

June 15, 1996 - Volume 33 - Number 32 - Edition 1091 - ISSN 899 - 9733

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REJOIN: Wayne Benkinney of Burton MI. **RENEWALS:** T Krecic of Laguna Nigel CA, Chuck Boehnke of Keaau HI, Raymond Bauernhuber of Rosedale NY, Jack Woods of Waldport OR, George Kesteven of Calgary Canada, Michael Stonebridge of Fox Creek Canada. Welcome back Wayne the ole DX bug has bit again and thank you all very much for the support.....

DX WORLDWIDE EAST EDITOR: The IRCA needs an editor for this position. For details contact: Phil Bytheway 9705 Mary NW, Seattle WA 98117.

CONVENTION AUCTION: You still have time to send auction items for the 1996 IRCA convention to: Lee Freshwater 414 SE 3rd St, Ocala FL 34471.

GCD: A note from Art Peterson informs me that version 3.11 is now available for his fine Great Circle Distance and Bearing computer program. If you do not have Art's program and want information send him a SASE: Art Peterson 851 31st Street, Richmond CA 94804.....

KFDI

COUNTRY

1070 AM 101.3 FM

DX TEST BULLETIN

**** DX TESTS ARRANGED BY IRCA & NRC****

HCJB-690, CASILLA 17-17-691, QUITO, ECUADOR WILL BE TESTING ON THE FOLLOWING DATES AND TIMES:

SUNDAY, JULY 7, 1996 BETWEEN 4:00 & 4:15 AM EDT.

SUNDAY, AUGUST 4, 1996 BETWEEN 2:00 & 2:15 AM EDT.

SUNDAY, SEPTEMBER 1, 1996 BETWEEN 1:15 & 1:30 AM EDT.

THE TEST WILL INCLUDE MORSE CODE ID'S AND "OTHER UNIQUE ITEMS". CORRECT RECEPTION REPORTS WILL BE VERIFIED WITH A SPECIAL QSL CARD. ACCORDING TO THE STATION, IF YOU HEAR CODE, YOU MUST REPORT EXACTLY WHEN YOU HEARD IT AND WHAT CHARACTERS YOU HEARD. TAPE RECORDINGS ARE WELCOME, BUT TAPES CANNOT BE RETURNED. PLEASE INCLUDE ONE INTERNATIONAL REPLY COUPON OR FIRST CLASS POSTAGE IN U.S. OR CANADIAN STAMPS FOR A REPLY TO YOUR RECEPTION REPORTS, WHICH MAY BE SENT TO: MR. RICH MCVICAR (HC1JMN) - FREQUENCY MANAGER, ATTN: 690 DX TEST, c/o ENGLISH LANGUAGE SERVICE, HCJB. (ARRANGED BY MR. RICH MCVICAR OF HCJB FOR THE BENEFIT OF ALL DXERS)

Geomagnetic Indices

Tabulated from WWV at -0518 GMT nightly

Geomagnetic Summary May 10 1996 through May 22 1996

GEO - Geomagnetic activity

maf - major flare

mas - major storm

mis - minor storm

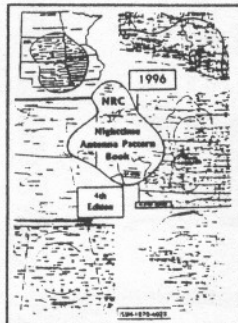
pca - polar cap absorption

SA - Solar Activity

spe - satellite proton event

ss - severe storm

Date	FLUX	A	K	SA	GEO	OTHER
5/30	67	9	2	very low	quiet-unsettled	-
5/31	68	10	2	very low	quiet	-
6/ 1	z	z	z	z	z	-
2	68	3	1	very low	quiet	-
3	69	4	2	very low	quiet	-
4	69	4	1	very low	quiet	-
5	71	7	2	very low	quiet-unsettled	-
6	72	23	1	very low	quiet-mis	-
7	73	4	1	very low	quiet	-
8	70	7	2	very low	quiet-unsettled	-
9	70	5	2	very low	quiet	-
10	69	7	0	very low	quiet-unsettled	-
6/11	68	5	1	very low	quiet	-



NRC Nighttime Antenna Pattern Book, 4th Edition

Get it now; it's the second half of the NRC's "Dynamic Duo"! Teamed with the *NRC AM Log*, the NPB provides DX'ers with up-to-date maps of all (except Class IV) stations with nighttime operations. Convenient to use: 3-hole punched for standard binders. Only \$16.95 to U. S. and Canadian members of IRCA; \$22.95 to U. S. and Canadian non-IRCA members. Airmail to IRCA members: to Latin America, \$21.00; Europe, \$24.00; rest of the world: \$28.00.

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

BROADCASTING INFORMATION



Editor:
Robert Wien
1309 Dentwood Drive
San Jose, CA 95118

DEADLINES: 2nd & 4th Saturdays.

Compiled: 05/17/96

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

NEW STATION GRANTS:

NJ. Hackettstown 1510 khz. 900/230 DA-N

CONSTRUCTION PERMIT ACTIVITY:

AZ. Tolleson KXEG-1010 inc. to 7500-D, DA
CA. McFarland KJAZ-1590 cancelled CP, call letters deleted
KY. Bowling Green WLBK-1410 cancelled license, deleted calls
TX. Houston KCOH-1430 inc. to 330-N, DA-2
UT. Salt Lake City KDYL-1280 inc. to 10000/600 DA-2

FACILITY & PARAMETER APPLICATIONS:

CA. Rancho Cordova KSTE-650 inc. to 25000/10000 DA-2
MD. Chestertown WCTR-1350 inc. to 1000/277 ND-D
MN. Ortonville KDIO-1350 670/380 ND
NH. Peterborough WRPT-1050 move to 650 khz., 250-D, DA
PR. Hatillo WMSW-1120 dec. to 2600-N, DA
WI. Neenah WNAM-1280 inc. to 20000-D

FACILITY & PARAMETER GRANTS:

OR. Bend KBND-1110 dec. to 13000-D

CALL LETTER CHANGES:

CA. Oceanside → KKLQ-1320 becomes KKSM
CT. Middletown WCNX-1150 requests WMRD
NC. Blowing Rock → WVIO-1510 becomes WXIT
Came Lejeune → WWOE-1580 becomes WCTJ (this confirms info
in an earlier column-ed)
TX. Port Lavaca → KGUL-1560 becomes KNRV
VA. Portsmouth → WSVY-1350 becomes WGPL
WV. Wheeling → WKWK-1400 becomes WBED

FORMAT CHANGES:

AL. Montgomery WHHY-1440 was CHR//FM, now ABC oldies
Tuskegee WBIL-580 was urban//FM, now black gospel
AK. Fairbanks KCBF-820 was oldies, now talk (local, WWI,
Stan Major)
FL. Jacksonville WZAZ-1400 was R&B oldies, to be blk gospel (June)
Miami WIOD-610 was nx, talk, adds Sports By-line
Royal Palm Beach WPSF-1190 was sports, adds Fan-sports
HI. Honolulu KISA-1540 was Filipino, rptd. silent
ID. Rupert KBBK-970 was nx, talk, adds Sports By-line
IL. Rochelle WRHL-1060 was AC//FM, now farm, talk
LA. Baton Rouge WIBR-1300 was sports, adds Fan-sports
Hammond WFPR-1400 was country//FM, now nx, talk

FORMAT CHANGES:(CONT.):

ME. Bangor	WZON-620	was sports, adds Fan-sports
MA. Leominster	WCMX-1000	was silent, now religion
MN. Watertown	KWCM-1600	is new, to be AS
MT. Wolf Point	KVCK-1450	was JSN country//FM, now JSN oldies//FN
NV. Sun Valley	KIRS-1590	was silent, now nx. talk
NM. Albuquerque	KDEF-1150	was talk, sports, adds Fan-sports
NY. New York City	WFAN-660	was oldies/talks/sports, adds Fan-sports
OR. Lakeview	KQIK-1230	was JSN C&W//FM, now JSN oldies//FM (Good time oldies 1-5 PM)
SC. Charleston	WXTC-1390	was sports, now country//WPUB
TX. Conroe	KJOJ-880	Xtian C&W//KJOJ-FM, now religion
Nacogdoches	KEEE-1230	was urban AC, now KSFA, nx, talk
	KSFA-860	was nx, talk, now KEEE, urban, gospel (KEEE & KSFA swap frequencies)
VA. Portsmouth	WPCE-1400	was black gospel, now religion
WA. Vancouver	KPMS-1480	was ABC urban AC, adds ABC Tom Joyner
WI. Hayward	WHGS-910	was oldies//FM, now 1 on 1 sports
WY. Rawlins	KRAL-1240	was JSN soft AC, now JSN oldies
MB. Winnipeg	CIFX-1290	was talk, adds 1 on 1 sports

Shawn Axelrod of Winnipeg, MB. sends the following info:

The following stations have applied to move to dark if 94.1 FM is granted in Lake Elliot, ON.:

ON. Blind River	CJNR-730
ON. Espanola	CKNS-930
ON. Elliot Lake	CKNR-1340

Thanks, Shawn! Memoria Day is just around the corner, DX is slowing down. 73's.

BROADCASTING INFORMATION COLUMN #2 (COMPILED: 5/18/96)

CONSTRUCTION PERMIT ACTIVITY:

FL. Fort Myers WCRM-1350 inc. to 2000-D

FACILITY & PARAMETER GRANTS:

KY. Louisville	WLOU-1350	dec. to 2200-D, DA-N
PR. San Juan	WKAQ-580	inc. to 10000 days, nights, DA

FORMAT CHANGES:

DC. Morningside	WPGC-1580	was urban, now urban//FM
GA. Covington	WGUS-1430	was AC, now country, talk
MD. Annapolis	WANN-1190	was country, adds ABC Real C&W
MS. Aberdeen	WWZQ-1240	was JSN soft AC//FM, now JSN oldies//FM
Southaven	WAVN-1240	was s. gospel, now blues
NY. Huntington	WGSM-740	was country, now country//FM
NC. Asheville	WVNC-570	was country, now PRN nx, talk
WI. Fort Atkinson	WFAW-740	was oldies/talk/sports, adds The Fan sports (this corrects WFAN-660 listing in last column-ed).

A double column! 73's.

BROADCASTING INFORMATION



Editor:
Robert Wien
1309 Dentwood Drive
San Jose, CA 95118

DEADLINES: 2nd & 4th Saturdays.

Compiled: 06/03/96

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

CONSTRUCTION PERMIT ACTIVITY:

CA. Vallejo → KXBT-1630 moves here ex-1640
VA. Richmond → WRVH-910 dec. to 1500-N, DA

FACILITY & PARAMETER APPLICATIONS:

AK. Nome KICY-850 inc. to 50000-D, DA-N
GA. Atlanta WQXI-790 inc. to 28000-D
KY. Shepherdsville WBUL-1470 dec. to 760-D
MD. Chestertown WCTR-1530 inc. to 1000-D, 277-CH
OR. McMinnville KLYC-1260 inc. to 1000/850, DA-N
RI. Wickford WKFD-1370 dec. to 255-D

CALL LETTER CHANGES:

AZ. Sierra Vista → KTAN-1420 becomes KLTW
CA. Los Angeles → KGFJ-1230 becomes KYPA
Pasadena → KPCC-1240 becomes KXPA
Pomona → KTSJ-1220 becomes KWPA
West Covina → KGRB-900 becomes KRRA "Radio Ranchito"
CT. Middletown → WCNX-1150 becomes WMRD
TN. Colonial Heights WZMC-870 becomes WPWT →

FORMAT CHANGES:

AL. Lineville → WZZX-780 was talk & C&W//FM, drops talk
Tucaloosa → WTNW-1230 was nx, talk, adds Major talk
AZ. Cottonwood → KYBC-1600 was KVRD, talk, now WW1 stds.
Prescott → KNOT-1450 was C&W//FM, talk, now ABC stds, talk
Sierra Vista → KLTW-1420 was KTAN, stds., now MGS contemp. Xtian
CA. Lompoc → KCLL-960 was oldies, rptd. silent
Pasadena → KXPA-1240 was KPCC, variety, rptd. silent
GA. Milledgeville → WMVG-1450 was nx, talk, sports, now JSN cont. Xtian
West Point → WPLV-1310 was black gospel, now urban
IL. Aurora → WKKD-1580 was country, now Tejano (June)
Freeport → WFRL-1570 was talk, now talk//WROK (sim. pending sale)
IA. Oelwein → KOEL-950 was AC, now farm, talk
KY. Louisville → WHKW-1080 was country//FM, now Moby, ABC Real C&W
Pineville → WANO-1230 was silent, now JSN soft AC
MD. Baltimore → WWLG-1360 was stds., sports, adds 1 on 1 sports
Havre de Grace → WASA-1330 was stds., sports, adds 1 on 1 sports
Oakland → WMSG-1050 was AS, adds WW1 stds.
MA. Framingham → WKOX-1200 nx, talk, adds Major talk
Taunton → WPEP-1570 was talk, adds Major talk
MN. Watertown → KWOM-1600 is new, ABC stds.
MO. Columbia → KTCR-1580 was all Sinatra, now AS
Thayer → KALM-1290 was country, gospel, now gospel, United
talk (new name for PRN network)
NY. Kingston → WKNY-1490 was AC, adds JSN soft AC

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FORMAT CHANGES (CONT.):

NC. Bryson City ✓ WBNH-1590 was country, adds talk
 Wilmington ✓ WAHH-1340 was WBMS, nx, now Children's CSN net
OH. Canton ✓ WHBC-1480 was soft AC, adds Fan sports
OR. Coquille ✓ KWRO-630 was talk, adds Major talk
 Corvallis ✓ KLOO-1340 was talk, nx, sports, adds Sports By-line
PA. Braddock ✓ WXCJ-1550 was black full service, drops nx
RI. Newport ✓ WADK-1540 was talk, AC, now talk, smooth jazz
SC. Barnwell ✓ WBAW-740 was AC, talk//FM, now nx, talk//FM
 Camden ✓ WAME-1130 was silent, adds ABC stds.
TX. Dumas ✓ KDDD-800 was country, SS, drops country
 Hondo ✓ KCWM-1460 was country, adds EMN country
 Waco ✓ KWTX-1230 was talk, adds Major talk
WA. Asotin ✓ KCLK-1430 was country//FM, now WWI AS
 Quincy ✓ KWNC-1370 was country, now United talk
WY. Laramie ✓ KOWB-1290 was AC, talk, now nx, talk

3 weeks till the beginning of summer, it's 101 degrees outside right now and it feels like summer already! 73's.

BROADCASTING INFORMATION



Editor:
Robert Wien
1309 Dentwood Drive
San Jose, CA 95118

DEADLINES: 2nd & 4th Saturdays.

Compiled: 06/12/96

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

NEW STATION APPLICATIONS:

AL. Fairhope 1160 khz. (facil. not available)

NEW STATION GRANTS:

NV. Elko 1340 khz. 1000/1000

CONSTRUCTION PERMIT ACTIVITY:

TX. Jacksonville ✓ KEBE-1400 inc. to 1000/1000

FACILITY & PARAMETER APPLICATIONS:

FL. Punta Gorda WCCF-1580 inc. to 1250 w.
MD. Funkstown WPVG-1160 inc. to 1000-N

FACILITY & PARAMETER GRANTS:

CT. Ansonia WADS-690 inc. to 3500/200 DA-2
GA. Augusta WBBK-1260 change to ND-D
RI. Wickford WKFD-1370 dec. to 255-D

CALL LETTER CHANGES:

AZ. Cottonwood KVRD-1600 becomes KYBC ✓
AR. Nth Little Rock KPAL-1380 becomes KRNN ✓
NC. Wilmington WBMS-1340 becomes WAHH "Aahs" ✓
TN. Jackson WQCR-1460 becomes WJAK ✓
WA. Olympia KCPL-920 becomes KGHO ✓

FORMAT CHANGES:

AL. Hazel Green WEXR-1140 was s. gospel, adds Reach s. gospel
AR. Nth Little Rock KRNN-1380 was silent, now nx, talk//KARN
CA. Los Angeles KLAC-570 was AS, adds Imus
Needles KTOX-1340 was talk, now talk//KRLV (Las Vegas)
San Bernardino KMEN-1290 was urban oldies, adds Imus
CT. Windsor WKND-1480 was urban, adds talk, ABC joyner, some
ABC Urban gold format)
FL. Kissimmee WOTS-1220 was talk, travel info, now talk, 70's oldies
Tampa WDAE-1250 was AC//FM, now hot AC//FM
IL. Anna WRAJ-1440 was talk, rptd. silent
Chicago WMVP-1000 was sports, now talk//FM, sports
ME. Monticello WREM-710 was rock, rptd. silent
Ocean City WETT-1590 was oldies, talk, now all talk
MI. Benton Harbor WHFB-1060 was AS, now WWL 70's oldies
Lansing WITL-1010 was country//FM, rptd. silent
Portage WNNW-1560 was country//FM, now ABC urban AC
St. John's WWSJ-1580 was country, tejano, now talk, tejano

FORMAT CHANGES (CONT.):

MN. Brainerd KLIZ-1380 was sports, now nx, talk//KVER
NY. Syracuse WNSS-1260 was CHR//FM, now AP nx
NC. Statesville WHYM-550 was religion, now JSN stds. (new
MOYL format)
PA. Pittsburgh WAMO-860 was R&B oldies, now urban AC, talk
(sim. FM in morning drive)
TN. Waverly WPHC-1060 was country//FM, now religion
TX. Austin KFON-1490 was nx, talk, now 1 on 1 sports
Brady KNEL-1490 was country, now ABC AC
VA. Norfolk WTAR-790 was talk, adds Imus
ON. Pembroke CHVM-1350 was country, moves to 96.7 FM

Shawn Axelrod of Winnipeg, MB. passes on the following info:

AB. High River CHRB-1280 asks to move to 1140 khz., 50000/
46000
Lethbridge CRKX-1090 asks to move to FM
St. Paul CHLW-1310 asks to drop relay of CJCM Grande
Centre, AB, pick up local programming
and programming from CKDQ-910 Drumheller
BC. Cranbrook CKEK-570 asks to drop relays at CFEK-1240 and
CJEK-1400
Fernie CFEK-1240 asks for 1240 khz. w/1000/1000, with
relay of CJEK-1400 at 1440
Fort Nelson CFNL-590 asks to move to FM

Ye editor passes on the following tip:

CA. Carmel Valley KIEZ-540 back on after being silent, sim.
KMBY-104.9 FM Monterey, still KIEZ
per call to station

4 weeks till my trip to Europe, but I'm getting over the flu right
now, hope I'm OK in time! 9 days till the summer solstice, and
DX is the pits... 73's.



DX Worldwide - West

PAT MARTIN PO BOX 843 SEASIDE, OR 97138

Time: UTC

Phone (503) 861-3185

DEADLINES: 7/2, 7/30

For the time being I won't be listing my E_MAIL address and I haven't been getting some of the reports. Until I get this problem worked out, please send your tips by regular mail to be on the safe side. Tonight (6/5), I checked to catch any last minute tips and the lines were a mess. The screen went wild. It was impossible. I did manage to get some of them. If your report is not included, please send it again by regular mail, and I will include it next time. Sorry about the problems. I guess when you live in such a out of the way area, the phone lines are not the best. A few tips this time around. So away we go.

PAN-AMERICAN DX ROUNDUP

1220 MEXICO, Mexico City-XEB "La Grande B de Mexico" 1200 5/28 very good with full ID and into nx. (CB-HI)

TRANS-PACIFIC DX ROUNDUP

522 tAUSTRALIA, Sydney?-2PB possibly the one w/ non-stop nx and features at 1220 5/26, man and woman ancrs, with mentions of Australia, Aussie accent. Barely above the noise. This is a new stations reported by DXers in Australia and New Zealand of late. Tent. taped report sent to 2PB-Sydney. (PM-OR)

738 TAHITI, RFO 1130 5/28 with two people in FF. Unusually good modulation level and signal. (CB-HI)

1098 MARSHALL ISLANDS, 1144 5/28 Fair w/local type island mx and anmts in EE/Pidgin (CB-HI)

1475 UNID, Unk location, Malaysia? 1210 5/28 Weak w/1KHZ het. Woman talking in SE Asian lang. ????(Not on 1476) (CB-HI)
(Sounds like Malaysia.PM)

1620 AUSTRALIA, Sydney-2AM good with Greek/Turkish at 1140 5/26 Woman ancr at 1202. (PM-OR)

tAUSTRALIA, Sydney-2AM possibly the one in EE w/mx and talk 5/28 1158-1204, v/ weak. Brief theme mx on the hour. Taped tentative report sent, on tip from Pat Martin. (LBG-MT) (Larry, you should get a reply, as the verie signer is a DXer! PM)

VERIFICATIONS

783 HONG KONG, Radio-Television Hong Kong. After 1 1/2 years of waiting for my tentative taped report, I received a beautiful Harbor scene in color, giving verie statement and frequency on back, no v/s. Running 20KW. Country 78 veried. I am really pleased with this.

THANKS TO THESE REPORTERS

CB-HI CHUCK BOEHNKE, POST OFFICE BOX 488, KEAAU HI 96749-0488
Icom R-71A, 90 foot longwire

LBG-MT LARRY B. GODWIN, 2390 CLYDES DALE LANE, MISSOULA MT 59801
HQ-150, Sanserino air-core loop, KIWA Loop

PM-OR YOUR EDITOR
Drake R8, Terminated "U" antenna, Ground system

8

AM broadcast stations operating on 1720 through 4000 kHz

Tropical Band DX Roundup

All Times are UTC

Pat Martin
P.O. Box 843
Seaside, Oregon 97138
(503) 861-3185

Deadline: Tuesdays

We have a nice Tropical Band report from Chuck Boehnke this time around.

- 2310 AUSTRALIA, Alice Springs, NT VL8A 0839, talk on Australian imports w/good level on 5/30 (CB-HI)
- 3210 COSTA RICA, Radio Exterior Espana 0830 5/30 good w/general commentary about Central America and South America events (CB-HI)
- 3232 INDONESIA, Bukittinggi-RRI 1235 5/28 loud w/Hindi mx (CB-HI)
- 3260 PAUPA NEW GUINEA, Radio Madang at 1100 5/23 w/News cast in EE and was quite good (CB-HI)
- 3280 CHINA, Shanghai, Voice of Pujiang strong w/inst. version of "Over the Rainbow" and into man and woman talking. Had a loud growl on audio. xmtr problem? on 5/28 (CB-HI) (Time?PM)
- 3325 PAUPA NEW GUINEA, Radio North Solomons, Kieta 0844 5/30. C&W pgm "I've Wrong Before" by Deborah Allen among others. Ancr to be having a good time w/the mx. Good level modulation. I kind of enjoyed this one. (CB-HI)
- 3935 NEW ZEALAND, Levin Radio Reading Service 0825 w/story about Parliament actions. Strong but QRN. This on 5/30 (CB-HI)

THANKS TO THIS REPORTER

CB-HI CHUCK BOEHNKE-POST OFFICE BOX 488-KEAAU HI 96749-0488
Icom R-71A, 90 Foot wire running North to South w/FRT7700
Antenna tuner

RTHK

Picture: Hong Kong harbour
from the west showing Radio
Television Hong Kong's FM
stereo main transmitting mast.

RADIO TELEVISION HONG KONG

Radio 1	92.6-94.4 MHz
Radio 2	94.8-96.9 MHz
Radio 3	567 KHz
Radio 4	97.6-98.9 MHz
Radio 5	783 KHz
Radio 6	675 KHz
Radio 7	621 KHz

Patrick Martin

Radio Television Hong Kong confirms your direct reception report on our programme broadcast on 783 MHz/KHz and we forward the official QSL card with compliments.

DX WORLDWIDE EAST

Report from: Mark Connelly - WA1ION

[Connelly*Y-MA] = West Yarmouth, Cape Cod, MA <parents' house>
(GC = 70.22 W / 41.68 N)

Receiver used: Drake R8A

Antenna systems: 25 m east sloper, RTL-2 remotely-tuned loop; phased via DCP-2 Dual Controller - Phaser

[Connelly*MA] = various sites, northern suburbs of Boston

Receiver used: car radio & antenna

e-mail = MarkWA1ION@aol.com

DATES: 1996 (UTC/GMT)

TIMES: UTC/GMT

* TRANS-ATLANTIC DX *

- 836 AZORES, Pico da Barossa, JUN 2 0428 - PP-sounding talk; poor to fair w/ het against 837 Spain / Canaries. [Connelly*Y-MA]
891 ALGERIA, Algiers, JUN 2 0221 - AA female vocal; audio light, but carrier strong. [Connelly*Y-MA]
1521 SAUDI ARABIA / SPAIN, JUN 2 0308 - AA talk mixed w/ apparent SS talk; only poor to fair w/ lots of static and slop. [Connelly*Y-MA]
1530 VATICAN, Vatican R., JUN 2 0315 - Vatican interval signal, then Slavic-sounding talk by woman; good, atop VOA Sao Tome & WSAI. [Connelly*Y-MA]
1530 SAO TOME & PRINCIPE, VOA, Pinheira, JUN 2 0455 - PP talk // 9480 w/ discussion of environment and economy, then music was played; LOUD - Atop WSAI on sloper, behind it a bit on loop. [Connelly*Y-MA]
1575 SPAIN, SER synchros, JUN 2 0350 - SS talk; fair o/ probable Italy, in CBJ slop. [Connelly*Y-MA]
1584 SPAIN, SER synchros, JUN 2 0350 - SS talk in CBJ slop. [Connelly*Y-MA]
1698 SPAIN, La Coruna, JUN 2 0335 - SS man read list of ship callsigns starting with EE (Echo Echo) and EH (Echo Hotel). La Coruna mentioned. Good signal on upper sideband. [Connelly*Y-MA]

* PAN-AMERICAN DX *

- 526 BAHAMAS, ZLS, Stella Maris, JUN 2 0636 - fair to good w/ ZLS Morse code ID. [Connelly*Y-MA]
532 TURKS AND CAICOS, RVC, JUN 2 0231 - noted here (rather than recently-reported 535); excellent w/ female SS religious talk. [Connelly*Y-MA]
535 GRENADA, GBC, St. George's, JUN 2 0232 - soca music; poor to fair in bad RVC-532 slop. [Connelly*Y-MA]
555 ST. KITTS & NEVIS, ZIZ, Basseterre, JUN 2 0230 - soul-reggae male vocal, Carib-EE male DJ talk; to good peaks o/ WGAN slop. [Connelly*Y-MA]
640 GUADELOUPE, RFO, Pointe a Pitre, JUN 2 0635 - FF talk mentioning Quebec; o/ others. [Connelly*Y-MA]
650 COLOMBIA, RCN Antena Dos, HJKH, Bogota, JUN 2 0240 - uptempo brassy music w/ SS male vocal; to good peak. [Connelly*Y-MA]
690 ANGUILLA, Caribbean Beacon, The Valley, JUN 2 0243 - explanation of Bible verses; atop SS vocal station and easily audible through CBF's jazz. [Connelly*Y-MA]
705 ST. VINCENT & THE GRENADINES, Kingstown, JUN 2 0245 - rhythmic soca music; poor - bass was getting through better than the rest of it. [Connelly*Y-MA]
720 VENEZUELA, YVQE, Porlamar, JUN 2 0247 - Oriente mention, then fast excited SS talk about Venezuelan sports; mixed w/ CHTN. [Connelly*Y-MA]

- 730 TRINIDAD & TOBAGO (t), JUN 2 0250 - Carib-EE shouting, mixed w/ unID SS; through phased CKAC. [Connelly*Y-MA]
- 750 VENEZUELA, YVKS, Caracas, MAY 31 0115 - loud / dominant w/ ID "RCR, La Red Nacional de Noticias". [Connelly*MA]
- 760 VENEZUELA, YVQQ, Puerto la Cruz, MAY 31 0059 - Doble Q ID's, news-machine fanfare, SS news; good. Other stuff under included accented EE (probably Guyana) & bits of PP (likely Fortaleza, Brazil). Heard on car radio at shore in Gloucester area. [Connelly*MA]
- 860 BRAZIL, ZYJ459, R. CBN, Rio de Janeiro, JUN 2 0225 - the best of the Brazilians this evening: good w/ PP talk, local commercials; well atop 2 SS stations w/ CJBC in a deep fade. [Connelly*Y-MA]
- 880 VENEZUELA, YVYM, Puerto Ordaz, JUN 2 0530 - dance / disco music, "Onda Mundial" ID, then C&W-influenced SS vocal; good on peaks through nulled WCBS. [Connelly*Y-MA]
- 895 ST. KITTS & NEVIS, VON, Charlestown, JUN 2 0145 - female vocal w/ reggae beat; excellent. Interestingly, Montserrat - 885 was not noted ... off ? [Connelly*Y-MA]
- 1000 COLOMBIA, RCN, HJAQ, Cartagena, JUN 2 0215 - SS mention of election in Santa Marta, then RCN ID; good, o/ WMVP/CKBW. [Connelly*Y-MA]
- 1020 TURKS & CAICOS, Caribbean Christian Radio, JUN 2 0213 - preacher talking about how the Jamaican government denied him air time on Jamaican radio stations; loud, way atop KDKA baseball game. [Connelly*Y-MA]
- 1040 BRAZIL, ZYK537, R. Capital, Sao Paulo, JUN 2 0520 - political-sounding PP talk; mixed w/ unID SS talker; over faded WYFX and phased WHO. [Connelly*Y-MA]
- 1130 BRAZIL, ZYJ460, R. Nacional, Rio de Janeiro, JUN 2 0508 - with WBBR off for a few minutes (a "lucky" technical problem DX-wise !), man & woman w/ PP talk / Rio mentions was atop one or more SS stations and bits of EE (probably KWKH). Although other Brazilians (such as Belem) are listed on 1130, all the other ZY's heard tonight were from the Rio / Sao Paulo region (where it's late autumn now), so this - with its high power - is most likely. WBBR threw a hum-modulated carrier on and off a few times before getting back on for good. [Connelly*Y-MA]
- 1732 unID, JUN 2 0338 - repeating CW sequence "9W183" and long dash; fair. [Connelly*Y-MA]

TAKE TIME TO READ THIS !!

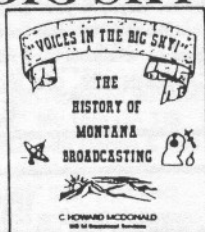
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IRCA CONTESTS

Nancy Johnson
979 Neptune Blvd.
Billings, MT 59105-2129

 **PRODIGY**
MPNN49B

Contest standings as of May 31, 1996:

DOMESTIC CONTEST

Name	Points
1 Carl DeWhitt	1,917
2 David Yocis	1,521
3 Stan Weisbeck	1,480
4 Lee Freshwater	1,236
5 Dan Sys	1,196
6 Nigel Pimblett	1,078
7 John Tudenham	1,030
8 Ted Wendland	656
9 John C. Johnson	225
10 Dale Park	142
11 Mike Sanburn	73

FOREIGN CONTEST

Name	Points
1 David Yocis	49
2 Larry Godwin	37
3 Dale Park	29
4 Nigel Pimblett	28
5 John C. Johnson	6

The contests ended for the season on May 31. Next month we will have the final standings.

IRCA Reprints

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

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IRCA Foreign Logs

The IRCA has published nine volumes of the IRCA Foreign log. Each volume contains the several hundred actual tips that were reported to the DXWW sections during an entire year, compiled and retyped in a book format. In addition, special features include: articles on foreign DXing (volumes 6, 7 and 8), utility lists (volumes 7 and 8), shortwave parallels (volume 8) and BCB propagation (volumes 6, 7 and 8). The IRCA Bookstore still has volumes 3, 4, 6, 7 and 8 of the IRCA Foreign Log available for \$2.50 each (overseas airmail add \$2.50/book).

Order from the IRCA Bookstore, by sending the correct amount (in US funds) to:

IRCA Bookstore, 9705 Mary N.W., Seattle, WA 98117-2334. Thank you!

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WESTERN DX ROUNDUP



Nancy Johnson
979 Neptune Boulevard
Billings, MT 59105-2129



Electronic Mail: Internet: WDXR@aol.com

America On Line: WDXR

Compuserve: 74444,3075

Prodigy: MPNN49B

WDXR DEADLINES: June 29, July 27, Aug. 15, Sept. 7. Please use Eastern Time.

REPORTERS FOR THIS ISSUE:

- (FA) Frank Aden-4096 Marcia Place-Boise, ID 83704
Modified FRG-7, modified Radio Shack TRF, Sony SRF-42 AM stereo Walkman,
45' N-S longwire, 180' L-longwire, 4' box loop
- (LBG) Larry Godwin-2390 Clydes Dale Lane-Missoula, MT 59801 lbg@selway.umt.edu
Hammarlund HQ-150, Sanserino air-core box loop & KIWA loop
- (GJ) Gary Jackson-7735 Center Parkway-Sacramento, CA 95823
FRG 8800, KIWA loop
- (PM) Patrick Martin-P.O. Box 843-Seaside, OR 97138-0843
Drake RB, 900' NNW Beverage, 1500' E Beverage, terminated 200' SW wire
- (5P) Dale Park-P. O. Box 22778-Honolulu, HI 96823
ATS-803A, Selec-A-Tenna
- (MS) Mike Sanburn-P.O. Box 1256-Bellflower, CA 90707
GE Superadio II, Pioneer SX203, AIWA H5-J5415. GM car radio
- (DS) Dan Sys-27423-32nd Avenue-Aldergrove, BC V4W 3J3
GE Superadio II
- (RW) Robert Wien-1309 Dentwood Dr.-San Jose, CA 95118
GE Superadio II, GE long-range portable, Select-Antenna

OF SPECIAL INTEREST

- 1260 KNNS CA, San Fernando 5/13 0853 definitely logged finally, ex-KGIL, with ID "???" AM is K-News..." weather for L.A. area, poor in KOIT null. (RW-CA)
- 1400 KKDD NV, Las Vegas 5/20 0338 officially logged, ex-1410, with Radio Ahs //KPLS-830. Loud on top of frequency, ID on hour at recheck. (RW-CA)
- 1480 KNTB WA, Lakewood (ex-silent) s/on weak under KRXR 5/25 and 5/26 at 0900. OC first, no anthem. Then at 0900 5/30 abruptly began Spanish language newscast "Radio Noticias." and at 0901 gave IDs in English for KNTB Lakewood-Tacoma and KBRO Bremerton. Maybe no longer religious format. (LBG-MT)
- 530 *WMNQ* CA, Los Altos 5/4 0230 fair on top of jumble with repeated test message mentioning "operated by the City of Los Altos." My 15th CA TIS, (PM-OR)
- 610 KZSS NM, Albuquerque 5/6 0800 strong in KFRC null with Hootie & The Blowfish song, ID "KZRR, KZSS Albuquerque." Unneeded. (RW-CA)
- 700 KBYR AK, 5/4 0330 fair in jumble with talk, "Radio 700" IDs. (PM-OR)
KMJY WA, Newport 5/17 0900 very strong at s/on (no anthem), followed by CNN News. Man said it was "Hot Country Hits, KMJY." (LBG-MT)
- 730 KBSU ID, Boise 5/17 0900 ended Spanish language program, then gave IDs in English for KBSU & several CA stations. Very strong signal. (LBG-MT)
- 850 KHHO WA, Tacoma 5/4 2300 strong in KOA null. Sports ByLine USA program ended, then ad for North Beach Restaurant in San Francisco, and jingle ID. (LBG-MT)
- 930 KROE WY, Sheridan 5/30 2256 strong with local ads and ID jingle "Get the best on KROE," in KSEI null. Local KLCY momentarily off. (LBG-MT)
- 940 CJIB BC, Vernon 5/18 had music across the hour, ID at 2300:45, then news. (LBG)

- 990 KATD CA, Pittsburg alone at 0800 5/19. Man said "Serving 22 northern California counties with continuous hits, AM stereo 990, KATD, Pittsburg-Concord-Sunnyvale." (LBG-MT)
- KRKS CO, Denver 5/27 0800 weak with call ID; KATD nulled. (LBG-MT)
- XECL BCN, Mexicali noted apparently now on 24 hours NSP, was AN every day 5/6-5/12. (RW-CA)
- 1040 KEXF QR, Tigard atop CKST 5/7 0800. Announcer said "K-Love Radio, today's Christian music throughout Oregon, 107.1... 102.5 Portland... and 1040 stereo KEZF. (LBG-MT)
- 1100 (KFAX) CA, San Francisco 5/13 0926 totally off, frequency dead except for KLOK-1170 harmonic. (RW-CA)
- 1120 KANN UT, Roy 4/29 0455 weak signal in KPNW null with Christian music and ID "KANN... we're S.O.S." New. (DS-BC)
- 1150 KBAI CA, Morro Bay 4/29 0558 Les Paul-type music, ID "...on the Central Coast, KBAI 11-50, Morro Bay - San Luis Obispo," ABC-E news, back to standards at 0603. Poor, het from 1152. (5P-HI)
- 1160 KSL UT, Salt Lake City 4/26 Westwood One's "First Light" in progress, 0729 ad and promo for "News 4 Utah" TV, ID "?", into morning show with man & woman. Fair to poor. (5P-HI)
- 1200 CKXM BC, Victoria 4/26 0744 tuned in at the right time to hear man say "12 hundred CKXM Victoria" into C&W song. Ex-CKDA. Poor, het from 1197, no sign of WOAI. (5P-HI)
- 1220 CJOC AB, Lethbridge 5/6 0745 over/under then over KDFC with sports report, ID. Don't hear this too often anymore especially blowing away a local station here! (RW-CA)
- 1240 KPPC CA, Pasadena 4/21 1420 noted at good level above KSON & KKLA with services from Pasadena Presbyterian church. Choir singing "He's Never Failed Me Yet." Gave number to call for church newsletter 818-793-2191. ID "This is AM 1240 KPPC Pasadena." Open carrier for 10 minutes then gone at 1458. Has not changed to Y-P-A format and hopefully won't. (MS-CA)
- 1250 ?KQYN? CA, 29 Palms 5/6 0840 tentative over/under Jim Croce song, ID as "K-Queen," still not enough to count. (RW-CA)
- 1290 KNSN CA, Chico 5/13 0400 noted with dual ID "KPAY 1060, Chico, KNSN 1290 Chico," so apparently simulcasting each other. (RW-CA)
- 1300 KAPL QR, Phoenix-Medford 4/27 0715-0807 airing Christian contemporary music, 0735 piano music & ID "Giving thanks always in the name of Our Lord Jesus Christ, this is KAPL," promo for "KAPL School of The Bible" Saturdays 8am-noon, back to contemporary Christian music. Poor to very poor with Mexican & unID. (5P-HI)
- 1320 KSDT CA, Hemet 5/13 0806 fair under KSTS/KCNR with ID "The best music of the past 50 years, right here on AM 1320, Stardust," then gave 800 number to call KSDT. Call change, ex-KHSJ for me. (RW-CA)
- 1490 KEYG WA, Grand Coulee dominated at 0900 5/12. Man referred to "your music on your station, KEYG." (LBG-MT)
- 1510 KLLB UT, West Jordan 5/22 0900 strong with KGA nulled. Man gave brief legal ID after jazzy religious cut. (LBG-MT)
- 1530 WSAI OH, Cincinnati 5/14 2306 strong atop KFBK. Ended CBS new, ID's, then began "When Radio Was." (LBG-MT)
- 1550 KNTR WA, Ferndale ID'd at 2300 5/11. Man mentioned "Ferndale-Bellingham-Vancouver." Good signal. (LBG-MT)
- 1570 ?CKEG? BC, Nanaimo 4/20 0825-0905 man airing C&W, thought he said "C-Keg," but he did say "Country Music Radio." Ad for water at 0848, missed ID at 0900, woman with news, car ad, Canada-orientated sports, back to C&W at 0905. Poor, XERF way under. (5P-HI)
- 1580 CBPK BC, Revelstoke 5/29 0859 weak with weather. (See unID help below) QRM from KGAL & KCWW. (LBG-MT)
- 1610 TIS MT/WY, Yellowstone Nat'l Park in with woman announcer 5/4 at 2306. Tape loop began "Welcome to Yellowstone Nation Park..." (LBG-MT)

- TIS MT, Moiseuse may have boosted power, as I've heard it several times lately. On 5/24 at 2301 woman said "Hello and welcome to the National Bison Range..." (LBG-MT)
- 1620 WGBR528 CA, ?? 4/28 1900 TIS noted in Hollywood on car radio. Mentioned CALTRANS and Santa Monica Freeway. (MS-CA)
- 1630 KXBT CA, Vallejo 4/28 1530 ex-1640 with fair signal, usual R&B oldies. (PM-OR)
 + 4/30 0030 noted on new frequency with the same strong signal they had on 1640. Satellite "Soul Food Cafe" show and local IDs. (DS-BC)
 +5/3 2300 noted here ex-1640 with usual good signal and Solid Gold Soul oldies. (MS-CA)
 +5/12 2000 heard on new frequency with same also local strength as former 1640, in stereo. (FA-ID)
- 1685 "MER" ?? 5/18 beacon "MER" in strong at 0600. Miskeying code to where it comes out "MERE." Thanks to Mike Hardester for help on this one. (GJ-CA)
- 1685.5 "RR" CA, San Rafael "RR" noted 5/18 at 0605. Steve McGreevy has moved his beacon from 1637.93 to 1685.5 (probably because of KXBT). (GJ-CA)

UNID HELP

- 1260 Bob Wien's nostalgia station 4/22 at 0635 may be CFRN; strong here. (LBG-MT)
- 1580 My Canadian with man giving weather in monotone voice 5/3 0857-0903 was CBPK in Revelstoke, BC. It's operated by Environment Canada and runs approx. 50 watts, per Nigel Pimblett. Nick Hall-Patch says it plays a tape loop of BC interior weather. Thanks also to Pat Martin for his help. Not in NRC Log. (LBG-MT)

UNIDS

- 620 5/30 0757-0803 station in language that seemed German; no ID on the hour. Maybe a Sunday-only program. CKCK? (LBG-MT)
- 630 4/22 0614 someone airing Kevan Trudeau's infomercial series "Let's Talk America." Faded after five minutes under 4QN or 1YZ. KIDO-ID or CHED-AB? (5P-HI)
- 940 Nostalgia station under CJIB at 2300 5/29 and 5/30. Man began "With the music you love from the artists you know, this is ..." KCEE? (LBG-MT)
- 1230 5/25 0802 C&W station seemed to ID as "K-15." (LBG-MT)
- 1060 4/22 0250 someone with new age music, soon slipped under CKMX & KPAY. Poor. (5P)
- 1300 4/27 0806 ad with phone number 800-896-3538, into One-On-One Sports. KPMO-CA? (5P-HI)
- 1619.40 CA? 5/27 unID pirate with solid profanity & rock music. Only audible on south wire, so presume CA. Mentioned 25 watts. Drifting at times and fairly strong at times. At 0100 ID'd as "AM 1620," DJ "Carl," several SW frequencies also mentioned. (PM-OR)
- 1635 5/13 0404 unID with continuous code ID as "-.-" no other IDs. Looped N-S, good. Ideas? (RW-CA)
- 1640 Apparent pirate again noted strong here 5/12 2314 & 5/26 2256 with classical music (both Sundays). Now that KXBT has moved to 1630, this station has a clear channel. (LBG)
- 1640 5/13 0000- approx 0300, pirate (?) running light MOR music, few announcements, some PSAs. Mentioned "10:25" & "AM 1640, FM 105.2" at 0125 so it is a PLT station. Male announcer speaking in a light/soft voice. Sometimes modulation and/or volume goes down during announcements. Also heard 5/5, seems to be running only on local Sunday evenings. Looping 1-3 degrees west of south so would probably make it in S. CA. (FA)
- 1640 KWJC?? 5/20 0200 caught "You are listening to AM 1640, KWJC and FM 105.2 KBCK." Strong signal as before, running light MOR. Does anyone have any ideas who this is? (FA-ID) (KBCK is on 105.3 in Diamondville, WY and KWJC is on 91.9 in Liberty, MO. No match in the expanded band list. - NJ)

When addressing reports to WDXR please use my correct name, Nancy Johnson. Use of Hardy and/or Gantzer have delayed reports here. John and I will be unable to attend the Ocala, Florida IRCA Convention this year, but hope that those of you attending have a good time. We will be returning from our Canadian Rockies honeymoon at the time of the convention. Please check the deadlines at the top of the column.

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Central DX Roundup



Editor: John C. Johnson
Internet: CDXR@aol.com

FOR THE RECORD

E-Mail: CDXR@aol.com Snail-mail: 979 Neptune Boulevard, Billings, MT 59105-2129
America On Line: JohnJ53816 CompuServe: 74444,3075 Prodigy: MPNN49A
Summer deadlines: June 29th, July 27th, August 15th, September 7th.

Please report all times as Eastern. Tips over a month old will not be included. Include only what would be considered as DX, or unusual format diversions if it is a 50kW nearby or a local station. Your tips should be of help to other DX'ers, so include helpful information such as formats.

RIDING GAIN

- [QRD-IN] **Quentin R. Davis**, Jeffersonville, IN.
392, Select-A-Tena, "Radio West" loop.
- [CAD-TX] **Charles A. Dobbins**, Houston, Texas.
Radio Shack DX-160, 150' inverted V antenna, MFJ-956 tuner. Sony ICF-SW7600.
- [RCP-IN] **Robert C. Pote**, Greenwood, Indiana.
Drake R8A, Quantum loop, 1994 GMC Delco ETR truck radio.

DOWN THE DIAL

- 570 **WVMI** **MS**, Biloxi. 4-30. 2111-2150 with Mississippi State vs. Southern Mississippi college baseball game. ID "570 AM WVMI." Faded out, listened another 10 minutes, but didn't return. First time heard, report sent. [CAD-TX]
- 630 **KVMA** **AR**, Magnolia. 4-29. 0748-0813 with Arkansas Radio Sports and Arkansas Radio Network News. Local news and weather "....55 here at KVMA in Magnolia...."
Several mentions of Magnolia. [CAD-TX]
- 690 **WZAP** **VA**, Bristol. 4-8 fair. 1900 caught them as they announced cutting power. [RCP-IN]
- 720 **WGCR** **NC**, Pisgah. 4-8 fair in WGN null. 1902 with sign off announcement. [RCP-IN]
- 780 **WIIN** **MS**, Ridgeland. 5-2 WBBM not heard until 2130. 2105-2130. Station ID "You're listening to 780 WIIN Ridgeland." 2105 into call-in talk show, country music. Note listed as daytime only. [CAD-TX]
- 970 **WAVG** **KY**, Louisville. 4-30. 2200-2230 with Reds vs. Pirates PBP. "AM 970 WAVE" ID given. Note the "E" and not a "G" as in WAVG. [CAD-TX]
- 1030 **KCTA** **TX**, Corpus Christi. 4-15 excellent, WBZ no problem at this time. 0530 with sign on. Mentioned 50,000 watt power. Been hearing this station with some regularity at this time of day. [RCP-IN]
- WQSE** **TN**, White Bluff. 5-7 fair to good in WBZ null. 0450 with Gospel music back to back. 0452 with ID "You are listening to WQSE White Bluff, TN." [RCP-IN]
- 1110 **KTLD** **VA**, Alexandria. 5-2. 0730-0746 with UPI Sports Report, "Morning In America," financial reports, local weather. Station ID "KTLD News-talk radio. Alexandria, Pineville." [CAD-TX]
- 1140 **KSOO** **SD**, Sioux Falls. 4-19 very good way over usual WRVA. 0539 with station ID into stockyard report. [RCP-IN]
- WAKK** **MS**, McComb. 5-1, local KSSQ must have been on low power as could be totally nulled out. 0720-0735. Gospel music program. Many local spots. Station ID "Solid Gold Gospel AM 1140 WAKK McComb." [CAD-TX]
- 1150 **WCRK** **TN**, Morristown. 4-12 very good. 0537 with country music, spots for Henry's Carpet and J&B Lamp and Shade on highway 11E. Station ID. [RCP-IN]
- 1160 **WAMB** **TN**, Donelson. 5-2. 2135-2202 with Nashville Sounds vs. Oklahoma City 89'ers baseball game. 2200 heard very weak WAMB ID. 2202 lost to semi-local KENS. First time ever heard, report sent. [CAD-TX]

- 1370 KFRO TX, Longview. 5-2. 1935-2006 with Rangers vs. Tigers major league baseball PBP. Local spots and station ID "News, talk, sports. AM 1370 KFRO Longview." [CAD-TX]
- 1410 KCUL TX, Marshall. 4-30. 0851-0906. Morning show with lots of spots. Sports report, station ID "Award winning news for east Texas, this is KCUL." Also heard dual ID "93.3 FM and 1410 AM KCUL." [CAD-TX]
- 1440 WPRS IL, Paris. 4-28 very good. 1502 with "WPRS your station that keeps the 60's and 70's alive." [RCP-IN]
- 1580 WCNB IN, Connersville. 4-28 fair. 1522 with religious program "Heavenly Sounds." Playing Christian country music. First time I've heard this 250-watter located about 70 miles from my home! [RCP-IN]
- 1640 KXBT CA, Vallejo. 4-24. 0330-0400. (no reception information) Received a verie card and bumper sticker. They mentioned their move to 1630 shortly. [QRD-IN]

CORRECTIONS

- 1020 KVCS OK, Perry. [CAD-TX] reported hearing KBCS in the 4-27 CDXR. According to NRC's Wayne Heinen, 1020 Perry, OK is actually KVCS. Thanks Wayne!

unIDS HELP

- 1330 WOLD VA, Marion. [TMJ-IL] reported hearing WOLD in the 4-27 CDXR. According to NRC's Wayne Heinen this could have been WFBC which is || to WORD-910. The mentions of Limbaugh and talk would fit that to a tee. Thanks Wayne!

25 YEARS AGO

June 12, 1971 issue of IRCA's "DX Monitor" - Florence Mari Cohen of Goldens Bridge, NY said she was 17 and a senior at John Jay High School - Carol Schweiger of Stoneham, MA said she was 15 - H. John Clements of Port Orchard, WA said he was 21 and would be going to Los Angeles Baptist College in Newhall, CA soon - Bill Harang of San Jose, CA told of his Lafayette HA-63-A.

OPEN MIKE

If at first you don't succeed, you're doing about average. Please note summer issue deadlines at the top. Some slightly out dated tips were included this time, but do try to keep your tips less than a month old. Nancy and I will not be able to attend the convention in Florida due to conflicting dates with our delayed honeymoon in July. Of course, after seeing what can happen to planes when they fly over the Everglades gave us second thoughts to ever flying to Florida! 73, John.

Press Release

The 24th annual edition of the famous TROPICAL BANDS SURVEY is now available from the DSWCI. Again this year Anker Petersen has made a complete update with more than 80% of the stations in TBS-23 being changed ! Several hardcore DX-ers in all continents have assisted in this. The Editor also went to Ecuador to check the LA-scene, so it really reflects which broadcasting stations that were active by the end of May 1996 between 2000 and 5800 kHz.

As usual frequency, power, location and transmission times are given. But a new code system is also used, indicating for each station, if it is Regular, Sporadic or Likely inactive. This is based entirely on worldwide monitoring by DX-ers and not on official announcements.

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Reduced rates for bulk orders of 20 copies or more can be obtained.

Anker Petersen

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Eastern DX Roundup

Editor: LEE FRESHWATER
414 SE 3rd ST
OCALA FL 34471

Is it June already ??...Only 4 weeks until the convention !! MAKE YOUR RESERVATIONS T O D A Y !!!!!

STARS OF THE WEEK

- (MH-NC) Mike Hardester 3118 Gateway Ct., Jacksonville, NC 28546-6973
R-70 w/22 " Radio West Loop VIA E-MAIL
- (HL-LA) Henry Lazarus 1313 Dauphine St., New Orleans, LA 70116
Sony ICF 2010 w/ KIWA Loop VIA U.S.P.S.
- (LH-AL) Lynn Hollerman 514 Carrsbrook Rd., Huntsville, AL 35803
Yacht Boy 400 w/internal ant. VIA E-MAIL
e-mail : gmholler@hiwaay.net
- (NP-AB) Nigel Pimblett 1146 Queen Street, Medicine Hat, AB CANADA
TIA 1B4 DXing from the Radison Hotel, Montreal
Sony ICF 2002 VIA E-MAIL

LOGGINGS

- 620 WVMT VT Burlington "Oldies 620, WVMT" ID, then ad for Vermont tourism. (NP-AB)
- 870 WHCU NY Ithaca 4/28 2210 "WHCU Weather Center forcast" ID as "Newsradio WHCY" (NP-AB)
- 920 WHJJ RI Providence 2305 5/1 weather, then ID: "Talk Radio 920 WHJJ", into political program. (NP-AB)
- 1140 WBXR AL Hazel Green 5/11 +0645-0702, sign on with brief musical interlude and annmct by man : "Good morning. Welcome to another broadcast day on Christian Radio..WBXR. WBXR is owned and operated by Globe (?) Country (?) Incorporated based in Fayetteville, Tennessee. Studios located at 2926 Huntsville Highway...31 (?)South in Park (?) City (?) Tennessee, transmitter and tower located at 551...in Hazel Green, AL. WBXR serves the North AL and South Central Tennessee area. We try to bring you the best in news, public..and service and Christian programming. Thank you for listening. Christian Radio 1140, WBXR Hazel Green, Huntsville, Fayetteville. And now the National Anthem." Followed by program of S. Gspl Mx and USA Radio Network News at 0700. (HL-AL)
- WQBA FL Miami 5/11 0631-0645, suddenly appeared on the air and over whelmed WLOD, as WQBA apparently went to daytime power. Newscast in Spanish with a string of recorded annmcts, including two about Mother's Day, clear IDs as WQBA and "La Cubanisima" Drowned out by sign on of WBXR. (HL-LA)
- WLOD TN Loudon 5/11 +0631, signed on with annmct by man : "Good morning. At this time WLOD, Loudon, TN begins our day of broadcasting. WLOD operates on the assigned frequency of 1140 khz. WLOD, your local radio station..." at which point WQBA increased its power and drowned out WLOD.. (HL-LA)
- 1160 WVNJ NJ Oakland 4/29 2345 weather, restaurant ad, ID: "Your hometown radio station, AM 1160, WVNJ" song by Celine Dion. (NP-AB)
- 1370 WFEA NH Manchester 5/1 2113 "1370, WFEA" ID then into nostalgia tune. (NP-AB)

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- 1380 WSYB VT Rutland 2206 5/1 end of Red Sox game w/ Detroit, then ID
 "...your Sox on W S Y B ..Rutland.." (NP-AB)
- 1440 WHHY AL Montgomery 5/20 2325-2330 "AM 14-40, WHHY.." into Pop mx
 (Ode to Billy Joe), 2329"...all request and
 dedications.." into more mx... Good sig. (LH-AL)
- 1460 WGNA NY Albany 4/30 Ad for restaurant in Saratoga Springs, ID..
 "Country 107.7 WGNA FM now starting 13 songs in a row."
 (NP-AB)
- 1550 KXOJ OK Sapulpa 5/3 0439-0555, Southern Gospel Music program
 with several IDs, e.g. "Southern Gospel Music 24 hours a
 day, AM Stereo 1550, KXOJ, Sapulpa, Tulsa, where you
 hear great music from folks like.." (HL-LA)
- 1580 WCTJ NC Camp Lejeune has been noted on for brief periods on
 various days during daytime hours. ID is for "WCTJ, Camp
 Lejeune-Jacksonville." Programming is gospel. Twice
 noted // WLOJ-1490 (New Bern). Slogan : "The New Light
 15-80" is noted before ID at top of the hour. The slogan
 is after a lead in promo for Light 14-90 which has a
 minister or business person encouraging people to tune-
 in and support Light 15--80. There is a Phone number :
 (910) 455-8812, but no answer. I have heard WCTJ with a
 fair signal as far as Goldsboro area, so looks like
 they're trying to go the full 10 kw. (MH-NC)

SPECIAL INTEREST

- 1140 KSOO SD Sioux Falls. According to the program schedule received
 from station, KSOO still has News/Talk format during the
 day (during the week and part of the day on weekends)
 Does play old popular music, including music from the
 50's at 1900-0630 on weekdays, 1400-0700 on Saturdays
 and 1300-0800 on Sundays. Program schedule and new
 stationary bears the slogan "KSOO Unforgettable AM
 1140." (HL-LA)
- 1700 CPA ?? I originally heard this (presume) aero-beacon on 1/7
 @ 0300. This month's issue of "The Lowdown" mentions a
 member logging this station along with CRJ. His QTH is
 VT. Wonder if anyone else has heard this station or is
 it actually a product of CRJ ?? (MH-NC)

Nice to have Nigel join us from Montreal. His report hit the E-mail as I
 was SENDING the last column. Since things are slow this month I included
 it here. Sorry Nigel !..I guess I won't have the radio on until AFTER
 the convention...Auction items are pouring in, but we still NEED more.
 (I am greedy) Plans are Progressing !! LET ME know if you are coming.
 And more important : Make your reservations....I need to know some
 numbers as soon as possible.....See you in OCALA !!!!

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IRCA Bookstore, 9705 Mary N.W., Seattle, WA 98117-2334. Thank you!

IRCA Reprints

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

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



Western DX Forum ★ ★ ★ ★ ★

Reid Wheeler 5910 Boulevard Loop SE Olympia, WA 98501

Deadline: Saturday 2 weeks before publication

Lance Thomas, 200 Springdale Circle, Airdrie AB T4A 1N7

[5/5] Hi everybody! It took some time but here's my first note to WDXF. First, I'd like to say thanks & howdy to Larry Godwin for the kind words and warm welcome a few issues back. Glad to see that there are others out there still using the old 'glow in the dark' war horses of years gone by. The Hallicrafters I use is such a dependable (and loveable) old thing. Certainly well worth the \$7.00 US I paid for it in '75. I haven't had very much time to chase DX lately as work is 10+ hours a day (sometimes 7 days/week). But what I have heard has been good. I leave the radio on (besides my bed) all night but the warmth and glow of the tubes just lulls me to sleep, however, I do wake up to a warm and stable receiver at 5 am and usually try some sunrise skip before work. WMC Memphis TN was a welcome addition to the log a few weeks back. I believe (no digital readout) that last night I heard KXBT on 1630 thus leaving the 1640 Khz pirate out in the clear. Signal is not very strong here, songs are easily ID'ed but the laid back DJ's voice combined with low modulation just don't cut through often enough. I'm not sure but I think he might of mentioned a possible FM \\. I did catch the DJ mentioning Sunday evening as the regular broadcast schedule. I am a member of the NRC as well as IRCA as I thought I'd subscribe to both and at the end of a year I was planning on making a choice between the two. Well, I'm glad to say that won't happen - the NRC is a great club but IRCA's more like my fuzzy slippers, IRCA feels like home and I enjoy the tight knit between the members and editors. On another note ... I believe I may have stumbled onto a 1938 National HRO. There is no indication of model # but it has the distinctive large vernier tuning knob. The last patent date on the back is for 1938. Anybody out there know how to positively ID this unit? It works good (could use a tuneup), freq coverage is via 5 bands marked "200-400, 1.3-2.6, 2.7-6.4, 5.8-14.4 & 13.5-30 MHz". Serial # is 'A111'. Finish is in black crinkle. One last thing. Recently received NRC reprint P-32 "Relationship between solar activity, earth's magnetic field and MW dxing" by Randy Seaver. Very interesting reading. One look at the graph titled "Sunspot records for 1700 to 1985" indicates that we are entering the sunspot minimums for the 11,22 and 88 year cycle somewhere in the late 1990's. This in an historic event as we all know just what the 11-year sunspot minimums do for MW DXing during those long winter hours. Although the graph was current to 1985, it is very apparent that the next 88-year low should be 96/97 or 97/98 by rough estimate. Ask for reprint # P-32 from our friends at the NRC if interested in studying what could be one of the best forthcoming (and historical) DX seasons since the invention of spark-gap transmitters. Cheers and god bless. [Welcome to WDXF, Lance ... and thanks for the goodie pkg - ed]

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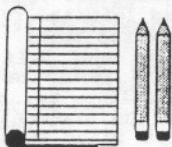
A DXers TECHNICAL GUIDE

Now in its 2nd edition, this 120 page book answers questions on receiver and antenna theory (how to improve their performance), how audio filters and loop antennas can improve DX (and hints on their construction), how to build a beverage and phasing unit, and much more. Only \$5.50 for IRCA/NRC members, \$6.50 for non-members (overseas airmail add \$2.50).

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Eastern DX Forum

Richard C. Evans
P.O. Box 21883
Milwaukee, WI 53221-0883
Phone: 414-Atlantic 2-9035

Deadlines: 6/29, 7/27, 8/24, 9/7...

Bill Townshend, 9500 Connecticut Ave NW, #901, Washington, DC 20008-4326
Greetings once again from the Land of Pleasant Living and crooked politicians. It's re-intro time, so here goes. I'm 65 (finally a full-fledged "old geezer" but young at heart), happily single and live in a two-bedroom flat on the top floor of a nine-story yellow brick (not road, hi) pile in upper NW DC and work as a computer programmer for the National Weather Service on the third floor of an eight-story concrete and steel pile (AM DX is killed but FM/TV DX is unaffected) 25 km/16 miles SE in Marlow Heights, MD just inside the Beltway (I-495). With the last DX reports sent to EDXR, this year's BCB DX season is over and now the VHF/UHFers will have their days. It's been a great DX season with most of the tests on MMs between midnight and dawn. I haven't decided on vacation plans for later on this summer, although I may lean toward the NRC convention in Knoxville, TN over the Labor Day weekend. We may have a frost here tomorrow morning (5/14) after a warm Saturday with T-storms messing up BCB reception. This will probably be our last frost threat until fall. Time for s/off. 73's and good DX.

Quentin R. Davis, 1905 Blackiston Mill Rd, Jeffersonville, Indiana 47130
Just recently received a card/stix from KXBT-1640, Cal #2 for me! Also went to Dayton on May 18 and enjoyed it again! Been there four years in row. Will plan for next year. More later. 73's de Randy.

R.C. Watts, 4109 Graf Drive, Louisville, Kentucky 40220-3016
Re: Almanac Updater 5.6 - the 1610 TIS, WPAV672, Cumberland Falls State Resort Park, is located at Corbin, KY on I-75 so this is a double listing. I did not hear a 530 TIS while driving past the Forest Service in Stearns, KY so it may be gone. The Forest Service in Morehead, KY told me last year there isn't a 530 TIS at Tator Knob but I've not had the opportunity to personally check it out. Entering Whitesburg, KY I saw the WIFX (Foxy 94.3) building and crashed it uninvited. Gave us a nice tour anyway. City of license is Jenkins. We went on to Appalshop which is around the corner a little way, just across the Kentucky River. At WMMT-88.7, the Bluegrass Hillbilly was live and spinning CDs. A couple days later, thanks to my brother-in-law, I got to visit WCPM-1280 in Cumberland, KY. Can see the tower from US 119 but the facility is way back through a residential area and near impossible to locate. New FM sister and up-to-date board but the rest of it was like a step back in time. Still gets out very well. Worth seeing! (second report) WHKW-1080, The Hawk, switched frequencies with WKJK-98.9 so the AM is now KJ-1080. Former WHKW-FM became WSSI-107.7, The Star. We stopped by Renfro Valley (Mt. Vernon) on the way back from eastern KY for biscuits and gravy. Coffee was cold. Walked next door and took a pix of T.I.S. antenna atop Visitor Center. Wanted to see transmitter but girl on duty couldn't (or didn't want to) find key to back room. Drove a couple miles up US 25 looking for WRVK-1400. Could see the tower over in the hills and a link antenna at a house off the road ways. No sign and it being Sunday I let it pass. In the May 25 SCENE magazine (Courier-Journal), the BEST (of everything) column was an article about T>I>S> stations. The author had a positive experience with the Clear Lake, IA 530 station and was saying watch for the signs and tune-in for the best up-to-date tourist tips. Well, some are better than others! (R.C., thanks for the papers--rce)

Karl J. Zuk, 154 Old Post Road North, Croton-on-Hudson, New York 10520

A couple of issues ago, I announced that I had left ABC-TV and was busily managing WCBS-TV in New York City. Well, scratch that! I saw an ad in the New York Times for a position at NBC, and sent half a dozen friends over to enjoy the opportunity. When I heard about the job and the compensation offered, I jumped and applied myself. So, now I am entered in the Guinness Book of World Records: In one six-month period I have served as a permanent employee for all three major TV networks! As a club, we are fastidious about recording every small change that occurs on the AM band, but we miss something when we plop all stations that primarily use the Spanish language into the designation "SS". In my locals, I receive half a dozen powerful "SS" locals, and all have as distinct a personality as the English speaking stations do. Ironically, none of them are truly Spanish; they serve emigrant communities from various areas of Central America and The Caribbean. Recently, I have taken the time to listen to them and try to understand what they are up to. Probably the most interesting is that latest convert to Hispanic programming: Paterson, New Jersey's WPAT on 930. They aim for 25-49 year olds, and try to broaden their audience by playing Hispanic crossover artists singing in English along with some bilingual ads. WPAT features pop-rock with overtones of Mexican brass and choral singing. You might think you have bagged a new border station! They generally do not simulcast with their FM and often mention broadcasting in AM stereo. Local radio news: the new country format of WGSN-740, Huntington, Long Island, New York proved so successful their sister FM, WMJG-94.3, has begun simulcasting it dropping another simulcast with rock rocker WRCN-FM in Riverhead. The Hudson Valley has a new TIS on 530: WPGX 518 operated by the Cornell University Cooperative Extension in Kingston, New York. Listen and you'll hear water conservation tips and local even announcements starting with a little jingle and a male voice greeting you with "Welcome to Ulster County..." Ex-RNI personality J.P. Ferraro continues to be heard on Hyde Park's WHVW nearly every afternoon. "Hudson Valley's Real County" operating on "nine hundred and fifty crispy kilocycles" has been using a 60 foot Rohn tower atop a shopping mall in Poughkeepsie as a temporary antenna for months. A financial dispute with landowners forced them off their original tower site at 507 Violet Avenue. WLNA 1420 in Peekskill has dropped most of their music programming for a variety delivered talk shows. Both WLNA and WHVW should be considered very good DX catches. Although WLNA's antenna site is in a marshy swamp off the Hudson River, it's surrounded by tall rocky hills and its night pattern is southeast sending its signal nearly nowhere. I live within the pattern five miles away and often struggle to null it in. Who listens to stations like these? Another news-talker, WVIP 1310, Mt. Kisco was noted as silent this afternoon (May 8). If they return to the air, you might find them by tuning in 2620 kHz, where they turn up now and then. Finally, I've noticed KXBT, Vallejo, CA is now on 1630. Remarkably, I hear them before almost every dawn. Until we meet again, happy trails! KZ.

Mike Hardester, 3118 Gaitway Ct, Jacksonville, North Carolina 28546-6973

E-Mail address: 2Lakota@Abaco.Coastalnet.Com

I had a very enjoyable visit with ye olde editor on 10 May. Rick, his wife Barb, and Barb's mother were visiting Mount Olive, NC for Barb's brother's graduation from Mount Olive College: the college I'm attending. Talk about a small world! Really great talking radio with a fellow DXer, and discussing the use of computers in the hobby--primarily record keeping. One of my classes this past semester required me to familiarize myself with a new database program. The professor said to make up a "dummy" database, do entries, etc...to date, I've entered information on 500 stations heard over some 28 years, and still plenty more entries to go. Best part, it's all in the name of education, hi! Recent QSL of note received for reception of the Army Broadcasting System's recent (5-8 FEB) operation on 1670 kHz. Very nice certificate-type QSL. Would like to make this year's Convention, but it's doubtful as we're planning to head the opposite direction later this summer--up to the Dakotas. Hope everyone has a great summer. While you're traveling, why not jot down information on those TIS/HAR stations you hear and send a report to Nancy, John or Lee! Very 73 and Best of DX de

WZ

Mike. (Mike, if you're up I-90 or I-94, I'm only about 7 blocks off of I-94 in Milwaukee--rce)

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

As Mike mentioned, I did my share of travelling the southeast during May. In fact, I drove about 3800 miles in 11 days. On our way down to Alabama to get Barb's mother, Barb and I stopped in Louisville to visit R.C. and A.J. Watts. Two of the nicest people you'll ever want to meet. I enjoyed seeing R.C.'s setup, the hawg radio antenna, and playing with the hawgs. I think the one that kept wanting his ear scratched was the same one that showed up later wearing a set of radio headphones ready to DX! Got down to Ozark, AL and fired up the Superadio for some sunset and evening DX--added six stations to the log there. Mount Olive is about 50 miles east of Fayetteville, NC going towards the ocean. I had just a small radio with me and didn't hear much that interested me. Seemed like a fair amount of C&W (if I remember correctly) while I prefer southern gospel as my background music. We spent about 6 hours talking with Mike on Friday--he had said he could only stay a couple of hours because otherwise the dog would trash the house. Hope you found everything in ship-shape, Mike. The conversation ranged over a wide variety of subjects, but the amazing one was talking about the San Francisco IRCA convention in 1975. It turned out we were both there but don't recall meeting the other, hi. I got some ideas on computerizing the logs but haven't had the chance to do anything yet. Seems like we've have an extra dose of T-storms this spring and when it's not raining, I'm busy mowing the lawn, hi. While typing this column, I turned on the HQ for the first time in a couple of months just to let it run, no DX done. The Ozark, AL log is up to 106 now--I wish I had listened to my wife ten years ago when she first suggested that I keep a log down there. See you next month. 73.

IRCA Mexican Log, 3rd Edition, Now Available!

After months of preparation, IRCA has published the 1994 edition of the IRCA Mexican Log.

The log lists all AM stations in Mexico by frequency, giving call letters, state, city, day power, night power, slogans, schedule in UTC/GMT, formats, networks, and notes. Stations that have changed frequency since 1990 are cross-referenced on the old frequency.

The call letter index gives call, frequency, city and state. The city index (listed by state, then city) gives frequency, call, day and night power. There is even a guide to the Spanish alphabet and numbers.

The log has been completely updated from the 1990 edition and carefully cross-checked by IRCA members in Mexico and the U.S. This is an indispensable reference for anyone who hears Mexican radio stations.

The price, payable to IRCA in U.S. funds:

IRCA/NRC Member: \$6 U.S./Canada/Mexico/seamail, \$7 rest of the Americas airmail, \$7.50 Europe/Asia airmail, \$8 Australia/New Zealand airmail.

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An Introduction to Broadcast Band DXing

This tri-folded brochure is ideal for explaining the Broadcast Band DXing hobby and the IRCA. It can be included with reception reports and given to other interested folks. Sub topics include "What is DXing?", "Broadcasting's early years," "The first DXers," "Clubs helped listeners share," "Our hobby today" and "DX clubs still unite listeners." It is two color printed on heavy stock. Price is \$0.35/brochure (US and Canada), \$1.00 (rest of the world). Minimum order is 10.

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QSL

VERIFICATION SIGNERS

Stephen S. Howe
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showe@earth.nwu.edu

My deadline is the last Friday of the month, unless indicated otherwise.

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 JDS J D Stephens, 1155 Old Monrovia #3-E, Huntsville AL 35806-3510; JSteph6711@aol.com

FREQ	CALL	NAME and TITLE	ADDRESS	WHAT	WHEN	WHO
640	WCRV	Sunny Caldwell, GM	4990 Poplar Ave Memphis TN 38117	L	14	CAD
660	XEFZ	Alberto Estrada Torres, Director General	XEFZ Metropoli Av. Madero Ote. 1110 Monterrey, N.L. 64000 Mexico	LP+	99n	HL
680	WCNN	John Talbert, StaffEng	1601 W Peachtree St NE Atlanta GA 30309-2663	L	231f	HL
790	KKYR	Jim Hendrick, GM	2323 Arkansas Blvd Texarkana AR 71854-2016	LBbc	128f	HL
910	KBIM	John King	P O Box 2308 Roswell NM 88202	RM	8	CAD
930	WYNI	Joe McKissick	McKissick Enterprises 1016C S Alabama Ave Monroeville AL 36460	P+	211f	HL
950	KXJK	Janet P Benson, Promo- tions Director	P O Box 707 Forrest City AR 72335	L	342f	HL
960	KGKL	Eddy Smith, CE	1301 S Bryant Blvd San Angelo TX 76903	LM	344fnr	HL
		Eddy Smith, CE	P O Box 1878 San Angelo TX 76902	LM	93nr	CAD
1030	KFAY	Zeb Huffmaster, CE	Huffmaster Engineering 1405 Jennifer St Springdale AR 72762	LP	188f	HL
1100	KKLL	Dan Stubblefield, O/GM	P O Box 211 Webb City MO 64870	P	94f	CAD
1110	KTLD	Fay L Olaw (?)	34-D MacArthur Dr Alexandria LA 71303	Rbc	7	CAD
1140	KPWB	DeAnn Griffin, Gospel Music Director	235 Business HH Piedmont MO 63957	LB	16	HL
	WAKK	Richard Watts, CE	P O Box 1143 McComb MS 39648	LB		CAD
	KSOO	Les Tuttle, GM	2600 South Spring Ave Sioux Falls SD 57105	LM+	9n	HL
1160	WAMB	W C Baird, VP Pub Aff	1617 Lebanon Rd Nashville TN 37210	LBbc++	10	CAD
1220	KVSA	Abbott Kinney, P/GM	P O Box 110 McGehee AR 71654	L	7	CAD
1230	KWTX	Bob Bunch, GM	6700 American Plaza P O Box 2636 Waco TX 76702-2636	L++	11	CAD
1320	KSDT	Jason Hous, CE	2615 W Devonshire Hemet CA 92545	P	180	PM
1360	KNIR	Scott Seagraves, DX Test Announcer*	P O Box 12948 New Iberia LA 70562-2948	L	8	CAD

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FREQ	CALL	NAME and TITLE	ADDRESS	WHAT	WHEN	WHO
1370	KFRO	J R Curtis, P	P O Box 4299 Longview TX 75606-4299	R	6	CAD
1390	WXTC	Valencia Towns, SalesAsst	478 East Bay St Charleston SC 29403	L	78fn	HL
	XEXO	Lic Sergio Brana Acevedo	Av. Juarez 703 Ote. Cd. Mante, Tam. 89800 Mexico	LP+	56	HL
1410	KCUL	H A Bridge, Jr, GM	200 Interstate 20 Marshall TX 75670	Lbc+++	6	CAD
1440	WLTV	Patrick Bass, GM	P O Box 45043 Mobile AL 36640	L	20ffft+	JDS
1470	KLCL	Bruce L Merchant	P O Box 3067 Lake Charles LA 70602	LB	5f	JDS
	WVOL	Scott Peters	1320 Brick Church Pike Nashville TN 37207	L++	5ff	JDS
1510	KQHN	John Garner, PD	P O Box 1716 Nederland TX 77627	L	7	CAD
1530	XEUR**	Lic. Luis Alfonso Sanchez Tovar, Subdirector, Comercializadora Siete de Mexico S.A. de C.V.	Montecito 59, Col. Napoles Delg. Benito Juarez, CP 03810 Mexico, DF, Mexico	L++	8ff	JDS
1550	WAMA	Silvia Abreu, PD	5203 N Armenia Ave Tampa FL 33603	LM+	5f	JDS
	WCTZ	Sears L Hallett	P O Box 1550 Clarksville TN 37041	L	62f	HL
1570	WCLE	Vincent Weal, Production Director & Office Mgr	4009 Keith St NW, Suite 205 Cleveland TN 37312	L	20ff	JDS
1580	KGAL	Richard Eads, VP/GM	P O Box 749 Albany OR 97321	Q		PM
	KWED	Hal S Widsten, Co-owner/GM	609 East Court St Seguin TX 78155	L	18	CAD
	CBJ	Jean-Roch Maltais, Chef de l'Exploitation technique	500, rue des Sagueniens Case Postale 790 Chicoutimi PQ G7H 5E7	LQ	21	JDS
1590	KXSP	Jason Hous, CE	2615 W Devonshire Hemet CA 92545	P	93	PM
1630	KXBT	Ralph [Jones] [KA6FDI]	3267 Sonoma Blvd Vallejo CA 94590	Q	13	PM
1670	KTRK	Donald S Browne, Project Manager (PD)	QSL Verification Section Army Broadcasting Service 601 N Fairfax St, Room 340 Alexandria VA 22314-2054	cf***	106n	MH

WHAT was received: L = Letter with personalized statement; F = Form letter; Q = QSL card, commercially printed; C = Postcard or similar card supplied by station; P= Prepared card supplied by DXer; R = DXer's report returned with statement; cf = Certificate; E = Verification by e-mail; fx = Verification by FAX; M = Coverage map; B = Bumper or other sticker; bc = Business card; + = Extra goodies

WHEN the reply came: Number of days elapsed; f = Follow-up; n = Return postage not used; r = Return postage returned

NOTES: * [for this column] = Signer's nickname is "The Swamp Angel DXer"; ** [for this column] = See comment below: *** [for this column] = See comment below

I hope I got the signer's title and address for XEUR-1530 correct—J. D.'s e-mail submission was a little broken up during transmission. Mike sends along the following information about his KTRK-1670 verie: A framable "United States of America Army Broadcasting Service Verification Certificate" with an "All-Call Endorsement" for logging and reporting use of three call letters (K-Truck, Kilo Tango Romeo Kilo, and ABS). I have also sent a discussion of the various certificates sent by Donald Browne of KTRK included in a recent issue of the "AM DX NewsFlash" along with this column to Ralph, who may include it if space in the DX Monitor permits. Thanks for the kind words, Charles! Charles also verified his first North Dakota station, KFNW-1200 (see tips from two other reporters in last month's column). He also wonders whether someone would be interested in writing a lengthy column discussing techniques for coaxing verifications from illusive stations. I could write a column on this subject, or could edit contributions from one or several of our "Aces of the QSL" (as Charles puts it, hi!), but I wonder whether there would be

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sufficient information on "new" or "advanced" techniques beyond what can be found in the "New Member Packet" or on the Internet (such as rec.radio.shortwave, from which we might be able to reprint something) to justify another treatment of the subject. So, verifiers, let me know whether you would like to see such a column and I'll take it from there. This column was prepared on 5/31/96. 73, SSH.

Browne Donald - absee@afisgate.army.mil

For those 312 domestic listeners and 36 foreign listeners who were able to receive the special test broadcast of KILO-TANGO-ROMEO-KILO/KTRK/K-Truck; ALPHA-ROMEO-MIKE-YANKEE/ARMY; and ALPHA-BRAVO-SIERRA/ABS, during 5-8 February 1996, on 1670 kHz, the Verification Certificates are being mailed to you during the last week of May 1996.

The Verification Certificates are printed on green twenty-weight stock, with a filigreed border, and a subdued ABS Crest in the center of the 8 1/2-inch by 11-inch document. The document gives a technical description of the facilities and identifies all major components of equipment within the studio, transmitter, and antenna trucks.

There are ten variations of the Verification Certificate, and each listener who submitted a QSL request will receive the version appropriate to the type and extent of the information received by ABS.

The ten variations are as follows:

- (1). Plain Green (No endorsements)
- (2). Special Endorsement; for listeners who reported reception in their cars or pickup trucks.
- (3). Low-power Endorsement; for listeners who reported reception during (generally unannounced) 1000-watt operation, such as the Fred Flintstone Show, Al Peterson Show, and parts of the Tom Wenz Show.
- (4). Early-bird Endorsement; for listeners who read the advisory notice in Radio World or DX News, and reported reception prior to 5 February 1996, when no call letters were used.
- (5). Sign-on Endorsement; for listeners who heard the sign-on and identified the first song played.
- (6). Sign-off Endorsement; for listeners who heard the sign-off and identified the last song played.
- (7). Two-Call Endorsement; for listeners who reported two of three call letters used.
- (8). All-Call Endorsement; for listeners who reported three call letters used.
- (9). Volunteer Endorsement; for listeners who were also volunteer announcers at the station.
- (10). Multiple Endorsements; any combination of #2 through #9 above that are applicable to the listening report.

My sincere thanks for all QSL reports that were submitted.

Donald S. Browne
Program Director
KTRK

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United States of America Army Broadcasting Service Verification Certificate

This is to certify **Gary V. Jackson** heard and reported reception of the U. S. government test broadcast facility;
Tactical Call Sign(s): Kilo-Tango-Romeo-Kilo, KTRK, K-Truck (47 USC Section 305(c)); International Registry Call Letters: AABS,
abbreviated "ABS" (IRR Art. 6 Para 342); Transmitting Frequency: 1.670 MHz; Transmitter Power Output: 5,000 Watts (.005 MW).

Classification: Temporary Fixed
Emission: 20K00A3E (47 CFR Section 2.201 & 2.202)
Coordinates: N 39° 13' 28"
W 76° 55' 55"

Period of Operation: 5-8 February 1996
Official Sign-on: 1146 EST (1646 UTC) 5 Feb 96
Official Sign-off: 1654 EST (2154 UTC) 8 Feb 96

Transmitting Facility: Main: Harris GATES FIVE FA
Alternate-Main: Harris GATES FIVE FA
(Both Frequency Agile: .530-1.705 MHz)
Modulation Monitor: TFT 753/755
Frequency Monitor: Belar AMM-4
Splatter Monitor: Delta Electronics SM-1
Processing: Orban 9100B/1 (with NRSC-2 Disabled)

Antenna Facilities: LBA Technology TUP-3 fixed 120 foot semi
shunt-fed folded monopole; frequency agile 1.000-1.705
MHz; non-directional radiation pattern; 120 radials of
fixed 150 foot length with 3 degree spacing.

Studio Equipment: Pacific Research & Engrg BMX-U-18
audio control mixer; Denon DN 951FA CD players;
SONY PCM-7010 DAT recorders; Eventide BD 980
digital delay and H3000B harmonizer; Orban 642B
equalizer and 275A synthesizer; Henry Engrg Digi-
Corder RAM recorders; ITC Delta III cartridge
players with Delta IV record amps; Tascam 122 Mk
III cassette recorders and Tascam 122 Mk II aircheck
skimmer; REVOX PR99 Mk III reel recorders; and
Aphex Compellor 320A audio processing.

All-Call Endorsement: The recipient identified each different call sign during the three-day call-shifting period.

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The DCP-2 Dual Controller / Phaser

Mark Connelly - WA1ION - 08 MAY 1996

The DCP-2 Dual Controller / Phaser is an updated version of the previous DCP-1. It retains the original ability to tune up to two varactor-tuned remote antennas (active or passive). It can still be used for (remote) L/C-type phasing in the fashion of the DCP-1. Phasing capabilities have been enhanced by the addition of a built-in delay-line circuit. This allows phasing without the detuning of the inputs sometimes needed to implement nulling via L/C methods. Keeping the inputs correctly peaked can give better signal-to-noise margins on weaker stations audible after having nulled a dominant. The delay-line and remote L/C methods can be combined for even greater nulling flexibility. The DCP-2 can now additionally be used as a full-featured delay-line phaser for two broadband (untuned) sources such as active whips, longwires, etc.: it can now do anything the DL-2 phaser does (besides being a dual controller as well).

Besides the addition of the delay-line circuitry, some changes have been made at the inputs to permit control of Byan-type remote antenna terminators using Vactrols (EG&G Vactec VTL3A17 / Allied 980-0206, or equivalent). These remotely-adjustable resistors can be used for Beverage, Ewe, and rhombic termination; remote amplifier gain control; and other useful tasks. Two Beverages, with remotely-adjusted terminations, running through the DCP-2's delay-line phasing circuit and then followed by a low-noise high-Q regenerative preselector en route to the receiver would make a superb set-up for serious DXing.

DCP-2 controls and jacks are compatible with WA1ION DX Labs remotely-tuned antenna systems such as the RL-1, RTL-2, RTL-1A, and RTL-1 Remotely-Tuned Loops and the RW-1 and RTU-1 / MFJ 1024 Remotely-Tuned Active Whips. Two cables connect the DCP-2 to each active antenna (4 DCP-2 -to-antenna cables total). One of these two cables per antenna is the coaxial line which transfers DC power (+12 V nominal) to the antenna and RF output from it. The other cable transfers varactor and bandswitch-relay control voltage to the antenna. For short cable runs (up to 20 ft. / 6 m), a stereo jumper cable (two shielded cables formed into a single assembly), modified for the correct connectors, will work well for each remotely-tuned active antenna, even if the impedance of it may not be exactly 50 ohms. On longer runs, the RF/DC power section should be implemented with good 50 ohm coaxial cable for best results.

When remotely-terminated wire antennas are used, they are connected to various banana jack inputs (as noted in the procedures), rather than to the BNC and stereo jacks used for remotely-tuned antennas.

***** DCP-2 Inputs / Outputs *****

- J1: transfers DC power to, and RF from, active Antenna #1
- J2: transfers DC power to, and RF from, active Antenna #2
- J3: transfers varactor and relay control to active Antenna #1
- J4: transfers varactor and relay control to active Antenna #2
- J5: used for 'A' lead of rhombic #1 or Beverage #1
- J6: used for 'A' lead of rhombic #2 or Beverage #2
- J7: used for 'B' lead of Beverage #1; or used for longwire #1
- J8: used for 'B' lead of Beverage #2; or used for longwire #2
- J9: used for 'B' lead of rhombic #1; or used for float GND #1

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- J10: used for 'B' lead of rhombic #2; or used for float GND #2
- J11: transfers RF from the DCP-2 to the receiver
- J12: input for DC 'car power' source (+11.5 to +15.5 volts typical)

***** DCP-2 Controls *****

- R1: adjusts the Antenna #1 varactor or terminator control voltage
- R2: adjusts the Antenna #2 varactor or terminator control voltage
- R3: adjusts the undelayed channel signal amplitude
- R4: adjusts the delayed channel 0/180-degree signal amplitude
- R5: adjusts the delayed channel 90/270-degree signal amplitude

- S1: selects floating or common GND when wire antennas are used at any of the line #1 wire input jacks (J5/J7/J9)
- S2: selects floating or common GND when wire antennas are used at any of the line #2 wire input jacks (J6/J8/J10)
- S3: enables / disables DC voltage used to control and power remote Antenna #1
- S4: enables / disables DC voltage used to control and power remote Antenna #2
- S5: selects which input (1 or 2) goes to the Undelayed channel; it sends the other input to the Delayed channel
- S6: selects Undelayed output, Delayed output, or one of the two Null modes (a or b) that combine the two antenna channel outputs
- S7: controls the relays in Antenna #1 and Antenna #2 that select low-band or high-band frequency range
- S8: selects the delay-line's delay time range: different settings may give best results as frequencies and antenna impedances vary
- S9: turns the DCP-2's broadband output amplifier on (for extra gain when needed) or off

Using the DCP-2 (Refer to Figures 5 and 6.)

1.0 ***** Remotely-Tuned Antennas *****

1.1 Preliminary Set-up

- Connect Antenna #1 to J1 (RF/DC) and to J3 (control).
- Connect Antenna #2 to J2 (RF/DC) and to J4 (control).
- Connect the receiver to J11. Connect DC power (+12V) to J12.
- Jacks not mentioned are not used at this time.

Set R3 and R4 about a eighth of a turn from fully counterclockwise (anticlockwise): e.g. at 8:30 hour-hand pointer position if 7 o'clock is fully CCW. Set R5 to mechanical center (knob pointer at 12 o'clock). R1 and R2 will be adjusted in subsequent procedures.

- Set S3 and S4 to On (up).
- Set S5 to [U=1,D=2] (up).
- Set S6 to Undelayed.
- Set S7 to HB (high-band).
- Set S8 to 150 ns.
- Set S9 to Output Amplifier off.

Positions of these switches may be changed during the procedures to follow. Positions of switches not mentioned may be ignored at this time.

1.2 Tune Antenna #1

Adjust R1 for a peak signal on the desired frequency. If a well-defined peak does not occur, or if it is at the CCW or CW end of R1's adjustment range, change the setting of S7 (the band-select switch) and then re-adjust R1 to get the desired peak.

1.3 Tune Antenna #2

Set S5 to [U=2,D=1] (down). [Note: Antenna #2 must be tuning-range compatible with Antenna #1 as there is only one band-select switch (S7).] Adjust R2 for a peak signal on the desired frequency.

1.4 Select "Weaker" Input as Undelayed Channel

Flip S5 between up and down positions. Leave it on the position that yields the lower level of signal from the dominant station or noise source to be nulled. If there is no observable strength difference, set S5 to a default position of [U=1,D=2] (up).

1.5 Balance Line Levels

Set S6 to Undelayed and to Delayed. Compare the strength of the station to be nulled at each of these settings.

If the Undelayed S6 position has a stronger signal than the Delayed position, adjust R3 until these levels are equal.

If the Delayed S6 position has a stronger signal than the Undelayed position, adjust R4 until these levels are equal.

1.6 Determine S6 position to use

Try both positions (Null-a, Null-b) of S6. If one position yields a noticeably weaker signal from the station to be nulled, leave S6 on that setting, otherwise "default it" to Null-a.

1.7 Nulling

Adjust R5 (90/270 pot) for a null of the dominant station. If an obvious null does not occur, return R5 to mechanical center (12:00) and use R4 (0/180 pot) to look for a null. Once an approximate null has been created, make small interactive adjustments of R4 and R5 to "finish off" the pest station.

Sometimes moving a bit past the best dip on a given pot (e. g. R4) might result in a superior overall null when the slight adjustment of the other delay pot (e. g. R5) is made. Interactive R4 / R5 adjustments should be VERY SMALL as the final null is being approached. It may then help to add some very minor R3 adjustments into the mix as well.

If a reasonable null does not set up, return R4 to 8:30 and R5 to 12:00; then set S8 to one of the other delay range positions and repeat steps 1.5 through 1.7. In most cases, setting S8 to either 150 ns or 300 ns will work.

1.8 Final nulling

By this time, a null should be well-established. At the end, blend in some minor touch-ups to R1 and R2 (slight control-voltage shifts) along with the small R3-R4-R5 final adjustments.

When one or more remotely-tuned loops are the antennas being controlled, slight physical re-positionings of these can also help.

1.9 Amplification

If the desired DX station (left after nulling) is too weak, switch in the DCP-2's amplifier by setting S9 to Output Amplifier On (up). If the broadband amplifier overloads and causes spurious responses, the recommendation is to set S9 back to Off and use a tuned external amplifier (such as the MWT-3) between the DCP-2 output and receiver input.

1.10 Application notes: remotely-tuned active antennas

If the null is too "narrow-banded" (not nulling both sidebands of an AM signal as well as the carrier), set the Q-spoiling switches on the two active antennae to "Low Q" instead of "Normal Q".

To gain experience in using the DCP-2 to phase two remotely-tuned antennas, practice on daytime MW broadcast signals, especially those having a subdominant that, before null attempts, is perceivable behind the dominant station. "Graveyard" channels (1230, 1240, 1340, 1400, 1450, 1490 kHz in North America) are usually prime candidates. Phasing skip signals at night is considerably more difficult, especially above 1 MHz on short-skip where multiple skip modes and rapid changes in arrival angle occur.

2.0 ***** Remotely-Terminated Wire Antennas *****

2.1 Preliminary Set-up

If the two wires of Antenna =1 are a Beverage:
Connect the Vactrol positive lead (wire '1A') to J5.
Connect the Vactrol negative lead (wire '1B') to J7.

Set S1 to FLT only if a ground wire or low-noise counterpoise is tied to J9; otherwise, S1 must be set to COM. (The COM S1 position can be used whether or not J9 has a wire connected to it.)

If the two wires of Antenna =1 are a rhombic:
Connect the Vactrol positive lead (wire '1A') to J5.
Connect the Vactrol negative lead (wire '1B') to J9.
Set S1 to FLT. If the desired pattern and/or noise suppression turns out to be better with S1 on COM, leave it there instead.

If the two wires of Antenna =2 are a Beverage:
Connect the Vactrol positive lead (wire '2A') to J6.

Connect the Vactrol negative lead (wire '2B') to J8.
Set S2 to FLT only if a ground wire or low-noise counterpoise is tied to J10; otherwise, S2 must be set to COM. (The COM S2 position can be used whether or not J10 has a wire connected to it.)

If the two wires of Antenna #2 are a rhombic:

Connect the Vactrol positive lead (wire '2A') to J6.
Connect the Vactrol negative lead (wire '2B') to J10.
Set S2 to FLT. If the desired pattern and/or noise suppression turns out to be better with S2 on COM, leave it there instead.

2.1a Additional Preliminary Set-up

Connect the receiver to J11. Connect DC power (+12V) to J12. Jacks not mentioned up to this point are not used at this time.

Set R3 and R4 about a eighth of a turn from fully counterclockwise: e.g. at 8:30 hour-hand pointer position if 7 o'clock is fully CCW. Set R5 to mechanical center (knob pointer at 12 o'clock). R1 and R2 will be adjusted in subsequent procedures.

Set S3 and S4 to On (up).
Set S5 to [U=1,D=2] (up).
Set S6 to Undelayed.
Set S7 to HB (high-band).
Set S8 to 150 ns.
Set S9 to Output Amplifier off.

Positions of these switches may be changed during the procedures to follow. Positions of switches not mentioned may be ignored at this time.

2.2 Adjust Antenna #1 Remote Termination

Adjust R1 for the best possible rejection of interfering signals and noise from undesired directions. Depending on the frequency range, antenna length, and quality of termination, this pattern alteration may be subtle or it may be quite obvious. Most of the effective range will be in the first two turns of (10-turn pot) R1 from the fully CCW position.

2.3 Adjust Antenna #2 Remote Termination

Set S5 to [U=2,D=1] (down). Adjust R2 for the best possible rejection of interfering signals and noise from undesired directions. Most of the effective range will be in the first two turns of (10-turn pot) R2 from the fully CCW position.

2.4 Select "Weaker" Input as Undelayed Channel: See Step 1.4

2.5 Balance Line Levels: See Step 1.5

2.6 Determine S6 position to use: See Step 1.6

2.7 Nulling: See Step 1.7

2.8 Final nulling: See Step 1.8

2.9 Amplification: See Step 1.9

3.0 ***** Passive Wire Antennas (control voltages not needed) *****

3.1 Preliminary Set-up

Connect Wire #1 to J7 and Wire #2 to J8.

Set S1 to FLT only if a ground wire or low-noise counterpoise is tied to J9; otherwise, S1 must be set to COM. (The COM S1 position can be used whether or not J9 has a wire connected to it.)

Set S2 to FLT only if a ground wire or low-noise counterpoise is tied to J10; otherwise, S2 must be set to COM. (The COM S2 position can be used whether or not J10 has a wire connected to it.)

Connect the receiver to J11. Connect DC power (+12V) to J12 if use of the DCP-2's output amplifier is anticipated. Jacks not mentioned are not used at this time.

Set R3 and R4 about a eighth of a turn from fully counterclockwise: e.g. at 8:30 hour-hand pointer position if 7 o'clock is fully CCW. Set R5 to mechanical center (knob pointer at 12 o'clock). R1 and R2 will be adjusted in subsequent procedures.

- Set S3 and S4 to Off (down).
- Set S5 to [U=1,D=2] (up).
- Set S6 to Undelayed.
- Set S7 to HB (high-band).
- Set S8 to 150 ns.
- Set S9 to Output Amplifier off.

Positions of these switches may be changed during the procedures to follow. Positions of switches not mentioned may be ignored at this time.

3.2 Select "Weaker" Input as Undelayed Channel: See Step 1.4

3.3 Balance Line Levels: See Step 1.5

3.4 Determine S6 position to use: See Step 1.6

3.5 Nulling: See Step 1.7

3.6 Amplification: See Step 1.9

*** Comments on Phasing with the DCP-2 ***

Phasing methods are not "cast in concrete"; numerous working strategies exist. Sometimes there is collateral nulling of DX along with "pests". The likelihood of this occurring is much less if an active loop is phased against an active whip than if two whips or two loops are phased. Useful nulls - those that remove pests without killing DX as well - have been obtained using two loops when the loops have been spaced at least 3.3 ft./ 1 m apart and oriented at right angles to each other.

***** CONSTRUCTION DATA *****

Building the DCP-2 Dual Controller / Phaser

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

This is NOT a beginner's project. Some experience in electronic "homebrewing" is advisable.

1. Gather all necessary parts (see Tables 2, 3, 4). Prepare work area with appropriate tools.
2. Drill out chassis box, in accordance with Table 1.
3. Assemble the BBA-C1 Broadband Amplifier Card to be used for A1. Refer to the Super-MWDX-5 article and to Table 3.
4. Assemble the DLC-B delay-line card in accordance with Figure 4 and Table 4.
5. Mount the following components in the chassis box per pictorials (Figures 5, 6, 7), hole list (Table 1), and parts list (Table 2):
LEFT SIDE: J1 through J10, S1, S2, G1
TOP SIDE: R1 through R5, M1, S3 through S9, G2, G3, G4
RIGHT SIDE: A1, G5, J11, J12

Note that each grounding hardware assembly (G1 through G5) consists of a 4-40 X 0.375" screw, a #4 solder lug, and a 4-40 hex nut. The lug and the nut are on the inside of the chassis box; the head of the attached screw is outside the box.

6. Install remaining electrical components and wiring inside the chassis box in accordance with the parts list (Table 2), the assembly pictorial (Figure 7), and the schematics (Figures 1 through 3).
7. Install knobs on R1 through R5, S6, and S8 per Figure 7 and Table 2.

Table 1: DCP-2 hole-drilling list

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

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

D = Hole diameter in inches.

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

Chassis Box = Mouser # 537-TF-782: 7" X 5" X 3"

LEFT SIDE

Hole #	Comp. Desig.	Description	X	Y	D
1	J3	Ant.1 control-stereo jack	-1.875	1.5	0.375
2	J1	Ant.1 RF / DC - BNC jack	-1.875	0.5	0.375
3	S1	Line 1 GND mode - shaft	-1.125	1.625	0.25
4	S1	Line 1 GND mode - tab	-1.125	1.375	0.125
5	J9	RH1B/FloatGND1-blk banana jk	-0.5	2	0.3125
6	J7	BEV1B - yellow banana jack	-0.5	1.25	0.3125
7	J5	RH1A/BEV1A - red banana jack	-0.5	0.5	0.3125
8	G1	grounding H/W - internal lug	0	2.5	0.125
9	J10	RH2B/FloatGND2-blk banana jk	0.5	2	0.3125
10	J8	BEV2B - yellow banana jack	0.5	1.25	0.3125
11	J6	RH2A/BEV2A - red banana jack	0.5	0.5	0.3125
12	S2	Line 2 GND mode - shaft	1.125	1.625	0.25
13	S2	Line 2 GND mode - tab	1.125	1.375	0.125
14	J4	Ant.2 control-stereo jack	1.875	1.5	0.375
15	J2	Ant.2 RF / DC - BNC jack	1.875	0.5	0.375

TOP SIDE

Hole #	Comp. Desig.	Description	X	Y	D
1	S3	Line 1 DC power swt.- shaft	-2.5	3.875	0.25
2	S3	Line 1 DC power swt. - tab	-2.5	3.625	0.125
3	S5	Swap switch - shaft	-2.5	2.5	0.25
4	S5	Swap switch - tab	-2.5	2.25	0.125
5	S4	Line 2 DC power swt.- shaft	-2.5	1.125	0.25
6	S4	Line 2 DC power swt. - tab	-2.5	0.875	0.125
7	G2	grounding H/W - internal lug	-1.5	2.5	0.125
8	R1	Line 1 tune pot - shaft	-1.25	3.875	0.375
9	R2	Line 2 tune pot - shaft	-1.25	1.125	0.375
10	S6	Output Select switch - shaft	-0.375	2.5	0.375
11	S6	Output Select switch - tab	0.125	2.5	0.144
12	G3	grounding H/W - internal lug	-0.125	4.125	0.125
13	G4	grounding H/W - internal lug	-0.125	1.375	0.125
14	S7	Band Relay switch - shaft	-0.125	0.5	0.25
15	S7	Band Relay switch - tab	-0.125	0.25	0.125
16	R3	undelayed level pot - shaft	1	4	0.3125
17	R3	undelayed level pot - tab	1.3125	4	0.144
18	R4	0/180 deg. delay pot - shaft	1	2.5	0.3125
19	R4	0/180 deg. delay pot - tab	1.3125	2.5	0.144
20	R5	90/270 deg. delay pot -shaft	1	1	0.3125
21	R5	90/270 deg. delay pot - tab	1.3125	1	0.144
22	S9	Amplifier switch - shaft	2.25	4	0.25
23	S9	Amplifier switch - tab	2.25	3.75	0.125
24	S8	Delay Range switch - shaft	2.5	2.5	0.375
25	S8	Delay Range switch - tab	3	2.5	0.144
26	M1	DLC-B delay card mtg. H/W	2.125	1	0.125

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