount of call signs and frequencies was enough to give me eyestrain. I hope I got them all correct - my apologies in advance if not. Also as a reminder - if you feel the urge or need to speak to me directly, please call (206) 786-1375 between the hours of 6pm - 9pm local Pacific time most any evening. Most other times you will get my answering machine - rcw.



**WIOI**

**1010 AM**

**MUSIC**

**"JUST FOR THE TWO OF US"**

FORMAT: EASY LISTENING

NBC NEWS -- LOCAL AND STATE NEWS & WEATHER

ARTISTS & GROUPS

- |                    |                       |                     |
|--------------------|-----------------------|---------------------|
| 1. FRANK SINATRA   | 11. PERCY FAITH       | 21. ELVIS PRESLEY   |
| 2. NEIL DIAMOND    | 12. 101 STRINGS       | 22. TONY BENNETT    |
| 3. JONATHAN KING   | 13. PAUL MAURIAT      | 23. ROGER WILLIAMS  |
| 4. JOHNNY MATHIS   | 14. BURT BACHARACH    | 24. NELSON RIDDLE   |
| 5. CARLY SIMON     | 15. JACK JONES        | 25. TOM JONES       |
| 6. ANDY WILLIAMS   | 16. ANNE MURRAY       | 26. BERT KAEMPFERT  |
| 7. PERRY COMO      | 17. BARBRA STREISAND  | 27. COMMODORES      |
| 8. THE SANDPIPERS  | 18. DIONNE WARWICK    | 28. WILLY NELSON    |
| 9. THE CARPENTERS  | 19. CAPTAIN & TENILLE | 29. BARRY MANILOW   |
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Richard C. Evans

P.O. Box 21883

Milwaukee, WI 53221-0883

Tony Fitzherbert, 356 Jackman Avenue, Fairfield, Connecticut 06432

About time for a Forum as I have been somewhat negligent in this category. I am still working for Metro North, and, in addition, have my own seminar business, presenting safety and vehicle safety seminars for organizations all over Westchester County. This business has grown rapidly, and will grow into a retirement business in ten years. Nevertheless, I have had a good winter at the dial, with some real surprises. The best two catches of the season were WADN-1120, at sunset, and WKPE-1170, at 1727 on 2/14/93. A call to that station to get the correct call - they ID as "Oldies 104" - revealed that it was indeed they whose signal was booming in like a local down the Atlantic coast. The announcer said "Oh, OH!" when I told him that I was enjoying his program down in Fairfield. The signal then abruptly vanished. They sent a nice verie, though. Veries this season are in from WBMJ-190, WJFK-1300, CHTN-720 for a 1-2-91 report!, WMEX-1150, WFMD-930, WWCC-1590, WPDC-1600 AND WKPE-1170 for a lifetime total from here and Chalfont, PA at 757. It is the height of the March 13 blizzard of 1993, so will attempt to see how the DX is tonight. LATER: WDJZ-1530 was off the air, so checked out 1520-1540. 1520 yielded WGAM and WTBE, neither needed here. 1530 was silent, and 1540 was a mix of WPTR and WPGR. The rest of the dial offered little else of interest. Nulling WNHC-1340 on the Lazy Susan (this works - every DX'er should have the equipment on a Lazy Susan!!) brought in WMID in Atlantic City. At 1809, on 1470, in rolled WSRO, over WMMW, usually heard here. At 1813, little WJFF came in way atop 1180 with country music, an extremely spirited ID, and a commercial for a sex survey! Earlier, at 1724, WSBS-860 appeared at the top of 860 with a listing of storm cancellations. So, that was storm DX'ing....nothing really needed. Must try to send in a Forum more often. 73's to all. (I assume, Tony, you heard about the guy who attached a motor to a Lazy Susan, and called it a Lazier Susan--rce)

Charley Keleher, 18747 Deerpath Road, Wildwood, Illinois 60030

I think I've figured out the numbering system for Superadio models. Mine is a 7-2880A; it may be the original Superadio. In 1985, I retrieved it from an Ace Hardware bonepile. Ace seems to be the only place around here whose radio line is mostly GE. I'd like to know about others. In 1990 I bought another Superadio as a present for a cousin; it was a 7-2885F. As I remember, the cabinet and speaker were somewhat "chintzier" in looks, feel and sound. Sensitivity and selectivity were about equal to mine. Here's the numbering scheme (maybe): 7- means it's a radio. 28 means a particular type, that is, a Superadio. The next two digits are the year the basic design was introduced (like the .30/06 rifle cartridge, which was introduced in 1906). The letter is a revision indicator. for minor changes in styling and/or circuitry. In the 1989 "Silver Anniversary" issue, Floyd Perry Jr. tells of his rig, a 7-2882A, which featured "electronic scan tuning", which surprised me. Why? Because if tuning is done by a variable capacitor or inductor, some sort of motor is required to drive it, as was the case with some old car radios. With varactor diode tuning, no motor is required. In Gerry Thomas' review of the "Superadio III" (1-2-93 DXM), he seemed to think that varactor diodes were unique to the "III", and no model number was given for it. Whatever the "82" models have, they must be rare birds indeed! I total agree with Gerry's main point on the "III". It is both amazing and disgusting what some "marketing" types expect the public to "consume". 73-Charley.

Tom Bryant, 349 Todd Preis Drive, Nashville, Tennessee 37221

(615-646-2000) Wow! When the GE guys named it "Superadio" they weren't kidding! I managed to pick up a factory reconditioned Superadio

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II a couple of months ago and was flabbergasted. Talk about 'bang for your buck...' this little guy sure has it. My advice to any AM DXer who doesn't have one is GET IT NOW before the II's are all gone. Another addition here is a Yamaha TX-930. I bought this primarily to get back into FM DXing, but it also has a hot AM section. Borrowed a loop from NRCer Doug Smith and have been much impressed. The problem now is that I have to give the loop back. I am now looking for advice as to what to buy. Any input will be appreciated. I do have a lot of line noise, so keep that in mind when you comment. One other requirement is that it has to look fairly decent. I don't want something that looks like a Dutch windmill or a scarecrow frame! With right at 100 new loggings since the end of November, it's been a pretty good season here. New total is 531. A big thanks to J.D. Stephens as well as the NRC gang for coordinating all the CPC tests. Not only have then been fun, but very productive. I'm hooked on them and look forward to another full agenda in the Fall. Early morning of 3/11 was interesting...east and north were dead, and there was a tremendous opening to the west. KSL was obliterating local WAMB and cc WJJD; KNBR was way over WPTF; KNX was dominant on 1070 (usually a mess here); and KTWO was twice as strong as WBZ! Thanks to all the IRCA members who commented on the "Monitoring Times" bit on my career...nice to hear from everyone. Finally, I've been reading the comments on the future of IRCA, the Paul Swearingen proposal (and reaction to it), etc. Since I'm a babe in the woods as far as club activity is concerned I don't have scars from whatever battles were fought in the past. Personally, I would hate to see the demise of the IRCA. It has a lot of unique features not available elsewhere. On the other hand, my primary interest...and I think it would be wise for all DXers to consider...is the hobby itself. What's best for the promotion, perpetuation and enjoyment of DXing is best for me (and I think for ALL of us). IF that leads to some sort of future merger, so be it. Let's not let ourselves drown because we're too stubborn to get in the lifeboat! Personally, since I also have an interest in TV and FM, I'd like to see consideration given to some sort of 'super-club' that would encompass ALL forms of DXing...beacons, NWS, short wave, pirates, cellular phones...you name it! We might be light years away from anything like that, but maybe that's a goal that ANARC could work toward. I can see a lot of benefits, such as a large enough membership base that we could afford to put out a much more professional looking magazine and perhaps afford to pay an editor. All our favorite features from all the existing clubs could be carried forward in the new format. How's that for opening a can of worms...just an idea...but I wonder if anyone else has entertained similar thoughts? Enough for now. GoodDXing and plan to be in Nashville July 23-25 for the 1993 WTFDA convention. Doug Smith and I are co-hosting and want to assure you that although it's mainly a TV-FM club, there are a lot of AM guys in our midst and IRCA'ers will be VERY WELCOME! (Tom, would you please send me the address for WTFDA? Thanks.--rce)

R.C. Watts, 4109 Graf Drive, Louisville, Kentucky 40220-3016

From San Cristobal, Panama; sailing from Acapulco on 3/13, I quickly had trouble listening due to rough seas. Thought salt spray on deck wouldn't be good for radio and the only way to get signals at all was to hold radio up to porthole glass down below. Very tiring. We also were out some 300 miles trying to go around the gale produced waves, which killed the locals. Put a pillow on the ledge to lean on the evening of 3/14. "Best of Bohannon" on 740 and something or other on 820. I expect these were KTRH and WBAP as we were directly south of TX. Too many Latins to sort out. PM 3/15 probably KMOX and began to hear VOA. 1530 (poor to fair) and 12580 (VG to excellent) off Nicaragua. Approaching Panama 3/17 recorded a great signal from R. Veraquez-690 in Santiago. Sailing towards the Canal the next morning I began to hear ACA20-790 the AFRTS/SCN outlet. I later recorded their "Diamond FM"-95.1 and (drum roll) H0XO-760 broadcasting in English. Back to the Bible broadcast which said began back in 1939. Halfway through Canal began to lose 790 but ACB20-1420 came up to good strength. Apparently AFRTS knows what it's doing. 95.1 remained good all the way. More when back in the US after reading notes and listening to tapes. Hawg love ya!

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The R-392 is a mobile Signal Corps receiver. Frequency range is 480 kHz to 32 MHz. Operating voltage is 28 VDC at about 4 amps.

The R-392 was developed to satisfy the Signal Corps specification for a portable receiver for vehicular and field use. One is the specifications was "submersible."

After fruitless attempts to adapt the R-390A (when the case was adequately sealed to meet the "submersible" spec, internal temperatures rose to heights sufficient to require an exhaust fan!) the R-392 was developed. While loosely based on the R-390, it is not a 28 volt carbon copy, as is commonly believed. A number of changes were made to accommodate the stiff requirements for a mobile receiver.

The R-392's tubes operate at 28 volts, both filament and "B" supply. Therefore, a high voltage supply is not required. This is a real plus.

The R-392 could never be described as truly portable by today's standards, but it is far more so than an R-390A. It is more compact, lighter, and in my opinion, a lot better looking. Don't get me wrong. Most people wouldn't want one in their living room. However, it looks right at home in the radio room, or in the garage.

A big advantage of the waterproof case is that the interior of the radio should look brand new. While an R-392 may have seen very rough use, it is well built enough to stand it. A surplus R-392 should be in working order, and like new inside. If it is not, send it back.

While many modifications and tips have been developed and published for the R-390A, the R-392 appears to be virtually unsung.

The reason? On the surplus market, the R-392 has typically sold at or near the same price as an R-390A. Why buy an R-392 when you can get a 390A for the same price, with mechanical filters? The 392 has the same selectivity (2, 4, 8 kHz) but the R-392 uses tuned circuits instead. It works well, but does not provide the sharp cutoff bandpass characteristics of mechanical filters.

R-392 prices have recently fallen to about half that of the 390A. It is now a viable alternative for the cost conscious DXer. A 392 can be had for \$165 at current levels. This is far less than most of the good portables, and the R-392 will outperform them.

It appears that most of the R-390A mods will not work for the R-392. Many of these mods are in the form of tube substitutions. These tubes will not work in the R-392. However, the longwave mod for the 390A will work exactly the same way on the 392.

The 392 suffers from the same ABC problem as the 390A. It looks like the synchronous detection mod published by Mr. Graham Maynard of North Ireland (note 1) for the 390A should work here. I have not tried it. The tubes in the R-392 are different. I am contacting Mr. Maynard for details on the modification, to see if it can be used on the R-392.

The 28 volt DC is no problem. Fair Radio Sales of Akron OH, who sells the 392 (note 2) has several 28 VDC supplies that will fit the bill. They also have the hard to find power connector plug, as well as tubes, the manual, and other parts.

On tubes: the 26A7 audio output tube is a monster that generates gobs of heat, and uses about half the current delivered. A solid state replacement is a must. A direct plug in module is available from Fair to eliminate this turkey. If your 392 doesn't have one already, get one!

The R-392 has the same 600 ohm headphone output as the 390. If you plan to use low impedance phones, or a loudspeaker, a stepdown transformer is required. (note 3.)

In stock form, the R-392 will outperform most lower cost receivers on the market today. If the RF deck and readout are in proper working order, frequency can be read accurately to within .2 kHz. Sensitivity is excellent. With a simple 36" whip antenna, my R-392 receives as well as anything I've ever used. Add an unamplified box loop, and you have an excellent BCB DXing receiver.

Unlike many surplus receivers, the 392 performs well throughout it's frequency range. There is no drop off at high frequencies. Reception is as good on 10 meters as it is on BCB.

I know what you're thinking: if this is such a great radio, why is no one using it? One reason, as before mentioned, was comparative price. Another reason is selectivity.

Though the 392 has 2 kHz selectivity, it's just not as good as those

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receivers that have mechanical filters. There's a lot of "mud" still in there. Therefore, the 392 is great for domestic BCB DXing, and 5 kHz splits, but it is not likely to split closer channels. For this reason, foreign DXers have shunned it.

But take heart! The author is currently installing a 4 kHz mechanical filter in a 392. If this is successful, there's no reason why the 392 can't perform just as well as a 390A where selectivity is concerned.

The question will then be dynamic range, and how the 392 compares to other receivers in this regard. If a mechanical filter equipped R-392 compares favorably with the 390A, ICOMs, NRDs, etc. in this regard, we may see heightened interest and experimentation with this unique radio receiver.

Another 392 plus: you get a meter! Currently, meters are removed from 390As, as the radium in them is a health hazard. Also, the receiver is effortless to tune. The 390A is famous for it's "cranky" tuning.

It is hoped that this article will stimulate new and heightened interest in this interesting and unique receiver. Questions, comments, & and other thoughts are solicited and welcomed. 73.

1. "Collins R-390A - The Original "World's Best" - Graham Maynard. From "DX News" Volume 59, #28. August 3, 1992
2. Fair Radio Sales - P.O. Box 1105 - Lima OH 45802 - (419) 223-2196
3. For information on the R-390 family of receivers, including the step down transformer, contact Hollow State News-P.O. Box 70223-Riverside CA 92513-0223. Request a reprint of Issues 1-4.

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## IRCA DX TECHNIQUES

Leonard Hyde - 1805 Whipple Dr #26 - Blacksburg VA 24060-2436

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DXING WITH A WINNING GAMEPLAN (conc.) - By Leonard Hyde

### THE FREQUENCY TARGETING METHOD

Here is a good method for beginners and old timers alike. Select the frequencies you want to target. The number is not critical, but don't pick too many at once. I like tens; it's a good round number. The frequencies you choose may depend on a number of factors. You may pick the ones you like, those that look most promising, or pick them at random. I look through the logbook, and pick the ones I have been neglecting.

Get your station list, and plot each unheard station on each channel as before, "Easy, Harder, Hardest," depending on how you perceive each station. Factors to consider are power, hours of operation, distance, interfering stations, etc. Take careful note of any stations noted as NSP (No Silent Period.) Here is a station that may be heard on Monday morning when others are off the air (and maybe prevent you from hearing other stations you want, as well!) Now, note the best time to try for the stations. (SSS, SRS, MM, other.) When you finish with all the frequencies you have chosen, you are ready.

Now when you turn on the radio, hit your target frequencies first. Get the "easys", and move on to the "harders." Try for each station at the time you have noted as best. If you don't get the station, try to figure out why, and adjust your tactics accordingly. Try at different times.

Eventually, you will hear most, if not all, of the stations that are possible from your location on your target frequencies. If you can't hear a station that should be possible, try to find out why. It may be that the station's antenna pattern is such that it is not sending any signal your way at the time you are listening. If this is the case, SRS is a good time to try. Many stations that are directional at night are not so during the day. Keep trying. You may catch the station "skipping in" some winter morning after it has changed to it's daytime pattern.

At the least, this method can help you with your problem channels. Looking through your logbook may reveal that you unknowingly skip over certain frequencies, and spend more time on others. I found this in my own case. For some reason, I had stopped listening on 900 kHz, and several others to a lesser degree. I made these my target frequencies, and have seen the logbook grow accordingly. 73, and good DXing de LLH.

Super-MWDX-5 Phasing Unit  
Mark Connelly - WA1ION - 07 FEB 1993

The Super-MWDX-5 is a phasing unit with enhanced capabilities over the MWDX-5 described in my article of OCT 1991 (available as NRC / IRCA reprints). Added features include transformers for use as part of a noise-reducing antenna system, additional controls to give better nulling ability, and a jack for a "spare antenna" usable for broadband monitoring and quick parallel checks / scanning during DXpeditions. A metal box is used for superior shielding and mechanical ruggedness. A new hardware scheme was developed to "float" the tuning capacitors from chassis ground. This method should be of value to builders of balanced loops that also require a tuning capacitor isolated from chassis ground. The Super-MWDX-5 may be used for two-wire phasing or loop-vs.-wire phasing. In either case, nulls may be obtained that differ in directivity from those achievable with a standard loop; the result is potentially different DX from the loggings acquired with a loop alone. Nulling midwest "clears" to log Europeans at an East Coast US/Canada QTH is definitely a job better suited to phasing than looping. The MWDX-5 article gives useful background information on phasing as well as a list of other articles on the subject. The Super-MWDX-5 uses the BBA-C1 broadband amplifier which has good strong-signal handling performance; the BBA-B used on MWDX-4 style phasers could be substituted in rural areas for reduced battery drain.

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Organization of article

Table 1: Controls and Input / Output Connectors

Table 2: S1 Bandswitch Settings Chart

text: Operating the Super-MWDX-5

two-wire phasing

loop vs. wire phasing

output amplification

New features - notes on noise reducing antenna

systems, spare antenna input

Building the Super-MWDX-5

Figure 1: Super-MWDX-5 input section schematic

Figure 2: Super-MWDX-5 bandswitch / combining section schematic

Figure 3: Super-MWDX-5 output section schematic

Figure 4: (M1) BBA-C1 broadband amplifier card schematic

Figure 5: (M1) BBA-C1 broadband amplifier card assembly

Figure 6: Super-MWDX-5 switch details

Organization of article (continued)

Figure 7: C1, C2 mounting details

Table 3: hole-drilling list

Table 4: "upper level" parts list

Table 5: (A1) BBA-C1 broadband amplifier card parts list

Table 6: small hardware parts list

Table 7: wiring / component connections

Table 8: control orientation conventions

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Table 1: Super-MWDX-5 Controls and Input / Output Connectors

| Controls  |             |                                   |  |
|-----------|-------------|-----------------------------------|--|
| location  | designation | operational description           |  |
| left side | S3          | Ground Mode switch                |  |
| top       | C1          | Line 1 tuning capacitor           |  |
| top       | C2          | Line 2 tuning capacitor           |  |
| top       | R1          | Line 1 level pot                  |  |
| top       | R2          | Line 2 level pot                  |  |
| top       | R3          | Null vernier (Q-balance) pot      |  |
| top       | S1          | Bandswitch                        |  |
| top       | S2          | Function switch                   |  |
| top       | S4          | Input Coupling (length) switch    |  |
| top       | S5          | Output switch                     |  |
| top       | S6          | Wire / Loop switch (Line 2 input) |  |

| Input / Output Connectors |             |                         |                |
|---------------------------|-------------|-------------------------|----------------|
| location                  | designation | operational description | connector type |
| left side                 | J1          | Line 1 wire input       | banana jack    |
| left side                 | J2          | Line 2 wire input       | banana jack    |
| left side                 | J3          | earth ground input 1    | banana jack    |
| left side                 | J4          | earth ground input 2    | banana jack    |
| left side                 | J8          | Loop input              | BNC jack       |
| right side                | J5          | RF output               | BNC jack       |
| right side                | J6          | B+ in                   | phono jack     |
| right side                | J7          | 9V battery holder       | Keystone 1290  |
| right side                | J9          | spare antenna input     | BNC jack       |

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Table 2 (continued)

Table 2: S1 Bandswitch Settings Chart

Ranges are usually a bit greater than those shown. These ballpark values are for 50-m. / 164-ft. wires and the S4 coupling switch set to the "Normal" position. Other positions and wires may alter ranges somewhat.

The Super-MWDX-5 family of phasing units has frequency coverage characteristics as noted in the following table:

| * MODEL: standard Super-MWDX-5 * (LWBC: 130-285; MW: 430-1800) |                           |                |                |             |                            |                      |
|----------------------------------------------------------------|---------------------------|----------------|----------------|-------------|----------------------------|----------------------|
| S1 Pos. #                                                      | S1 Knob Pointer "o'clock" | Min. Freq. kHz | Max. Freq. kHz | "Main" L L# | ["Tap" L] Tank Inductor uH | Mouser Part # Values |
| ==                                                             | ==:==                     | =====          | =====          | =====       | =====                      | =====                |
| 1                                                              | 9:30                      | 130            | 180            | L1, L13     | 4700                       | 434-1120-473K        |
| [ "                                                            | "                         | "              | "              | L7, L19     | 1000                       | 43LR103 ]            |
| 2                                                              | 10:30                     | 180            | 285            | L2, L14     | 2200                       | 434-1120-223K        |
| [ "                                                            | "                         | "              | "              | L8, L20     | 470                        | 43LR474 ]            |
| 3                                                              | 11:30                     | 430            | 630            | L3, L15     | 470                        | 43LR474              |
| [ "                                                            | "                         | "              | "              | L9, L21     | 100                        | 43LR104 ]            |
| 4                                                              | 12:30                     | 630            | 880            | L4, L16     | 220                        | 43LR224              |
| [ "                                                            | "                         | "              | "              | L10, L22    | 47                         | 43LR475 ]            |
| 5                                                              | 1:30                      | 880            | 1260           | L5, L17     | 100                        | 43LR104              |
| [ "                                                            | "                         | "              | "              | L11, L23    | 22                         | 43LR225 ]            |
| 6                                                              | 2:30                      | 1260           | 1800           | L6, L18     | 47                         | 43LR475              |
| [ "                                                            | "                         | "              | "              | L12, L24    | 10                         | 43LR105 ]            |

| * MODEL: Super-MWDX-5A * (LW & MW: 145-2700) |                           |                |                |             |                            |                      |
|----------------------------------------------|---------------------------|----------------|----------------|-------------|----------------------------|----------------------|
| S1 Pos. #                                    | S1 Knob Pointer "o'clock" | Min. Freq. kHz | Max. Freq. kHz | "Main" L L# | ["Tap" L] Tank Inductor uH | Mouser Part # Values |
| ==                                           | ==:==                     | =====          | =====          | =====       | =====                      | =====                |
| 1                                            | 9:30                      | 145            | 230            | L1, L13     | 3900                       | 434-1120-393K        |
| [ "                                          | "                         | "              | "              | L7, L19     | 820                        | 43LR824 ]            |
| 2                                            | 10:30                     | 230            | 375            | L2, L14     | 1500                       | 434-1120-153K        |
| [ "                                          | "                         | "              | "              | L8, L20     | 330                        | 43LR334 ]            |
| 3                                            | 11:30                     | 375            | 620            | L3, L15     | 560                        | 43LR564              |
| [ "                                          | "                         | "              | "              | L9, L21     | 120                        | 43LR124 ]            |
| 4                                            | 12:30                     | 620            | 1050           | L4, L16     | 220                        | 43LR224              |
| [ "                                          | "                         | "              | "              | L10, L22    | 47                         | 43LR475 ]            |
| 5                                            | 1:30                      | 1050           | 1600           | L5, L17     | 82                         | 43LR825              |
| [ "                                          | "                         | "              | "              | L11, L23    | 18                         | 43LR185 ]            |
| 6                                            | 2:30                      | 1600           | 2700           | L6, L18     | 33                         | 43LR335              |
| [ "                                          | "                         | "              | "              | L12, L24    | 6.8                        | 43LR686 ]            |

Table 2 (continued)

\* MODEL: Super-MWDX-5B \* (extended LW: 90-880)

| S1 Pos. # | S1 Knob Pointer "o'clock" | Min. Freq. kHz | Max. Freq. kHz | "Main" L L# | ["Tap" L] Tank Inductor uH | ["Tap" L] Mouser Part # |
|-----------|---------------------------|----------------|----------------|-------------|----------------------------|-------------------------|
| 1         | 9:30                      | 90             | 130            | L1, L13     | 10000                      | 434-1120-104K           |
| [ 2       | 10:30                     | 130            | 180            | L7, L19     | 2200                       | 434-1120-223K]          |
| [ 3       | 11:30                     | 180            | 285            | L2, L14     | 4700                       | 434-1120-473K]          |
| [ 4       | 12:30                     | 285            | 430            | L8, L20     | 1000                       | 43LR103]                |
| [ 5       | 1:30                      | 430            | 630            | L3, L15     | 2200                       | 434-1120-223K]          |
| [ 6       | 2:30                      | 630            | 880            | L9, L21     | 470                        | 43LR474]                |
| [ 7       |                           |                |                | L4, L16     | 1000                       | 43LR103]                |
| [ 8       |                           |                |                | L10, L22    | 220                        | 43LR224]                |
| [ 9       |                           |                |                | L5, L17     | 470                        | 43LR474]                |
| [ 10      |                           |                |                | L11, L23    | 100                        | 43LR104]                |
| [ 11      |                           |                |                | L6, L18     | 220                        | 43LR224]                |
| [ 12      |                           |                |                | L12, L24    | 47                         | 43LR475]                |

\* MODEL: Super-MWDX-5C \* (MW, tropical: 375-6500)

| S1 Pos. # | S1 Knob Pointer "o'clock" | Min. Freq. kHz | Max. Freq. kHz | "Main" L L# | ["Tap" L] Tank Inductor uH | ["Tap" L] Mouser Part # |
|-----------|---------------------------|----------------|----------------|-------------|----------------------------|-------------------------|
| 1         | 9:30                      | 375            | 620            | L1, L13     | 560                        | 43LR564                 |
| [ 2       | 10:30                     | 620            | 1050           | L7, L19     | 120                        | 43LR124]                |
| [ 3       | 11:30                     | 1050           | 1600           | L2, L14     | 220                        | 43LR224]                |
| [ 4       | 12:30                     | 1600           | 2700           | L8, L20     | 47                         | 43LR475]                |
| [ 5       | 1:30                      | 2700           | 4000           | L3, L15     | 82                         | 43LR825]                |
| [ 6       | 2:30                      | 4000           | 6500           | L9, L21     | 18                         | 43LR185]                |
| [ 7       |                           |                |                | L4, L16     | 33                         | 43LR335]                |
| [ 8       |                           |                |                | L10, L22    | 6.8                        | 43LR686]                |
| [ 9       |                           |                |                | L5, L17     | 12                         | 43LR125]                |
| [ 10      |                           |                |                | L11, L23    | 2.7                        | 43LR276]                |
| [ 11      |                           |                |                | L6, L18     | 4.7                        | 43LR476]                |
| [ 12      |                           |                |                | L12, L24    | 1                          | 43LR106]                |

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Table 2 (continued)

\* MODEL: Super-MWDX-5D \* (extended tropical, SWBC: 1260-12500)

| S1<br>Pos.<br># | S1 Knob<br>Pointer<br>"o'clock" | Min.<br>Freq.<br>kHz | Max.<br>Freq.<br>kHz | "Main" L ["Tap" L]<br>Tank Inductor Values |       |               |
|-----------------|---------------------------------|----------------------|----------------------|--------------------------------------------|-------|---------------|
|                 |                                 |                      |                      | L#                                         | uH    | Mouser Part # |
| ==              | ==:==                           | =====                | =====                | =====                                      | ===== | =====         |
| 1               | 9:30                            | 1260                 | 1800                 | L1,L13                                     | 47    | 43LR475       |
| [ "             | "                               | "                    | "                    | L7,L19                                     | 10    | 43LR105 ]     |
| 2               | 10:30                           | 1800                 | 2800                 | L2,L14                                     | 22    | 43LR225       |
| [ "             | "                               | "                    | "                    | L8,L20                                     | 4.7   | 43LR476 ]     |
| 3               | 11:30                           | 2800                 | 4000                 | L3,L15                                     | 10    | 43LR105       |
| [ "             | "                               | "                    | "                    | L9,L21                                     | 2.2   | 43LR226 ]     |
| 4               | 12:30                           | 4000                 | 6500                 | L4,L16                                     | 4.7   | 43LR476       |
| [ "             | "                               | "                    | "                    | L10,L22                                    | 1     | 43LR106 ]     |
| 5               | 1:30                            | 6500                 | 8800                 | L5,L17                                     | 2.2   | 43LR226       |
| [ "             | "                               | "                    | "                    | L11,L23                                    | 0.47  | 43LR477 ]     |
| 6               | 2:30                            | 8800                 | 12500                | L6,L18                                     | 1     | 43LR106       |
| [ "             | "                               | "                    | "                    | L12,L24                                    | 0.22  | 43LR227 ]     |

\* MODEL: Super-MWDX-5E \* (reduced coupling efficiency) (90-8800)

Note: For this configuration, S1 is a 2-pole, 12-position switch. The inductors on the S1A section (L1 through L12) are switched across the C1 stator to R1 arm path. The arm of R1 is tied to a 68 ohm resistor to GND rather than to an S1C "tap L" section. The inductors on the S1B section (L13 through L24) are switched across the C2 stator to S6 "Wire" path. The S6 "Wire" pin is tied to a 68 ohm resistor to GND rather than to an S1D "tap L" section. Output levels with Super-MWDX-5E are reduced from those achievable with models utilizing the S1C / S1D "tap L" architecture.

| S1<br>Pos.<br># | S1 Knob<br>Pointer<br>"o'clock" | Min.<br>Freq.<br>kHz | Max.<br>Freq.<br>kHz | Tank Inductor Values |       |               |
|-----------------|---------------------------------|----------------------|----------------------|----------------------|-------|---------------|
|                 |                                 |                      |                      | L#                   | uH    | Mouser Part # |
| ==              | ==:==                           | =====                | =====                | =====                | ===== | =====         |
| 1               | 6:00                            | 90                   | 130                  | L1,L13               | 10000 | 434-1120-104K |
| 2               | 7:00                            | 130                  | 180                  | L2,L14               | 4700  | 434-1120-473K |
| 3               | 8:00                            | 180                  | 285                  | L3,L15               | 2200  | 434-1120-223K |
| 4               | 9:00                            | 285                  | 430                  | L4,L16               | 1000  | 43LR103       |
| 5               | 10:00                           | 430                  | 630                  | L5,L17               | 470   | 43LR474       |
| 6               | 11:00                           | 630                  | 880                  | L6,L18               | 220   | 43LR224       |
| 7               | 12:00                           | 880                  | 1260                 | L7,L19               | 100   | 43LR104       |
| 8               | 1:00                            | 1260                 | 1800                 | L8,L20               | 47    | 43LR475       |
| 9               | 2:00                            | 1800                 | 2800                 | L9,L21               | 22    | 43LR225       |
| 10              | 3:00                            | 2800                 | 4000                 | L10,L22              | 10    | 43LR105       |
| 11              | 4:00                            | 4000                 | 6500                 | L11,L23              | 4.7   | 43LR476       |
| 12              | 5:00                            | 6500                 | 8800                 | L12,L24              | 2.2   | 43LR226       |

## Operating the Super-MWDX-5

Figures 1 through 3 are the schematics of the Super-MWDX-5. Please refer to them during the discussion of phasing procedure. Use wires at least 15m./50 ft. in length. There should be some angular or distance separation between the wires for optimum results in two-wire applications. See Tables 2 and 8 for physical positioning of switches.

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\*\*\*\*\*  
\*\*\* Super-MWDX-5 Two Wire Phasing Procedure \*\*\*  
\*\*\*\*\*

### 1.0 Phasing Steps (2-wire)

#### (COMMENTS)

The best method of nulling when the two antennas are delivering comparable signal levels (e. g. within 6 dB) differs from that to be used when there is a considerable strength difference (e. g. one of the Beverages or longwires is already throwing a partial null on the dominant; or, one of the wires is considerably longer than the other and, therefore, consistently provides more signal). Unlike previous phasers, the Super-MWDX-5 provides both Q-skewing (R3) and non-Q-skewing (R1, R2) level adjustment methods to handle a wide variety of nulling situations. Certain nulls may be achieved best by a blend of both methods; as operator experience with the unit increases, nulling judgment improves and getting to the desired DX becomes a considerably faster procedure. Nulling procedures sound complicated at first, but are quickly executed once learned. The user should practice during non-skip daylight conditions on "graveyard" and regional channels having discernable subdominants to get familiar with operation of the controls before attempting night-time nulls of unsteady signals. As with a loop, solid nulls of skip stations above 1 MHz in the 50 to 500 mile range are difficult because of the rapid changes in vertical (and sometimes horizontal) arrival angles inherent when dealing with high-angle skip. Such nulls are better when using phased Beverages than when using a loop or phased shorter wires.

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1.1 \*\* INITIALIZATION OF SWITCHES \*\*

Set frequency-range switch S1 to the correct range for the frequency of operation (see Table 2). Set S3 to Common (unless using an antenna system with noise-reduction transformers). Set Input Coupling switch S4 to Normal (or to a different position, depending on experimentation that leads to having determined the best position for a given antenna system). Set S5 Output switch to Phaser / Unamplified. Set S6 to Wire. S2 will be set subsequently.

1.2 \*\* INITIALIZATION OF POTENTIOMETERS \*\*

Set level pots R1 (Line 1) and R2 (Line 2) to fully counterclockwise (minimum attenuation). R3 settings will be made subsequently.

1.3 \*\* CONNECTIONS \*\*

Connect longwire #1 to J1 and connect longwire #2 to J2. If coaxial cable is used (as in a noise-reduction transformers scheme), BNC or SO-239 to dual-banana-plugs adapters should be used to connect Line 1 to J1 (center) / J3 (shield) and Line 2 to J2 (center) to J4 (shield). Otherwise, an available ground may be connected to J3 and J4. Connect phaser's output (J5), via coaxial cable, to the input of the receiver to be used, or to a tunable preamp. between phaser and receiver. Connect a 9V battery to the J7 battery holder and plug P1 into J6, or connect the plug of an 8V to 16V DC power source to J6.

1.4 \*\* PEAK LINE 1 \*\*

(S2 on Line 1 / R3 at center) OR (S2 on Null-a / R3 fully CCW) Tune Line 1 by peaking desired-frequency signal strength with C1. At this time, leave C1 at its peaked-signal position. NOTE THE SIGNAL STRENGTH (observe S-meter, if available, or note audible level).

[At this time, other positions of Input Coupling switch S4 may be tried to see if greater signal transfer is possible. Re-adjustment of C1, and possibly S1, may be needed to re-establish a peaked condition. In any event, the peak should have reasonable Q (be well defined) and C1 should not be set too close to fully CW or fully CCW. In most cases, S4 on Normal will provide good enough signal levels and reasonably sharp tuning not overly affected by differences in length between the two wires to be phased.]

1.5 \*\* PEAK LINE 2 \*\*

(S2 on Line 2 / R3 at center) OR (S2 on Null-a / R3 fully CW)  
Tune Line 2 by peaking the desired-frequency signal strength with C2. At this time, leave C2 at its peaked-signal position. NOTE THE SIGNAL STRENGTH (observe S-meter, if available, or note audible level).

1.6 \*\* DETERMINE POTENTIOMETER TO ADJUST \*\*

-----  
If the dominant-station signal level noted when peaking Line 1 with C1 (step 1.4) is comparable (within 6 dB on meter, or not audibly different) to the strength noted when peaking Line 2 with C2 (step 1.5):

Adjust R3 to search for a null while trying the Null-a and Null-b positions of S2. If a distinct null is found, leave S2 and R3 at the best null-producing settings and proceed to step 1.7a. If a null is not found:

Switch S3 between Line 1 and Line 2 while adjusting R3 to make the observed signals equal on the S-meter (or not audibly different). R3 should, at this point, be close to its center position. Then, proceed to step 1.7a.

-----  
If the dominant-station signal level noted when peaking Line 1 with C1 (step 1.4) is noticeably greater than the strength noted when peaking Line 2 with C2 (step 1.5):

Set R3 to its center position. Adjust R1 to search for a null while trying the Null-a and Null-b positions of S2. If a distinct null is found, leave S2 and R1 at the best null-producing settings and proceed to step 1.7b. If a null is not found:

Switch S3 between Line 1 and Line 2 while adjusting R1 to make the observed signals equal on the S-meter (or not audibly different). Then, proceed to step 1.7b.

-----  
If the dominant-station signal level noted when peaking Line 1 with C1 (step 1.4) is noticeably lower than the strength noted when peaking Line 2 with C2 (step 1.5):

Set R3 to its center position. Adjust R2 to search for a null while trying the Null-a and Null-b positions of S2. If a distinct null is found, leave S2 and R2 at the best null-producing settings and proceed to step 1.7c. If a null is not found:

Switch S3 between Line 1 and Line 2 while adjusting R2 to make the observed signals equal on the S-meter (or not audibly different). Then, proceed to step 1.7c.

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1.7 \*\* CAPACITOR / POTENTIOMETER INTERACTIVE ADJUSTMENTS FOR NULL \*\*  
Perform procedure 1.7a, 1.7b, or 1.7c as determined by step 1.6.

1.7a (Prior adjustment: R3)

If R3 is at center position, or CCW from center:  
Set S2 to Null-a. Adjust C1 to improve the null.  
If the null isn't well-defined or C1 is near the  
CW or CCW end of its range:  
Set S2 to Null-b and re-adjust C1 for the null.

Interactively adjust R3 and C1 to get the best  
available null with these controls.

-----  
If R3 is CW from center:

Set S2 to Null-a. Adjust C2 to improve the null.  
If the null isn't well-defined or C2 is near the  
CW or CCW end of its range:  
Set S2 to Null-b and re-adjust C2 for the null.

Interactively adjust R3 and C2 to get the best  
available null with these controls.

1.7b (Prior adjustment: R1 - e. g. R1 is not fully CCW)

Set S2 to Null-a. Adjust C2 to improve the null.  
If the null isn't well-defined or C2 is near the  
CW or CCW end of its range:  
Set S2 to Null-b and re-adjust C2 for the null.

Interactively adjust R1 and C2 to get the best  
available null with these controls.

1.7c (Prior adjustment: R2 - e. g. R2 is not fully CCW)

Set S2 to Null-a. Adjust C1 to improve the null.  
If the null isn't well-defined or C1 is near the  
CW or CCW end of its range:  
Set S2 to Null-b and re-adjust C1 for the null.

Interactively adjust R2 and C1 to get the best  
available null with these controls.

1.8 \*\* FINAL TOUCH UP TO GET MAXIMUM NULL \*\*

Do the final null "touch-up" with an interactive adjustment  
of C1, C2, and R3.

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