

# DX MONITOR

THE OFFICIAL  
PUBLICATION  
OF THE



INTERNATIONAL  
RADIO CLUB  
OF AMERICA



MARCH 26, 1994 - VOLUME 31 - NUMBER 28 - EDITION 1020 - ISSN 0899 - 9732

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**NEW MEMBER:** JERRY SMITH. **RENEWALS:** E H GROSSMAN, TOM LASKOWSKI,  
DAVID OWENS, MARK CONNELLY, GARY LARSON. WELCOME JERRY & THANK YOU ALL  
\*\*\*\*\*

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WESTERN DX FORUM..8, TECHNICAL TOPICS: DL-1 DELAY-LINE PHASING UNIT..9  
MORE DL-1 IN NEXT ISSUE IF I HAVE ROOM.....  
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**IRCA REPRINTS:** LIST OF REPRINTS FROM IRCA REPRINTS c/o STEVE RATZLAFF  
1885 EAST BAYSHORE ROAD SPACE 90 EAST PALO ALTO CA 94303.....  
\*\*\*\*\*

**IRCA BOOKSTORE:** BOOKSTORE FLYER AVAILABLE FROM: THE IRCA BOOKSTORE  
9705 MARY NW SEATTLE WA 98117.....  
\*\*\*\*\*

**FROM THE PUBLISHERS DESK:** I AM TRYING SOMETHING DIFFERENT THIS TIME  
WITH THE DXM. I AM DOING AWAY WITH THE STAPLES AND YOU WILL READ THE  
DXM LIKE A NEWSPAPER. JUST LAY IT FLAT WITH THE DX MONITOR MASTHEAD UP  
FACING YOU AND TURN EACH SHEET LIKE YOU WOULD A NEWSPAPER. THE REASON  
FOR DOING THIS IS TO REDUCE WEIGHT BY GETTING RID OF 3 STAPLES AND IT  
WILL BE EASIER ON THE SORTING MACHINE AT THE POST OFFICE AND ALSO IT  
WILL BE EASIER ON THE PUBLISHER NOT HAVING TO STAPLE. NOW ALL I NEED  
IS A 20 LB #10 ENVELOPE FOR MAILING OUTSIDE THE USA. I AM LOOKING INTO  
OTHER WAYS TO CUT THE AMOUNT OF TIME I SPEND ON THE DXM. I MAY ASK THE  
EDITORS TO PUT FILLER IN THEIR COLUMNS SO I WILL NOT NEED TO DO IT. I  
AM SURE GLAD THE WEEKLIES ARE OUT OF THE WAY. SOMETIME IT WAS TOUGH BE  
CAUSE SOME EDITORS' COLUMNS GOT HERE ON MONDAY WHICH PUT ME A DAY LATE  
WHICH I DO NOT LIKE. THIS ALSO MEANS YOUR DXM IS A DAY LATE. IF THE  
COPY PEOPLE ARE A DAY LATE THE DXM IS NOW 2 DAYS LATE WHICH IS NOT TO  
GOOD. THE SCHEDULE HERE IS FOR A SATURDAY DEADLINE FOR EDITOR COLUMNS,  
PASTE UP SUNDAY AND BE AT THE COPY CENTER FIRST THING MONDAY MORNING,  
IT HAS NOT WORKED OUT THAT WAY. FOR VOLUME 32 WE WILL KEEP TO THE SCHE  
DULE OF GOING TO THE COPY CENTER FIRST THING MONDAY MORNING. THE BOT-  
TOM LINE IS I SPEND TO MUCH TIME WORKING ON THE IRCA DXM AND RELATED  
CLUB MATERIAL THAT I HAVE NO TIME FOR THE RADIO HOBBY OF LISTENING....  
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**YOUR MARINERS STATION**

# DX TEST BULLETIN

• DX TESTS ARRANGED BY IRCA AND NRC •

SUNDAY, MARCH 27, 1994 - WNRK-1260, BOX 8152, NEWARK, DE 19714 WILL CONDUCT A DX TEST BETWEEN 12:00 & 2:30 AM EST. THE TEST WILL INCLUDE MARCH MUSIC, TEST TONES AND MORSE CODE ID'S. A PORTION OF THE TEST WILL BE CONDUCTED ON THE STATION'S 1.8 WATT NIGHT POWER. PHONES CALLS WILL BE ACCEPTED DURING THE TEST AT (302) 737-5200. NO COLLECT CALLS. RECEPTION REPORTS MAY BE SENT TO: MR. DAVE SCHMIDT. (ARRANGED BY DAVE SCHMIDT FOR THE NATIONAL RADIO CLUB CPC)

SUNDAY, MARCH 27, 1994 - WCGC-1270, P.O. BOX 888, BELMONT, NC WILL CONDUCT A REPEAT OF THEIR DECEMBER DX TEST BETWEEN 3:00 & 4:00 AM EST. THE TEST WILL INCLUDE VOICE ID'S AND MORSE CODE ID'S. FROM 3:00 - 3:15, THE TEST WILL BE RUN ON A 5 KW DAY PATTERN, FROM 3:15 - 3:30, ON A 500 WATT NIGHT PATTERN, FROM 3:30 - 3:45, ON A 1 KW DAY PATTERN, AND FROM 3:45 - 4:00 AM, ON 5 KW DAY PATTERN. SPECIAL QSL CARDS ARE BEING PRINTED FOR THIS TEST AND THE DECEMBER TEST. RECEPTION REPORTS MAY BE SENT TO: MR. BRUCE MUSSO - CHIEF ENGINEER. (ARRANGED BY J.D. STEPHENS FOR THE IRCA CPC)

MONDAY, MARCH 28, 1994 - KCVR-1570, 7808 KELLY DRIVE, STOCKTON, CA 95207 WILL CONDUCT A DX TEST BETWEEN 3:00 & 3:30 AM EST. THE TEST WILL INCLUDE TEST TONES, VOICE ID'S, AND MORSE CODE ID'S. RECEPTION REPORTS MAY BE SENT TO: MR. DAMIEN THORN - ASSISTANT ENGINEER. (ARRANGED BY J.D. STEPHENS FOR THE IRCA CPC)

MONDAY, MARCH 28, 1994 - KOAC-550, 239 COVELL HALL, CORVALLIS, OR 97331 WILL CONDUCT A DX TEST BETWEEN 3:30 & 4:00 AM EST. THE TEST WILL INCLUDE TEST TONES, MORSE CODE ID'S, MARCH MUSIC, & POLKA MUSIC. RECEPTION REPORTS MAY BE SENT TO: MR. ROGER DOMINGUES - CHIEF ENGINEER. (ARRANGED BY J.D. STEPHENS FOR THE IRCA CPC)

MONDAY, APRIL 4, 1994 - KCCR-1240, 106 W. CAPITOL, PIERRE, SD 57501 WILL CONDUCT A DX TEST BETWEEN 1:00 & 1:30 AM EDT. THE TEST WILL INCLUDE BIG BAND MUSIC AND MORSE CODE ID'S. RECEPTION REPORTS MAY BE SENT TO: MR. DAN "D.T." MEYER - MUSIC DIRECTOR. (ARRANGED BY J.D. STEPHENS FOR THE IRCA CPC)

MONDAY, APRIL 4, 1994 - WWOL-780, 1263 WEST MAIN ST., FOREST CITY, NC 28043 WILL CONDUCT A DX TEST BETWEEN 3:00 & 3:30 AM EDT. THE TEST WILL INCLUDE MORSE CODE ID'S & AN UNSPECIFIED SELECTION OF MUSIC. RECEPTION REPORTS MAY BE SENT TO: MR. JULIUS BLANTON - CHIEF ENGINEER. (ARRANGED BY J.D. STEPHENS FOR THE IRCA CPC)

MONDAY, APRIL 11, 1994 - WQPM-1300, P.O. BOX 106, PRINCETON, MN 55371 WILL CONDUCT A DX TEST BETWEEN 1:30 & 2:00 AM EDT. THE TEST WILL INCLUDE MORSE CODE, TEST TONES, VOICE ID'S, AND SONGS ABOUT RADIO. RECEPTION REPORTS MAY BE SENT TO: MR. CHRIS LONDON (WDX0FBJ). MR. LONDON WILL ALSO ACCEPT FAX RECEPTION REPORTS AT (612) 389-1359. AFTER THE MACHINE PICKS UP, DIAL \* 2 (ARRANGED BY J.D. STEPHENS FOR THE IRCA CPC)

MONDAY, APRIL 11, 1994 - KVOW-1450, 603 E. PERSHING STREET, RIVERTON, WY 82501-3605 WILL CONDUCT A DX TEST BETWEEN 2:10 & 2:20 AM EDT. THE TEST WILL INCLUDE TEST TONES & MORSE CODE ID'S. THIS TEST WILL BE REPEATED ON THE SECOND MONDAY OF EACH MONTH AT THIS TIME. RECEPTION REPORTS MAY BE SENT TO: MR. LONNY A. FAIRFIELD (N7TSP) - CHIEF ENGINEER. (ARRANGED BY J.D. STEPHENS FOR THE IRCA CPC)



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Order from: NRC Publications - Box 164 - Mannsville, NY 13661 (NY residents, please add sales tax)

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## DX Worldwide - West

PAT MARTIN PO BOX 843 SEASIDE, OR 97138

Time: UTC

Phone (503) 861-3185

DEADLINE: MONDAYS

Quite a few Latins this week, including a nice report from Tim Hall and Shawn Axelrod.

### PAN-AMERICAN DX ROUNDUP

- 540 MEXICO, Monterrey-XEWA 3/5 1004-excellent man in SS, lively talk and mx. (SA-MB)
- 600 CUBA, 3/8 1000 Time pip, woman w/nx from Habana o/UNID XE station w/local KOGO off. New. (TRH-CA)
- 640 UNIDS, MM 3/7 0620 Venezuela style nxcast, Doorbells, etc. Through KFI, poss. mixing with another UNID, see 3/5 DXWW-E, may have been Cuba or YVQO? (TRH-CA)
- 690 MEXICO, Tijuana-XETRA-3/4 1014 off leaving two UNID XE stations & Japan(693) Lots of SPs lately (TRH-CA)
- 720 MEXICO, UNID-3/7 1213 w/La Buena Suena"(?) program GMT-6 TCs, and temps in C. Very dull programming, maybe XENU running ACIR Sat.feed from Mexico City. (TRH-CA)
- 770 COLOMBIA, Bogota-HJXX 3/4 0441,vy good RCN ID, man talking about elections. (SA-MB)
- 840 t MEXICO, Tepic-XETRY 3/7 0642 fair w/KVEG off-Female DJ "La juv... sensacion...en Tepic" Caught on tape, first catch from Nayarit. (TRH-CA) (Good catch, Tim. PM)
- 970 MEXICO, C.Juarez-XEJ 3/7 0845-poor to fair u/WDAY w/mx made up of lively and ballad types. (SA-MB)
- 1020 TURKS AND CAICOS, Car. Christian Radio-3/5 0328-strong, rel.prm o/KDKA. (SA-MB)
- 1050 MEXICO, Monterrey-XEG-3/5 1035-poor "Ranchera De Monterrey" ID u/CJNB-CKSB off. (SA-MB)
- 1150 MEXICO, Cd. Oregon-XESO 3/7-good, and ID, either a new station or a previously long-silent one. New Sonora #46 XE #239 (TRH-CA)
- 1180 CUBA, Radio Rebelde-3/4 0158 Good w/SS talk and Radio Rebelde IDs o/u Radio Taino. (SA-MB)
- CUBA, Radio Reloj-3/4 0201 very poor, way under others with "RR" s on the hour. (SA-MB)
- CUBA, Radio Taino-3/4 0152 fair w/LA mx,lots of Cuba talk(SA-MB)
- 1500 MEXICO, Mexico City-XEAI-3/4 0043 Good "Radio AI" IDs, into mx and o/u KSTP. (SA-MB)

### TRANS-PACIFIC DX ROUNDUP

- 540 WESTERN SAMOA, Apia-very good with man in Samoan at 0715 on 3/14 Earlier had non-stop Samoan mx. This one is sure a regular these days. (PM-OR)
- 738 TAHITI, RFO-Good with man in FF, nice Island mx at 0650 on 3/14. This one has been good of late. (PM-OR)

### THANKS TO THESE REPORTERS

- SA-MB SHAWN AXELROD-30 BECONTREE BAY-WINNIPEG,MB R2N 2X9 CANADA  
Icom R70 w/Plam Board-4 ft Box loop/Quantium Loop
- TRH-CA TIM HALL-350 G STREET #F-1-CHULA VISTA CA 91910-4559  
Sony 2010, KIWA Loop
- PM-OR YOUR EDITOR  
Drake R8, SP-600-JX17, Term. 200' SW wire, Ground system

# DX WORLDWIDE EAST

EDITOR: JIM HALL ■ 3176 CHELTENHAM CT. ■ GIBSONIA,  
PENNSYLVANIA 15044-8435 U.S.A.

Things are still rather slow, although I'm still managing a good amount of DXing which has been nice for a change. Good to hear from J.D. again also. Although there aren't many reporters this time around, there are some interesting items from both of us. Conditions have been invariably at least semi-auroral with an occasional solar flare, resulting in continued good Caribbean and S. American DX. Central Americans, however, have been conspicuously absent throughout these conditions. Cuban topics anyone? More on the Radio Progreso network: I've heard the net stations signing off at 0600 with the Cuban NA. On occasion, the station will pick up a different cubano net feed after 0600 as evidenced by recent loggings. Examples: Randy's Reloj format on 880 at 0610 in DXM Ed. 1017 a few columns ago. my Reloj format Cubans on 810 and 740 after 0600 this issue, and numerous others. The examples cited are normally Progreso outlets. I recalled seeing in a DXWWII some time ago mentioning the Progreso net going off 0500-0900. Anyway, just be cautious IDing the Cubans (what else is new?). Times are UTC:

## TRANS-ATLANTIC DX

1521 SAUDI ARABIA Duba 0130 3/8 AA talk pr-fr, suprised to hear w/cx favoring LA. WWV had announced a minor geomag.-storm 7 MAR @0300. (J Hall-PA)

## PAN-AMERICAN DX

526 BAHAMAS ZLS Stella Maria 0420 3/5 Z-L-S CW, occ v. good. (J Hall-PA)

535 \*\*\* TURKS & CAICOS: BACK ON 535 FROM 533, still w/paid religion. From 530 to 535 to 533 back to 535. Grenada again not likely to be easily heard. My fiance, who supports my DXing, later commented "...what the he-- are those Bible-thumpers doing?!" (J Hall-PA)

540 MEXICO XEWA Monterrey 0707 1/31 suprised to hear EE lang ID by w mentioning Monterrey, Grupo Radiopolis & output power. Not noted at same time after next hour. (Stephens-AL)

555 ST. KITTS Basseterre R. ZIZ 0306 3/13 gd w/reggae & EE TC "...six minutes after eleven o'clock" by Carib.-acc'td m. (J Hall-PA)

690 \*\*\* ANGUILLA St. John's 0701-0800 3/13 NOT on 700 per Play-DX (via Arctic, from 4/10/93 DXM DXWWII) [if they were trying 700 in '93 the resultant field tests may have proven unsuccessful, hence a return to 690?]. In semi-AUCx noted parallel SW 9785, so the SW is on. Curiously, the 1610 outlet was not heard, just faint traces of TIS's....1610 off at the hour? The Anguillan had long deep fades and had split-sec. diff. in audios compared to the SW, and in fadeouts left the CARACOL Colombian blanking the chan. (J Hall-PA)

705 ST. VINCENT & GRENADINES Kingstown 0253 3/9 lite mx, male ancr, fr w/slop. (J Hall-PA)

740 CUBA 0602 3/12 Reloj metronome fmt replaced normal Progreso net after 0600, as has been the routine much of the time. (J Hall-PA)

770 JAMAICA Spur Tree 0653 3/11 faded up to v gd-strength and almost dominated channel compl. w/fine reggae mx - this a.m. was best ever heard on 770. Colombia and WABC soon recovered and crushed the Jam. (J Hall-PA)

810 CUBA 0620 3/11 Reloj net pgm on this outlet; this after 0600 shut-up of the Progreso net. By 0625 the outlet remained on air but had selected a different unidentified net feed. Mixing w/Bahamas, Colombian, and a little WGY. (J Hall-PA)

BAHAMAS ZNS3 Freeport 0617 3/11 in mess of the Reloj bomb, the mostly dominant Colombian. and occ WGY; //1540 w/EE pop-soul-type vocals, many recognizable as US hits. 810 fr, 1540 poor-nil. This is mostly //1540 but they occ also originate a lot of local

2  
pgm's. With the 10kW DA w/main lobe to N., this is the more likley of the two freq's in the northeast. See also 1540. (J Hall-PA)

- 870 **CUBA** 0550 3/11 weak Progreso parallel, rarely hrd. (J Hall-PA)
- 880 **unID's** 0600 3/11 still cannot ID this "Ocho Ochenta" stn. NOT Mexican, Cuban or Puerto Rican. Suspect YV. Also, at 0600, a totally different stn was heard w/unID NA @s/off, was NOT the "Ocho Ochenta" and will check to see if the NA was simply the Cuban anthem at the Progreso shut-down (see opening comments). DOES ANYONE HAVE AN AUDIO TAPE OF LATIN NA'S I CAN COPY? (J Hall-PA)
- 895 **NEVIS** VON Radio 0039-0100 2/13 fr, peaking at times w/pop mx by Michael Bolton & Whitney Houston, local spots, "VON Radio 895, Nevis Island" ID. Been after this one for years! Country #23. (Stephens-AL) (Congratulations, J.D. . Address is P.O. Box 195, Charlestown. ed)
- 900 **MEXICO** XEW Mexico City 0735-0750 3/7 now, this is a first for me - an equipment test from a Mexican! Steady 1-kHz & rapid step tones, full ID & back into regular programming @0750. Anyone else ever hear a Mexican equipment test (ET)? (Stephens-AL) (I don't believe I've ever heard an LA testing before.....ed)
- 1010 **MEXICO** XELO Chihuahua 2330-2350 2/10 fr, mixing w/KBIS w/rock mx (Def Leppard, Cinderella, Guns & Roses, etc.) & frequent "Lobo" sigs. (Stephens-AL)
- 1500 **MEXICO** XEAI Mexico City 0030-0100 2/13 blowing WTOP away in super AUcx w/ranchera mx, frequent "AI" (pronounced "ayee") slogans. (Stephens-AL)
- 1540 **BAHAMAS** ZNS1 Nassau 0620 3/11 poor-nil, mixing w/KXEL/other domestic(s), //810 w/pop/soul. Signal barely made it in; their pattern on 20kW is highly directional to SSE, primarily to serve the "out islands", per DXWWII and Tom Bryant at WSM-Nashville. This certainly isn't heard often around here. (J Hall-PA)

#### CREDITS:

(Stephens-AL)

**J.D. STEPHENS** 3715 Conger Rd. SW, Huntsville, AL 35805-5725  
(Panasonic RF-2600, Sony ICF-2001, several longwires)

(J Hall-PA)

**JIM HALL** 3176 Cheltenham Ct. Gibsonia, PA 15044-8435  
(Navy SP-600JX17, ICOM IC-R71A, wedge & attic wire)



## WESTERN DX ROUNDUP

**Nancy Hardy**  
2301 Pacific Avenue  
Aberdeen, WA 98520-4527

**★ PRODIGY**  
FMFT21B

WDXR DEADLINES: Mon. April 11, Mon. May 2, Sat. May 28, Sat. July 2.  
Please use Eastern Time.

#### REPORTERS FOR THIS ISSUE:

- (pb) Phil Bytheway-9705 Mary NW-Seattle, WA 98117  
R-70, KIWA loop
- (LG) Larry Godwin-2390 Clydes Dale Lane-Missoula, MT 59801  
Hammarlund HQ-150, Sanserino air-core box loop, KIWA loop
- (TRH) Tim Hall-350 G St. #F-1-Chula Vista, CA 91910  
ICF-2010, KIWA loop
- (HLH) Harry Helms-7445 Andasol St.-San Diego, CA 92126  
Drake R8, Hammarlund 150/160/180, Sanserino & Radio West  
loops phased together
- (GJ) Gary Jackson-7735 Center Parkway-Sacramento, CA 95823
- (SJ) Stephen Jarvis-133 Park #4-Long Beach, CA 90803  
Sony 2010 with no external antenna
- (NP) Nigel Pimblett-1146 Queen Street-Medicine Hat, AB T1A 1B4  
Kenwood R-5000 with KIWA loop and 100' random wire
- 5

- 14
- "XL Radio 1140," song "Sentimental Journey." Lost to KGEM eventually. (RW-CA)
- 1220 KBET CA, Santa Clarita 3/7 0317 in with local ads & ID, over soft chorale on KDPC. (PT-CA)  
 +3/7 0337 noted still with oldies, ID in KDPC null, still not news/talk as reported in M Street. (RW-CA) (Anyone know the correct city of license for KBET? NRC Log lists them as Santa Clarita, M Street lists them as Canyon Country. Whatever they use in hourly legal ID's is official.--NH)
- 1260 KPOW HY, Powell 3/12 0055 weak in KOIT null with C&W music, "1260 KPOW." First time heard and heard while preparing to write this report. (SW-WA)
- 1340 KSGT HY, Jackson 2/10 0130 weak, faded up above the garble with C&W music, then male voice said "KSGT Country" & introed next song before fading back down. New here. (SW-WA)
- 1360 KNNS AZ, Glendale 3/7 0900 hasn't changed calls to KGME yet as reported in M Street Journal. Way over mess on frequency on day pattern with sports talk show, ID "The all-new Sports Radio 1360, KNNS, Glendale-Phoenix." (RW-CA)
- 1370 KWRM CA, Corona 3/6 0130-0224 very loud over KXTL and all others with Spanish talk, ads, and produced ID 0201. Called station to tell them they were probably still on day power/pattern. The DJ no comprende; a second man who spoke a little more English must have understood, as signal disappeared abruptly at 0224. (PT-CA)
- 1400 KODI HY, Cody 3/8 0800 s/on with SSB in the hash. (LG-MT)
- 1440 KRZD CO, Wray 3/4 0804 nice surprise with weather and ID for KRZD and what sounded like KATR in Yuma. (LG-MT)
- KODL OR, The Dalles 3/8 had short ID jingle at 2300 followed by CNN News. (LG-MT)
- KPUR TX, Amarillo 3/8 0805 with call ID following weather, then USA Radio program "Hello USA." (LG-MT)
- 1450 KEYY UT, Provo 3/10 0800 weak above garble, ending a religious program, then a woman gave ID as "KEYY in Salt Lake." I called to confirm that they are licensed to Provo. New here. (SW-WA)
- 1550 KKHI CA, San Francisco 3/7 0500 noted with classical music format still. Expected to change in near future. (MS-CA)
- 1560 KCEB CA, Norwalk 3/1 1250 Cerritos College radio station in well this morning with music by Depeche Mode etc. (MS-CA)
- 1600 KWMX CO, Lakewood 3/3 0100 good, "Mix 107.5" jingles // FM. First time heard in many years & first time with these call letters. (Last heard as KLAJ). (SW-WA)
- 1610 TIS CA, Cajon Pass 3/7 Cal Trans giving wind warning for northbound I-5, strong all night. (GJ-CA)
- DX TESTS**
- 540 KIEZ CA, Carmel Valley 2/14 0345-0400 lotsa back-to-back code with call repeated three times. (pb-WA)
- WGTO FL, Pine Hills MM 2/14 0200-0210 poor-fair on DX test with lots of code ID's. New, FL #4. (TRH-CA)
- 960 KOVO UT, Provo 2/28 0200-0300 DX test heard at huge level as expected on both 5kw & 1kw power. Many voice & code ID's, address, phone and fax numbers and test mentions. Glenn Miller tunes including "In The Mood" and "Little Brown Jug." (MS-CA)  
 +2/28 0247 voice & code ID's clear with swing music mixed in. (SJ-CA)  
 +2/28 DX test good through CFAC with numerous code ID's. (bp-WA)
- 1130 KBMR ND, Bismarck 3/7 0100-0130 surprisingly good over KRDU-CKWX at times, but generally mixing with KRDU. Many "KBMR" code ID's at various times, couple of voice ID's "This is KBMR Bismarck, North Dakota on the air for testing," a couple of C&W music selections. New! (RW-CA)  
 +MM 3/7 0100-0130 poor but easily readable code ID's. Not bad, as I'm in the main lobe of local KSDD! New, ND #4. (TRH-CA)
- 6

- +3/7 0100-0126 with many code ID's and voice ID's. Phased loops were able to knock down local pest KSDO enough for copy! (HLH-CA)
- +3/7 0100-0130 exceptionally good signal on this test - right through KSDO. Many code ID's as well as voice IDs and C&W music by Joe Diffy and Clint Black & Wynonna Judd. My 2nd North Dakota in just a few months. Thanks JDS! Caught it all on tape, too. Very well done. (MS-CA)
- +3/7 0100-0130 test made it through here with Morse code and voice ID's! Strong slop from KHTK-1140 playing C&W music, CKWX-1130 with country and KRDU Dinuba, CA in also. Voice ID 0108, repeated twice, then Morse code. Heard code many times after that and another ID at 0124. (GJ-CA)
- +3/7 0102-0132 over/under semi-local superpest CKWX with many code & voice ID's. C&W music, complete s/off 0132. (bp-WA)
- +3/7 0103 strong code ID's and fairly strong & clear voice ID's, good overall signal. Over/under KSDO and CKWX. (SJ-CA)
- +3/7 0103-0132 heard surprisingly well with voice ID's and code ID's. Some interference from CKWX but considering CKWX is usually very strong here I was surprised how well KBMR was heard. Report sent. (SW-WA)
- +3/7 nothing identifiable through CKWX/KRDU until exactly 0115 when the code IDs started coming through. The last batch was at 0128, through Willie Nelson. Tape sent (first ND from San Francisco). (PT-CA)
- 1150 ?CKX? ME, Brandon 3/7 0300-0330 tentative code ID heard at poor level under local monster KIIS. Recently received verie for their previous test! (MS-CA)
- (CKX) +3/7 0300-0315 tried, not heard, frequency open, too! (RW-CA)
- +MM 3/7 not heard again. I agree with other DX'ers - ~~DO~~ MAY they were running 50kw on either test! (TRH-CA)
- +3/7 0300-0330 test not heard here. Strong Mexican station in with another English station in background. Was station on for test? After 0330 heard station in English talking about Canada, then later heard mention of CBC(?), but unable to ID. (GJ-CA)
- +3/7 KAGO jingle 0258, CBS news at 0300 and teletalk thereafter, along with one or two other unIDs, but no C&W music, tones, or code ID's noted. (PT-CA)
- 1450 KVOW HY, Riverton 3/7 0215-0245 DX test heard in portions with possible code ID's then solid tone for at least 8 minutes towards the end. Signal slightly weaker than usual (when heard on regular frequency check). (MS-CA)
- +3/7 0232 heard code ID through jumble, long tone, another code ID. (NP-AB)
- ?KVOW? +3/7 0235-0245 DX test tried, very weak steady 1 kHz tone yay under mess with KEST nulled, tone over at 0245 but no ID's heard. KVOW heard/verified before on f/c. (RW-CA)
- +3/7 0215-0245 heard possible Morse code at 0237 & 0238. San Francisco station on 1450 in, Yuba City also, plus several others. (GJ-CA)
- (KVOW) +3/7 0215-0225 no sign of DX test amid jumble. (bp-WA)
- 1460 (WIXN) LL, Dixon 2/28 0130-0200 DX test not heard. (MS-CA)
- 1580 (WIWO) IN, South Bend 3/7 0400-0500 DX test not heard. (MS-CA)
- +3/7 0400-0500 test not heard here, only KCHW playing C&W music, and a Mexican station. (GJ-CA)

LOCAL NEWS  
930 CJCA

AB, Edmonton according to the Edmonton Journal this station will start broadcasting again on Easter Sunday as a "Gospel station." They will have a 24 hour contemporary Christian format. There won't be any talk shows, syndicated evangelical broadcasts or other religious programming or phone-in talk shows. As they have yet to approach the CRTC, as of March 4th, I think that April 3rd is a little optimistic. (MS-AB)

1260 CFRN

AB, on April 29th CFRN fired 4 of its 7 DJ's and switched to an automated all music format aimed at females aged 25-40.

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After 1800 MST, there will be one commercial break approximately 25 minutes after the hour. Mornings & afternoons will also have an all music format, but interspersed with live ID's, locally compiled comedy inserts, weekend music specials and taped listener comments. And again just the one commercial break. This is a result of being 11th in a 12 station market. They now ID as "AM-1260, the Music Machine." (MS-AB)

**UNIDS**

- 530 3/7 0323 on this frequency approximately, putting strong het on 530 (possibly 529 or 531) with man saying "Testing 1-2-3-4-5, 5-4-3-2-1," repeated over and over. Strong signal. Ideas? (RW-CA)
- 930 3/7 01030 good looping N-S with NPR news, alone. KAGI or KKXX? Was looking for KTKN-AK! (RW-CA) (Robert, that's an interesting time!--NH)
- 940 3/4 2347 station looped E-W with Chicago Bulls basketball on Bulls Radio Network. (LG-MT)
- 1250 3/7 1022 unID way under KWSU/KLLK looping N-S with kids yelling and screaming, then song about pizza. KKDZ? Are they on the air at this time, and which way are they directional, if so? (RW-CA) (Fits their format, should be on with 5000w non-directional at that hour. "Kids yelling and screaming"? A good description of my average day, hi!--NH)
- 1370 3/7 0350 weak continuous tone noted here under KXTL. (MS-CA)
- 1450 3/3 0806 out of ABC-I news, "You're listening to OK Gold, 1450 and 1490 AM, highs today in the 30's," into 60's rock & roll. Suspect somewhere in northwest U.S. (SW-WA) (Bill says KLBM La Grande, OR is possible as they simulcast KBKR-1490 Baker.--NH)

Welcome to WDXR, Stephen. We hope to hear from you often. The KBMR test sure was widely heard! When we were hearing it so well here in Aberdeen I commented to Bill that I wouldn't be surprised if many of you heard it. ABERDEEN-HOQUIAM '94!!!

## Central DX Roundup



Editor: John C. Johnson

979 Neptune Boulevard Billings, Montana 59105-2129

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### FOR THE RECORD

REPORT ALL TIMES AS EASTERN. DEADLINES: 4/9, 4/30, 5/28, 7/2, 7/30, 8/18, 9/3.

### RIDING GAIN

- [EB-MO] **Eric Bueneman**, NOUIH, 631 Coachway Lane, Hazelwood, MO 63042-1347  
Realistic DX-200, Realistic TM-152 with Worcester Space Magnet-2.
- [TN-WI] **Tim Noonan**, 4609 Crescent Road, Apt. 5, Madison, WI 53711-4672  
Drake SW-4A, "Radio West" loop.
- [TJR-IL] **Thomas J. Reiser**, 9506 South Winchester, Apt. 205, Chicago, IL 60643-1109  
Sony ICF-2003 with built-in antenna.
- [JJR-WI] **John J. Rieger**, 801 Sherman Avenue, South Milwaukee, WI 53172  
Panasonic RF2200, R1000, IC-R70 with Kowalski loop.
- [JcJ-MT] Your editor using an Icom IC-R71A with a Radio West loop.

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## DOWN THE DIAL

- 580 **WILL** IL, Urbana. 3/6 fair to poor with KFNS-590 splash and a weak WIBW under. 1748 with NPR's "All Things Considered." "This is WILL Urbana, a service of the University of Illinois" legal ID at 1759. [EB-MO]
- 1050 **WDZ** IL, Decatur. 3/6 good to fair o/unID C&W. 1727 with CNN Headline News, Marine Corps PSA, spot for college financial aid service. 1730 legal ID. [EB-MO]
- 1220 **KCGQ** MO, Cape Girardeau. 3/4 in steady, but poor. 0204 with "Q-99" ||FM slogan. Top 40 music. New for me. [JJR-IL]
- WLPO** IL, La Salle. 3/4 poor. 0200 with full ID into Ai news. [JJR-IL]
- 1230 **WSOO** MI, Sault Ste Marie. 3/4 clear, but poor. Took 2 hours to get an ID due to fades. "FM 101 and Radio Sue," full ID at 0101. AOR simulcast overnights only. [JJR-WI]
- 1240 **WTAX** IL, Springfield. 3/6 fair to poor w/KFMO & others. 1806 with weather for Springfield, "AM 12-40 WTAX" & "Talk AM 12-40 WTAX" IDs into financial talk show. [EB-MO]
- 1320 **KLWN** KS, Lawrence. 3/3 poor way u/WILS, WJAS, etc. 2247 with sports-talk program. New for me. [JJR-WI]
- 1370 **WCCN** VI, Neillsville. 3/4 signal fair to good. 1858 with local news. 1900 legal ID into SNN news. [TN-WI]
- 1450 **WLEC** OH, Sandusky. 3/7 fair. 0224 with an address on Cleveland Road in Sandusky. Mentioned 102.7 FM WCPZ, no AM call given. [TN-WI]
- 1570 **CHLO** ON, St. Thomas. 3/9 good to poor. 2200-2250 w/country. Slogan "All Hit Country 15-70." No call ID on the hour. Mentions of St. Thomas. Not needed [TN-WI]
- WBGZ** IL, Alton. 3/6 fair to poor w/XERF/WFRL/others. 0103 with USA Radio Network news, network spots. 0107 into "For The People" program. Interference stronger than usual this morning. WBGZ is usually unnullable on 74W night power. [EB-MO]
- 1580 **WIWO** IN, South Bend. 3/4 poor to fair. 1930 ID, ball game from Elkhart. Needed for call charge. This saved me from being up at 3 a.m. for their DX Test. [TN-WI]

## DX TESTS

- 1130 **KBMR** ND, Bismarck. 3/7 DX Test good to fair o/KWKH/WBBR/unID SS. KMOX-1120 splash. 0102 with cycles of "This is KBMR Bismarck, North Dakota on the air for equipment tests." Code IDs also. ND#1 from here. [EB-MO]
- +3/7 DX Test fair to good. 0100 with voice and code IDs. Not needed, but never verified, so a report was sent. [TN-WI]
- +3/7 DX Test good to excellent. 0100 with voice and code IDs. C&W music cuts. New state for me! [TJR-IL]
- 1150 **CKX** MB, Brandon. 3/7 DX Test poor, just barely heard. 0305 with voice ID. [TN-WI]
- 1450(KVOW) WY, Riverton. 3/7 DX Test tried for, but not heard. [TN-WI]
- 1580 **WTWO** IN, South Bend. 3/6 DX Test tentatively heard. Heard very faint code at 0401 and 0414. Unreadable, no report sent. [JcJ-MT]

## 25 YEARS AGO

March 29, 1969 issue of IRCA's "DX Monitor"...David Rogers of Guymon, OK mentioned a report received at KGYN asked for a verie without giving any detail of date, time, nor programming....Fred Osterman of Williamsville, NY added state #40 with WNHV....Jim Mall of Louisville, KY received veries from two France stations in one week, Nancy-836 and Bordeaux-1205....Mark Robinet of Windsor, ON verified state #41 with KGFX.

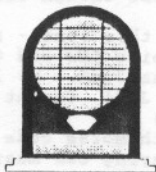
## OPEN MIKE

Gratitude is the most exquisite form of courtesy. Please check the deadlines at the top of the column. We're now at the end of the weekly issues! 73, John-John.

## IRCA Reprints

The IRCA maintains a large file of articles which have appeared in past issues of DX Monitor. These articles cover a wide variety of topics, including: antenna theory and construction, tips for the foreign BCB DXer, how to improve your DXing skills, history of DXing and broadcasting, lists of stations by subject, construction projects and receiver modification, receiver reviews, medium wave propagation, and more. Copies are available for a nominal charge. For a list of reprints, send \$1.00 to:

IRCA Reprints, c/o Steve Ratzlaff, 1885 E Bayshore Rd Sp 90, E Palo Alto CA 94303.



# Eastern DX Roundup

Leonard Hyde  
1805 Whipple Drive #27  
Blacksburg, VA 24060-2436

**DEADLINES:** March 28, April 11, May 2, May 30, July 5, August 1.  
In this, our last weekly issue until next fall, we have an excellent report from new reporter David Warren. Hard to believe another season is over!

## \* CHECKING IN THIS WEEK \*

- (MH) Mike Hardester-3118 Gaitway Ct-Jacksonville NC 28546: ICOM R-70, Radio West Loop  
(JD) J. D. Stephens-3715 Conger Rd SW-Huntsville AL 35805: Panasonic RF-2600, Sony ICF-2001, wires  
(SDW) S. David Warren-1253 C.R. 90-New Albany MS 38652: GE Superadio  
(\*SDW) DXing at a relative's in city of New Albany during ice storm '94, same rx.

## \* HOT TIPZ \*

- 1000 WTAK AL Huntsville no longer rock, no longer // FM. Now UC, w/slogan "Love 1000." (JD-AL)  
1060 WNZD MS Tupelo ex WPMX now // WNZD-FM w/modern country format. Legal ID "WNZD, WNZD-FM: AM 1060, FM 106.7, New Albany - Tupelo." Usually IDs only as "Wizard 106." Was // 92.5 w/UC format. (SDW-MS)  
1210 KGYN OK Guymon Mo 3/7 0200 w/C&W mx on IRN. IDs as "KGYN 1210, Guymon: the information station for the 5 state region." Now heard here regularly at night. Almost surely using ND pattern fulltime now. (SDW-MS) (does any one have any info on this? -ed)

## \* AROUND THE DIAL \*

- 540 WYLO WI Brookfield Tu 2/1 2045 good w/religious mx, wx, and slogan ID: "Today's Christian Country - WYLO." (SDW-MS)  
580 CKWW ON Windsor Mo 2/7 0215 w/NOS mx, and "Memories 58 - CKWW" while WELO was off w/only OC. (SDW-MS)  
760 KFMB CA San Diego Sa 2/19 0130-0200 mixing w/WJR u/string OC. heard talk shows on both stations with "here on KFMB, the Money Show, and Bank of San Diego." Also heard several times since. NRC Logbook #13 lists them as 5000/50000 U2: is this correct? (\*SDW-MS)  
(no idea, David. Maybe one of our Western members could help? -ed)  
770 WWCN FL N. Ft. Myers Fr 2/4 0330 o-u/HJXX w/CNN Headline News. ID at 0345: "AM 770 WWCN, North Fort Myers, talk radio with a twist." (SDW-MS)  
880 WMEQ WI Menomonee Tu 2/1 0015 fair w/C&W mx, and "AM 880 WMEQ" ID. Lost at 0030. (SDW-MS)  
910 KXEB TX Sherman Su 2/20 0300 fair w/Ranchera mx, and EE ID: "KXEB, Sherman - Dallas - Ft. Worth." (SDW-MS)  
990 WNRV VA Narrows We 2/16 0135 w/C&W mx and IDs as "the New River Valley's Kool 100" "the new Kool 100" and "990 AM, 100.7 FM, the valley's most powerful..." Still not heard at home, too much WIVK, XET. (\*SDW-MS)  
++ Sa 3/5 0145-0210 FINALLY logged them w/country // FM. Slogans including "The New River Valley's Kool Country 100.7." (JD-AL)  
CBW MB Winnipeg Sa 3-5 0155-0207 booming in at times over WNRV & WIVK w/program of classical mx called "Songs in The Night." CBC nx, sports, local wx, s/off ancmts. Mentioned FM stations & "goodnight from CBC radio in Manitoba." (JD-AL)  
1010 WMOX MS Meridian We 2/9 1839-1845 Quite strong w/no sign of KBIS.

- Country mx, several local spots. Suspect still on day power. (JD-AL)
- 1050 KLOH MN Pipestone Mo 2/21 0430 fair in XEG null w/C&W mx and "Stereo Country - KLOH." Also heard 2/24 at 0050 w/C&W mx and legal ID at 0100. Thanks to Tom Bryant for report in EDXR! (SDW-MS)
- 1130 CKWX BC Vancouver Mo 2/21 0300 fair at times but long fades w/C&W mx, news from Standard Broadcast News w/ments of Vancouver and Ontario. ID as "This is Country Music Radio" at 0330. "CKWX Weather" presented by B.C. Country Music Association and at 0400 ID: "Country Music Radio - 1130 CKWX." (SDW-MS)
- 1140 KSSQ TX Conroe Sa 2/12 1903-1920 fair o/WRVA w/black gospel, frqt "Heaven 1140" slogans. S/off ancmts by man at 1915 said owned by Martin Production Co. w/studios and xmtrs at 300 Bryant Road. (JD-AL)
- 1150 WLOC KY Munfordville Mo 3/7 0305-0322 good at times w/country mx, frqt "Real country WLOC" slogans. Mentioned FM 102.3 a couple of times, so probably a simo. (JD-AL)
- 1210 KGYN OK Guymon Mo 2/21 0420-0445 strong, no sign of WOGL. W/IRN programming. "KGYN Guymon" jx, "KGYN color radar forecast." (JD-AL)
- 1220 WENC NC Whiteville We 2/2 1745 fair w/local spot and "AM 1220 WENC" ID. (SDW-MS)
- 1250 KGDD TX Paris Sa 3/5 0222-0240 good at times w/satellite oldies, slogans including "the home of good time rock & roll, AM 1250 KGDD" & "K-good is stereo 1250 KGDD." (JD-AL)
- 1370 WCCM WI Neillsville Sa 3/5 0550 w/NOS mx and legal ID at 0600: "AM 1370 WCCM Neillsville." Very strong for 40 watts. (hi) (SDW-MS)
- 1420 WHK OH Cleveland Mo 2/7 w/ID at 0300: "This is Cleveland's first talk station, WHK - Cleveland." Mixing with WOC, w/WVJS apparently off. (SDW-MS)
- 1470 WRBD FL Pompano Beach Sa 3/5 0240-0250 fair w/rap mx, frqt DJ chatter between songs w/many mentions of "... on 1470 AM WRBD." (JD-AL)

\* DX SPECIALS \*

UNLESS OTHERWISE NOTED, ALL DX TESTS REPORTED IN EDXR ARE ARRANGED BY J.D. STEPHENS AND THE IRCA C.P.C. FOR THE INTERNATIONAL RADIO CLUB OF AMERICA.

HEARD:

- 540 WGT0 FL Cypress Gardens Mo 2/14 0200-0300 fair, under WSTH w/slow code IDs, and also code IDs at faster speed. Voice ancmt mentioning DX test & location as Pine Hills/Orlando. Polka mx. (JD-AL)
- 960 KOVO UT Provo Mo 2/28 0200-0300 caught two definite code IDs mentioning Provo. New, UT #4. (JD-AL)
- ++ heard thru WERC/KZIM interference w/code IDs only 4 times. Also heard some mx, but not sure if them. (SDW-MS)
- 1130 KBMR ND Bismarck Mo 3/7 0100-0130 caught many code IDs giving CLs many times, and mentioning Bismarck. New, ND #4. Many voice IDs and country mx noted also. (JD-AL)
- 1260 WNUU SC Greenville Mo 2/28 0130-0200 NRC DX TEST heard w/continuous code IDs & tones. (JD-AL)
- WEKZ WI Monroe Su 2/27 0100-0145 NRC DX TEST heard w/tones & code IDs. Test ran longer. (JD-AL)
- 1460 WIXN IL Dixon Mo 2/28 0130-0200 heard almost continuous code IDs mentioning city. (JD-AL)
- ++ heard w/code IDs at 0142 and 0146 thru WXOK, WPNX, WKRP, and WNAU OC on 1470. (SDW-MS)
- 1580 WIWO IN South Bend Mo 3/7 0400-0500 heard w/many weak code IDs. Several CL strings noted. (JD-AL)

NOT HEARD:

- 540 KIEZ CA Salinas Mo 2/14 0330-0400 not heard. (JD-AL)
- 550 KARI WA Blaine Su 2/20 0400-0500 NRC DX TEST not heard. (JD-AL)
- 560 WHND MI Monroe Mo 2/28 0000-0030 not heard, only KLVI, WHBQ w/sports talk, and WIND in SS. (SDW-MS)
- 590 KGLE MT Glendive Mo 2/21 0330-0400 NRC DX TEST not heard. (JD-AL)
- 910 WNEZ CT Farmington Sa 2/26 0000-0030 DX test not heard. (JD-AL)
- 1260 WEKZ WI Monroe Su 2/27 0100-0130 not heard, just the usual "trio" (WIBY, WNDE, KTTS.) (SDW-MS)
- 1260 KPOW WY Powell Su 2/20 0300-0330 NRC DX TEST not heard. (JD-AL)
- 1300 KLER ID Orofino Su 2/20 0201-0230 not heard, only stn w/sports talk from

MI: (SDW-MS)  
(see JD's comment below. -ed)

- 1320 WDMJ MI Marquette Mo 2/7 0100-0200 not heard, only KXYZ, WJAS and several others. (SDW-MS)  
1340 KVBR MN Brainerd Su 2/20 0100-0130 NRC DX TEST not heard. (JD-AL)  
1450 WDLB WI Marshfield Mo 2/21 0230-0300 not heard. (JD-AL)

**TENTATIVE:**

- 560 WHND MI Monroe Mo 2/28 0000-0030 heard several tones and a couple of possible code IDs. (JD-AL)  
1130 KBMR ND Bismarck Mo 3/7 0100-0130 not definite. Noted bits of code at various times, but no definite ID. HORRENDOUS het, and WBBR QRM. (MH-NC)  
1150 CKX MB Brandon Mo 3/7 0300-0330 caught a couple of TTs during first half of test. (JD-AL)  
1450 KYOW WY Riverton Mo 3/7 0215-0245 heard one possible code ID & a couple of TTs in talk breaks on local WTKI. (JD-AL)

**DID NOT RUN:**

- 1300 KLER ID Orofino Su 2/20 0201-0230 test did not run. Despite a telephone conversation a few days before the test to confirm test date & time, I received a phone call from station owner Jeff Jones on 2/22 saying the test did not run. Will Be rescheduled. (JD-AL)

**EQUIPMENT TESTS:**

- 760 WENO TN Nashville Sa 2/19 0210 w/REL mx and legal ID. (SDW-MS)  
1110 WBCA AL Bay Minette Mo 2/28 0125 w/AC mx and ID: "This is WBCA Bay Minette AL conducting a test. The time is 12:34." (SDW-MS)

**\* WHO DAT? \***

- 950 ??? Su 2/27 0230-0300 station w/NOS mx, seemed to loop NW/SE. KLIK, KYGO, WJPC all weak, and KAZC nulled. Faded at ID time. (natchery! -ed) CBW in very strong earlier, and WCCN also heard. Any ideas. (SDW-MS)  
(note that David eliminated all the above mentioned stations from consideration by noting that he heard them. A very good idea when reporting unIDs. -ed)  
1190 ??? Sa 3/5 0615-0630 u/WOMO w/C&W mx and "Hot Country 102.5" mentions. At first thought WANN, but no 102.5 in Annapolis. Ideas? (SDW-MS)  
(WBSL? -ed)  
1360 ??? Tom Bryant's Morse Code like gibberish is also being heard here at night, not only on 1360, but also on 1340 (on my Superadio II.) I assumed it was a problem w/the rx until he also heard it. I have no idea what is causing it. (SDW-MS)  
(glad you brought that up, David. I forgot to mention it, but Tom and I discussed this at length a few weeks ago. Tom is of the opinion that it is caused by low frequency data transmission over high tension power lines. I had no idea that this was done, but Tom assures me that it still is, in some places. He mentioned that a number of people in the Southeast are hearing it. Also, it could be SW mixing products, or some kind of scrambled communication link on another frequency that is leaking harmonics or spurs at the received frequency. I encourage all readers to report any such reception, and inform us of any changes. Thanks. -ed)

**HELP:**

- 890 KVOZ TX Laredo JD's unID here in DXM #20 w/"Radio Cristiana" slogan is KVOZ. First heard them here about a year ago using this slogan. They are // KVBR-1210 San Juan TX. (SDW-MS)  
960 WPRT KY Prestonsburg can verify that JD's "WPRT?" in DXM #20 is WPRT in Prestonsburg KY. Also heard here on 1/4 w/out any legal ID, but heard again w/ID on 1/6 as "WDHR, WPKE - Pikeville: WPRT Prestonsburg, & WTKE FM 103, Elkhorn City." (SDW-MS)

**\* HEADLINES FROM HQ \***

Thanks to Mike & J.D. for supporting EDXR this week, and welcome David! Hope you report often, David.



Robert Wein, 1309 Dentwood Dr. San Jose CA 95118

[3/7] I'm a bit late for the anniversary issue, but still want to wish IRCA a happy anniversary! A reintro: I'm 33, have been an IRCA member since 1976, and work at Lockheed in Sunnyvale, CA. I am currently the Broadcasting Info column editor, and am in the process of giving up the frequency check list editorship to become the new Graveyard Records list editor, so everyone please start sending me your GY DX records! This should be a fun column to edit! DX has been pretty good of late, logged the KBMR-1130 test last night, for a newie 11 out of the past 11 MM's which for me nowadays is pretty good! On the call change front, KROW-780 NV. has been granted KKOH but is still KROW as of 3/7, KNNS-1360 AZ. has been granted (and should've been) KGME by now, but still KNNS as of 3/7. KKSJ-1370 will be on the air 3/15 vice 3/1 (whew!) so I've got one more MM of DX on 1370 before they come back on (supposedly...). Please support me in my new editorship, anyone have ideas on a hand-held great circle distance calculator I can find? 73's.

Gary Larson, 2806 Lincoln, Burbank CA 91504

818-841-8431

[3/4] Since I missed the anniversary issue, I thought I'd better send a short Forum. I've been a member for many years and enjoy learning of changes in AM stations as well as forums from members. Previous number 841-5420 had people calling the former subscriber so I got another one, ending in 8431. Currently am unemployed, and have years of security experience. I also run for health, too. Nothing new yet on 1500 here but 1030 Folsom KIOQ is expected to go on once trans. and towers are up near Trobe, CA. Great to see the Hardy's will host the '94 convention. 73

John C. Johnson, 979 Neptune Blvd, Billings MT 59105-2129

406-259-9210 E-Mail: JohnJ53816@aol.com

[2/20] I have to agree with Ralph (WDXF Vol.31 #24) that one award is enough. I don't think one had to know Ted to appreciate a TVA award. I've been in the club since day one and have been nominated just once, but never won the award. I can understand Ralph's being proud to display his award. Considering everyone will die someday, and considering there are quite a number of outstanding members in the club that should be remembered, we could end up with hundreds of such awards at some point if this gets out of hand. No disrespect to Ric, but there have been quite a number of people in the IRCA over the years that have died that have meant as much to the club as Ric. Perhaps we should just consider the TVA as an IRCA memorial award for all that have died? Similar to the "unknown soldier" memorial? Perhaps it would help if we reprinted how the TVA was established? 73, John.

-----31-28-----

## IRCA BOOKSTORE

International Radio Club of America publishes several items which are available from the IRCA Bookstore.

### IRCA AM-FM ALMANAC, 5th Edition 1991 - (Reprint)

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

IRCA AM-FM Almanac is available loose leaf or comb bound (please specify). Prices are:

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

IRCA AM-FM Almanac, 5th Edition 1991 Updaters are also available from the IRCA Bookstore!

Updater 5.1 - Almanac index, AM slogans. Updater 5.2 - Satellite Music Network, Unistar/Transtar, talk updates, BRN, 1991 Baseball. Updater 5.3 - updated NFL and college football, NHL Hockey, 530/1610 TIS/Highway Radio update, Rush Limbaugh. Updater 5.4 - updated NBA and college basketball, ABC-AP-UPI-USA network lists, ESPN-SEN sports talk lists, Canadian Music networks and more. Updater 5.5 - 1992 baseball, Spanish networks, Interstate Radio Network and AM Slogan list updates.

Each IRCA AM-FM Almanac, 5th Edition 1991 Updater is 20 pages. Price \$2.00 US and Canada, \$3.00 elsewhere.

(NOTE: IRCA Almanac (third and fourth editions) are still available for \$5.00 (overseas airmail add \$2.50))

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The DL-1 phasing unit is a delay-line based design similar to Gerry Thomas's Phase One. His 1985 article "The Phase One - A Delay Line Phasing Unit" is available through the NRC and IRCA reprints services. Gerry's design was the first real usage of this technology as applied to medium-wave DXing. The Phase One was derived from an HF phaser presented by John Webb in QST (October 1982). The DL-1 updates the concept and uses a delay-line (RCD P2420-600NS-100) that is somewhat less expensive (about \$20) and more available than the Allen Avionics LC300Z050A specified for the Phase One. Unlike the Phase One, there are no broadband amplifiers in the DL-1. It is a totally passive unit which is meant to work into a companion regenerative preselector (Mini-MWT-3) when additional gain is required. Tests here (3 miles from 50 kW WRKO - 680) indicate that, in urban and suburban settings, running a broadband antenna (e. g. untuned longwire) into a broadband amplifier is just a bad idea. Even if the broadband amplifier is robust enough not to generate noticeable second and third order intermodulation distortion products with amplifier outputs around +20 dBm (local station frequencies), the receiver may not fare as well. You want to boost weak signals without boosting already-strong local stations 100 kHz or more away from the frequency of interest. There are very few instances in which a broadband-amplification-after-broadband-phasing scheme will result in as low a noise floor and as good immunity to spurious signals as a tuned amplification approach would. In many cases, at least with longer wires and a good receiver such as a JRC NRD-535D, Drake R8, or Hammarlund HQ-180A, amplification is not necessary. This is especially true on "normal" nights when the desired DX left after "pest" nulling can still be of appreciable strength.

The DL-1 has enhanced flexibility in controlling nulls because the levels of Antenna Line 1 and Antenna Line 2 are both adjustable; also, each line can be connected alone to facilitate level balancing and appraisal of each antenna's directional pickup characteristics.

Noise-reducing principles have been incorporated by the provision for floating (non-chassis) grounds at the J3 and J4 inputs.

### Principles of Delay-Line Phasing

In order to null out unwanted station "A" and hear subdominant (desired DX) station "B" when using two wires, the difference in phase between "A" and "B" on Antenna 1 should differ appreciably from the difference in phase between "A" and "B" on Antenna 2. This condition will most often occur when the "A" and "B" signals are coming from different directions and the wire antennas are oriented somewhat differently. What the phasing unit must do is to equalize the levels of Antenna 1's pest station "A" contribution to that from Antenna 2 and to provide a 180 degree phase shift of "A" from Antenna 1 to Antenna 2 entering the summation point. Level-equalization is most easily accomplished when the two wires are of similar length. If the equal-amplitude / opposite-phase condition is met, station "A" is nulled, leaving "B" in the clear. Station "B" might be reduced somewhat as well, or it may actually be increased in level, depending on how different the phase difference ("A" to "B") is on Antenna 1 relative to that difference on Antenna 2. The occasional instances of desired DX stations getting nulled along with co-channel pests from a different direction can be minimized by having more than two longwire antennas available. Three wires give 6 possible pairing combinations (1 vs. 2; 1 vs. 3; 2 vs. 3,

5. Run R2 through its range (now that R3's position has been changed). If a dip then occurs, leave R2 at that setting and proceed to step 8. If null-initiation still hasn't occurred, set R2 to "12 o'clock" (center).

6. Run R3 through its range (now that R2's position has been changed). If a dip then occurs, leave R3 at that setting and proceed to step 8.

7. Swapping the antenna inputs and/or trying a different S2 (Frequency Range) setting (before re-iterating steps 1 through 6 above) may help in the rare cases in which a null will not set up satisfactorily.

The second part of nulling is to maximize the null that has already been initiated.

8. Deepen the null through small, careful adjustments of all three pots (R1, R2, R3) in a repetitive sequence. Before doing this, make a mental note as to where the three knob pointers are set just in case you overshoot the ideal setting of one of the pots and have to backtrack. When you're done, previously-covered DX stations should be audible.

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#### Application Notes

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Loop versus wire operation is not recommended because a broadband source (wire) phased against a tuned source (loop) will make a thorough null of offending-station audio difficult because of the different frequency-response curves and group-delay properties of the two sources. Two loops of similar Q and gain could conceivably be phased by passing their outputs through the DL-1. The loop heads should be aligned at right angles to each other and at approximately 45 degrees to the pest station (one loop 45 deg. clockwise, one 45 deg. counterclockwise of the bearing of maximum pest pickup). When two-loop nulling is nearly completed using normal DL-1 procedures, the last few dB of null may be "squeezed out" through fine adjustment of either loop's physical position and/or loop tuning capacitor settings.

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1+2 vs. 3, 1+3 vs. 2, and 1 vs. 2+3). If there are substantial angular spreads between the three wires, almost any nulling situation can be managed. Desired DX close in bearing to pests to be nulled can sometimes still be listenable if the vertical arrival (skip) angles differ. Use of Beverage-length (over 300 m / 1000 ft.) wires helps in such cases.

The goal of both the delay-line and the L/C type (e. g. MNDX-5) phasing units is to provide a continuously-variable phase shift of the signal contributions from one or both of the antenna inputs. The delay-line method provides continuous shift on one of the two lines: Line 2 in the DL-1 case. To provide a full 360 degrees of shifting, a 0-deg. / 180-deg. vector is provided by R2 across the T2 balun secondary and a 90-deg. / 270-deg. (approximate) vector is provided by R3 after the delay-line with range-switch S2 set to the tap providing a delay time of a quarter of a cycle of signal frequency (250 ns at 1 MHz). The 0/180 and the 90/270 vectors are summed to provide a variable-amplitude vector that can be "rotated" through a complete 360 degrees of shift. The delay time (tap) setting is a good deal less critical than you would think. I've labelled S2 positions as "low band", "mid-band", and "high band" but, in reality, the setting of S2 is not too important.

The R1 (Line 1) potentiometer reduces the level of pest station signal from Antenna 1 in cases when it is substantially larger than pickup of the same station on Antenna 2. Without this capability, it would not be possible to equalize the Antenna 1 contribution with the 180-degree shifted Antenna 2 contribution and a null would not be produced.

The RCD P2420-600NS-100 delay-line has 20 taps on it; these provide more delay times than needed. The four taps connected to S2 have been chosen for best performance at medium-wave frequencies. I've tested the DL-1 on longwave, 160-meters, and tropical bands and nulls of electrical noise and of steadier signals have been obtainable. Of course, a switch with more positions could be used at S2 if a given DXer wanted to utilize more of the taps.

The user will find that nulling with the DL-1 can be simpler than nulling with L/C design units because there are fewer knobs to tweak. The broadband delay-line based phasing approach does have as an advantage the ability to QSY (change frequency) to scan the band and to check parallel frequencies on both medium-wave and shortwave quickly. These features can come in handy on Beverage DXpeditions and in other cases when a good opening is bombarding you with rare DX and you want to get maximum loggings in minimum time.

A tuned L/C phaser can provide somewhat higher signal levels than a broadband delay-line based unit such as the DL-1. Also, in urban areas, the preselection provided by an L/C phaser such as Super-MWDX-5 can reduce the likelihood of the receiver being overloaded and producing spurious signals. There are advantages and disadvantages to both delay-line and tuned L/C type phasing unit designs.

For adequate signal levels with the DL-1, the minimum suggested wire length for each antenna is 30 m. / 100 ft. Wires much shorter than Beverage length should be aligned for an angular spread of 45 to 135 degrees, or 225 to 315 degrees, between them. Slopers and Beverages may work best with a 180 degree spread as they would each have distinct inherent nulls in opposite directions. I use one sloper that nulls about 10 dB to the west and another that nulls about 10 dB to the east. Phasing with that set-up is good because virtually no eastward signals come off the westward-favoring sloper when the amplitude of its western pick-up is

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reduced to the same level as the fairly-low (180-degree shifted) western pick-up of the eastward-favoring antenna. The result is little or no cancellation of eastward Trans-Atlantic stations when pesty midwest clears are nulled. Indeed, stations easily heard on the phased wires (such as Algeria - 891 with WLS - 890 nulled and England - 1089 with WBAL - 1090 nulled) are often just loud hets on any loop used.

#### Operating the DL-1: Initial Set-Up

The controls, as shown in Figure 1, are R1 (Line 1: level), R2 (Line 2: 0/180 deg. level), R3 (Line 2: 90/270 deg. level), S1 (Ground Mode: FLOAT or COMMON), S2 (Frequency Range), and S3 (Function: Ant. Line 1, Ant. Line 2, Null-a, Null-b). Connect one antenna wire to J1 and the other wire to J2. Floating grounds (e. g. sets of ground rods separated in distance from mains / receiver chassis ground) may be connected to J3 and J4 for reduction in electrical noise. Coaxial feeders from remote noise-reducing 'Bevmatcher' style transformers can be connected to J1/J3 (Line 1) and to J2/J4 (Line 2). S1 is set to FLOAT if noise-reducing grounding is available; otherwise it should be set to COMMON. Frequency range switch S2 should be set to Low Band for coverage below 800 kHz, Mid-Band for 800 - 1400 kHz, or High Band for above 1400 kHz. There is a fourth position of S2 (Auxiliary or "I"), an experimental setting which may occasionally yield better nulling, especially in the Tropical Band frequency range. The settings of S2 are approximate, not overly critical, and somewhat affected by antenna length. Settings of S3, R1, R2, and R3 are discussed in the Nulling Procedure to follow.

#### Operating the DL-1: Nulling Procedure

The first part of nulling is to determine which of the three level pots (R1, R2, or R3) has the greatest initial effect in setting up a null. All three pots' knob pointers should first be set to "10 o'clock" where "8 o'clock" represents the fully counterclockwise (CCW) setting.

1. Set S3 to Null-a and observe the strength of the dominant "pest" station to be nulled as you run R1 through its range. If there is a distinct "dip" in strength and a possibly greater evidence of other stations, leave R1 at that null-initiating setting and skip to step 8 below, unless the dip occurs at the fully-clockwise (CW) (e. g. "4 o'clock" R1 pointer position).

2. Set S3 to Null-b and run R1 through its range. If a dip then occurs and R1 is not fully CW, leave R1 at that setting and proceed to step 8. If null-initiation still hasn't occurred, set R1 back to "10 o'clock" and switch S3 repeatedly between Ant. Line 1 and Ant. Line 2. If the pest station strength is noticeably higher on Ant. Line 1, adjust R1 such that signals from the pest station are about equal when S3 is switched back and forth from Ant. Line 1 to Ant. Line 2. If Line 2 had been stronger, return R1 to "10 o'clock". Put S3 on the null position (Null-a or Null-b) exhibiting the greater reduction in pest station strength (default to Null-a if there is no difference).

3. Run R2 through its range. If a dip then occurs, leave R2 at that setting and proceed to step 8. If null-initiation still hasn't occurred, set R2 back to "10 o'clock".

4. Run R3 through its range. If a dip then occurs, leave R3 at that setting and proceed to step 8. If null-initiation still hasn't occurred, set R3 to "12 o'clock" (center).

5. Run R2 through its range (now that R3's position has been changed). If a dip then occurs, leave R2 at that setting and proceed to step 8. If null-initiation still hasn't occurred, set R2 to "12 o'clock" (center).

6. Run R3 through its range (now that R2's position has been changed). If a dip then occurs, leave R3 at that setting and proceed to step 8.

7. Swapping the antenna inputs and/or trying a different S2 (Frequency Range) setting (before re-iterating steps 1 through 6 above) may help in the rare cases in which a null will not set up satisfactorily.

The second part of nulling is to maximize the null that has already been initiated.

8. Deepen the null through small, careful adjustments of all three pots (R1, R2, R3) in a repetitive sequence. Before doing this, make a mental note as to where the three knob pointers are set just in case you overshoot the ideal setting of one of the pots and have to backtrack. When you're done, previously-covered DX stations should be audible.

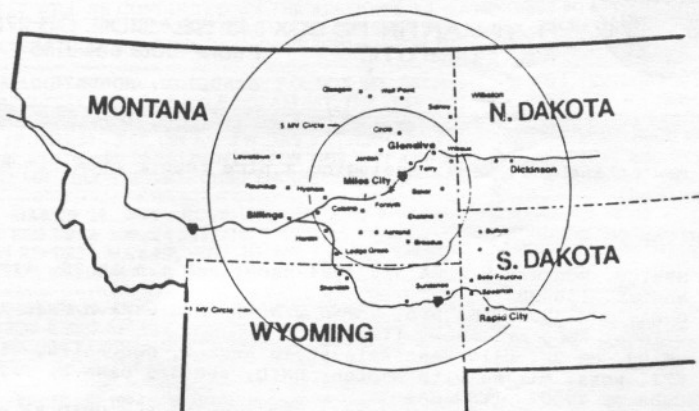
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# KATL 770 / *Katl Country*



## THE INTERNATIONAL RADIO CLUB OF AMERICA (IRCA) PO Box 70223 Riverside CA 92513-0223

The IRCA is a non-profit organization devoted to the hobby of hearing distant stations on the AM Broadcast Band (510 - 1720 khz). **DX Monitor**, the official publication of the IRCA, is published 34 times a year, weekly from October to March, twice in September and April, and monthly from May to August. **DX Monitor** contains members' loggings, articles on radio stations, receiver reviews, technical articles, DX tips, and other material of interest to Broadcast Band DX hobbyists. IRCA is a member of ANARC, the Association of North American Radio Clubs.

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