

APRIL 24, 1993 - VOLUME 30 - NUMBER 30 - EDITION 988 - ISSN 0899 - 9732

NEW MEMBER: Dr M Schwartz. Welcome Dr Schwartz glad to have you on board.

IN THIS ISSUE: A WORD FROM YOUR CPC, COLORED COVERS, AUCTION ITEMS, BROADCASTING INFORMATION, DX WORLDWIDE EAST, DX WORLDWIDE WEST, DX WORLDWIDE EAST EXTRA, WESTERN DX ROUNDUP, CENTRAL DX ROUNDUP, EASTERN DX ROUNDUP, WESTERN DX FORUM, EASTERN DX FORUM, MARK CONNELLY'S SUPER MWDX 5 PHASING UNIT (I made the MWDX 5 into a booklet format and you can put the booklet together. This thing is 30 pages long so will take a couple of issues)...

A WORD FROM YOUR CPC...

Thanks to everyone who supported the Courtesy Program Committee, the '92-'93 DX test season was even more successful than last year. Your donations made it possible to arrange DX tests from 46 different stations. The CPC sent out 363 letters to stations, with a success rate of 12.7 %. Your donations also helped cover the cost of mailing certificates and Morse code tapes to testing stations, as well as phone calls and letters to stations to confirm upcoming tests, along with all associated printing and mailing of letters to stations, mailings to Glenn Hauser, and FAX charges for DX test information sent to Monitoring Times. The following people supported the CPC with donations of money, stamps, or supplies during the '92-'93 DX season:

- | | | | | |
|-----------------|----------------|----------------|-----------------|---------------|
| Ray Bauernhuber | Tom Bryant | Phil Bytheway | Bryan D. Clark | Larry Godwin |
| Tim Hall | Mike Hardester | Lynn Hollerman | Leonard Hyde | Tom Lazkowski |
| Alan Merriman | Jim Pogue | Mike Sanburn | Ralph Sanserino | J.D. Stephens |
| Randy Stewart | R.C. Watts | Robert Wein | | |

A very big THANK YOU to all who made a donation. Also, there were many who were unable to send a donation but did take the time to send cards and letters of support for the CPC. To all of you, your kind words were most appreciated.

At this point, we have closed the books on the '92-'93 DX tests season. Any donations received between now and August will be "bankrolled" for next season.

Look for an article in an upcoming DXM summarizing the '92-'93 DX test activity.

Thank you again for your overwhelming support!

J.D. Stephens

COLORED COVERS: A MEMBER LIKES COLORED COVERS AND DONATED SOME MONEY FOR THEM. SO ENJOY THE COLORED COVERS AND THANK YOU VERY MUCH.....

AUCTION ITEMS: IF YOU HAVE ANY ITEMS FOR THE AUCTION AT THE CONVENTION PLEASE BRING OR SEND THEM TO: **JOHN JOHNSON** 979 NEPTUNE BLVD BILLINGS MT 59105. I HAVE A 1991 ISSUE OF THE M STREET DIRECTORY IN FINE SHAPE THAT IS GOING ON THE BLOCK. MAYBE WE SHOULD PUT UP THINGS THAT THE MEMBERSHIP AT LARGE CAN BID ON, JUST A THOUGHT. I MAY THROW IN A COUPLE OF SHOT GUN LOOPS FOR PORTABLES, I ALSO HAVE A TRF THAT NEEDS A POWER SWITCH IN THE AUCTION IT GOES.....SEE YOU AT THE CONVENTION.....

NRD 525: READOUT POWER SUPPLY IS WORKING FINE. WILL DOCUMENT SOON.....

BROADCASTING INFORMATION

EDITOR: ROBERT WIEN 1309 DENTWOOD DR SAN JOSE CA 95118

DEADLINES: 2nd & 4th Saturdays.

Compiled: 04/13/93

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:

CA. San Francisco KIQT-1010 15000/1500

FACILITY & PARAMETER GRANTS:

IN. Portland WPGW-1440 45-N
MI. East Lansing WVFN-730 500-N
Kentwood WGVU-1480 2500-D
WY. Ladysmith WLDY-1340 610/610

CALL LETTER CHANGES:

AZ. Tucson KNST-940 becomes KWFM
KWFM-790 becomes KNST
MO. Springfield KGEX-1400 becomes KGMV
MT. Billings KUUS-1240 becomes KMAY
NY. Buffalo WXBX-1400 becomes WWWS
Rome WZLB-1450 requests WODZ
NC. Charlotte WCNT-1480 becomes WCNV
OH. Florence WLL0-1180 becomes WBND "The Blend"
OK. Oklahoma City KPFW-1140 becomes KVSP
PA. Harrisburg WIMX-1460 becomes WCMB
Portage WZGO-1470 becomes WHYM
TN. Columbia WQZZ-910 requests WMRB
TX. Dallas KCMZ-1480 becomes KMRT
Lubbock KFMX-1340 becomes KKAM
Mineola KMOO-1510 requests KJMC
Muleshoe KLZK-1380 becomes KMUL

FORMAT CHANGES:

AL. Monroeville WMFC-1360 was country//FM, now SGC Xtian C&W
AZ. Holbrook KDJI-1270 was oldies, adds JSN oldies
Tucson KWFM-940 was KNST, nx/talk, now oldies//FM
KNST-790 was KWFM, oldies//FM, now nx/talk
CA. Apple Valley KAPL-1550 was SMN stds., now SMN Kool Oldies
Gilroy KAZA-1290 was SS AC, now regional Mexican
San Francisco KSFO-560 was oldies, sports, drops sports 7PM-5AM
29 Palms KDHI-1250 was country, now EFM, CBS, MBS talk
FL. Arcadia WRGF-1480 was contemp. Xtian, now silent
Avon Park WKHF-1390 was contemp. Xtian//WKGF, now silent
Cantonment WKGT-1090 was WJEW, stds, talk, now books for blind
(uses "Voice Of Print" slogan)
Sarasota WKXY-930 was AC, adds NSE AC

| | | |
|-------------------|-----------|--|
| GA. Metter | WMAC-1360 | was rel., now AC//FM |
| IL. Rantoul | WUFI-1460 | was nx/talk, now all-talk |
| Springfield | WMAY-970 | was oldies, now nx, talk, oldies |
| Vernon Hills | WNVR-1030 | was bus. nx, now Polish |
| Wood River | KEZK-590 | was soft AC//FM, now SEN/ESPN sports |
| IN. Auburn | WIFF-1570 | was new age-AC//FM, now new age AC |
| KY. Louisville | WHAS-840 | was AC, oldies, talk, adds EFM talk |
| LA. Bastrop | KTRY-730 | was urban AC//FM, now black gospel |
| MA. New Bedford | WNBH-1340 | was Unis. stds., now Unis. oldies |
| MI. Alma | WFYC-1280 | was oldies, now Unis. Hot C&W//FM |
| MS. Columbus | WJWF-1400 | was silent f/repairs, now c. Xtian//WQNN |
| Hazelhurst | WMDC-1220 | was country//FM, now SGC Xtian C&W//FM |
| MO. Columbia | KTGR-1580 | was stds., now silent f/repairs |
| Independence | KJLA-1510 | was KIDZ, silent, now SMN stds. |
| Lebanon | KLWT-1230 | was country, now SMN Real country |
| Springfield | KGMV-1400 | was KGBX, AC//FM, now C&W//KGMV-FM |
| MT. Anaconda | KANA-580 | was silent, now SMN Kool Oldies |
| Billings | KMAY-1240 | was KUUS, oldies, now EZL |
| Hardin | KGHL-790 | was country, adds Unis. C&W nights |
| NJ. Trenton | KKUL-1230 | was silent, now JSN oldies |
| NC. Camp Lejeune | WPTM-920 | was nx/talk, adds SS nights |
| Charlotte | WVOF-1580 | was religion, now silent f/repairs |
| Kannapolis | WCNV-1480 | was WCNT, silent, now Unis. CNN nx |
| Wilkesboro | WGTL-870 | was stds., rptd. silent |
| OH. New Boston | WWNC-1240 | was oldies, now silent |
| OK. Oklahoma City | WTOI-1010 | was EZL //FM, adds JSN EZL//FM |
| OR. Bend | KVSP-1140 | was KPRW, rock//KATT, now urban "Power Jams 1140" |
| Seaside | KGRL-940 | was sports, adds Unis. CNN nx |
| PA. Coatesville | KSWB-840 | was silent, now country days, EZL nights |
| Doylestown | WCOJ-1420 | was soft AC, adds MBS talk |
| Sayre | WBUX-1570 | was AC tal, now '70's oldies, AC (remains NSE AC nights) |
| TX. Brownwood | WATS-960 | was AC//WAVR, adds JSN AC //WAVR |
| Lubbock | KXYL-1240 | was AC, adds NSE AC |
| Muleshoe | KKAM-1340 | was KFMX, stds., now all-talk |
| Post | KMUL-1380 | was KLZK, C&W// FM, now C&W |
| Tyler | KPOS-1370 | was country//FM, adds JSN C&W //FM |
| VA. Salem | KZEY-690 | was urban, adds SMN urban AC |
| Virginia Beach | WTOY-1480 | was urban, now urban AC |
| WI. Portage | WVAB-1550 | was silent, now BRN bus. nx |
| AB. Calgary | WPDR-1550 | was country, adds sports, talk (Lqrry King, ASN) |
| SK. Moose Jaw | CFXL-1140 | was CFXX, classic rock, now AC |
| | CHAB-800 | was gold-based AC, now country |

Bruce Portzer of Seattle, WA. passes on the following tips:

| | | |
|---------------|------------|--|
| WA. Bremerton | KBERO-1490 | was silent, now SS//KKMO-1360, except AS during afternoon drive |
| Seattle | KKFX-1250 | was urban, now silent (ye editor adds KKFX will return 5/15 as KKDZ, children't net) |
| Tacoma | KKMO-1360 | was AS, various ethnic pgming, now SS except noon telephone talk |

Thanks, Bruce! Tips are always welcome, you'll get your name in print and become a famous celebrity and make lots of money off advertising contracts (NOT!). Well, at least you'll make DX'ing easier for the rest of us! We're winding down on the DX season towards summer, I'm on dayshift forever & ever so my MM's are cut down to virtually nothing, but at least it's a job! 73's.

DX WORLDWIDE EAST

EDITOR: Jim Hall, 3176 Cheltenham Ct., Gibsonsia PA 15044-8435 usa

Thank you Randy, Elliot and Mark for your recent reports. Yes Randy, things have been a bit slow, but check for some fantastic Pan American DX in Jean Burnell's report this week which is in the Extra section. I guess if you can't hear it here, just go to the Caribbean! On with the regular section:

TRANS - ATLANTIC D X (Connelly-MA) unless noted

- 567 t IRELAND 2232 1/29 clas. violin or Irish fiddle, in bad slop.
- 774 SPAIN synchros. 2227 1/29 LOUD w/SS talk by 2 ancrs.
- 837 CANARY IS. / SPAIN 2225 1/29 man in SS.
- 855 SPAIN Murcia RNE 0015 3/24 v. gd w/SS phone-in pgm, w host. (Straus-NJ)
- 882 ENGLAND Washford 0222 1/29 EE talk atop 2nd stn (prob. Canaries), fair thru WCBS slop.
- 891 ALGERIA Algiesr 0120 1/15 AA vocal, gd. Also 1/29 2224 w/AA vocal, and 2/22 0247 LOUD w/male AA vocal.
- 1035 PORTUGAL Lisboa RDP 0345 3/25 XInt sig w/EE light rock, Beatles, 4 Tops, PP ancr. S-40 on peaks, soon gone. (Straus-NJ)
- 1044 MOROCCO Sebaa-Aioun 0005 3/24 XInt w/AA vocals, instr. mx. (Straus-NJ)
- 1053 ENGLAND / MOROCCO 2215 1/29 EE talk o/u AA mx.
- 1089 ENGLAND 2205 1/29 EE disc. by men, to gd peaks.
- 1107 SPAIN 0131 1/15 RNE5 synchros. gd w/SS talk.
- 1251 LIBYA Tripoli 0144 1/15 AA mx, in slop.
- 1269 SPAIN / CANARY ISLANDS ?? 0147 1/15 apparant SS talk, pr.
- 1323 GERMANY 0505 2/9 m in GG.
- 1359 MELILLA / SPAIN 2254 2/20 m in SS. Also 3/7 0331 w/pop mx, SS talk LOUD - 2nd only to Algeria-891 in strength tonight.
- 1375 ST. PIERRE & MIQUELON 0148 XInt w/mellow FF vocal.
- 1467 FRANCE Roumoules 2248 1/29 m talking, possibly GG; heavily sloped.
- 1521 SAUDI ARABIA Duba 2240 1/29 AA mx, some WWKB splash.
- SPAIN 0611 2/28 m in SS, v gd. SAH approx. 3-Hz. present.
- 1544 NORTH AFRICAN CLANDESTINE 2243 1/29 AA talk/emotional vocal mx; fr-gd.
- 1566 unID 2143 1/29 operatic fem. voacal, 3-Hz. SAH, prob. the usual Azores/Tunisia mix.
- 1575 SPAIN 0614 2/28 Poor w/bits of SS talk.
- 1584 SPAIN 2146 1/29 m in SS, pr-fr. Also 2/28 0605 w/m in SS to gd. peaks.
- 1593 GERMANY Langenberg 0155 1/15 w/lt. pop mx to fr peaks, and 2/9 0508 "My Brave Face" by McCartney, then GG talk. Loud but v. fluttery; clean copy only w/synch. detector enabled. And on 2/21 0601 w/nx by w in GG, gd. +0405 3/25 w/end of nx into soft rock, still strong 0430. (Straus-NJ)

PAN - AMERICAN D X

- 590 CUBA 0539 3/29 R. Reloj, sds/lk they're using the 150-kW xmtr listed for the freq. -- totally dominant, grotesquely DISTORTED, overmod. audio... the clock ticks sd/lk someone hammering nails into a board in the studio, hi. (Stewart-MO) (A sledgehammer & railroad spikes some nights...ed)
- 690 ANGUILLA 2330 3/19 Carib. Beacon w/Dr. Gene Scott w/the usual. Gd. (Straus)
- 700 JAMAICA Montego Bay JBC 1025 3/22 Morning pgm w/"Wake up, wake up, Jamaica" & Carib. mx, "R. One" jx's, v. gd. (Straus-NJ)
- 730 MEXICO Mexico City XEX 0545 3/29 Loud/dom. o/reg. KKDA w/var. spots/X-E-X ment's. Rarely this strong. Playing nortena/ranchera mx - wreen't they all news? (Stewart-MO) (I'm not sure - last time I hrd them I heard some mx. ed)

- 750 JAMAICA Port Maria JBC 0815 3/27 u/WBS w/"Budget Supplies" adv. Same ad repeated often on 700. Both w/Carib. acc'td EE talk. (Straus-NJ)
 940 MEXICO D.F. XEQ 0830 3/18 Instr. mx, SS ballads, "X-E-Q" ID's, xInt. (Straus-NJ)
 1210 CUBA R. Sancti Spiritus 0150 3/28 Gd/dominant w/some kind of sports. Weaker // on 1200 barely audible. Same pgm also hrd on 1100. (Stewart-MO)

**Don't miss the DXMW-E Extra section this week for more Pan-American DX from J. Burnell.

CREDITS:

- (Straus-NJ) Elliot Straus, 980 Cooper Drive, Toms River, New Jersey 08753 (R-390A, Quantum Loop, 1w's, MFJ-959B)
 (Connelly-MA) Mark Connelly, 30 William Road, Billerica, Massachusetts 01821-6079 (Drake R8, 20m. & 37m. wires w/noise-reducing xformers to MWDX-5 Phasing Unit and MWT-3 Regen. Preselector)
 (Stewart-MO) Randy Stewart, 4225 W. La Casa, Springfield, Missouri 65802-5615 (TRF/4' loop)
 (Burnell-CR)* Jean Burnell, c/o Dept. of Chem. Memorial Univ. St. John's, Nfld CANADA A1B 3X7 (* DXing @Jaco Beach, Costa Rica w/a DX-440 and a random 30-m. wire on hotel balcony. Results in Extra section)



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

DX Worldwide - West

Time: UTC phone (503) 861-3185

PAN-AMERICAN DX ROUNDUP

- 730 MEXICO, Mexico City-XEX-good o/all with SS Pops and "X-E-X" IDs in SS at 0550 on 4/9. (PM-OR)
 800 t MEXICO, Tijuana-XEMMM-tent here with Ranchero mx and ments of Tijuana, QRM from "Radio Canon" underneath in SS at 0555 on 4/9, Good cx to the South. (PM-OR)
 900 MEXICO, Mexico City-XEW-good o/all with "X-E-W" IDs Best heard in a while at 0606 4/9. (PM-OR)
 940 UNID, SS station u/KFRE, XEQ? at 0608 4/9 (PM-OR)
 1180 CUBA, apparently the one w/KOFI temp nulled 3/23 0358-0401. Male announcer gave "Radio Rebelde" ID at 0358 and "La emisora nacional deportiva." EST TC at 0359 and 0401 "Cubano" mentioned twice. Referred to "Deportivamente" as if it were station slogan, but perhaps just a program name. (LBG-MT)

TRANS-PACIFIC DX ROUNDUP

- 531 AUSTRALIA, West Kempsey-2MC-fair w/"@MC" IDs with rr mx at 0815 on 4/9. (PM-OR)
 540 WESTERN SAMOA, Apia-2AP very strong (20 DB/S9 at 0720 on 4/13 w/Island mx and man in Samoan. (PM-OR)
 738 AUSTRALIA, Grafton-2NR-4/3 0900 UTC weak w/ABC Nx (CB-HI)

THANKS TO THESE REPORTERS

- CB-HI CHUCK BOEHNKE-POST OFFICE BOX 488-KEAAU HI 96749-0488
 R71A, Kuhuna Dipole antenna
 LBG-MT LARRY B. GOBWIN-2390 CLYDES DALE LANE-MISSOULA MT 59801
 HQ-150, Sanserino air-core Box Loop
 PM-OR YOUR EDITOR
 Drake R8, SP-600-JX17, Term. 1500' East. Bev, 1600' NNW Term. Bev.
 Term. 200' SW/NE LW antenna, Ground Radial system.

DX  **WORLDWIDE
EAST**

E X T R A !

* * * * *

Here is another Extra section for DXW-E, made possible by Jean Burnell's efforts at Jaco Beach, Costa Rica. Jean notes that he, his wife and three-year-old (& bathing suits and towels!!) spent a week in Costa Rica, on the Pacific coast at Jaco Beach and made this report from evening bandscans. He didn't hear anything new on SW, although, not surprisingly he notes, some stn's were heard better in St. John's back home. Thanks for the fine report, Jean. (JH-DXW-E)

JACO BEACH, COSTA RICA: by Jean Burnell

- 530 COSTA RICA R. Rumbo (TICAL), Cartago, 3/10, 0538-0541: TC "en Rumbo", brief talk, romantic LA mx. SIO 333 (Burnell-CR)
- 540 NICARAGUA R. Corporación (YNARC), Managua, 3/10, 0305-0315: Ads for things in Managua, ID and TC (Nicaragua is UTC-5, the rest of Central America is UTC-6) then nx about the takeover of the Nicaraguan embassy in San José. SIO 444 (Burnell-CR)
- 560 ECUADOR C.R.E. (HCAK2), Guayaquil, 3/13, 0332-0336, 0404, 0433-0435*: I was put off at first by a number of "Radio Juventud" anmcs, but this seemed to be a pgm name as I caught a number of unequivocal "C.R.E." ID's. At 0433 rel talk then brief s/off amnt that incredibly did not once identify the station, then anthem (military band). SIO 232 (Burnell-CR)
- 560 JAMAICA JBC R. One, Kingston, 3/13, 0501-0506: Nx in EE, Jamaican accent, at 0505 talk over classical piano mx. SIO 343 (Burnell-CR)
- 570 COSTA RICA R. Fundación (TICDL), Desamparados, 3/11, 1150-1202: LA mx, TC's, ID at 1150M then ads. SIO 444 (Burnell-CR)
- 580 HONDURAS R. Tegucigalpa (HRZQ), 3/13, 0321-0326: Tearful mother on phone reporting missing girl, TC then canned ID over heroic mx: "Todo pueblo tiene el derecho a la autodeterminación. No permitimos interferencias de nadie. Aprensamos a ser libres. Radio Tegucigalpa, la señal". SIO 443 (Burnell-CR)
- 590 COSTA RICA pres. R. Nacional (TIRN), San José, 3/11, 1203-1208: No ID, talk about children of Costa Rica, children's song, and Lord's Prayer at 1208. SIO 444 (Burnell-CR)
- 590 HONDURAS R. América (HRLP3), San Pedro Sula, 3/13, 0500-0509*: S/off amnt w/ID, // 610, no anthem. SIO 343 (Burnell-CR)
- 600 NICARAGUA tent R. Ya (TNARY), Managua, 3/12, 0259-0304: Statement from Nic government re embassy takeover in San José, UTC-5 TC's, mx then lost to QRM. SIO 322 (Burnell-CR)
- 610 HONDURAS R. América (HRLP), Tegucigalpa, 3/10, 0500-0511*: Nx read by man and woman, long jingle at 0509 then s/off amnt, whistled tune then off. SIO 332 (Burnell-CR)
- 620 NICARAGUA R. Nicaragua (YNALN), Managua, 3/10, 0316-0318: ID then an "annunc social" regarding a lost 7-year old girl. SIO 454 (Burnell-CR)
- 620 COLOMBIA R. Ciudad de Cali (HJEL), 3/13, 0512: Tuned in as ancr said "aquí en el ciudad de Cali"... SIO 343 (Burnell-CR)
- 650 HONDURAS LV de Centroamérica (HRVW), San Pedro Sula, 3/12, 0449-0459*: Deutsche Welle pgm about opera, which ended at 0456, then s/off amnt, no anthem. SIO 432; also 3/14, 0422: LA ballad, clear ID. SIO 333 (Burnell-CR)

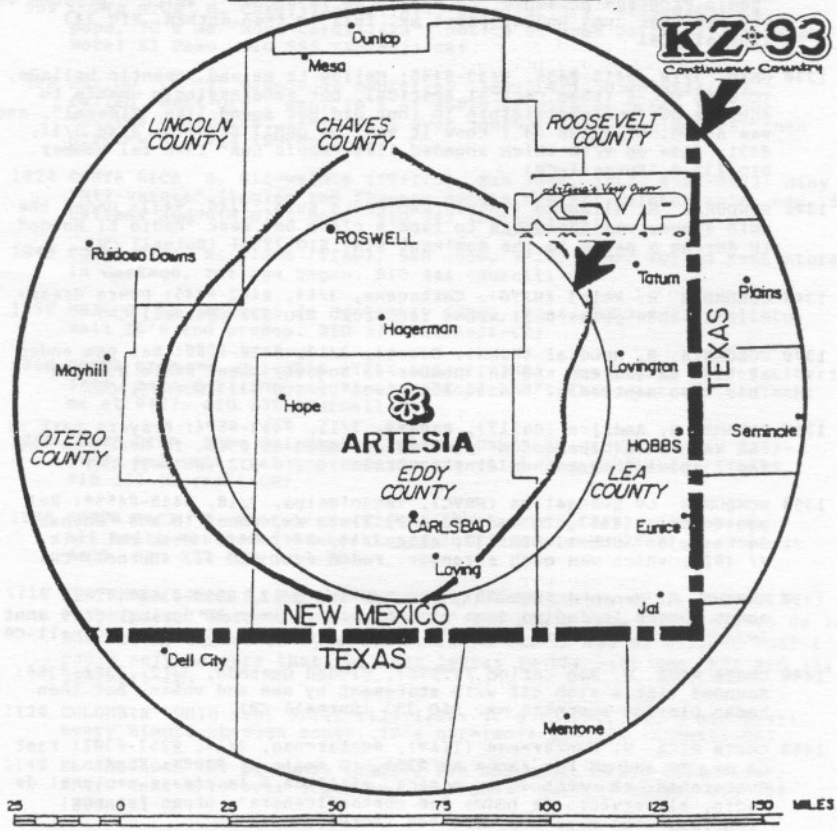
- 655 EL SALVADOR R. El Salvador (YSSS), San Salvador, 3/12, 0309-0312: Nx w/most re salvadoran politics. Bad splatter, SIO 232 (Burnell-CR)
- 670 COSTA RICA R. Monumental (TITNT), San José, 3/9, 0618-0631: Talk re takeover of Nicaraguan embassy in San José, ID at 0627 followed by a phone number, and became a talk pgm discussing the same. Mixing w/ Dirliangen, SIO 432 (Burnell-CR)
- 670 NICARAGUA R. Dirliangen (YNELD), Granada, 3/9, 0623-0631: Faded up through Monumental w/LA pop-sounding mx, but I think it was religious, ID by woman and jingle sneaked through at 0624 during peak. SIO 222 (Burnell-CR)
- 680 NICARAGUA R. La Primerísima (YNALP), Managua, 3/10, 0512-0522: Instr and romantic LA mx, jingle (e.g. "La Primerísima, naí es siempre") between each song and TC by woman during first 10 secs of each song. SIO 333 (Burnell-CR)
- 690 ECUADOR R. Sucre (HCFA4), Portoviejo, 3/14, 0603-0605: Three or four ID's in short succession, dedications to listeners, fade out. SIO 332 (Burnell-CR)
- 700 COSTA RICA R. Sonora (TIJC), Guadalupe, 3/11, 1210-1231: Commentary about take-over at Nicaraguan embassy ended at 1210 w/ casual ID, ad string, more talk re embassy, then about child abuse and politics. At 1230 man mentioned power supply problems in Guadalupe. SIO 444 (Burnell-CR)
- 710 CUBA R. Rebelde (synchros), 3/10, 0524-0543 (not continuous audition): Man and woman w/pgm of Cuban mx, "Rebelde Sonido". Nice signal SIO 444 (Burnell-CR)
- 730 MEXICO XEX, México, 3/14, 0452-0455: In a mess, but "XEX" ID at 2254 then ranchera mx. SIO 222 (Burnell-CR)
- 740 HONDURAS R. Eco (HRNN23), San Pedro Sula, 3/10, 0530-0533: ID w/ address (Apartado Postal 163), TC w/ cuckoo clock sounds, SS rap song called "Caramelo". SIO 343 (Burnell-CR)
- 750 NICARAGUA "R. Sandino" (TNARS), Managua, 3/12, 0248-0259: No "Sandino" ID or "S" slogans; "Eco Informativo" pgm w/talk re elections, PSAs for Finance Ministry and "Clínica de la Mujer", TC's (UTC-5) were 4 min fast. SIO 544 (Burnell-CR)
- 760 tent EL SALVADOR R. Cadena YSKL (YSKLB and/or YSKLC), San Miguel and/or Sonsonate, 3/14, 0606-0613: Nx "Nocitias de Media Noche" ended at 0610 w/TC and ID, which I'm 90% sure was "Radio S-K-L", then ads (Mundo Optico) then meringue mx. SIO 342 (Burnell-CR)
- 790 HONDURAS R. Satélite (HRTG2), Tegucigalpa, 3/9, 0541-0548: TC's w/cuckoo clock w/ID's, mellow mx. SIO 332 (Burnell-CR)
- 820 HONDURAS R. Moderna (HRLP16), Tegucigalpa, 3/9, 0549-0553: LA mx, jingle ID at 0550, another at 0551 w/slogan "la más popular" then song "Siete Leguas" at 0553. QRM from U.S., SIO 322 (Burnell-CR)
- 830 BELIZE Belize R. One, Ladyville, 3/13, 0318: almost certainly this one in Caribbean-accented EE with talk about cricket. SIO 222 (Burnell-CR)
- 830 ECUADOR R. Huancavilca (HCRM2), Guayaquil, 3/13, 0439-0447: 2 ID's, rustic local mx, more ID's mentioning Ecuador. SIO 332 (Burnell-CR)
- 870 EL SALVADOR R. Cadena de Oro (YSAR), San Salvador, 3/9, 0555-0602*: Romantic LA mx, announced pgm name as "Romantica Noche", jingle at 0558 "Radio Cadena de Oro, la Primerísima", then s/off anmt and anthem. SIO 343 (Burnell-CR)
- 880 HONDURAS R. Honduras (HRH5 and/or HRH7), Sta. Rosa de Copán and/or Juticalpa, 3/9, 0602-0606*: Instr. mx, s/off anmt w/ID as just "Radio Honduras" (not R. Nacional de Honduras), choral anthem. SIO 443 (Burnell-CR)

- 890 HONDURAS R. Honduras (synchros), 3/10, 0456-0505: Woman w/news, muffled audio and hum but ID discerned at 0503. SIO 232 (Burnell-CR)
- 900 MEXICO LV de la América Latina (XEW), México, 3/9, 0455-0459: Close harmony mx, clear ID. SIO 444 (Burnell-CR)
- 910 HONDURAS R. Católica (HRVS), Tegucigalpa, 3/10, 0325-0328: Sermon ended, ad, then at 0327 ID and slogan "La Voz de Suyapa", TC and instr pop mx. SIO 444 (Burnell-CR)
- 930 tent MEXICO La "U" de Veracruz (XEU), 3/14, 0500-0505: Instr mx and 40's tunes, ID's were garbled, but a jingle at 0504 seemed to say "Es la ooo" twice. SIO 332 (Burnell-CR)
- 940 HONDURAS Rdif. Cristiana (HRCR), Comayagüela, 3/9, 0607*: Just caught last lines of the s/off anmt under XEQ, off without anthem. SIO 222 (Burnell-CR)
- 940 MEXICO XEQ Radio, México, 3/9, 0607-0614: mx ended at 0610, a few ID's as "XEQ Radio" (no "Súper Q" ID noted) w/slogan "la frecuencia de amor", ad/PSA for a show called "Una Historia de Piratas" and ads for the UNAM (=the university) "biblioteca". More romantic mx from 0613. SIO 343 (Burnell-CR)
- 950 HONDURAS very probably R. Centro Radial (HRQL), Siguatepeque, 3/10, 0330-0344: TC (as 9:30 -- only accurate clock in Central America!), ads, LA ballads, but no clear ID...caught "Radial" at 0331 and the name of the town (Siguatepeque) during a bank ad at 0343. Faded away at 0344, SIO 332 (Burnell-CR)
- 980 COSTA RICA R. Cordillera (TIRI), Esparza, 3/9, 0445-0452: LA pops, TC's as "Hora Cordillera", notice of some political rally at Hotel El Paso. SIO 555 (Burnell-CR)
- 990 MEXICO La "T" Grande de Monterrey (XET), 3/9, 0500-0504: Nx called "Noti-Oro", many ID's at 0502½ w/intro or promo for pgm "Exitos Musicales". Initially over someone else signing off, then clear w/SIO 444 (Burnell-CR)
- 1024 COSTA RICA R. Mil-veinte ((TITIC), San José, 3/12, 0509-0533: Many "Mil-veinte" jingles and "Buenos noches con mil-veinte" ID's, ads, SS ballads and old U.S. pops. SIO 343 (Burnell-CR)
- 1040 COSTA RICA R. Fides (TIAC), San José, 3/10, 0350: ID, ad some store in Cartago, rel pgm began. SIO 444 (Burnell-CR)
- 1050 MEXICO La Ranchera de Monterrey (XED), 3/14, 0429-0432: Wall-to-wall ID's and promos. SIO 333 (Burnell-CR)
- 1060 COSTA RICA R. Columbia (TILX and/or TIMS), San Isidro and/or Liberia, 3/11, 0424-0427: Man mentioning "Columbia" often, introed mariachi mx at 0427. SIO 332 (Burnell-CR)
- 1080 COSTA RICA Faro del Caribe (TIFC), San José et al., 3/14, 0433-0440: Rel talk, rel pop song during which I established // 5055. SIO 333 (Burnell-CR)
- 1100 COSTA RICA R. Chorotega (TISCR), Santa Cruz, 3/12, 0424-0440: All talk, mentioned Puntarenas a lot, casual (but definite) ID at 0439. SIO 332 (Burnell-CR)
- 1110 GUATEMALA tent R. Marianalá (TGMK), Santa Lucia, 3/11, 1104-1114: Deep fades, "Noticias de Guatemala" and PSA'a from the Ministro de la Educación; canned ID by woman at 1109½ but it was so muffled that I could only be sure that the last letter in the call was "K"! SIO 332 (Burnell-CR)
- 1120 COLOMBIA UNID stn, 3/11, 1118-1140: TC's (UTC-5, but 4 min fast) every minute through songs, ID's garbled!! SIO 332 (Burnell-CR)
- 1140 EL SALVADOR R. El Mundo (YSTS), San Salvador, 3/14, 0554-0556*: S/off anmt w/ID over organ mx, no anthem. Muffled audio, SIO 332 (Burnell-CR)

- 1160 COSTA RICA R. Columbia (TILXX), Puntarenas, 3/9, 0517-0523: Booming "Columbia" ID, talk re takeover of Nicaraguan embassy in San José, nice ID at 0522: "Esta es Radio Columbia...con un país en sintonía" then hype for Noticieros Columbia. SIO 555 (Burnell-CR)
- 1190 MEXICO R. P.K. or Viga...?, Villahermosa, 3/12, 0316-0318, 0414-0417: Ad for lotería nacional, UTC-6 TC's, 2 ID's; from 0414 many ID's, one at 0416 adding location as Villahermosa, Tabasco, also ads; TC's 2-3 min late. Can anyone help?? SIO 333 (Burnell-CR)
- 1220 MEXICO R. México (XEB), México, 3/14, 0511-0516, 0538-0548: Ballads and LA oldies, ads for lawyers, ID's as "Grupo IMER, Instituto Mexicano de la Radio", promo for "Noticiero". SIO 333 (Burnell-CR)
- 1250 COLOMBIA R. Capital (HJCA), Bogotá, 3/11, 0429-0430: Nice ID w/ pgm promo and stn hype ... "la emisora del pueblo". SIO 333; also 3/12, 0500: promo for "la discoteca de Radio Capital". SIO 444 (Burnell-CR)
- 1260 EL SALVADOR R. América (YSAA), San Salvador, 3/13, 0329-0332, 0424-0431*: Play-by-play of soccer: El Salvador vs Colombia; at 0424 recap of the game, "América" jingles, list of stns in "la Cadena América", long ID. SIO 332 (Burnell-CR)
- 1310 COLOMBIA prob Corazón AM (HJZJ), Bogotá, 3/9, 0525-0531: (this or CARACOL Montería, but the latter is 0500* whereas Bogotá is listed as a 24 h operation) CARACOL net nx, "Carbajal" seemed to be a major sponsor. Bad fading, SIO 332 (Burnell-CR)
- 1330 EL SALVADOR R. Progreso (YSHQ), San Salvador, 3/11, 0447-0451*: "Radio Progreso presentó 'La Pasión de la Noche'", which I presume was the pgm that just ended, short mx, full ID then anthem. SIO 343 (Burnell-CR)
- 1340 UNID 3/10, 0415-0435, 0443-0445: Mellow LA mx and romantic ballads, TC's at UTC-6 (thus Central America), but embarrassingly unable to squeeze out an intelligible ID (but did not sound like "Sideral", and was not R. El Mundo as I know it was the QRM!) SIO 443; also 3/11, 0431: fade up w/ID which sounded like "Radio Lux" then tel number. SIO 232-0 (Burnell-CR)
- 1340 HONDURAS R. El Mundo (HRHH), San Pedro Sula, 3/10, 0432: Under the UNID above, was fortunate to tape a clear but weak "Radio El Mundo" ID during a pause in the dominant stn. SIO 222-1 (Burnell-CR)
- 1360 COLOMBIA R. Reloj (HJTU), Cartagena, 3/14, 0442-0445: DXers dream: 8 ID's, then phone call w/bad feedback. SIO 333 (Burnell-CR)
- 1370 COLOMBIA R. Mundial (HJKX), Bogotá, 3/13, 0450-0500: Rel pgm ended at 0450 w/ address and tel number in Bogotá, then "Radio Mundial" ID's. (No mention of "Radio Auténtica".) SIO 332 (Burnell-CR)
- 1380 PANAMA R. América (call?), Panamá, 3/11, 0452-0504: Prayers part of "La Voz de la Liberación" pgm, which ended at 0500. ID heard in the s/off spiel then anthem (Instr version). SIO 332 (Burnell-CR)
- 1390 HONDURAS LV Evangélica (HRVC), Tegucigalpa, 3/10, 0448-0455*: Rel pgm ended at 0453, ID and address, flute mx, short ID and "Buenas noches", no anthem. SIO 232; also 3/14, 0447-0449: Weak rel talk, // 4820, which was much stronger. Faded out, SIO 222 (Burnell-CR)
- 1410 PANAMA R. Mensabé (HOH779), Las Tablas, 3/12, 0330-0350*: Talk about soccer including some play-by-play, clear ID during s/off anmt (w/echo over harp mx) at 0147, anthem from 0348. SIO 333 (Burnell-CR)
- 1440 COSTA RICA R. San Carlos (TIDVC), Ciudad Quesada, 3/12, 0354-0358: Sounded like a sign off w/ID statement by man and woman, but then began playing romantic mx. SIO 333 (Burnell-CR)
- 1480 COSTA RICA R. Puntarenas (TIAW), Puntarenas, 3/10, 0257-0302: Fast LA mx, ID and ad for shoes at 0259, ID again at 0300: "Radio Puntarenas, el calor de la música, afiliada a la cámara nacional de radio, al servicio de todos los costarricenses", promo for pgm "Panorama" and more ads. SIO 544 (Burnell-CR)

- 1510 PANAMA Hosana R. (HOA95), Panamá, 3/10, 0353-04474*: Rel pgm ended w/address in Balboa, new rel pgm...I tuned out 0415-0437... back w/ID and s/off anmt, anthem (band and chorus). QRM from WLAC (dominant iter 0440) SIO 332; also 3/11, 0435-0446*: praying to find financing, 04424: s/off anmt (... "Desde la República de Panamá transmite Hosana Radio en 1510 kHz, la estación que penetran el corazon de todos los panameños": sounded fatal!), anthem. SIO 443 (Burnell-CR)
- 1560 MEXICO R. Consentida (XEFAJ), México, 3/12, 0405-0410, 0444: Miserable mx, jingle ID's, faded up for clear ID at 0444. SIO 332 (Burnell-CR)
- 1570 HONDURAS RCN (HRCN), Tegucigalpa, 3/10, 0544 and 0554-0558: Stn in and out w/deep fades; at 0544 LA rock then TC followed by "en la tranquilidad de la noche"; at 0554 ID (very poor) and again at 0557 (also poor!). SIO 222 (Burnell-CR)
- 1580 BELIZE VOA, Punta Gorda, 3/10, 0303: VOA nx in Spanish. SIO 555, and 1530 kHz was also very good when I checked a few days later. (Burnell-CR)
- 1600 COSTA RICA R. Pocotí (TIMQ), Guápiles, 3/11, 0355-0403*: Rel mx, prayer over Santana instrumental at 0402, simple ID "Radio Pocotí" and off w/out anthem at 0403. SIO 332 (Burnell-CR)

COMPUTED COVERAGE CONTOURS



10



WESTERN DX ROUNDUP

Nancy Hardy
2301 Pacific Ave.
Aberdeen, WA 98520

DEADLINES FOR WDXR TIPS: 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:

- (PM) Patrick Martin-P.O. Box 843-Seaside, OR 97138
Drake R8, SP-600 JX-17, 200' SW/NE wire, term. 1500 E Bev.,
term. 1600' NNW Beverage, ground radial system
- (MS) Mike Sanburn-P.O. Box 1256-Bellflower, CA 90707
GE Superadio II
- (PT) Pete Taylor-2614 Jackson St.-San Francisco, CA 94115
Car radio (KAGO-1150) or loopless Sony ICF-2010
- (RW) Robert Wien-1309 Dentwood Dr.-San Jose, CA 95118
GE Superadio, GE long-range portable, SM-2
- *****
- 560 ?CHTK? BC, Prince Rupert 3/29 0111 off north Beverage station
behind KSFO with Oldies Coast to Coast // 900, 890, etc.
(PM-OR)
- 600 KHTE CA, Redding per M Street Journal, KHTE still KHTE, uses
"KNR" slogan. Did not change calls to anything else.
Corrects tip sent to WDXR by myself recently. (RW-CA)
- 630 KOH NV, Reno 4/2 0505 momentarily dominant with weather, ID,
and contest announcement regarding ski trip. Over KHOW.
(MS-CA)
- KKPL WA, Opportunity 4/6 0846 fair under KIDO with Spokane
sports promo, Spokane weather at 0847. New, reported. Now
have heard all WA stations! (PM-OR)
- 890 KDXU UT, St. George 3/29 0-637 noted NSP again on MM with talk
show. (RW-CA)
- 1060 "CFCN" AB, Calgary 3/29 0659 good with ad for Jazzercise class in
Calgary, over KPAY. But, only gave ID as "The new Mix
106," wonder if changed calls yet? (RW-CA) (Robert, as "AM
106" they haven't given call letters in many years!--NH)
- 1140 KXNO NV, North Las Vegas 4/5 0824 even with KRAK with "98.5
KLUC" ID, then over KRAK briefly! (RW-CA)
- 1150 KAGO OR, Klamath Falls 4/5 0145 blasting in on the car radio
when I left the office. A little shaky in between, but
equally strong at home with a clear ID, reference to 70 (?)
years of service and CBS news at 0200. Nothing but KBAI
same time the following night with its NBC news. (PT-CA)
- 1210 KQTL AZ, Sahuarita 4/3 0800+ way over KONY with Spanish music &
singing IDs. Should be an easy catch for Calif. DX'ers.
(MS-CA)
- 1240 KGY WA, Olympia 3/29 with "KGY Sports," weather at 0106, AP
net. Was quite a surprise, as I normally don't hear KGY at
night. (PM-OR)
- 1250 (KKFX) WA, Seattle per M Street Journal, has gone silent
temporarily but will return shortly as KKDZ, children's
format. (RW-CA)
- 1280 KKAL CA, Arroyo Grande 4/10 fair under strong classical music
station (KFRN?) with ID 0112 "KKAL Arroyo Grande." (PM-OR)
- ?KFRN? CA, Long Beach 4/10 0118 non-stop Christian operatic music,
prayers, sounded network. (PM-OR)
- 1340 KATA CA, Arcata 3/29 0100 ID "KATA Arcata-Eureka" into oldies
rock. (PM-OR)
- KORV CA, Oroville 3/29 0059:45 ID into net news "K-O-R-V...
Chico-Oroville." (PM-OR)
- 1370 KWRM CA, Corona 4/5 0501 fair above jumble with Spanish
programming, "Radio Mexico" ID's, "This is KWRM 1370

Corona" in English at 0501. Haven't heard this since the DX test back about 1970. QRM from "Radio Popular" Tulare. (PM-OR)

- KGEM CA, Tulare 4/5 0505 weak to fair o/u KWRM in Spanish, with Tulare & Fresno mentions, "Radio Popular" ID. (PM-OR)
- 1390 KGER CA, Long Beach 4/10 fair u/o KMIX with relig. program, ID at 0100, program promos. (PM-OR)
- 1400 ?KIXT? CA, San Luis Obispo 3/29 0844 tent. call change, ex-KLTW, with ID "You've found us, Radio Home Shopping," another ID as "AM 1400." Male/female announcers sounding like talking on the telephone, faded under KEYX with KBLX nulled. (RW)
- 1410 KERN CA, Bakersfield 4/10 0055 good with baseball game & ID. (PM-OR)
- 1450 KVEN CA, Ventura 4/4 0957 neck and neck with KSPA with ID "Your station for Ventura county, KVEN Ventura-Oxnard." Spot for computer store, Dodgers baseball. (MS-CA)
- 1460 KKAQ MN, Thief River Falls 4/4 0715 fair briefly with C&W music, promo for church program and weather. Called station, 2.5 kw day/1.2 kw nights non-dir. New. (PM-OR)
- 1510 KTID CA, San Rafael 4/5 0210 about 40% to KGA's 60%. This is not the first time they haven't bothered to turn the thing off. (PT-CA) (Pete, note day and time of next tip!--NH) +4/5 0210 with pop jazz. Called station, DJ didn't know if their AM was supposed to be on. Quite strong. Probably didn't get their AM transmitter off as sked. Off 200' SW/NE wire. (PM-OR)
- 1550 KAPL CA, Apple Valley 4/5 0832 good over KKHI with ID "The all new AM 1550 KAPL," oldies. (RW-CA)
- 1560 WQEW NY, New York City 4/4 0410 u/o KNZR with MOR and big band music, and ID. (PM-OR)
- 1580 KBLA CA, Santa Monica after the endless KHQI-540/1260 business, it would not have surprised me if this station had changed to classical music, as heard 4/5 0215 o/u KCWW C&W. However, it was just part of the programming mix, as heard in Korean with news 8 hours later (1015). (PT-CA)

DX TESTS

- 790 (WLKW) RI, Providence 3/29 0000-0100 tried, not heard, too much KABC/KWIL/KGHL. (RW-CA)
- 940 (WECO) TN, Wartburg 3/27 0000-0030 DX test tried, not heard. (MS)

Has it really been two weeks since the last issue??? Watch the beginning of the column for summer WDXR deadlines.

IRCA CONTEST STANDINGS

as of March 31, 1993

Nancy Hardy, 2301 Pacific Ave., Aberdeen, WA 98520

| | Grand Total | State/ Province | Letterama | March Mini Contest | Previous Mini Contest |
|-------------------|----------------|--------------------|-----------|--------------------------|-----------------------------|
| Mike Sanburn, CA | 532 | 271 | 78 | 52 | 131 |
| Steve Sprague, KS | 283 | 283 | 0 | 0 | 0 |
| John Johnson, MT | 116 | 80 | 24 | 0 | 12 |
| Bruce Portzer, WA | 40 | 38 | 2 | 0 | 0 |

Unless a report arrives after today's mail (April 14), Mike Sanburn wins another mini-contest. The April mini-contest is "log as many stations as you can." April 30 is also the end of the year-long "States and Provinces" and "Letterama" contests. Watch for final standings in the June issue!

IRCA CONVENTION -- JUNE 25-26-27 -- BILLINGS, MONTANA -- REGISTER NOW!!

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

SPECIAL INTEREST

- 1140 **KXNO** NV, North Las Vegas. EX-**KLUC**. 4/1 fair. 0653 with "98.5 KLUC" IDs. Dance/UC music. New for me. [SA-MB]
- 1170 **KJOC** IA, Davenport. EX-**KSTT**. 4/1 good. 2006 with "Sports Radio kay-jock" IDs. Sports Entertainment Network. Great call for a sports station. New for me. [SA-MB]
- 1240 **KMAY** MT, Billings. EX-**KUUS**. 4/6 now IDing as "KUUS is KMAY Billings." Still using "KUUS" calls except on the hour until May format change. Format remains elevator music now, but will change in May. Station was sold recently to May Technical College here for the tiny sum of \$14,000. Probably a great investment for this broadcast school. Their dummy station was "WMAY" -- now they have a real station for the students to operate. Quick verie mentioned mine was their very first reception report. Address is Box 127, Billings, MT 59103. [JcJ-MT]

DOWN THE DIAL

- 540 **KWMT** IA, Fort Dodge. 3/23 in KUSA splatter. 1416 with weather into C&W. [RTE-MO]
WSTM GA, Columbus. 3/22 in server KUSA splatter. 0345 with Gospel. [RTE-MO]
- 550 **KTSA** TX, San Antonio. 3/29 poor. 0035 presumed the one with CNN Headline News. Unneeded, but sort of rare here. KUSA usually dominant. [RS-MO]
- 570 **WNAX** SD, Yankton. 3/24. 0552 with weather forecast. [RTE-MO]
- 790 **KFYO** TX, Lubbock. 3/25 w/**WWKY**. 0500 with "KFYO Weather." [RTE-MO]
WWKY KY, Louisville. 3/25. 0009 with TalkNet. Promo for Russ Limbaugh "noon to 3 on WWKY." [RTE-MO]
- 880 **KRVN** NE, Lexington. 3/28 with WCBS. 0305 with "Bill Scott for KRVN Lexington, back to Roadway America." [RTE-MO]
- 910 **WAKO** IL, Lawrenceville. 3/23. 1444 w/weather, mentioned "Lite Rock WAKO." [RTE-MO]
- 940 **KIOA** IA, Des Moines. 3/36 in severe WMIX and unID SS interference. 0132 with "The station where you heard them first, KIOA." Oldies format.
- 980 **WCUB** WI, Two Rivers. 3/25 with weather, "AM 98 WCUB" mentioned when they went back to "Best In Country Music." [RTE-MO]
- 1170 **CKGY** AB, Red Deer. 3/31 strong. 0650 with "CKGY Thunder Country. Thanks for listening and for telling a friend." C&W music. [SA-MB]
- 1300 **WKXM** AL, Winfield. 3/29 fair. 0100 atop with ID "You've found the best place for great country, 1300 WKXM Winfield." This between wall-to-wall C&W. Is this really only 30 watts at night? [RS-MO]

CDXR Continued....

- 1000 **KTOK** OK, Oklahoma City. 3/25 with severe WLUP interference. 0300 out of a phone-in program with "KTOK Oklahoma City" into ABC News [RTE-MO]
- 1060 **WNOE** LA, New Orleans. 3/25 with slight WMCL interference. 0726 with "Great Variety of Country on WNOE." [RTE-MO]
- 1100 **KKLL** MO, Webb City. 3/24 with WWWE and WSGI interference. 0706 with sign on with an invite to join them for another day of Christian programs. [RTE-MO]
- WSGI** TN, Springfield. 3/24 with WWWE and KKLL interference. 0723 ID "WSGI Springfield" during morning news. [RTE-MO]
- 1130 **KFAN** MN, Minneapolis. 3/25 in KMOX splatter. 0400 with "Sports Radio 11-30 KFAN Minneapolis." [RTE-MO]
- KWKH** LA, Shreveport. 3/24 in KMOX splatter. 0449 with "KWKH" ID in IRN. [RTE-MO]
- 1140 **WVEL** IL, Pekin. 3/24. 0801 with "WVEL Pekin, Peoria Weather" into "Word For Today" program. [RTE-MO]
- 1200 **KYOO** MO, Bolivar. 3/24. 0900 with news, weather, sports. "KYOO Bolivar" ID following news. [RTE-MO]
- 1270 **WKBF** IL, Rock Island. 3/24. 0339 with "The Only Real Country Station in the Quad Cities, 12-70 WKBF." [RTE-MO]
- 1300 **WOOD** MI, Grand Rapids. 3/28. 0244 with promo "Traffic and Weather Together every ten minutes on the morning show on WOOD 1300." [RTE-MO]
- 1350 **KRNT** IA, Des Moines. 3/28. 0200 with "Great songs, great memories on 13-50 KRNT Des Moines." Into Mutual News. [RTE-MO]
- 1370 **WPCS** WI, Neillsville. 3/28. 0224 with "Memories for a lifetime. AM 13-70 WPCS." 0227 with "WPCS 13-70 Neillsville" ID. [RTE-MO]
- 1410 **KRWB** MN, Roseau. 3/22 strong. 0630 with new sign on time. [SA-MB]
- WTIM** IL, Taylorville. 3/22. 0922 with "WTIM 14-10 News-Talk" and a promo for "Terry White with sports. Each morning on WTIM." [RTE-MO]
- 1540 **WTKM** WI, Hartford. 3/28 fair. 0714 with local announcements, local weather. Polka music. New one for me, WI#90. [SA-MB]
- 1550 **KAPE** MO, Cape Girardeau. 3/27. 1231 with "Kape 15-50. Back to Country Hits all weekend long. [RTE-MO]

DX TESTS

- 790(WLKW)RJ, Providence. 3/29 DX Test not heard here. I stayed glued to 790 until 0030 (15 min. past stated test period) and heard nothing even remotely resembling a code ID. Just a loud jumble dominated by WMC and KFYO. This has not been my season to log DX Tests, hi! [RS-MO]
- +3/29 DX Test not heard here. 790 was a jumble. [RTE-MO]
- +3/29 DX Test not heard here. Only KFGO. [SA-MB]
- 940 **WECO** TN, Wartburg. 3/27 DX Test heard with mixture of KIOA and WMIX. 0001-0032 with TT, code and voice IDs. Instrumental country music. [RTE-MO]
- +3/27 DX Test heard here poor u/CJGX and CBM. 0005 and 0019 with TT. New one for me. [SA-MB]

LOCAL CHANGES

- 550 **KUSA** MO, St. Louis. KUSA has dropped C&W for a news-sports format. [RTE-MO]
- 630 **KXOK** MO, St. Louis. KXOK has dropped soul music and is now simulcasting 97.1 which was KHTK now KXOK-FM. [RTE-MO]
- 790 **KGHL** MT, Billings. 4/1 KGHL is back to being AM only. KGHL-FM is now KDWG. The AM programs seperatly from FM, both with C&W formats. [JcJ-MT]
- 1380 **KASP** MO, St. Louis. KASP has dropped sports format and is now simulcasting WKBQ 106.5. AM call remains KASP. [RTE-MO]

unID Help

- 920 unID [SDW-MS]'s unID in 3/13 CDXR with "Country Coast To Coast" is not C Fry as they don't carry the program. The station is, however, CKNX Wingham, ON who do carry "Country Coast To Coast." [SA-MB]

CDXR Continued....

25 YEARS AGO

April 20, 1968 issue of IRCA's DX Monitor....Patrick Martin of Seaside, OR mentioned two new Aussies were logged. 2NR-700 and 3LO-770....Larry B. Godwin of Littleton, CO compared his HQ-150 with a new HQ-180-A....Father John Pejza of Ojai, CA talked about XETRA dropping their all-news format....Terry Greenhill of Hertford, Hertfordshire, England talked about R. Caroline North and R. Caroline South going off the air March 3rd.

OPEN MIKE

There is no time like the present to postpone what you ought to be doing. Better yet, if you think you might want to attend the 1993 Convention, fill out that registration form today! 73, John.

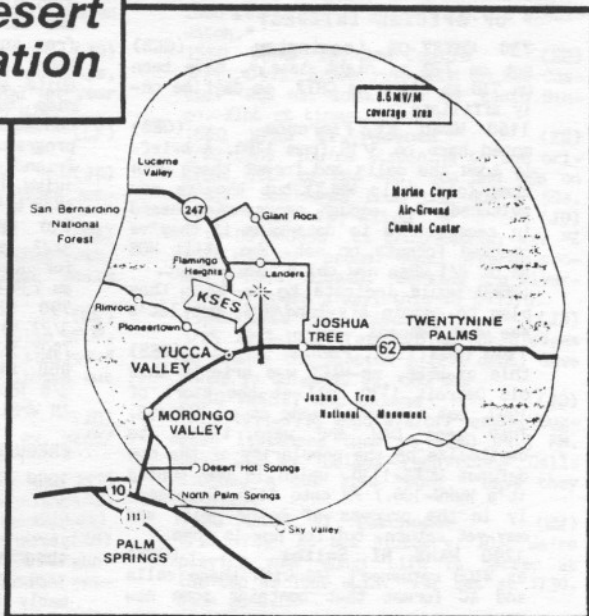
1993 IRCA CONVENTION UPDATE



The 1993 IRCA Convention will be held in Billings, Montana on June 25, 26, and 27th. If you haven't reserved a room at the Homestead Quality Inn yet, you should plan on doing so this weekend! Take advantage of the reduced rates while you can. (A savings of about \$15 per night.) Give Quality Inn a call at 406-652-1320 and ask for a room "IN THE IRCA BLOCK" and give the "CONFIRMATION NUMBER P41386." We still have a number of rooms left in our block. If you don't mention IRCA they will tell you there are no rooms available! Also, fill out your registration sheet and mail that to John ASAP.

We're only 2 months away from the big event! The auction items are starting to arrive. You'll be able to bid on past issues of "DX Monitor" and "Radio World" and station items such as T-shirts, caps, and cups. The items from CBC Newfoundland should bring in big bucks for the IRCA. 73, John & Larry.

Your High Desert Super Station



KSES-AM
Post Office Box 1420
Yucca Valley, CA 92286
(619) 228-1420

15

EASTERN Leonard Hyde
D 1805 Whipple Dr #26
X Blacksburg VA
ROUNDUP 24060-2436
#####

when a cleaning lady at the church answered. (Studio is in a church.) She knew nothing about the station. Antenna is still there: possibly hit by lightning during the big storm?

*** THE REPORT ***

530 CIAO ON, Brampton (ES)
3/29 0300 EE ancw w/rock. Into Italian program at 0300.
540 CJSB ON, Ottawa (WW)
3/21 0220 fair to good w/rock mx. Noted "Rock Radio Network" and "54 Rock" IDs.
540 WSTH GA, Columbus (LF)
3/28 0001 promos, mixing w/WGTO, Cypress Gardens FL.
(welcome to EDXR, Larry -ed)
670 WWFE FL, Miami (ES)
3/22 0315 SS nx, wx. "Radio Fe" IDs. Good.
690 WJOX AL, Birmingham (LF)
3/28 0720 "Gospel Down South." Solid signal.
730 KSUD AR, W. Memphis (GES)
3/1 0030 ID heard after series of PSAs & Memphis mentions, then into REL program. Most wanted here, finally all alone after many years of trying! No CHYR7 here as they've been on 710 at night lately.
730 WWTX FL, Lake Placid (GES)
3/15 0100 legal ID, again like KSUD 2 wks before, this pretty much had the freq to itself. As before, CHYR7 not here, on 710 overnight, leaving this quite an open channel. Nonetheless, a nice surprise. Hey, J.D., how about contacting Trinidad & Tobago for a test program. Hi! I think they are quite friendly there and might be receptive. (wish 730 was an open channel HERE - it's a MESS! -ed)
730 WFMC NC, Goldsboro (ES)
3/23 1805 many local news/agri items for 10 minutes. "73-WFMC." Number given as 734-4211. Xlnt on peaks.
790 CFAN NB, Newcastle (ES)
3/23 1815 local events schedule. "CFAN 790" jx. Fair.
950 WPEN PA, Philadelphia (MB)
3/8 1806 pr in CKBB null w/ID as "950 AM WPEN." Into big band era schmaltz.

FREQUENCY OF THE MONTH: 1000 kHz

1000 WIOO PA, Carlisle (ES)
3/17 1830 "100 WIOO" "AM 100 WIOO." Mike Hanner Show. "Today's hits and yesterday's favorites."
1060 WBIV MA, Natick (ES)
3/29 0200 Vry weak w/KYW off. I'm probably in a major null to protect KYW. "AM 1060 WBIV: Boston's new station for today's best Christian music."
1070 !KNX! CA, Los Angeles (JD)
3/13 0120-0131 strong at times during our 8" blizzard. Frequent "KNX News-time" and "All you need to know is KNX 1070 Newsradio." Sports, Stardate pro-

DEADLINES: April 30, May 28, July 2, July 30, August 20, September 4.

*** THE REPORTERS ***

(MB) Mike Brooker - Toronto ON
Panasonic RF-2200, Sony ICF-7600D
(LF) Larry Flegle - Woodstock GA
R-388, SP-600-JX, Kenwood 940-S, Space Magnet
(MH) Mike Hardester - Jacksonville NC
(GES) Gary Siegel - Toledo OH
Panasonic RF-2200
(JD) J. D. Stephens - Huntsville AL
Panasonic RF-2600, Sony ICF 2001, several longwires
(ES) Elliot Straus - Toms River NJ
R-390A, Quantum Loop, longwires, MFJ 959B
(WW) William Wyllie - Franklin MA
Realistic Modulaire 2200, built in antenna
(ed) The editor at home with R-392, 2' box loop, Autek QF-1

*** OF SPECIAL INTEREST ***

730 CHYR7 ON, Leamington (GES)
not on 730 at night lately, have been on 710 at night as CHYR, ex daytime only affiliate.
1160 WBND KY, Florence (GES)
moved here on 3/15 from 1180, & briefly took the calls and format there with them (old calls WMLX) but they've now switched. Not enough programming heard in recent days to determine if they've changed formats or not. Was still NOS as of 4/1 when new calls took effect. (WBND would indicate to me that they plan to remain big band/NOS, but let's see what happens. -ed)
1160 (WCXI) MI, Fenton (GES)
this ex-WFEN, ex-WACY was briefly this old Detroit 1130 call at the start of 1993, but was noted gone as of 2/15/93. They were C&W and were trying to capitalize on the popularity of the now defunct WCXI-1130, which is now duping it's WWW-106.7 FM onto 1130. Supposedly in the process of being sold, and may yet return, but for now is gone.
1290 WAMX MI, Saline (GES)
ex WIQB returned 3/1 with these calls and AC format that contains some new wave.
1540 WREJ VA, Richmond (ES)
3/15 1810 call change. ID as "Rejoice Radio." GOS mx, fair. Was WRBN.
1580 (WMOF) NC, Camp Lejeune (MH)
station STILL off the air as of 3/22. Phone calls are unanswered, except once

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gram. The most frequent Californian here in AL, in fact, the only one I've heard more than once!

1080 WDJX KY, Louisville (LF)
3/27 0005 rock mx. Good signal.

1110 WNAP PA, Norristown (ES)
3/19 1828 s/off w/"God bless you and have a good evening." Power off.

1250 WMTR NJ, Morristown (WW)
3/5 1755 fady but strong. Songs by Teresa Brewer. ID as "Great songs, great memories."

1270 WCBC MD, Cumberland (ES)
3/18 0345 "AM 1270 WCBC." Jim Bohannon show. Fair.

1290 WHKY NC, Hickory (GES)
(date, time?) noted w/Hickory nx. wx, tx and several IDs. Had searched for this one for many moons. The Saline MI 1290 was silent during this period while awaiting new format & ownership.

1300 WJFK MD, Baltimore (ES)
3/22 0300 "WJFK-FM, Washington DC: AM 1300 WJFK-Baltimore." Relaying WJFK 106.7 FM w/30 min music sets. Fair.

1310 WTLC IN, Indianapolis (MB)
3/9 1830 good, creaming CIWW w/promo for "Sesame Street Live" at Market Square Arena, sponsored by WTLC. ID as "Gold at heart, AM 1310 WTLC Indianapolis." Into "Take the A-Train." Last hrd as WTUX: they've been through many calls since I first logged them as WIFE in 1977.

1320 WJAS PA, Pittsburgh (JD)
3/25 0155 NOS mx. Slogan "Great songs, great memories, coming to you on your great music station - AM 1320 WJAS."

1350 WSLR OH, Akron (LF)
3/26 2352 strong w/C&W.

1370 WRGS TN, Rogersville (JD)
3/8 0159-0207 good w/Peoples Radio Network programming. UPI nx.

1370 WXXI NY, Rochester (ES)
3/20 0315 good w/"Blues Spectrum" pgm. Playing old time Mississippi Delta blues.

1410 WLSH PA, Lansford (WW)
3/5 1810 poor signal mixing with WPOP. Noted slogan: "The memories station." Thought I heard an "oldies" slogan but not sure. Soon lost.

1420 WKSR TN, Pulaski (JD)
3/12 1805-1809 fair w/C&W mx, wx. WKSR/WING Community Events Calendar. (clarification needed: WING is the 1410 Dayton OH stn: how can there be a WING-FM? I assume that's what was meant.-ed)

1440 WAJR WV, Morgantown (ES)
3/17 1900 "Full service WAJR Morgantown." WVU Mountaineer basketball network.

1440 WZYX TN, Cowan (ES)
3/26 1858 "WZYX, 1440 on your dial, right here in Cowan, Winchester, and Decherd." Poor, mucno QRM.

1460 WPNX AL, Phenix City (LF)
3/25 1813 "Oldies 1460." Heavy inter-

ference.
(I often heard this stn in NC in the 60s, but never since. Have they changed power and/or patterns since then? -ed)

1470 WJDY MD, Salisbury (ES)
3/17 1658 fr w/s/off anmt.

1470 WTZE VA, Tazewell (ES)
3/26 1815 ads, into 1829:30 s/off anmt. "Inviting you to join us now on WTZE-FM 100.1 MHz."

1480 WAJA NC, Franklin (GES)
3/13 2339 on air w/full power for snow storm emergency info. On air all night long w/info & C&W mx. Much WWWW-1470 QRM/slop. The ancr indicated they'd had 2' of snow with drifts high as houses. Very friendly per call to the station. Hope everyone in the east weathered the big storm OK. In Toledo, the "Miami of the north," we had only 0.8' of snow from this monster. Whew!
(that's OK - you guys get your share at other times. Hi! -ed)
+ (JD)

3/27 1905 fair w/C&W mx. Wx, tx about Atlanta Braves baseball. Slogan "Franklin's Radio Station - WAJA."

1510 WSSH MA, Boston (ES)
3/24 1830 wx, "R. Continental" slogan.

1550 WARD PA, Pittston (WW)
3/2 (time?) noted part of legal ID as "the talk station, Scranton/Hazleton." Into rebroadcast of WNEP-TV Ch. 16 "News-watch."

1550 WMDH IN, New Castle (ES)
3/22 0405 "Radio 1550-WMDH AM New Castle." NBC nx, local ads for Radio Bingo. Xlnt at times. 250 wts.

1560 WPAD KY, Paducah (ES)
3/22 0400 "You're listening to the original hits of the 40s, 50s and 60s on WPAD." Standards from the 40s & 50s.

1570 WBGZ IL, Alton (JD)
3/16 0030-0058 tx programming, wx. "Z 1570 Weather" promo. Local program promos & PSAs. Slogan: "Serving the Riverbend 24 hours a day, this is Z-1570."

1580 WZZJ MS, Pascagoula (JD)
3/25 1853-1900 fair w/plea for pledges to reduce the station's \$21K debt. Gave phone #s to call. Wx, GOS mx.

1580 WESY? MS, Leland (JD)
3/25 1911-1913 good w/s/off anmts. Suggest listeners tune to WBAD 94.3 FM. Gave QTH as "Leland-Greenville." Calls sounded a lot like "WGSY." Have they changed?

1580 WLIM NY, Patchogue (WW)
2/28 1725 gd but fluttery. ID: "We're playing your song. Life is better at the top at 1580 WLIM." Pwr cut at 1730, soon gone.

1580 WPGC MD, Morningside (WW)
3/1 (time?) fair to good after WLIM power cut. CNBC nx. "Business News Radio."

1590 WKTP TN, Jonesboro (LF)
3/27 2112 EZL mx, ads etc. Vry strong.

* unIDs *

1570 ?WGSR? GA, Millen (JD)
3/27 1843 I need help on this one! EST
TCs, spot for "Autorama" in Louisville.
Promo for the "Homeward Bound" show.
Xtian mx. Who is this? Millen is in the
vicinity of Louisville, but my NRC Log
shows WGSR as silent. Also, the station
slogan was "Inspiration Radio." No CLs
given. Help!
(I agree with your line of reasoning,
JD, but I have no more info than you.
Help, anyone? -ed)

* DX TESTS *

640 WWJZ NJ, Mt. Holly (GES)
3/1 0001 solid w/30 kW at times. QRM
was WBOW-IN, which is relatively new to
this freq. WBOW unneeded as has been
heard on 1230 many times in years past.
790 (WLKW) RI, Providence (ed)
3/29 0000-0015 no sign of IRCA DX TEST.
Massive QRM from WTAR, WMRZ and others.
Once I thought I heard a tone, another
time a quick burst of code, probably
just wishful thinking & slop from WBBM
780. Badly needed RI escapes me again.
830 WKTX OH, Cortland (WW)
3/1 0125-0135 NRC DX TEST. Tones came
through very good, also noted wk voice
IDs. WKTX calls, plus an FM call I
couldn't hear. WCCO in there also but
poor. Sent taped report.
940 WECO TN, Wartburg (JD)
3/27 0000-0030 good w/many voice IDs,
tones, lengthy Morse Code message.
Banjo, BLG mx.
1150 (KWKY) IA, Des Moines (JD)
3/15 0100-0130 not heard. Too much
KLRG/unID stations. Not needed.
1180 KKAR NE, Omaha (JD)
3/15 0102-0113 caught several weak
code IDs under the Cuban.
+ (GES)
3/15 0102 code IDs, not much else not-
ed. WHAM & Cuban QRM too much to han-
dle.

* OTHER STUFF *

From Tom Bryant: For the northernmost
and southernmost active ECB stations in
the 48 contiguous states, how about
KARI-550 Blaine WA, and WKIZ-1500 Key
West FL? (How about them? Does anyone
disagree? There's still time. Also from
Tom, info on the western boundary for
"W" calls. 'JS 81 seems to be only a co-
incidence. The Mississippi River was ad-
opted as the official boundary in Jan
1923. "W" calls already granted west of
it were allowed to continue. Thus, we
have WDAY, WBAP, etc. Thx for the fas-
cinating info, Tom. -ed.)

* EDITOR'S DESK *

Thanks to Tom, Mike, Mike, Gary,
J.D., Elliot, William, and welcome

Larry! Be sure to report often.

Congrats to Gary on his KSUD-730
logging. Gary, I hope you didn't mind
my rearranging your report slightly to
get some of the tips out front more.
The call changes and stations back on
the air are among the most useful tips
anyone can report.

FREQUENCY OF THE MONTH: MAY: 820 kHz

Hope everyone enjoys the new format!
It's something I've been working on,
but couldn't easily implement with the
old printer. I wish I could say it's
easier: with all the test printing I
have to do to get the columns right,
it's not. Still, I think it's worth it:
I find the columnar format easier to
read, and it has the added bonus of be-
ing about 30% more efficient in terms
of DXM page space used. If anyone finds
the new format harder to read and fol-
low, by all means let me know! The
purpose is to serve the membership, not
indulge the editor's whims and fancies.

Typos in the March 27 issue: David
Reitz' 640 was, of course KFI, not
KNX. Also, the 1530 DX test was KPCR,
not KCPR. Working the night shift is
really having an effect on the mind.
Thanks to Robert Wien for bringing
the typos to my attention.

* DX RECORDS *

REPORTER: John C. Johnson
DATE OF REPORT: 2/1/93
LOCATIONS: Billings MT
Sheridan WY (1962-1972)
STARTED DXing: 1962
YRS SERIOUSLY? 31
COUNT CALL CHANGES? yes

HEARD/VERIFIED:

TOTAL ECB: 1326/977
US-CANADA: 1319/972
FOREIGN: 7/5
STATES: 3/41
PROVINCES: 7/6
COUNTRIES: 1/1
DC? no
MOST HEARD: CA-139

BEST CATCHES:

DOMESTIC:
HEARD: WDEA-1370 ME, Ellsworth
VERIFIED: WFUN-790 FL, Miami Beach
CANADIAN:
VERIFIED: CBA-1070 NB, Moncton
FOREIGN:
VERIFIED: XERB-1090 BJC, Rosarito Beach

TOTAL GY HEARD/VERIFIED: 159/109

1230: 20/12 1240: 23/15
1340: 30/22 1400: 29/19
1450: 28/21 1490: 29/20

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Western DX Forum ★ ★ ★ ★ ★

Reid Wheeler 5910 Boulevard Loop SE Olympia, WA 98501

Deadline: Saturday 2 weeks before publication

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

[1/22] This has been a pretty good DX season for me. One of the best in a longtime. My hat goes off to J.D. Stephens for all the great DX tests he set up. I wouldn't have logged Rhode Island without it. Getting QSLs is sure not as easy as it used to be. Even calling the stations doesn't do as much good as it used to. Sometimes a prepared QSL card works, but who wants a collection full of those! I do have some in my collection, but sometimes that is about all you can do is to get one. Last October I finally logged the last Guam station, KGUM-567-5KW. I sent a report out with a tape, and nothing came back. I sent a f/up a month or so later - still nothing. So finally I decided to phone the station which cost me \$8.00 for 6 minutes. I was told to send the report to the GM, which I did and I got a nice letter from him. I remember the days when I first started to DX and QSL in the 60s when a reception report on a 4-cent portcard would do for a report. I was in High School at the time and didn't have a lot of \$\$\$\$. I lived in Seaward AK at the time and managed to get at least 90 percent return without f/ups! Today I am lucky to get 50 percent the first time around. A few years ago it was 70%. Recently I read a forum by Olle Alm-Sweden who is one of the greatest DXers and QSLers on MW in the world. He recently went on a DXpedition to Northern Sweden where he does every winter and sent out many reports, including 11 to the Philippines. Not one came back - a very poor return. QSLing is still fun but much more difficult than it used to be. I am glad I QSL'd a lot in the years gone by. If I had to verify those stations today (If I could even hear many of them), it would be impossible. The last month has been great with QSLs from KBIB-AR, CBA-NB, CHOK-ONT, KPCR-MO, KWOG-WY, CJXX-AB, KGUM-GM, KXEP-TX, KVML-CA, KCOL-CO, WARV-RI, etc. It would be interesting to hear how other DXers make out with QSLs in the 90s. I know many do not QSL anymore because of the time and expense. But there are some that continue to QSL no matter what. Sometimes I ask myself why bother? But then I look at a 2100+ MW QSLs I have, then I have my answer! Good DX. 73s, Patrick.

Dennis Gibson, 442 Ellwood Beach Dr #3, Goleta, CA 93117-2551

[3/24] I've been meaning for some time to introduce myself, but somehow never got around to it until now. I'm 37 and married to Pamela for 8 years. Fortunately, she thinks DX'ing is fun and being a night person (I'm not) she sometimes logs stations I'd do bodily harm to hear. I joined IRCA a little over a year ago. Guess you could say I'm a radio nut: I've been a ham since 1969 (WB6TNB), and I'm an avid shortwave listener and scanner enthusiast. I've worked as a Weights and Measures Inspector for the County of Santa Barbara since 1984. I've DX'ed a little off and on since I was about 10, but kicked into high gear upon buying a GE Superadio II in 1987 followed shortly by a Select-a-tenna. **GOOD NEWS FOR GE SUPERADIO III OWNERS:** Thomson Consumer Electronics, GE's parent company, has admitted that some early radios, manufactured in mid to late 1992, were shipped with severe sensitivity problems. Those of us with III's already knew that. Radios made before week 42 of 1992 may have this problem. Luckily, decoding the date code appearing on the box and in the battery compartment is easy: Ignore the first number. If the second number is a 2 that means it was made in 1992. The last two numbers are the week of manufacture. Week 42 and later are supposedly OK. Mine, purchased 9-24-92, was made during week 29 and is very numb, along with other problems. Just follow the warrantee exchange procedure outlined on the back cover of the instruction manual. Mine's going back right away. I'm interested in putting together a list of hams in the club, to be distributed to interested members. Drop me a line: I'd like to include info such as favorite bands and/or modes, equipment & antennas used, etc. 73's Dennis. *[Welcome to these pages Dennis - and a special thanks for the Superadio III info - hope to hear from you again soon - also see Randy Stewart's DXF for more on Superadio III - rcw]*

Gary Jackson, 7735 Center Pkwy, Sacramento, CA 95823

[3/27] Missed the Anniversary Issue but been so busy! Wife just started back to work after accident! And state has cut our wages, so I won't even think about the convention! I'm 52 years old, work for the Dept of Justice, State of California, ten hours a day and with wife working swing I have to pick her up at 11 pm and then get up at 3:30 am to get to work, plus both working weekends! So just don't have much time to DX! Conditions really bad here with so much electrical interference, and there are 3 50,000 watt stations within 7-8 miles. Looking now for a good medium-wave antenna but wonder if anything will help this mess! Gary

Randy Stewart, 4225 W LaCasa, Springfield, MO 65802-5615

[3/29] Sorry I missed the Anniversary issue, so here's a brief re-intro: I'm 36, married to a librarian (Gov't Documents assistant), and I program classical music (mostly) and jazz at WSMU-FM (91.1), the NPR station at SW Mo. State Univ. I've been a member of IRCA since 1989 and have DXed the BCB off and on since 1969; currently limping along with a late-model Realistic TRF and a 4-foot spiral loop mounted on a slab of plywood. Not much DX done lately--did try for the WLKW-790 DX test on 3/29 but heard nothing [Note to J.D. Stephens: please try to get participating stations to indicate whether they'll be using dir. ant. during DX tests -- heck, while you're at it, try to convince them to go non-dir., hi!] Noticed Rich Eddie sent in a report to CDXR recently -- good to see he's still active in MW DX. In other news: the broadcast-industry paper Radio World just ran a review (including tests by hi-fi critic Len Feldman) of the Superadio III. Surprise -- the broadcasting industry LOVES it. Apparently it's designed mostly for "wide-band" AM audio (that's why the filters are 'normal' and 'WIDE') out to 8 or 9 kHz, NOT for DXing. Also, GE/Thomson admits that "a few early models...made in mid-to-late 1992, were shipped from the factory with severe sensitivity problems..." Thomson didn't catch all of 'em before they hit the stores. They say to look for the 4-digit code (NOT the serial #) on the box or in the battery compartment... if the 2nd no is "2", the set was made in 1992 and could be defective; ditto if the 3rd and 4th numbers are "41" or lower (referring to the fiscal week the set was made). If they're "42" or higher (or if the 2nd # is "3" [1993]), then the set should have better sensitivity than the ones Gerry Thomas and others checked out. That doesn't explain the "birdies" however ... audition before buying! Speaking of radios, I'm anxious for someone to review the new Yaesu FRG-100 -- looks like a decent little rig. Also, does anyone have any experience with/knowledge of the MW performance of the (British) Lowe HF-150 and -225? If so, let us read about it in DX Monitor. Be an active member - VOTE in the IRCA elections! 73 from the Ozarks.

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

(406) 259-9210

[4/4] April 1st brought a bunch of changes to the Billings radio market. Recently three stations were sold. KUUS-1240 and their FM KZLS 91.7 were both sold. The FM for \$310,000. KUUS went for \$14,000. Hard to believe a Billings AM went for the price of a medium size car! KUUS is now owned by the May Broadcasting School here, so expect a format and call change at some point. KZLS was sold to the people who owned KCTR AM & FM. KCTR is C&W as "The Cat", KZLS was rock, now oldies calling themselves "The Bear" and "K-Bear." KYVA 93.3 was sold to KBLG-910 and KRXR 94.5 for \$415,000. No changes in formats. KGHL no longer simulcasts KGHL-FM (C&W). KGHL-FM 95.5 is now KDWG "The Dog" and is still country, but different than KGHL-790. Their other FM, KDIX remains light rock. KBSR-1490 has increased SS programming to both Saturday and Sunday mornings. It's quite a zoo around here the cat, dog and bear! Also very interesting now that three owners in Billings each own three stations! Convention plans are rolling along. A reminder, when calling for reservations at Quality Inn you must mention "IRCA Block" and the confirmation number P41386; otherwise you will be told there are no rooms available. BILLINGS '93. 73, John-John. [...and thanks for the stickers - rcw/]

Larry Godwin, 2390 Clydes Dale Ln, Missoula, MT 59801

(406) 721-5131

[4/4] Greetings! I got a card from Dajja Enterprises offering AM, FM, and TV stations logs on disk for \$19.95 each. They also sell the logs in book form for \$16.95 each.

The Anniversary Issue looked great! Thanks to Ralph and all editors for your extra efforts. I received my NRC map book but half the pages are blank. I called NRC Publications and the fellow there said the printer goofed up; he is in the process of sending everyone the corrected books. I second Leonard's opinion that Hawaii and Puerto Rico loggings belong in DXWW, and I like seeing the XE's there, too. Elliott Strauss, welcome back to the IRCA! S.D. Warren, I'll wager you'll experience a tremendous increase in pulling power if you buy a Quantum or Radio West loop to replace your Palomar. We have so many qualified members running for the BoD; it's really tough to pick just seven from the list! The Kiwa Loop includes a 30-day trial guarantee for complete refund; likely I'll order one. John says the convention registration forms are rolling in. Have you mailed yours yet? Save up your auction items and bring them with you. If you can't attend, please mail them to John. The auction can be a major fund raiser for the club. 73.

Ralph Sanserino PO Box 70223 Riverside CA 92513

This forum added by the IRCA publisher. I removed a phone number from the forum of Larry Godwin for Dajja Enterprises. Dajja Enterprises is Mr Nitter the former business manager of the National Radio Club (NRC). The NRC and Mr Nitter are at odds about who owns the station logs and I think the IRCA should wait for the out come before we give anyone a plug. It is editorial policy to mention changes I make in someones forum. While I have the tyrewriter going I should remind all of you to vote before May 1st. I will be at the IRCA convention in Billings and will listen to all suggestions on how to improve the DX Monitor, so make up a list if you can, HI!!

STATION SYNOPSIS

FORMAT: The Big Band Sound, Swing Era, & Jazz

TARGET DEMOGRAPHICS: 35-64 year olds

OVERALL IMAGE: The only Station in the Market that provides adult listeners with their favorite songs of all time, performed by the great entertainers of the past 40 years.

- FEATURES:**
- Newscasts at the top of the hour from 6 a.m. to 9 a.m.
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DEADLINES: 5/1 5/29 7/3 7/31 8/21 9/4 Phone: 414-ATLantic 2-9035

Karl D. Forth, 2444 West Belle Plaine, Chicago, Illinois 60618

Most of the DX activity this year has been chasing the DX tests, and I've heard a number that have been needed here. Thanks to those who arranged the tests! Highlights have been KCNO-570, KNEB-960, WNTK-1020, WNNW-1110 and WWJZ-640, all new here. My Hammarlund HQ-160 is back in action and is being used for both medium wave and shortwave DXing. Local DXer Norm Geuder aligned and greatly improved the sensitivity of this 30-year-old receiver. Other than the DX Tests, activity has been light. The band is a little two crowded for interesting late night sessions, and the few times I've tried sunset the band has been fairly quiet. I haven't achieved one goal this season: hearing WGN-720 off the air and logging Las Vegas on that frequency, but I've read of others doing this in DXM this year. I've also been working on a project of computerizing my heard log. I've finished all the foreign loggings and all the domestic except for a four-year gap from 1974 to 1978. It's good to see John Rieger's reports. Welcome back! 73.

Gary Siegel, 2955-115th Street, Toledo, Ohio 43611

Greetings all. My congratulations on IRCA wrapping up its 29th year. I missed the anniversary issue due to a busy schedule here. Still I'll offer a reintro here. I'm 42, newly married to a great gal-Jeannette, and have been a dispatcher with the Sylvania, OH police dept. for over 15 years, the last 11 as Chief Dispatcher. Prior to that I was announcer for radio stations WCWA-1230 here in Toledo and also for Toledo's 1520 which at the time was WTUU and WANR but which most recently was WVOI and is now WJCM as of 3/15/93. The station is now black gospel. You might want to note this change. My totals are now 3,075 heard, 49 states, 10 provinces, 53 countries. I only have a small smattering of veries, never really got started in that area due to the expense/time involved. Incidentally, the WJCM calls at Toledo's 1520 is now the 6th they've had, now in its 4th ownership, whew! One of the most recent format/ownership changes of some note in this area involves CKLW-800 in Windsor. The CHUM, Ltd. group has now taken over all four Windsor commercial stations and per the CRTC documents I sent for cited severe competition and possible financial failure of the Windsor commercial stations for allowing this monopoly ownership situation in Windsor. This effective as of 3/1/93. The CRTC cited the competition from the Detroit stations as being hurtful to the Windsor operations. In CKLW's case this ownership change caused the new owners to swap CKLW's highly successful nostalgia format with its newstalk 580 sister CKWW. In cities such as Toledo and Cleveland, etc. this move has proven to be very unpopular as the demise of CKLW has taken away the last vestige of 'good' listenable music from the AM dial in this area. CKLW-800 pulled anywhere from a 3 to a 5 share in Toledo and was 10th rated in Toledo's most recent arbitron. Just proves once again good radio must die! Looks like the AM's are trying to commit hari-cari by making themselves so unlistenable that eventually they all go out of business. Quite a hard fall for CKLW-800 which once dominated Detroit/Toledo/Cleveland markets as the #1 overall station in the '60's & '70s. Enough for now. 73s. Aloha.

Gerry Thomas, 3635 Chastain Way, Pensacola, Florida 32504

Hi again. Just got back from the Orlando Hamvention, picked up an Allied SX-190 (which I'd been looking for years) for SW work; nothing else of note. I did join the Florida Antique Wireless Group, an association of about 400 Floridians with an interest in old-time radio of one sort or another. Most of these folks have an interest in CBB DX so I found their ranking of the all-time best tube-type communications receivers noteworthy: #1 Collins R-390A; #2 Hammarlund SP-600 Super Pro; #3 Collins 51-J4; #4 National HRO-60; #5 Hammarlund HQ-180 series; #6

National NC-183D; #7 Hallicrafters SX-88; #8 Hallicrafters SX-28; #9 Hammarlund HQ-145; and #10 Hallicrafters SX-62. Also in the same issue of the newsletter was this unreferenced comment regarding the relationship between weather conditions and DX: "Measurements made at various universities showed that on the night following a cloudy day signals were received more clearly than on nights following days of bright sunlight. It appeared that the cloudiness was most effective when it covered the territory lying between the sending and receiving stations." Make of that what you will. On other matters, I've put together a coupler for use with the Quantum Loop and radios not having antenna terminals. It actually seems to work better on portables like the Superadio than the direct connection method (because you can control the degree of coupling and, therefore, the Q); details in an upcoming article (also, some updates on the Quantum Loop). I'll be in Ohio in late April and will try to get by the Dayton Hamfest, which should be an experience. 73's...GT

Rick Evans, 4841 South 26th Street, Milwaukee, Wisconsin 53221-2937

Greetings from what is probably the country's largest city without drinkable city water, hi. We're surviving but my wife and two cats don't like to drink boiled water! In reference to Charley Keleher's comments last month about the Superadio, my radio is the model 7-2885F, which I bought from a Goodwill store in Wisconsin Rapids, WI in the fall of 1987 for about \$39 plus tax. I was tipped off to the store by Frank Merrill; my wife checked it out and didn't like the place so I decided to take a look. I'm sure glad I did. The moral of the story is that you never know where you will find things. We had a bad snow storm here on the night of 3/30-4/1, I left work going over the dock (instead of the regular door) to cut down on the snow I had to tramp thru. On the dock, we had a pallet of the new Superadio III's. I took a moment to look the box over, but didn't take a chance on opening one. From the picture on the box, I wasn't impressed a bit. The appearance of it looked kind of chintzy. Two veries in since my last Forum: KOA-850 CO for a 8/25/92 rpt and WBZ-1030 MA for a 9/29 rpt. Both v/q's. Neither fantastic here, but they were done on a small radio while working so from that standpoint it was decent. Now up to 16 veries from 8 states, no Canadian veries yet. I'll be heading down to Alabama on 4/17. The Superadio and a log are going with me, so hopefully I'll be able to start a Ozark (AL) log some 9 years later than I should have. One of the things I just located in a file box in my shack is the pack of file cards I used when I was first starting to DX and verify in Michigan in 1964-66 to keep track of reports I sent out. A fast glance at them right now indicates I still don't have any records of the stations I wrote to with no response, but at least now I can complete the records on the ones I did hear from. Karl tucked a handwritten note on the end of his Forum report saying "Aren't computers great for radio column editing!" The answer, of course, is absolutely. (One of my personal Forums last December was almost completely re-written three times before I printed the column, and it was because of the computer.) However, even better I think is the possibilities of keeping the radio logs up to date, adding things as I find them 30 years later (hi), and also keeping my newspaper collection records updated simply with just a few keystrokes, as opposed to the old way of retyping many pages of lists sometimes. If you think this season has gone by fast, just think...after this copy, it's only four more DXMs until Labor Day! As I type this, I don't know how the election results will turn out, but it had to be the toughest election I can remember to decide how to vote. I think any seven candidates will make a good BoD, and the others shouldn't feel bad about not making it. When I joined IRCA, we were electing BoD members by regions, not at-large, and I think this is the better way. Must go. See you in three weeks. Remember my deadlines are at the top of the column each month.

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

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from across the fruited plain, he arises again...it's not Freddy Krueger, Leatherface or Jason of the Dallas South Stars...he's back—no it's not the Ninja Turtles or the Democrats...oh no, it's, it's—help!

SPORTCHANNEL IRCA

Dale Park * Box 22778 * Honolulu HI 96823-2778

Yes, it's me, back for another go-round at compiling and presenting radio networks broadcasting team sports, under a probationary period granted by Mr. Phil Bytheway. (Oh thank you thank you.) You may recall I did another column under a similar name in the late 1980's during the Portzer era but I dropped out without warning due to financial and personal reasons. However, I hope this authorship is better the second time around. I hope you will support this effort by loading my P.O.B. with network listings. This summer sees two new major league baseball teams, more minor league teams, soccer, Canadian and Arena leagues....

NATIONAL LEAGUE

| | | | |
|------|---------|----------------------------------|---|
| 640 | WGST-GA | Atlanta BRAVES | Skip Caray, Don Sutton, Pete van Wieren, Joe Simpson |
| 720 | WGN-IL | Chicago CUBS { SPANISH: } | Harry Caray, Thom Brennaman, Ron Santo TBA |
| 700 | WLW-OH | Cincinnati REDS | Marty Brennaman, Joe Nuxhall |
| 850 | KOA-CO | Colorado ROCKIES { SPANISH: } | Wayne Hagin, Jeff Kingery TBA |
| 560 | WQAM-FL | Florida MARLINS | Joe Angel, Dave O'Brien |
| 1210 | WCMQ-FL | { SPANISH: } | Rafael "Felo" Ramirez-Arias, Manolo Alvarez |
| 950 | KPRC-TX | Houston ASTROS | Milo Hamilton, Bill Dierker, Bill Brown, Vince Cotroneo |
| 1320 | KXYZ-TX | { SPANISH: } | Rolando Becerra, Orlando Sanchez-Diego |
| 790 | KABC-CA | Los Angeles DODGERS | Vin Scully, Don Drysdale, Ross Porter |
| 1330 | KWKW-CA | { SPANISH: } | Jáime Jarrin, Rene Cardenas |
| 600 | CICQ-QU | Montreal EXPOS | Dave van Home, Ken Singleton, Bobby Winkles, Elliot Price |
| 730 | CKAC-QU | { FRENCH: } | Jacques Doucet, Rodger Brulotte, Alain Chantelois |
| 660 | WFAN-NY | New York METS | Gary Cohen, Bob Murphy |
| 620 | WSKQ-NJ | { SPANISH: } | Armando Talavera, Billy Berroa |
| 1210 | WUGL-PA | Philadelphia PHILLIES | Harry Kalas, Richie Ashburn, Andy Musser, Chris Wheeler |
| 1020 | KDKA-PA | Pittsburgh PIRATES | Larry Frattare, Jim Rooker, Kent Derdivanis, Steve Blass |
| 1120 | KMOX-MO | St. Louis CARDINALS | Jack Buck, Mike Shannon, Joe Buck |
| 760 | KFMB-CA | San Diego PADRES | Jerry Coleman, Bob Chandler, Ted Leitner |
| 1420 | XEXX-CA | { SPANISH: } | Mario Thomas-Zapiain, Eduardo Ortéga |
| 680 | KNBR-CA | San Francisco GIANTS | Hank Greenwald, Ted Robinson |
| 1170 | KLOK-CA | { SPANISH: } | Tito Fuentes, César Rivera |



Florida MARLINS

| | | | | | | | | | |
|-----|---------|------|---------|------|---------|------|---------|------|---------|
| 540 | WGTO-FL | 590 | WGNE-FL | 1200 | WDCQ-FL | 1240 | WFOY-FL | 1380 | WELE-FL |
| 560 | WQAM-FL | 600 | WOKV-FL | 1230 | WJNO-FL | 1330 | WJNX+FL | 1500 | WKIZ-FL |
| | | 1130 | WWBF-FL | | | 1350 | WLMA-SC | | |
| | | | | | | 99.3 | WLRQ-FL | | |

FM:

(+) Relays 1230 WJNO.

AMERICAN LEAGUE

| | | | |
|------|---------|-----------------------------------|---|
| 1090 | WBAL-MD | Baltimore ORIOLES { SPANISH: } | Jon Miller, Chuck Thompson, Fred Manfra TBA |
| 680 | WRKO-MA | Boston RED SOX | Jerry Trupiano, Joe Castiglione |
| 710 | KMPC-CA | California ANGELS { SPANISH: } | Bob Starr, Billy Sample TBA |
| 1190 | KORG-CA | Chicago WHITE SOX | John Rooney, Ed Farmer |
| 670 | WMAQ-IL | { SPANISH: } | Chico Carrasquel, Hector Molina |
| 560 | WIND-IL | Cleveland INDIANS | Herb Score, Tom Hamilton |
| 1220 | WKNR-OH | Detroit TIGERS | Ernie Harwell (FINALE), Rick Rizzs, Bob Rathbun |
| 760 | WJR-MI | Kansas City ROYALS | Denny Matthews, Fred White |
| 580 | WIBW-KS | Milwaukee BREWERS | Bob "Meatloaf" Uecker, Pat Hughes |
| 620 | WTMJ-WI | Minnesota TWINS | Herb Carneal, John Gordon |
| 830 | WCCO-MN | New York YANKEES { SPANISH: } | John Sterling, Michael Kay TBA |
| 770 | WABC-NY | Oakland ATHLETICS { SPANISH: } | Lon Simmons, Bill King, Ray Fosse Amaury Pi-Gonzalez, Erwin Higueros |
| 910 | KNEW-CA | Seattle MARINERS | Dave Niehaus, Ron Fairly, Chip Caray, Ken Levine |
| 1430 | KNTA-CA | Texas RANGERS | Mark Holtz, Eric Nadel |
| 710 | KIRO-WA | { SPANISH: } | Mario Montez, Luis Mayoral |
| 820 | WBAP-TX | Toronto BLUE JAYS | Tom Cheek, Jerry Howarth |
| 910 | KXEB-TX | | |
| 1430 | CJCL-ON | | |

California ANGELS

| | | | | | | | | | |
|------|----------------|------|---------|---------|---------|------|---------|------|---------|
| 590 | KRSO-CA | '' | KLAV-NV | 1340 | KIKO-AZ | 1350 | KBID-CA | 1380 | KKHJ-CA |
| 710 | <u>KMPC-CA</u> | 1250 | KHDI-CA | '' | KIST-CA | 1360 | KNNS-AZ | 1400 | KTUC-AZ |
| 1230 | KPRL-CA | | '' | KGLW-CA | | | | 1430 | KAMP-CA |

Dropped: 1080 KWAI-HI.

Bob Starr, Billy Sample**Seattle MARINERS**

| | | | | | | | | | |
|-----|----------------|------|---------|--------|---------|------|---------|------|---------|
| 550 | KENI#AK | 840 | KDBS-OR | 1150 | KQQQ-WA | 1280 | KIT-WA | 1360 | KUIK-OR |
| 600 | CHR#BC | 870 | KORD-WA | 1170 | KPUG-WA | 1320 | KXRO-WA | 1370 | KAST#OR |
| 680 | KOMW#WA | 920 | KXLY-WA | 1240 | KWIK*ID | 1340 | KIHR-OR | 1450 | KONP-WA |
| 710 | <u>KIRO-WA</u> | 990 | KRKT-OR | '' | KCVL-WA | '' | KLKI*WA | 1490 | KVAC-WA |
| 730 | KULE-WA | 1030 | KMAS-WA | '' | KXLE-WA | '' | KWWW-WA | '' | KLOG-WA |
| 800 | KINY*AK | | '' | KGY-WA | | | | 1550 | KVAN-WA |

Dave Niehaus, Ron Fairly, Chip Caray, Ken Levine**-FM-**

95.9 KULE=WA 96.7 KREW-WA 97.1 KNSN-WA 100.7 KIRO/WA
 (✓) Back-up station if conflict on 710 KIRO occurs. (#) Weekend games only. (*) Select games only. (-) AM-FM simulcast. (-) To move to 650.

NATIONAL BASKETBALL ASSOCIATION**Charlotte HORNETS**

| | | | | | | | | | |
|-----|---------|-------------|---------------|------|---------|------|---------|------|---------|
| 550 | WDRV-NC | 1050 | WLON-NC | 1240 | WJNC-NC | 1290 | WHKY-NC | 1400 | WSMY-VA |
| 580 | WTSB-NC | 1070 | WNCT-NC | '' | WROV-VA | 1310 | WTIK-NC | 1430 | WMNC-NC |
| 590 | WCAB-NC | <u>1110</u> | <u>WBT-NC</u> | 1250 | WBRM-NC | '' | WGH-VA | '' | WBLR-SC |
| 600 | WSJS-NC | 1150 | WGBR-NC | 1270 | WCGC-NC | 1320 | WOMG+SC | 1450 | WGNC-NC |
| 730 | WOHS-NC | 1230 | WFAI-NC | 1280 | WSAT-NC | 1340 | WJRI-NC | 1490 | WGCD-SC |
| 950 | WSPA-SC | 1230 | WSKY-NC | | | 1380 | WLRV-VA | 1590 | WCSL-NC |

Matt Pinto (ex-HI), Gary Vaillencourt

(+) Relays 950 WSPA.

NATIONAL HOCKEY LEAGUE**Tampa Bay LIGHTNING**

| | | | | | | | | | |
|-----|---------|-------------|----------------|------|---------|------|---------|------|---------|
| 540 | WGTO-FL | <u>1010</u> | <u>WOYK-FL</u> | 1220 | WQSA-FL | 1340 | WITS-FL | 1400 | WPAS-FL |
| 560 | WQAM-FL | 1130 | WWBF-FL | 1230 | WGGG-FL | 1350 | WWHL-FL | 1490 | WJRB-FL |
| | | | | 1320 | WAMR-FL | | | | |

Dan Gare, Larry Hirsch, John Kelly, Ron Duguay**NATIONAL PROFESSIONAL SOCCER LEAGUE**

| | | | | | | | | | |
|------|----------------|----------------------|--|--|--|--|--|--|-------------------------------|
| 89.7 | WTMD-MD | Baltimore BLAST | | | | | | | Dave Johnson, Andy Freed |
| 1400 | WWBF-NY | Buffalo BLIZZARD | | | | | | | Clip Smith |
| | NONE | Canton (OH) INVADERS | | | | | | | None |
| 95.9 | WKKD-IL | Chicago POWER | | | | | | | Howard Balson |
| 1420 | WHK-OH | Cleveland CRUNCH | | | | | | | Ed Vucinic |
| | NONE | Dayton DYNAMO | | | | | | | None |
| | NONE | Denver THUNDER | | | | | | | None |
| | NONE | Detroit ROCKERS | | | | | | | None |
| 1400 | WINK-PA | Harrisburg (PA) HEAT | | | | | | | John Wilsbach |
| 1340 | <u>KNHN-KS</u> | Kansas City ATTACK | | | | | | | TBA |
| '' | KSEK-KS | | | | | | | | |
| 1340 | WLZR-WI | Milwaukee WAVE | | | | | | | Tom Wynn |
| 1380 | KASP-MO | St. Louis AMBUSH | | | | | | | TBA |
| 1480 | KZSN-KS | Wichita (KS) WINGS | | | | | | | David Phillips, Klaus Kollmai |



The NPSL was founded as the American Indoor Soccer Association in 1984, a minor league for the older Major Indoor Soccer League but soon challenged the MISL for players and status. The AISA became the NPSL in 1991, ironically before the final season of the MISL (which dropped "indoor" from its name.) The Cleveland and Wichita teams later moved to the NPSL for 1992-93, joining newcomers Baltimore and Buffalo. Meanwhile, the Illinois team moved from Rockford to Denver while the Tulsa franchise switched to St. Louis.

PLAYERS OF THE WEEK: Phil Bytheway, Bill Hardy II, Barry Finkel's *DX NEWS* column, *The Sporting News*, *NPSL Media Guide*, various teams.

Well, so much for my comeback attempt, hi. This took me only four weeks on a school Macintosh IIsi plus \$70 in charges at a self-serve place. Maybe I should let Paul Swearingen do it, hi. Anyway, I hope you enjoyed this effort. and I'll try to be more regular. See you in a month! Now, about those milk bottle cap lids—sell me some...

B

Super-MWDX-5 Phasing Unit
Mark Connelly - WAIION - 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 antenna 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.

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

Table 1: Super-MNDX-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 |

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 ["Tap" L] | | |
|-----------|---------------------------|----------------|----------------|--------------------|------|---------------|
| | | | | L# | uH | Mouser Part # |
| 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 ["Tap" L] | | |
|-----------|---------------------------|----------------|----------------|--------------------|------|---------------|
| | | | | L# | uH | Mouser Part # |
| 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 Tank Inductor L# | "Tap" L Inductor uH | Mouser Part # |
| 1 | 9:30 | 90 | 130 | L1, L13 | 10000 | 434-1120-104K |
| [" | " | " | " | L7, L19 | 2200 | 434-1120-223K] |
| 2 | 10:30 | 130 | 180 | L2, L14 | 4700 | 434-1120-473K |
| [" | " | " | " | L8, L20 | 1000 | 43LR103] |
| 3 | 11:30 | 180 | 285 | L3, L15 | 2200 | 434-1120-223K |
| [" | " | " | " | L9, L21 | 470 | 43LR474] |
| 4 | 12:30 | 285 | 430 | L4, L16 | 1000 | 43LR103 |
| [" | " | " | " | L10, L22 | 220 | 43LR224] |
| 5 | 1:30 | 430 | 630 | L5, L17 | 470 | 43LR474 |
| [" | " | " | " | L11, L23 | 100 | 43LR104] |
| 6 | 2:30 | 630 | 880 | L6, L18 | 220 | 43LR224 |
| [" | " | " | " | 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 Tank Inductor L# | "Tap" L Inductor uH | Mouser Part # |
| 1 | 9:30 | 375 | 620 | L1, L13 | 560 | 43LR564 |
| [" | " | " | " | L7, L19 | 120 | 43LR124] |
| 2 | 10:30 | 620 | 1050 | L2, L14 | 220 | 43LR224 |
| [" | " | " | " | L8, L20 | 47 | 43LR475] |
| 3 | 11:30 | 1050 | 1600 | L3, L15 | 82 | 43LR825 |
| [" | " | " | " | L9, L21 | 18 | 43LR185] |
| 4 | 12:30 | 1600 | 2700 | L4, L16 | 33 | 43LR335 |
| [" | " | " | " | L10, L22 | 6.8 | 43LR686] |
| 5 | 1:30 | 2700 | 4000 | L5, L17 | 12 | 43LR125 |
| [" | " | " | " | L11, L23 | 2.7 | 43LR276] |
| 6 | 2:30 | 4000 | 6500 | L6, L18 | 4.7 | 43LR476 |
| [" | " | " | " | L12, L24 | 1 | 43LR106] |

Table 2 (continued)

| * MODEL: Super-MWDX-5D * (extended tropical, SWBC: 1260-12500) | | | | | | |
|--|---------------------------|----------------|----------------|---|------|---------------|
| S1 Pos. # | S1 Knob Pointer "o'clock" | Min. Freq. kHz | Max. Freq. kHz | "Main" L ["Tap" L] Tank Inductor Values | | |
| == | ==:== | ===== | ===== | L# | uH | Mouser Part # |
| 1 | 9:30 | 1260 | 1800 | L1,L13 | 47 | 43LR475 |
| [2 | " | " | " | L7,L19 | 10 | 43LR105 |
| ["] | 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 Pos. # | S1 Knob Pointer "o'clock" | Min. Freq. kHz | Max. Freq. 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.

*** 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.

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.

(Table 4 - continued)

| | | | | | |
|----|--------|---------------------|-----|----------|---|
| 23 | S2,5 | switch/3pole/4pos.r | MOU | 10YX034 | 2 |
| 24 | S3 | switch,DPDT,onoffon | RS | 275-620 | 1 |
| 25 | S4 | switch/6pole/4pos.r | MOU | 10WR064 | 1 |
| 26 | S6 | switch,SPDT,on-on | MOU | 10TC230 | 1 |
| 27 | T1,2,3 | RF transformer,1:1 | MCL | T1-6-X65 | 3 |

Misc. items: hook-up wire, buss wire, solder, labels "AS REQUIRED"

*Item 4 note: for S1, S2, S4, S5, R1, R2, R3.

*Item 14 note: Keystone 1290 or equivalent.

Table 5: (A1) BBA-C1 Broadband Amplifier card parts list

| Item | Designator | Description/Value | Vendor | Vendor Stock # | QTY |
|------|------------|---------------------|--------|----------------|-----|
| 1 | BD | perfboard:1.4"X1.4" | RS | 276-1396 (cut) | 1 |
| 2 | C1,2,5,6 | capacitor, 0.1 uF | RS | 272-109 | 4 |
| 3 | C3 | capacitor,10uF tant | MOU | 581-10M35 | 1 |
| 4 | C4 | capacitor, 0.001 uF | RS | 272-126 | 1 |
| 5 | H1,2,3,4 | screw, 4-40 X .25" | MOU | 572-01880 | 4 |
| 6 | H1,2,3,4 | spacer, 4-40 X .5" | MOU | 534-1450C | 4 |
| 7 | H1,2,3 | split lockwasher,#4 | MOU | 572-00649 | 3 |
| 8 | H4 | solder lug, #4 | MOU | 534-7311 | 1 |
| 9 | P1-8 | flea-clip/.042 hole | MOU | 574-T42-1/100 | 8 |
| 10 | Q1 | transistor, 2N3866 | MOU | 511-2N3866 | 1 |
| 11 | R1,5,8 | resistor, 4.7 ohm | MOU | 29SJ500-4.7 | 3 |
| 12 | R2 | resistor, 33 ohm | RS | 271-007 | 1 |
| 13 | R3,6 | resistor, 680 ohm | MOU | 29SJ250-680 | 2 |
| 14 | R4 | resistor, 2.7K | MOU | 29SJ250-2.7K | 1 |
| 15 | R7 | resistor, 1 ohm | MOU | 29SJ500-1.0 | 1 |
| 16 | RFC1 | inductor, 2200 uH | MOU | 434-05-222J | 1 |
| 17 | U1 | voltage reg., 7812 | RS | 276-1771 | 1 |
| 18 | W | buss wire | RS | 278-1341 | 1 |

Table 6: small hardware parts list, comprised of tables 6A - 6E
See Table 4 for vendor codes.

Note: Mounting hardware is supplied with the following components: J1 through J6, J8, J9, R1, R2, R3, S1 through S6.

*** Table 6A = A1 mounting hardware ***

| Item | Designator | Description/Value | Vendor | Vendor Stock # | QTY |
|------|------------|---------------------|--------|----------------|-----|
| 1 | - | screw, 4-40 X.25" | MOU | 572-01880 | 4 |
| 2 | - | split lockwasher,#4 | MOU | 572-00649 | 4 |

*** Table 6B = C1 mounting hardware (see Figure 7) ***
 [] designators refer to hole locations from Table 3
 Item 3 note: 2 pieces at hole 1; 2 at hole 3; 1 at hole 4.

| Item | Designator | Description/Value | Vendor | Vendor Stock # | QTY |
|------|------------|----------------------|--------|----------------|-----|
| 1 | [1],[3] | screw, 6-32 X.4375" | DK | H157 | 2 |
| 2 | [1],[3] | rubber grommet | MOU | 522-211 | 2 |
| 3 | see note | fiber washer, #6 | MOU | 534-3201 | 5 |
| 4 | [3] | solder lug, #6 | MOU | 534-7312 | 1 |
| 5 | [1] | tooth lockwasher, #6 | MOU | 572-00675 | 1 |
| 6 | [4] | nylonscrew, 6-32X.5" | MOU | 561-J632.5 | 1 |
| 7 | [4] | hex nut, 6-32 | MOU | 572-00486 | 1 |
| 8 | [4] | split lockwasher, #6 | MOU | 572-00650 | 1 |

*** Table 6C = C2 mounting hardware (see Figure 7) ***
 [] designators refer to hole locations from Table 3
 Item 3 note: 2 pieces at hole 5; 2 at hole 7; 1 at hole 8.

| Item | Designator | Description/Value | Vendor | Vendor Stock # | QTY |
|------|------------|----------------------|--------|----------------|-----|
| 1 | [5],[7] | screw, 6-32 X.4375" | DK | H157 | 2 |
| 2 | [5],[7] | rubber grommet | MOU | 522-211 | 2 |
| 3 | see note | fiber washer, #6 | MOU | 534-3201 | 5 |
| 4 | [7] | solder lug, #6 | MOU | 534-7312 | 1 |
| 5 | [5] | tooth lockwasher, #6 | MOU | 572-00675 | 1 |
| 6 | [8] | nylonscrew, 6-32X.5" | MOU | 561-J632.5 | 1 |
| 7 | [8] | hex nut, 6-32 | MOU | 572-00486 | 1 |
| 8 | [8] | split lockwasher, #6 | MOU | 572-00650 | 1 |

*** Table 6D = grounding hardware ***

| Item | Designator | Description/Value | Vendor | Vendor Stock # | QTY |
|------|------------|--------------------|--------|----------------|-----|
| 1 | G1,G2,G3 | screw, 4-40 X.375" | MOU | 572-01881 | 3 |
| 2 | G1,G2,G3 | solder lug, #4 | MOU | 534-7311 | 3 |
| 3 | G1,G2,G3 | hex nut, 4-40 | MOU | 572-00484 | 3 |

*** Table 6E = hardware for battery holder J7 ***

| Item | Designator | Description/Value | Vendor | Vendor Stock # | QTY |
|------|------------|----------------------|--------|----------------|-----|
| 1 | - | screw, 4-40 X.375" | MOU | 572-01881 | 2 |
| 2 | - | split lockwasher, #4 | MOU | 572-00649 | 2 |
| 3 | - | hex nut, 4-40 | MOU | 572-00484 | 2 |

Table 7: wiring / component connections

Notes: I = insulated wire, approx. #22 AWG

B = bare solid (buss) wire

TP = twisted-pair (insulated)

Lengths are maximum typical required amount; in actual practice, use the shortest length possible to minimize stray coupling.

| INSIDE BOX wire # | From | To | Description |
|----------------------|---|-----------------------|-------------|
| 1 | J1 | S4A arm | 3.5" I |
| | [J1 connect directly to R5 side 1] | | |
| 2 | R5 side 2 | S3A "Terminated" | 1.5" I |
| | [J3 connect directly to T1 pin 1] | | |
| | [J4 connect directly to T2 pin 1] | | |
| 3 | J2 | S4D arm | 4" I |
| | [J2 connect directly to R6 side 1] | | |
| 4 | J3 | S3A arm | 1" B |
| 5 | J4 | S3B arm | 2" I |
| 6 | S3B "Common" | S3A "Common" | 0.5" B |
| 7 | S3A "Common" | G1 internal GND lug | 1.5" B |
| 8 | S3A "Common" | R1 CW | 4" I |
| 9 | G1 internal GND lug | T1 pin 6 | 2" I |
| 10 | G1 internal GND lug | T2 pin 6 | 2" I |
| 11 | R6 side 2 | S3B "Terminated" | 4" I |
| 12 | T1 pin 3 | S4A "Noise Reduction" | 3.5" I |
| 13 | T2 pin 3 | S4D "Noise Reduction" | 4" I |
| 14 | T1 pin 4 | S4B "Noise Reduction" | 4" I |
| 15 | T2 pin 4 | S4E "Noise Reduction" | 4" I |
| 16 | C1 rotor | S4B arm | 3" I |
| 17 | C1 stator | S4C arm | 2.5" I |
| 18 | C2 rotor | S4E arm | 3" I |
| 19 | C2 stator | S4F arm | 2" I |
| | [R7 side 2 connect directly to S5A "Phaser/Amp."] | | |
| 20 | R1 CCW | R7 side 1 | 6" I |
| 21 | R1 arm | jct. L1 through L12 | 2" I |
| 22 | R1 CW | S4B "Normal" | 2.5" I |
| 23 | S4B "Normal" | S4B "Short" | 0.5" B |

Table 7 (continued)

| wire # | From | To | Description |
|--------|---|----------------------|-------------|
| 24 | S4E "Short" | S4E "Normal" | 0.5" B |
| 25 | S4E "Short" | G3 internal GND lug | 2.5" I |
| | [C3 side 1 connect directly to S4A "Normal"] | | |
| | [C5 side 1 connect directly to S4A "Short"] | | |
| 26 | S4C "Normal" | S4C "Short" | 0.5" B |
| 27 | S4A "Short" | jct. C3side2/C5side2 | 1.5" I |
| 28 | S4A arm | S4B "Long" | 1" B |
| | [C4 side 1 connect directly to S4D "Normal"] | | |
| | [C6 side 1 connect directly to S4D "Short"] | | |
| 29 | S4F "Normal" | S4F "Short" | 0.5" B |
| 30 | S4F "Short" | jct. C4side2/C6side2 | 2.5" I |
| 31 | S2A "Line 2" | S4C arm | 2" I |
| 32 | R3 arm | G2 internal GND lug | 1.5" I |
| 33 | R3 CCW | S1B arm | 4" I |
| 34 | R3 CW | S1A arm | 2.5" I |
| 35 | S2A "Line 1" | S4F arm | 2" I |
| 36 | S1A arm | S2A "Line 2" | 4" I |
| 37 | S1B arm | S2A "Line 1" | 4" I |
| 38 | S1C arm | S1D arm | 1" I |
| 39 | S1D arm | G2 internal GND lug | 3" I |
| 40 | S2A arm | S2C "Null-b" | 0.5" B |
| 41 | S6 "Wire" | jct. L13 through L24 | 4" I |
| | [C7 side 1 connect directly to J8] | | |
| | [C7 side 2 connect directly to R4 side 1] | | |
| 42 | R4 side 2 | S6 "Loop" | 4" I |
| 43 | S6 arm | R2 arm | 3" I |
| 44 | R2 CW | S4E "Short" | 2.5" I |
| 45 | R2 CCW | T3 pin 1 | 4" I |
| | [T3 pin 3 connect directly to G2 GND lug] | | |
| 46 | S2B arm | T3 pin 4 | 2.5" I |
| 47 | S2C arm | T3 pin 6 | 2.5" I |
| 48 | S2B "Line 2" | G3 internal GND lug | 1.5" B |
| 49 | S2B "Line 1" | S2A arm | 1" I |
| 50 | S2B "Line 1" | S2B "Line 2" | 0.5" B |
| 51 | S2B "Line 2" | S2B "Null-a" | 0.5" B |
| 52 | S2C "Null-a" | S2C "Line 2" | 0.5" B |
| 53 | S2C "Line 2" | S2B "Null-b" | 1" I |
| 54 | S2B "Null-b" | R8 side 1 | 3" I |
| | [R8 side 2 connect directly to S5A "Phaser/Amp."] | | |
| 55 | S5A "Phaser/Amp." | S5C "Phaser/Unamp." | 1.5" I |
| 56 | S5A "Phaser/Unamp." | S5A "Spare/Unamp." | 0.5" B |
| 57 | S5A "Phaser/Unamp." | G3 internal GND lug | 1.5" I |
| 58 | J9 | S5A "Spare/Amp." | 4" I |
| 59 | S5A "Spare/Amp." | S5C "Spare/Unamp." | 2" I |

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Table 7 (continued)

| wire # | From | To | Description |
|--------|---|----------------------|-------------|
| 60a | S5A arm | A1-P1 | 4" TP |
| 60b | S5A "Phaser/Unamp." | A1-P2 | 4" TP |
| | [R9 side 1 connect directly to J6 (center pin)] | | |
| | [R9 side 2 connect directly to C9 side 1] | | |
| | [C9 side 2 connect directly to J6 ground lug] | | |
| 61 | S5B "Spare/Amp." | jct. R9side2/C9side1 | 2.5" I |
| 62 | S5B "Phaser/Amp." | S5B "Spare/Amp." | 1" I |
| 63 | S5B arm | A1-P3 | 4" I |
| 64a | S5C "Phaser/Amp." | A1-P5 | 4" TP |
| 64b | S5A "Phaser/Unamp." | A1-P6 | 4" TP |
| 65 | S5C "Phaser/Amp." | S5C "Spare/Amp." | 1" I |
| | [J5 connect directly to C8 side 1] | | |
| 66 | S5C arm | C8 side 2 | 2.5" I |

OUTSIDE BOX

| wire # | From | To | Description |
|--------|---|----------------------|-------------|
| 67 | J7 + terminal pin | P1 plug - center pin | 2" I |
| 68 | J7 - terminal pin | P1 plug - shield pin | 2" I |
| | [P1 connects to J6 for battery operation] | | |

Table 8: control orientation conventions

Ensure that components are mounted and wired in accordance with this table; align knob pointers to clock positions indicated. Orientations are as viewed from outside the chassis box assembly.

| Side ==== | Control ===== | Orientation Conventions ===== |
|--------------|------------------|---|
| top | C1 | CCW = minimum C = 9:00; CW = maximum C = 3:00 |
| top | C2 | CCW = minimum C = 9:00; CW = maximum C = 3:00 |
| top | R1 | CCW = maximum level (no attenuation) = 7:00 CW = minimum level (maximum attenuation) = 5:00 |
| top | R2 | CCW = maximum level (no attenuation) = 7:00 CW = minimum level (maximum attenuation) = 5:00 |
| top | R3 | CCW = maximum level/Q Line 1 (min. Line 2)= 7:00 CW = maximum level/Q Line 2 (min. Line 1)= 5:00 |
| top | S1 | [see Table 2] |
| top | S2 | Line 1 = 10:30; Line 2 = 11:30; Null-a = 12:30; Null-b = 1:30 |
| left | S3 | common = left; float = center; terminated = right |
| top | S4 | long = 10:30; normal = 11:30; short = 12:30; noise-reduction = 1:30 |
| top | S5 | phaser + amp. = 10:30; phaser = 11:30; spare antenna = 12:30; spare antenna + amp. = 1:30 |
| top | S6 | wire = up; loop = down |