

DX MONITOR



PUBLISHED BY
THE INTERNATIONAL RADIO CLUB OF AMERICA

DECEMBER 22, 1973 VOLUME 11, NUMBER 13

DX CALENDAR

MON. JAN. 7	0100-0530	KBUC	1310	SAN ANTONIO, TX	5kw	D2
	0300-0330	KPCA	1580	MARKED TREE, AR	25kw	D1
MON. JAN. 14	0200-	WOLC	680	ESCANABA, MI	10/1kw	U1
	0600-0800	WKRT	920	CORTLAND, NY	1kw	U2
MON. JAN. 21	0100-0200	WCSH	970	PORTLAND, ME	5kw	U2
	0300-0400	KABQ	1350	ALBUQUERQUE, NM	5/5kw	U2
MON. JAN. 28	0330-	KFAY	1250	FAYETTEVILLE, AR	1kw	D1
	0400-0500	KCRA	1320	SACRAMENTO, CA	5/1kw	U4
	0515-0545	WTSO	1070	MADISON, WI	10/5kw	U4
THURS. JAN. 31	0645-0700	KBTC	1250	HOUSTON, MO	1kw	D1
MON. FEB. 11	0200-	WHIS	1440	BLUEFIELD, WV	5/5kw	U1
WED. FEB. 13	0545-0600	KLYR	1360	CLARKSVILLE, AR	5kw	D1
MON. FEB. 18	0130-0330	...	1505	THE VALLEY, ANGUILLA	.5kw	
SUN. FEB. 24	0230-0300	KGVO	1290	MISSOULA, MT	5kw	U3

WOLC--NO PROGRAM DATA, BUT 10 KW WILL BE USED. WRITE ROBERT HASLOW, WOLC RADIO, P.O. Box 419, ESCANABA, MI 49829. ARRANGED BY EUGENE VONDEREMBESE FOR NNRC.

CPC REPORTS AND FLASH TIPS

KIWA WAS ON ACCORDING TO BILL CONNOLLY. KTUF WAS NOT HEARD BY BILL SINCE KOA'S CARRIER WAS STILL ON. CHARLEY KELLEHER REPORTS A STATION IDING AS "THE ALL NEW KXXQ" WAS HEARD ON 1300 KHZ FROM 0217-0245 EST 12/10, WITH LIGHT POP MUSIC; DIRECTION SEEMED TO BE TEXAS OR MISSOURI. THE TOWER OF KIFG-1510 COLLAPSED DURING A SNOWSTORM 12/4, ACCORDING TO KEITH MEHL. KSMK-1340 IS STILL USING THESE CALLS, CONTRARY TO FCC INFO RECENTLY. CJCI-620 RELAY NOTED ON 1340 RECENTLY, USING CALLS OF CJPI, PER BRUCE PORTZER, WHO ALSO NOTES THAT CHPQ-1370 IS NOW ON THE AIR, MOSTLY PARALLEL TO CHUB-1570, APPARENTLY NSP. BRUCE HEARD THE KIWA-1550 SPECIAL WITH FAIR SIGNALS, ON PAST 0330 EST. CHPQ IS IN VANDERHOOF, B.C.

KBUC TEST WILL CONSIST OF 30/50/100/400/1000/5000/7500/10,000 HZ TONES, WITH DIFFERENT MODULATIONS, C&W MUSIC, AND MANY IDs. PROGRAM WILL TEST MAIN TRANSMITTER AS WELL AS THE 500 WATT PSA POWER. REPORTS GO TO HOWARD E. HETTINGER, KBUC, Box 20267, SAN ANTONIO, TX 78220. ARRANGED BY ARTIE BIGLEY FOR IRCA.

KPCA--SKIP DABELSTEIN, WHO ARRANGED THE TEST FOR NRC, WILL SUGGEST TO THE STATION THAT THE TEST CONSIST OF A SERIES OF ONE MINUTE TTS, C&W MUSIC, AND CODE IDs. V/S IS DALE SANDERS, KPCA, Box 550, MARKED TREE, AR 72365. HE IS QUITE ENTHUSIASTIC ABOUT THE TEST, SO GIVE IT A TRY.

DAYLIGHT SAVING TIME

ACCORDING TO NEWS REPORTS, CONGRESS HAS PASSED A BILL, WHICH HAS BEEN SIGNED BY PRES. NIXON, AUTHORIZING DAYLIGHT SAVING TIME. IT WILL GO INTO EFFECT ON JAN. 6. PAUL DAPLYN SAYS ONTARIO WILL PROBABLY FAVOR DST FOR ECONOMIC (I.E., TRADE WITH US) REASONS RATHER THAN ENERGY REASONS. ALL REPORTS TO DX ROUNDUPS SHOULD BE IN EASTERN DAYLIGHT TIME. THERE MIGHT BE SOME CONFUSION, SINCE CANADA AND POSSIBLY SOME STATES WILL STILL BE ON STANDARD TIME.

DEC 22 1973

THE INTERNATIONAL RADIO CLUB OF AMERICA-- A NON-PROFIT CLUB DEVOTED TO LISTENING TO DISTANT RADIO STATIONS ON THE BROADCAST BAND (540-1600 KHZ). IRCA IS A MEMBER OF THE ASSOCIATION OF NORTH AMERICAN RADIO CLUBS (ANARC), DEDICATED TO PROMOTING COOPERATION BETWEEN THE RADIO CLUBS IN NORTH AMERICA.

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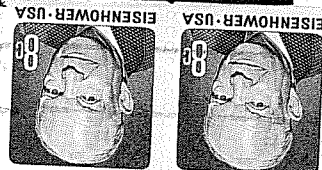
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DX MONITOR IS PRINTED BY SAN DIEGO PRINTERS, SAN DIEGO, CA.

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POWAY, CA. 92064

Address correction requested



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SEATTLE, WA 98103

FIRST CLASS

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DX ROUNDUPS

(2)

EASTERN

Editor: Mike Mitock, 975 Osborn Ave., Lorain, OH 44052

DEADLINES: Tuesday

OF SPECIAL INTEREST:

- 1550 *WSHN* MI FREMONT; r/c 0109 to 0130 12/1 w/MoR and 1 kHz TT's. I believe they always use the vocal selection "Say Auf Wiederseh'n" prior to TT's. They don't use "The Baby Food Capitol of the World" in their final ID anymore. (PRD)
- *****
- 560 WFIL PA PHILADELPHIA; in w/WGCA slop @ 2117 11/18 w/"Bill" and ID "FL Radio".
- 590 KHAR AK ANCHORAGE; mixed w/CKRS w/rr mx, "The Letter" & Elvis Presley 11/18 @ 0135. Much Flutter. CKRS put in a good ID at 0140.
- 600 WPDQ FL JACKSONVILLE; w/ mx and ID at 0151, 11/18. Much flutter.
- 610 KPRC CA SAN FRANCISCO; w/rr mx and much flutter u/WIP @ 0201...WIOD not heard. 11/18.
- 630 WPRO RI PROVIDENCE; mixed w/WMAL. Gave phone # as 241-6161. WMAL had MoR mx. 0210 11/18.
- 790 WTAR VA NORFOLK; in w/MoR mx at 0220 11/18.
- 800 CHRC PQ QUEBEC; Vry good w/FF MoR in null of CKLW 12/3 0148. (JMP)
- 820 WBAP TX FORT WORTH; w/WGY slop at 2202 w/religious prgms 11/18.
- 850 *WYDE* AL BIRMINGHAM; ET-OC 0150 12/3. Atop channel w/ ID. (JMP)
- 880 WCBS NY NEW YORK; off 0130-0430 12/2 to replace auxiliary guy wires. S/on ancmt 0429 12/2. (PRM)
- **KRNV**NE LEXINGTON; 12/3, on spur-of-the-moment NRC DX test via Bob Foxworth notifying KRNV of WCBS' quarterly SP, noted t/in 0233 w/end of ID, into TT, another ID indicating w/50 kw into ND antenna @ 0246 t/out. Monster signal but audio very distorted on their end. New. (TRS)
- 920 WMEL FL MELBOURNE; in briefly 0234 11/25 w/rr. Surfaced again 0330 then buried u/QRM. Think DJ's name was Rick Art. (PRD)
- 930 WJAX FL ATLANTA; Poor 0254 w/rr 11/25. (PRD)
- 970 *WWDJ* NJ JACKSONVILLE; 12/1 atop freq 0050+ w/"mood" mx thru 0100 ID, into NBG mx, while looking for KWOC (MO) NNRG DX, which, if on, not hrd. (TRS)
- 980 WKLM NC HACKENSACK; ET-TT-OC. Off 0000-0500 12/2 (PRM)
- 1010 WINS NY WILMINGTON; Quite good w/s/off 1700 12/3--No SSB, just o/WRC/WILK. (JMP)
- 1050 WHN NY NEW YORK; noted off 0430 12/2. (PRM)
- 1060 *KAMA* TX EL PASO; r/c 0200 11/26 weak w/400 Hz TT's and Voice ID's. (PRD)
- 1070 *WFLI* TN LOOKOUT MOUNTAIN; ET-OC 0300 11/26 way atop channel. (JMP)
- 1090 KAAV AR LITTLE ROCK; u/WBAL w/MoR mx at 2227 on 11/18.
- 1110 WBT NC CHARLOTTE; was noted OFF 12/2 (SM), and ON 12/3 (MM)---What gives here? (JMP)
- 1230**WBVP**PA BEAVER FALLS; Fair on DX TEST w/ID's breaking thru 0207 and 0215 in 0200 0220 monitoring period; like during WCRO test, local WEEK decided to run ET-OC.....this 12/3. (JMP)
- 1260 *WBUD* NJ ++12/3 w/ID for ET on NNRG DX noted 0208, 0214, 0218, t/out. At times sitting atop freq, good sig & much better than WCRO from a few weeks ago. Didn't answer phone when called. New. (TRS)
- 1280 WYVE VA TRENTON; ET-OC 0408 12/1 killed the channel. (JMP)
- 1350 WORK PA WYTHEVILLE; Fair o/u/ WADO mess w/s/off 1716 11/19; No SSB. (JMP)
- WZIX PA YORK; w/ music and ad for "Treasure shop" @ 0107 11/18. (Mmmm, seems this became WZIX back on 10/28!...mrm)
- WZIX PA YORK; Managed to get rpt for this one for call change before pattern change 1633-1640 12/2 u/WHWH local. (JMP)

- 1360 WCHL NC CHAPEL HILL; This one was dominant w/ WDRG off MM 12/3, also two other domestics which were unID, and an unID LA. All around 0300. (JMP)
- 1370 WDEA ME ELLSWORTH; Running nx 0530-37 12/2, o/u/w/WSPD for first time on RS. (JMP)
- WPDR GA MANCHESTER; Very good w/no QRM w/s/off 1729 11/25. New, and plugging the FM on 93.3 (JMP)
- WLOP GA JESSUP; Good w/minor QRM 1730 11/26. Plugging 105.5 FM, s/off w/no SSB. (JMP)
- 1390 WCSC SC CHARLESTON; w/GBS nx at 0130 11/18.
- 1440 WGIG GA BRUNSWICK; Xlnt w/"Wonder Rock" ID 1801 11/25. General rr format. (JMP)
- 1460 WRAD VA RADFORD; Religious prgms @ 2214 11/17, and ID.
- 1480 WLEA NY HORNELL; strong w/s/on just before WBLU 0600 12/2. Little QRM. (JMP)
- 1500 WDEE MI DETROIT; Heard w/ much WTOP QRM at 2200 11/17. MoR mx.
- 1500 *WDEN* GA MACON; Along 11/26 w/ET-rr. (JMP)
- 1510 *WMEX* MA BOSTON; Strong w/ET-OC 0123 11/26. (JMP)
- 1540 CHIN ON TORONTO; Good in mess w/mx in FF, SID in EE, 1630-1640. (PRM) (Date?...mrm)
- KXEL IA WATERLOO; DX is back as this dominates o/WPTR nightly. (PRM)
- WRGM VA RICHMOND; 12/1, w/rr mx, advertising movie "American Graffiti". 1750+ o/WPTR w/good sig. New. (TRS)
- 1550 *WEXT* CT W. HARTFORD; Good w/ET 0159 12/1. OC & voice ID's. Good verifier. CE is John G. Eppler. (PRD)

@@
 THIS WEEKS R/C's:
 4th MM: KAMA-1060 (PRD) WTON-1240 (JMP)
 1st Sat; WSHN-1550 (PRD)

A BIG THANKS TO:
 (JMP)- Jim Poterba, Yardley PA 19067
 (TRS)-Thomas R. Sundstrom, Willingboro, NJ 08046
 -Richard K. Shaftan, N.Y.C., NY 10010
 (PRD)-Paul Daplyn, Ottawa, ON K2A 2N5
 (PRM)-Paul Mount, Teaneck, NJ 07666

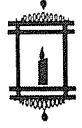


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 At this time I'd like to wish you all a Merry Christmas, and with the coming new Year, let's all hope that one day, there will truly be, Peace on Earth!
 NOTE: Effective with appropriate legislation, times in this column will be E D S T..... Continue to use EST until the time change is official! !. 73, and Happy Holidays!

CENTRAL

Richard C. Evans
 Box 2048, Gary, Indiana 46409

- OF SPECIAL INTEREST:
- 580 WKTY WI LaCrosse, has dropped AN. S/off 0300, 0100 MM. (GBS)
 - 740 CBNM NFLD Marystown, seems in most MM 0430 s/on O Canada, why no WC reports of this? (GBS)
 - 950 KRSI MN St. Louis Park, Drake C&W is NSP except OC tests some MM's. (GBS)
 - 1070 WTSO WI Madison, former 0300 s/off now AN, think SP MM. (GBS)
 - 1260 WNDE IN Indianapolis, former AN-6 now NSP, w/teletalk MM & RR other times. ID "Windy in Indy". Great Nx as only double local strength here. (GBS)
 - 1270 WWCA IN Gary, MM SP now 0250 or 255 til 0630, bad Nx for KTFI 0210 s/off chasers. (GBS) (I hrd SSB 0250 a couple of weeks ago. Shouldn't bother anyone who's not north of Chicago, as pattern is figure 8 NW-SE pattern. 5 miles east of where I live, WWCA is hard to hear at night, yet towers are 1 1/2 miles SE of my pad--rce)
 - *****
 - 540 WYLO WI Jackson, poor w/C&W 1550 11/21(AWO)
 - 560 WQTE MI Monroe, fair w/Beautiful Mx 1607 11/20. (AWO)
 - 570 WMCA NY New York, Long John Nebel w/spot for Empire Ford in Mt. Vernon.



Fair o/u WFAA thru WNAX OC 0310 11/12. (GBS)

600 CFCF PO Montreal, ID (in EE) good o/ORM 0220 11/12. (GBS)

CFQC SAS Saskatoon, 12/1 0249 weak but way o/Cuban w/18 deg. temp. in Saskatoon. RR oldies. (JA)

680 CKGB ONT Timmins, fair u/QRM, possibly RR 0655 11/5. (GBS)

KNBR CA San Francisco, fair w/Nx 0302 11/26. (AWO)

WDBC MI Escanaba, fair w/Nx into RR 1630 11/20. (AWO)

690**WVOK**AL**Birmingham, ET w/jingles and OC 11/13 ID 0145. (BN)

KRCOOR**Prineville, DX Test hrd poor-fair 0334 11/26 w/u XETRA & severe QRN. Hrd only "on the air for..." plus few Morse Code IDs. (GBS)

730 CJNR ONT Blind River, xlnr 12/3 w/lite RR C&W 1632-1637 ad 1638 for Lee's Jewelry in Blind River. (PB) (AWO)

CHIR ONT Leamington, good w/RR 0150 11/1

790 WAKY KY Louisville, good 11/30 w/ad for record 2035, Wx 2036, RR Mx. DJ liked to yell a lot. (PB)

830 KBOA MO Kennett, presumed the one hrd for few seconds very weak about 1645 12/3, WCCO off briefly for CD test. (GBS)

930 WPAT NJ Paterson, slipped in 11/30 1930 for ID, thru WBFN. (PB)

WBFN NY Buffalo, 11/30 w/phone-in talk show on euthanasia 1927. Guest was a prof. from the U. of Buff.

KIMN CO Denver, 11/30 in weak thru (PB) WWJ 1932-1935 w/RR, ads, ID by NJ as "5:35 at Kim". (PB)

WXLW IN Indianapolis, "xmtr test" u/KRSI OC w/WBBF/WKAZ 0330 11/12 (GBS)

WKAZ WV Charleston, poor u/KRSI OC with WXLW/WBBF 0330 11/12. (GBS)

960**KFLN**MT**Baker, ET ending 0245 12/1.TT (BN)

970 CKCH PQ Hull, strong o/WWSW w/RR or EL & FF jingle 0415 11/5. (GBS)

WUPY MI Ishpeming, 12/3 in good w/slogan "people power" 1655, one RR song, s/off 1658, no SSB. (PB)

WDAY ND Fargo, xlnr 12/3 1740-1747 w/MoR Mx, ads, PSA's, and "Perspective at 1745. (PB)

WWSW PA Pittsburgh, good-weak 11/30 with "Spectrum" from CBS 2109. (PB)

980 WRC DC Washington, RR Mx think WSIX was off, but not sure. Called themselves "The Big 98". Was trying for WILK test. 0200-0230 11/28(HM)

WITY IL Danville, weak thru WONE 11/28 w/RR, Jingle, 1950. (PB)

1010 KCHI MO Chillicothe, only poor signal due to strong KLRA, hrd s/off w/SSB 1759 11/14. (GBS)

1050 CJIC ONT St. Ste. Marie, fair w/R&R 1556 11/20. (AWO)

WPAG MI Ann Arbor, fair w/MoR 1611 11/1.

WMKQ MN Minneapolis, professional sounding bootlegger hrd 1840 11/2 w/deep voiced DJ, RR, PSAs, temp for "the loop" & ment. 35W Interstate Highway, ID about 1845& off about 1848, no s/off, just sudden silence (maybe OC, XEG faded in). Maybe FCC walked in? (GBS)

KCAS TX Slaton, good way o/ORM w/jingle and s/off 1845 11/1. (GBS)

WCMS VA Norfolk, good o/WPAG w/"Super (W?) CMS" license plate contest 0625 10/29. (GBS)

1060 WHFB MI Benton Harbor, on 480w. psa with sports, gave loc. in promo as "Twin Cities" good w/KYW/WOIO 0630 10/31. (GBS)

KHYMTX**Gilmer, good on ET 0325 11/5. (AWO)

1070 WAPI AL Birmingham, good w/QRM 0635 10/29 soon faded. (GBS)

1150**WGOW**TN**Chattanooga, good on ET w/RR 0142 11/19. (AWO)

1190 KLIF TX Dallas, poor w/PA 0130 11/19(AWO)

1220 CJRB MAN Boissevain, 11/30 2245-2310 fair to good o/u WGAR w/GG program til 2300, then Nx, sports, Wx and Radio S. Manitoba ID (CKSM and CJRL usually fight it out under

WGAR. (JA) "R. S. Manitoba"ID 0420 12/1 o/XEB (BN)

KRMC OK Midwest City, poor w/XEB/WGAR & 1210/1230 splash, ment. "KRMC Radio" & no more heard (s/off?) 1828 11/14. (GBS)

KZEE TX Weatherford, fair w/buzz w/s/off ment. (still) 250 watts 1828 11/1. (GBS)

1230 WBOK LA New Orleans, 11/27 2135-2136 poor to fair (occ.) w/singng ID and Tammy Tyrell's "Come on and see me". Soul Mx. (JA)

WCUZ MI Grand Rapids, mostly o/QRM w/C&W 0610 11/3. (GBS)

1240 WBEJ TN Elizabethtown, good w/QRM 0520 10/29. (GBS)

1250 CBOF ONT Ottawa, good in FF o/ORM 0604 11/5. (GBS)

1260 WNDE IN Indianapolis, 0320-0340 11/19. Hrd o/WNDR. mod. RR Mx. Called themselves "Windy". Think they went off around 0340. Does this sound right? (HM) (No-rce)

WNDR NY Syracuse, 0330-0400 u/WNDE and after WNDE s/off. Mod. Rock. (HM)

1280 WMRO IL Aurora, s/off very poor 0100 12/3 just after local WWTG. (GBS)

WLMJ OH Jackson, s/on w/SSB (?) strong way o/QRM 0602 10/29. (GBS)

WKST PA New Castle, s/on w/SSB strong way o/QRM 0545 10/29. (GBS)

1300 WMVO OH Mount Vernon, s/on no SSB (?) strong way o/ORM 0600 10/29, no sign of "local" WOOD. (GBS)

1310 WISE NC Asheville, good w/R&R o/WIFE 0142 11/26. (AWO)

1330 WTRE IN Greensburg, s/on fair u/local WLWL OC w/SSB 0559 10/29, then WLWL s/on w/volume way up, lotsa fun. (GBS)

1350 KRNT IA Des Moines, 12/3 in good o/WXCL w/ID 1900, then Nx. (PB)

1360 WKYO MI Caro, "K-Y-O Wx" & "Farm Nx in Depth" good o/QRM 0622 11/5. (GBS)

WKOP NY Binghamton, backwards s/on, anmts then SSB fair-good o/u QRM 0525 11/5. (GBS)

WHBG VA Harrisonburg, EL Mx (?) strong o/WMOV pest, WBAY o/slept (?), 0611 10/29. WBAY on early 11/12 (had 0542 s/on) (GBS)

1370 KWRT MO Boonville, "KWRT Radio Nx" strong way o/QRM 1750 11/14. (GBS)

KOLF MT Butte, fading in and our u/o WSPD w/MoR Mx pres. by Knevil Imports 0135-0200 11/30. S/off 0200 with no SSB. (REM)

1380 WVSA AL Vernon, 0700 s/on to 0703 11/23, hrd s/on, then faded out (w/SSB) KWK permanently off. (HM)

KEWP AR North Little Rock, 0544-0550 11/18 RR Mx, faded out 0550. (HM)

WGUS SC North Augusta, 0600 s/on 11/4, hrd occasionally after that, C&W-gospel Mx. (HM)

WTNN TN Millington, 0563-0600 s/off (?-rce) 11/18 also at s/on a few days later. w/SSB. (HM)

WTVR VA Richmond, 0500 ID 11/11, C&W Mx, weak signal. v/l. (HM)

1390 KHOB NM Hobbs, weak u/WNUS w/sports pres. by Coors Beer, local spot and s/off 1840-1845 11/30. (REM)

1430 CKFH ONT Toronto, 12/3 way o/everything else for short time w/RR Mx 1905 by the "Guess Who". DJ ID 1906(PB)

1450 WROB MS West Point, 11/27 2106-2108 fair on top of GY w/another soulful sound on WROB. Soul Mx. (JA)

1460 WPNX AL Phenix City, finally hrd o/u super-pest KSO 11/30 w/promo for hi-lo jackpot, then into Mx. (PB)

WKAM IN Goshen, 11/30 slipped thru KSO For ID "Country Sounds at WKAM" at 2200, Nx followed. (PB)

WMBAPA**Ambridge, fair w/R&R on special ET, 0129 11/26. (AWO)

1470**KANO**MN**Anoka, ET 12/1 0445-0555 with guitar music. (BN)



DX FORUM

EASTERN
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NO COPY RECEIVED BY PRESS TIME. FJP

CENTRAL
EDITOR: JOHN ZONDLO, SHALES HALL, BOX 120 MUNCIE, IN 47306

Tom Butas-5612 Alta Dena Dr.-Funtsville, AL 35302
Hi all. Not much DX here lately due to working and school. Only 9 veries were received during November. Will be going to Washington, D.C. from January 26-February 2, 1974. Would like to hear from any DXers there along with your phone # so I can call when I arrive. Hope I have time to do some DXing. I will take my 4 band Lafayette portable. With the upcoming Christmas holidays I hope to spend several mornings up. Well thats about all, 73's. Have a merry and safe Christmas.

Dave Milton-2532 E. Stamford-Springfield, MO 65804
Greetings from Springfield! This is my second time I've written to CDKX and I think it's a lot of fun. DX has been good lately, been listening to sunrise and sunset stations - with good results, about 25 new ones since November 15. Three veries in- WYFF, WSOB & WSPA, which was my first from South Carolina. Hope to get more of the 900-1000 vicinity stations this season, they're bugged by so much QRM most of the time it's impossible to hear. That's all I can think of now. Merry Christmas.

R. Fenner-Box 2705-The Pas, NB, Canada R9A 1M5
I've recently started getting up in the mornings to DX and the results have been quite astounding. On November 16 for instance I heard 18 new stations in three and a half hours. I sent a tentative report to a 500 watt Arizona station that I'm pretty sure I received on 1060 kHz. If it's correct and verified I'll send a picture of it to IRCA. Sixteen hundred miles for 500 watts is something to be proud of. Anyway, that's only maybe. By the way, does anyone know how to ve ify CJGX 940? It's aggravating to be unable to verify a 24 hour broadcaster that always comes in 8-9. Let me apologize for a piece in my last Forum report about receiving Radio Ceylon on 1460 kHz. It seems that I'm the victim of a radio that has poor image rejection. Totals have reached 413/50 hrc/vfd to December 1st. 73 and good DX.

Carl Dabelstein-3300 N. 56th St.-Lincoln, NE 68507
The Lincoln Clan was saddened with the loss of fellow IRCAer Bernie Macholan, who passed away in November. Latest veries to come this way have been TGH, KEVIF, EWMR, EGTE, HJEG, LTER, WGBS, LBRJ, WZIS, WJQK, KTEF, WTRC, WILD, WPTO, WBSA, HILR, CPTK, R. Paradise, WFTQ, CHAY, WAKP. This brings the total to 1,498. I hope you are all hearing the DX tests I have been lining up. 73's and the very best seasons greetings.
HAVE A MERRY CHRISTMAS AND A DX-FUL 1974!!!-jz



WESTERN

Michael G. Worst, 3608 Phinney N., Seattle, WA 98103
Deadlines Wednesdays

James E. Critchett, 1103 North Street, Yreka, CA 96097
Somebody has to report from among the West Coast DXers, & it might as well be me. I listen in every night from 0140 ELT to about 0300, and at present am trying to fill in the blanks in my 24-hour log for that period. I have most spaces filled from 0300 to 0900 daily, as a result of listening since May 1st. Don't listen much during the daytime or evening hours. I prefer to read books during the latter period, and read DX pubs and write letters and do some house and yard work, and shopping and taking naps the rest of the day. If I am not off on a trip somewhere. DX notes for the past week include KARY-1310, on at 0900 Sunday 12/8 & KRYS-1360 ident at 0500 w/nx. WHK-1420 ID'd twice at 0521 Mon. 12/10. (Same day for KRYS above.) KOA-850 had open carrier the whole period of the scheduled WRUF DX special; KTAC announced at 0315 they would be testing with tones, so no WRUF heard. KKH-1550 was of course on RS during the first half of the SCHEDULED KIWA DX special, but nothing was heard here 0300 - 0330 on 1550 kc. Maybe

- WBIG NC Greensboro, 12/3 weak thru WMBD w/MoR Mx, ad 1843 that mentioned Greensboro. (PB)
- 1480**WMAX**MI**Grand Rapids, good w/R&R on ET 0035 11/5 & 0210 11/19. (AWO)
- 1490 KTTR MO Rolla, 11/29 1947-48 poor to fair in mess w/Rolla ment. twice in ad. MoR Mx. (JA)
- 1500**WBRI**IN**Indianapolis, fair w/religion on ET 0300 11/5. (AWO)
- 1510 WMEX MA Boston, fair w/ET 0211 11/19. (AWO)
- 1520**KMAV**ND**Mayville, very good on DX after KOMA OC off 0305 12/1. HJLQ QRM 0315. (BN) Fair but fady w/C&W Mx on reception measurement 0300-0350 12/3. (REM)
- 1530 KMAM MO Butler, s/off ment. "Midwest Mo." fair in mess 1800 11/21. (GBS)
- 1540**WANL**AL Lineville, ending ET xint. wxy over ZNS 0240 12/3. (GBS)
- 1550 KKH- CA San Francisco, good briefly w/o WAAY w/CI Mx on CIM Concert Hall 0237 12/3. S/off w/SSB 0259. (REM)
- KNIC KS Winfield, s/on SSB poor/fair with 63w. psa w/CBE/KKJO 0700 11/3. (GBS)
- **WSHN**MI**Fremont, f/c 12/1 (1st Sat) on later than listed, hrd IDs 0215 & 0130. Difficult u/KKJO but readable. (BN)
- 1570 KOLS OK Pryor, in good 11/28 w/Wx and Nx ending 1813. S/off 18/14, address given as Box 66, SSB. (PB)
- 1580 WPGC MD Morningside, in weak thru lots of QRM 12/3 w/promo for a contest, lots of ads, jingles, RR Mx 1609-1615. (PB) 11/28 0646-0647 good and alone w/ID and ment. of Washington, D.C. in local ad. (JA)
- 1590 KSPR AR Springdale, s/off SSB good o/KVGB 1819 11/15. (GBS)
- WTVB MI Coldwater, 11/30 thru pesky WAKR w/RR, in 2005. (PB)
- 1600 WSTL KY Eminence, 11/27 0646 good brietly w/ID and livestock ad. (JA)
- KRFS NE Superior, Nx ending 1805, s/off w/SSB 1814, ment. studios in American Legion Bldg. Good with KCRG/KLAK 12/3. (GBS)
- WNST WV Milton, good o/QRM "WNST time is 4:14" 1614 11/28, into C&W. (GBS)

PER THE LIST:
3rd Mon. KWKY-1150 IA (AWO)

A TIP OF THE HAT THIS WEEK TO:

- JA - JIM ALBRECHT, 3313 N. Weil, Milwaukee, Wis.
- PB - PHILIP BOERSMA, 15570 Cleveland Street, Spring Lake, Michigan 49456
- REM - ROBERT MCKINNEY, RR #2, Clinton, Ill. 61727
- HM - HOWARD MEYERSON, 7429 Teasdale Avenue, University City, Missouri 63130 (Welcome Howard. See you're working 1380!)
- BN - BILL NITTLER, 603 W. 1st, McCook, Nebraska
- AWO - AL OGRIZOVICH, 3836 Sleepy Hollow Lane, Fort Wayne, Indiana 46804
- GBS - GEORGE B. SHERMAN, 104 Pinewood Circle, Rosemount, Minnesota 55068

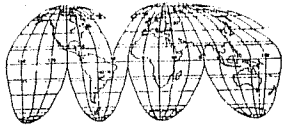
Don't forget--reports after the first of the year go to John C. "Charley" Keleher, 3924 Sleepy Hollow Lane, Fort Wayne, Indiana 46804.

Kudos to Bill Hardy for his excellent forum rpt. in the 12/8 DXM. One more thing to point out, though. After midnight on any morning but Sundays, there are more than a quarter million long-haul trucks moving. When roads are bad, as during this time of year, they need local radios for road warnings, as well as time killers. The article on DST looked great. Must be going. 73.

Western DX editor: Jeff Brasier
10341 Shirley Ave.
Northridge, CA 91324

NO REPORTS THIS WEEK. JEFF.





DXWW

5

DECEMBER 22, 1973

Ron Schatz \$ Box 592814 AMF \$ Miami, FL 33159
AC305-945-4915 eves \$ Deadlines: Tuesdays.



From all of me
To all of you,
Best wishes
For the Holiday Season.
de RFS



This is going to be a fairly large issue, with at least 17 reporters and over 120 items. The "CAT" came home from the P.I., and we have a reporter in Newfoundland - halfway to Europe from the rest of us. \$ I had to miss the 12/10 YV election returns, but I imagine we'll be getting reports on it in the next few issues. \$ On looking over DXWW in the 12/8 issue I come to realize that I've been quite unfair to NRC, their IDXD, and its editor, and I so remorsefully apologise to them for my comments therein. IDXD continues to be worthy competition which I am proud to emulate. \$ In order to avoid postal delays common this time of year I'll be closing out on Mondays for the next few weeks. I never receive much on Tuesdays at the Box anyway, so it's a safe risk. If there's time I'll addend Tuesday entries. \$ I've been requested to indicate arrival times of reports: At present my trips to the AMF are irregular, so I can't do it, but I'll start after my personal schedule changes in January. By the way, an "AMF" address means that reports posted by AIRMAIL are processed directly to the Box, while surface postings are not. There may be as much as 2 or 3 days difference in arrival time as a result - so use airmail where appropriate.

\$ \$

The RFS Haitian Station List

660	4VUE	R. Lumière	P-au-P	0.25
760	4VI	R. Lumière	Cayes	1
780	4VIE	R. Lumière	Jérémie	0.25
840	4VEF	R. 4VEH	C-H	10
860	4VLS	R. Progrès	P-au-P	0.2
910	4VRMN	R. Nouveau Monde	P-au-P	1
955	4VCD	R. Carillon	P-au-P	0.3
1000	4VCPS	R. Cacique	P-au-P	0.3
1035	4VEC	R. 4VEH	C-H	10
1080	4VA	V. Révolution Duvaliériste	P-au-P	1
1146	4VAB	R. Caraïbes	P-au-P	1
1246	4VM	R'diffusion Haïtienne	P-au-P	0.6
1280	4VHW	R. Métropole	P-au-P	0.2
1330	4VW	R. Haïti	P-au-P	1
1385	4VS	R. Port-au-Prince	P-au-P	1
1430	4VGM	M. B. C.	P-au-P	1
1465	4VEA	La Voix du Nord	C-H	0.1
1475	4V..	V. du Peuple Haïtien	P-au-P	0.1
1500	4VOC	R. Select (limited sked)	P-au-P	1.5

The broadcasting language in Haïti is French, but the people in the streets speak Créole. It is characterised by the definite article ("la" or "a") following the noun, the verb not conjugated but left in the infinitive, the use of FF emphatic pronouns in all positions, etc. "U" is pronounced "I" and "EU" becomes "È". "I don't speak Créole" would be "Moin parler pas créole", using FF orthography.

Trans-Pacific DX Roundup

Chas. A. Taylor (Indianapolis) comments on Sabah:

"Concerning the latest controversy over the new 1475 kHz outlet, I'll add my few cents worth which is as authoritative as one can get until a verie is forth coming: \$ I had no DF facilities in Sorso-gen, but I feel safe in saying that this particular outlet is sited in Sabah. Some outstanding reasons come to mind: (1) During tests noted on the outlet in question, modulation was taken from R. Malaysia Kota Kinabalu (RMKK). This modulation was clear, with no distortion or fading as would be expected if the modulation were relayed from shortwave. Conversely, the Tagalog program to the Philippines was

evidently relayed from shortwave as there were numerous short term phase shifts and related distortion, but without the related short term variations in signal intensity. The Tagalog programs were announced as originating from Kuala Lumpur, not RMKK. The implication is that for tests, audio was relayed from RMKK via VHF or UHF link or landline. Knowing the topography of Sabah, that would require the TX site to be near Kota Kinabalu. (2) Tests were audible before LSS Philippines and faded up rapidly at LSS Philippines, implying a TX site East of the Philippines or at about the same longitude as the Philippines (the actual case with Sabah), while signals as far West as Kuala Lumpur faded up somewhat later. (3) Sabah is much closer to the Philippines than any other of the Malaysian states. There is an obvious advantage in siting a TX site as close to the target as possible when the medium wave band is to be used. (4) 50 kW MW outlets from Kuala Lumpur are barely audible in the Philippines. As to the conjecture that the TX is in the U.S.S.R., there are two solid rebuttals to that line of thought: (1) The very first program to the Philippines featured a monologue by the Ambassador to the Philippines to Malaysia. (2) The frequency of the Sabah outlet was noted consistently as 1475,003 Hz while the frequency of the U.S.S.R. outlet was noted as being something consistently distinct. I don't have my notes on hand so I cannot quote the exact value. \$ A report was sent to R. Malaysia Kuala Lumpur for reception of this outlet. Hopefully some firsthand information will be forthcoming. \$ Note that my report in an earlier DXWW mistated the time of the Tagalog broadcast. It is 1100 to 1200 as noted by other DXers".

1080^Q MALAYSIA, Sabah, Sandakan, a QSL & v/1 was received (reception 9/16/73) signed by Henry Kinujim. Says 10 kw & 450' tower. He termed the outlet "new", altho WRTH73 lists Sandakan as 780 kHz. This 780-kHz outlet was never heard & is unlikely due to excessive co-channel interference de DXCC-780 10 kw in Cagsayan-de Oro City (Taylor, P.I.)

33 items from Bisquera (HI), Lobel (San Diego), Oldfield (Alta.), Pejza (San Diego), Peterson (SF - Oakland), Portzer (Seattle), Sanserino (Orange Courty). More on 1475 Sabah:

650 HAWAII, Honolulu, KORL fair 1225 11/21 w/phone in show & "Coral" ID (Portzer) / (Oldfield): ... RYUKYU IS., Okinawa VOA 10/28 1100 poor & weak ID faded quickly. TNX to GK's report.

655 KOREA-N 10/28 0945-1005 bits of audio (screaming & yelling). 1105 stronger, more yelling & talking (Oldfield) \$ Pyongyang only TP heard 12/3 1243 weakly w/YL talking (Pejza)

720? UnID 0950 10/8 JJ girl & JJ songs. C1 channel but weak & faded. Didn't think KUA1 was JJ. Crede???? (Oldfield)

735? KOREA-N? 10/28 1105 weak & seemed // 655. 1115 was definitely not // 655. Man yapping & yelling (Oldfield)

750? JAPAN 0950 10/8 noted the loud grumble that always comes just before JOIB breaks thru. Drowned out all else (Oldfield)

760 HAWAII, Honolulu KGU 10/8 0955 noted S4/WJR w/"Sports Voice of Hawaii" (Oldfield)

830 JAPAN, Osaka, JOBE 1235 12/7 OM JJ, IS. YL w/ID at 1240. Big signal, WCCO nulled (Sanserino), also below:

840^Q AUSTRALIA, Rockhampton, Qsld., 4RK. Nice full v/1 signed by H.D. Humphreys, a regional manager. Report was sent to Rockhampton.

844 GILBERT & ELLICE IS., Tarawa, VSZ1 10/8 0950 S85 (?? -RFS) OM talking in EE & Polyn. lgg playing native songs + US rock like "Surfari" (beach song). Strong at 1030 recheck w/M&F & their regular choir-sung anthem (?), 1036-42 f/out. Seemed to have just an OG, s/off?? \$ 10/28 0840 poor ... 0940 stronger & giving semi-local CKRD-850 trouble. Still strong at 1015. \$ 11/12 0915 noted for a few minutes poor, but no fades (Oldfield)

870 HAWAII, Honolulu, KAIM 10/27 & 28 0906 w/WWL. Poor w/religion (Oldfield) Amen! (RFS)

... JAPAN, 10/28 1045 JJ fair w/some WWL (Oldfield)

890 JAPAN, Sendai, JOHK 1308 12/7 OM JJ, YL DJ w/US style pop mx in JJ. Big signal at tx. UnID 1310+ 12/7. Carrier, no audio. This has been noted this season & last, best after 1400

or LSR. Looping 290-300^U. BRUNEI listed w/ 10 kw (Sanserino for top 2)

1020 TONGA, Nuku'alofa, A3Z 10/28 0845 fair. 0900 better & little fading on a clear channel.

1134 Also 11/12 1000-06 Polyn. mx & YL caught just as KGBS dropped dead at 1000 s/off (Oldfield) RSFSR, location?, R. Moscow JJ service. Weak signal in JJ looping TP received at 1235-50 12/3, ID per IRCA Fgn. Log II. Freq measured at 1250 as 1134.145 kHz. (Peterson)

1178 RYUKYU IS, Okinawa, Japan, VOA monitored 1058-1135 12/3. S/on w/"Yankee Doodle" at 1058-35 & giving VOA ID. Another ID given on hour in EE & CC & into CC talk. At 1115 went to rock mx to 1130 when there may have been a VOA ID in CC & on w/CC talk. Audio was somewhat garbled & w/QRM from local KLOK-1170 & even a little QRM from VOA-1180 Marathon, believe it or not! Also China jamming (see below). Freq at 1105: 1177.993 kHz. Reported.

....+ CHINA, unk. loc. R. Peking. At 1110 12/3, while listening to VOA Okinawa, heard one bar of "East is Red" on chimes. Could not have come from VOA, so probably a jammer; possible source of VOA audio garbling. FBIS lists Hofei for location but that is pretty tentative for me (Peterson for top 2)

1210? HAWAII, Honolulu, KZOO? 11/12 0948 JJ poor w/some WCAU. This was probably KZOO at this time. (Oldfield)

....? UnID 10/8 1100 pips & JJ. Weak & faded quickly. Not Hawaii. Also: 10/28 1130 weak JJ. Both times on a clear channel here (Oldfield) JOOR Osaka widely reported (RFS)

1214? UnID 10/28 1130 het began (maybe a s/on), same direction as a JJ. Any TP's s/on at this time? (Oldfield) Just a guess: Omsk, RSFSR, over the pole (RFS)

1260 JAPAN, Sendai, JOIR probably the one w/M&F in JJ 1155 12/2 atop channel (Portzer)

1420 HAWAII, Honolulu, KCCN 10/8 0939 w/old familiar ID: "At 1420 KCCN, Community service comes first". All Hawaiian mx & lots of QRM. Poor & faded (Oldfield) I remember this one having a studio in a TREE in the International Market Place - no longer (RFS)

1475\$ MALAYSIA, Sabah, Kota Kinabalu heard at 1056 12/3 w/a 15-note theme played on what sounded like a xylophone. This lasted 4 minutes, then nothing for one minute, then man in an Oriental lgg (probably Tagalog). Heard again at 1129. Six pips (got only 3 on tape, did not turn tape over in time). Pgm was nx b'cast w/YL at first, then OM. Sounded like nx of the SE Asian area, kept mentioning many SE Asian cities. Man talked on various subjects till 1155 when signal faded, then came back for a few short seconds w/what sounded like an anthem. Not heard again, report sent (Lobel) \$ Booming in again 12/3 1127-40. Pips at 1130 but much slop at the time (Pejza) \$ In like gangbusters 1145-1200 12/3. At tx an absolutely fantastic signal! This should make it a ways inland in areas w/out 1470/1480 QRM. Give it a try. Freq. at 1145 a rock-solid 1474.995 kHz as it has been for the last month. Carrier dropped out at 1200:20, leaving a tentative YIAG (see Latins) (Peterson) \$ Noted here 11/19, chimes 1058, MoR mx & OM anmts 1100-30, talk 1130-55, instrum. mx to 1159, short anmt. then anthem. The next day I whipped out my copy of "National Anthems of the World", compared the one for Malaysia w/the one on my tape, & lo & behold - they were the same. In my book that's as good as a definite ID, so that gives country no. 43 logged. Signal was fair-poor at best w/lotsa QRM from unID tester on 1470, but managed to scrape together something resembling a report (Portzer) \$ Malaysia 1115+ 12/7, mx, singing, chanting &/or yodeling? Fade at IS, 6 weak pips at 1130. OM w/talk till 1147 (Philippino?). NA, s/off 1203, carrier off 1204. Local KWIZ-1480 tough (Sanserino)

1477 CHINA, Chingtechen, 12/7 1544 tentative. OM in CC talk. Clear & static-free (Bisquera)

1550 AUSTRALIA, Emerald, Qsld., 4QD 10/8 1020 fair w/a play o/u/CBE. WOKJ arrived at 1030 & killed 4QD (Oldfield)

1555 PHILIPPINES, Cebu City, DYLA 12/7 1530, 1'st time this season w/OM in EE playing US Xmas Carols. Some fading & noise. Clear enough to tape (Bisquera)

1580 THAILAND, Ban Pachi, VOA 12/7 1521, in like local (Used my portable Sony to log this one).

Dr. Margaret Mead on energy & other scientific subjects (Bisquera)

Checking on the possibility of Sabah-1475 in Miami, the signal must pass north of the Bearing Straits to get here & several high mountain ranges in Alaska & Siberia. But I had traces of VOA-1178 here once, so I can't rule it out completely.

Trans-Atlantic DX Roundup



Comments from Peter Scarlett in NEWFOUNDLAND:
 "Have recently moved here from Calgary, and am finding the DX to be extremely good. TA's are easier to hear than US stations, though Latin America seems also to be quite tough. Mainland loggings are slow primarily because nulling one station in all but a few cases leaves the desired station partially nulled as well due to the low angular difference inherent in being at the very corner of the continent".
 Peter: The cardioid array is meant for situations like that. And we'll be looking forward to your TA reports, especially after you "log up the top layer of TA's" so to speak (RFS - SE corner of continent).

Note: Reports for GREENLAND appear in the Pan-Am. R'up. Thule-1425 is definitely NOT a TA! (RFS)

51 items from Markewicz (PQ), Oldfield (AT), Scarlett (NF), Shaftan (NYC), and Stanbury (ON):

- 533 ALGERIA, Ain Beida fairly regular here w/AA singing, etc. Noted S9+ 2240-46 11/10 //548.
- 548 ALGERIA, Oran as above, these two always appear together about S4 every night ca. 2200.
- 566 EIRE, Athlone. No ID except in Irish but frequent mention of cities. Irish talk pgm till 2300, then EE C&W pgm till past 2330 11/10.
- ... GERMANY-W, Berlin tentatively heard in GG talking, fading u/Athlone 2300-03 11/10. No intelligible ID. (all above - Scarlett)
- 584? UnID. Strong het noted 12/1 around 0430 wiping out semi-local CFRA-580. Heard on car radio while coming back to the station (M'wicz)
- 611 MOROCCO, Seba'a Aïoun. AA singing & chanting, noted fair to good 2130-35 11/30. No discernable ID on half hour (Scarlett)
- 647 ENGLAND, Daventry, European Svce in RR 0345+. 0330-45 holding tones (IS? -RFS). Fairly regular here, w/little QRM from local CEN-640.
- 665 PORTUGAL, Lisboa very good every night w/MoR & easy listening US mx mostly (abv 2 - Scarlett) \$ Lisboa II assumed 11/11 0530-0600 strong het. 0600-18 chimes & into talking in PP ... def. not SS. Weak w/fading of 40 sec. (O'fld)
- 683 SPAIN, Sevilla very good after 0200 since 11/11. MoR & US R&R. ID as RNE. (Scarlett)
- ...? UnID. Strong het noted while listening to CFTR -580 around 0400 12/1. As a result I started to check the bands & found 1586, etc. (M'wicz)
- 692 ENGLAND, Moorside Edge, Radio 4 fair to poor noted in passing 2336-38 11/10. Usual pgm.
- 710 FRANCE, Rennes (pron. "wren" -RFS) ORTF very good 0530-47 w/FF mx hall "Casino de T6n T6n" // 836, 1205, etc. Good night for France 12/2.
- 719 PORTUGAL, Porto I fair to good every night after 2300. PP singing, little or no talking noted (above three to Scarlett, NF).
- ...? ENGLAND, London. "News Radio 417"... This is the London B'casting Company. 24 hours. Britain's 1'st commercial station is on - using mostly Canadian eqpt - 30% owned by Selkirk Bestg (Canadian). No freq mentioned by our local CJCA-930 (Selkirk). Maybe you know, Ron? (Oldfield) Yep - 719. Also: Capital Radio on 557, on since October (RFS)
- ...9 GERMANY-W, M6nchen sent lice blue & white card for report on 10/8 0020-50. They were relaying VOA (Scarlett). /(Scarlett)
- 737 SPAIN, Barcelona, RNE poor w/US & GB R&R 2245-2300 11/9. Usually better after 0200.
- ... EGYPT, Asy6t very very poor fading u/RNE. Tentative, but AA signing & talking. Not Moqambique? 2255-2300 11/9 (Scarlett)
- 755 PORTUGAL, Lisboa, International Service very, very good. S/off to EE txmsn at 2335, then GG. EE is MoR mx & YL 11/13 amused to note tape played too fast, then sea type theme mx 2344-46 11/10 (Scarlett)
- 764? UnID R&R in PP or SS. Very poor 2350-54 f/out. Maybe Dakar, tho I would expect FF 11/10. (Scarlett) Possibly RSR Sottens?? (RFS)



7

- 773 SPAIN, San Sebastián, RNE, European R&R 2343-0020 11/13. ID as RNE (Scarlett)
- 809 SCOTLAND very good w/Scottish service, nx, wx, etc. Radio 4 2330-45 11/17 (Scarlett)
- 818 ANDORRA very good half the time & u/o/AA half the time. Regular every night in FF. ID as Sud Radio. Cuckoo on the hour (Scarlett)
- ...? UnID AA, Morocco or Egypt, singing & chanting, etc. How can I differentiate between AA stations? I can't understand their ID's, if they appear on the hour (Scarlett)
- Break: Arabic stations tend to ID with the word "Huna ..", their equivalent to "aquí, ici, hier", etc. Egyptian stations usually ID: "Huna Qahira". There are many variations in pronunciation in Arabic: The definite article "'al" is "'el" in Egypt, but "'al" most elsewhere.
- 827 SPAIN, Barcelona, EAJ1, Radio Barcelona is ID. Very good w/US & SS R&R 0030-0112 11/14. Only ID was on hour (Scarlett)
- 845 ITALIA, Roma fairly regular after 0100 w/classical mx until 0130, then MoR after FF nx at 0135. EE nx is from 0200-05 after which more MoR mx. All songs are unID w/no announcers at all apart from nx on hour & half-hour. Nx at 0230 is in SS or PP. 0130-0232 12/4
- 836 FRANCE, Nancy ORTF // 710, not as good tho, 0547-49 12/2 (Scarlett - above 2)
- 872 SPAIN, Zaragoza, EAJ101 very good w/R&R. ID as Radio Zaragoza 0135-37 11/14. ID noted later on the hour at 0200 u/lots of static.
- 917 SPAIN, Madrid, EAJ2 poor-fair w/SS songs 0310-14, then faded 11/21 (Scarlett - above 2)
- 944 FRANCE, Toulouse MoR inst. mx 0448-53 11/24. Surprisingly bad considering power. Faded out.
- 1007 NEDERLAND, Lopik I fair-poor w/US MoR mx. No ID, but def. in Dutch 0200-20 11/26. 0050-0130 11/27 much better than 11/26 (Scarlett +)
- 1025 SPAIN, San Sebastián, EAJ3 very good w/discussion in SS 2338-40. Frequent mention of SS cities, etc. (Scarlett)
- 1034 PORTUGAL, Porto, CSB2 poor w/R&R 0030-37 11/11. Very good 0140-50 w/R&R 11/12. Very good 0555-0600 w/play 12/2 (Scarlett)
- 1043 GEORGIA, Tbilisi tentative. Very poor w/OM in RR faded out 0443-47 11/24. It also seemed to loop correctly tho I have no quadrant fitted for exact degrees (Scarlett)
- 1052? UnID. Strong het noted on CHUM 0550 12/2. (Markewicz, PQ)
- 1061 PORTUGAL, Norte II, CSA8 assumed here in PP w/singing, etc. usually very poor. 2356-59 11/14 faded out quickly (Scarlett)
- 1106 EGYPT, Batra tentative, very poor w/AA singing & chanting 0045-46 11/11 (Scarlett)
- 1169 PORTUGAL, Porto, CSB30 fair. I didn't catch ID, but assumed from loop & lgg. 4 pips on hour. 2357-0005 11/17-18 (Scarlett)
- 1196 GERMANY-W, München very good relaying VOA in RF & Slovak until 0430 when carrier cut 11/24 (Scarlett) § BBC w/Italian tentatively logged here 2155 12/3. According to my Copenhagen correspondent, this one becomes VOA again at 2200, & VOA EE nx was definitely heard at 2205. Re Hauser's comment (12/1) on BBC's World Radio Club not announcing this location, almost all SW DX pgms are subject to various kinds of censorship for political reasons - reasons which are often intricate & not apparent to the casual listener (Stanbury)
- 1214 ENGLAND, BBC Radio One 10/27, some poor audio 0613 lasting 6 minutes (Oldfield)
- 1223 SPAIN, Madrid RNE good to very good noted in passing w/singing 0007-10 11/18 (Scarlett)
- 1250 LIBYA, Tripoli never very good even w/cardioid considering 1 MW, but always there after 2300. News on the hour (Scarlett)
- 1295 ENGLAND, Crowborough, VOA has EE to Europe here at 2100-2200 according to my Copenhagen correspondent, altho for some reason VOA does not list it in their official winter freq schedule. This is the first time (at least since WW2) that VOA has b'cast on MW from England (Stanbury) // (Scarlett) 2:
- 1331 ITALIA & PORTUGAL both very poor & mixing badly w/Italy usually on top 0025-40 11/15.
- 1376 FRANCE, Lille II, ORTF quite poor // other ORTF outlets except for local news 11/11.
- 1394? UnID. Het noted 0410 12/1, no slop (Markewicz)
- 1439 LUXEMBOURG very good every night after 2000 w/harddriving R&R & EE (I like R&R but this is sickening - the DJ's I mean) (Scarlett) § Noted w/SAH 0547 11/18 (Shaftan)

- 1493 FRANCE, Ajaccio very weak but dominating freq. w/MoR mx, many references to Ajaccio & Corsica 0115-25 11/19. Tentative since noise was very bad & I might have misheard (Scarlett)
- 1586 GERMANY-W, Langenburg WDR very good w/talk show & MoR inst. mx 0145-50 12/1. Usually audible every night (Scarlett)

So much for this being a TP-heavy column, hi.

Pan-American DX Roundup

55 items from 14 reporters.

A listen across the dial reveals that both Honduras and Nicaragua are now observing CDT (GMT - 5).

- 525 COSTA RICA, Cartago, R. Rumbo, TICAL 11/30 1024-30 w/singing, mucho guitar mx. Good signal (Flegle, Tampa)
- 540 COLOMBIA, Bogotá, HJKA, Radio Horizonte 12/3 1010 ID'ed w/LA mx. Even most of time w/Nacional (below) (Cartwright, PA)
- ...? UnID. Something heard here even w/& o/HJKA 0955 12/3 w/LA mx. ID 0959 as Radio Nacional, & mention of Puerto Rico. Only Nacional is Argentina & no PR's. Around 0510 was a mention of "Dominicana". Looped about 150°. Any ideas? (Cartwright) This could mean that R. Nac. de Venezuela en Maracaibo has reactivated. R. Perijá (Machiques) is normally dominant here. There's also a Radio ABC in Santo Domingo (RFS)
- 550 MEXICO, Cuauhtémoc, Chih., XEPL presumed the one in SS w/mention of Chihuahua 12/3 1237. Gone by 1241. Last heard in early 1971 on 545, 551, & 555 kHz (Pejza, San Diego)
- 570 COLOMBIA, Bogotá, HJND, Radio Nacional 12/3 0950 good w/WKBN nulled w/SS talk. 2'nd time heard (Cartwright)
- 580+ COLOMBIA, Cali, HJHG, Radio Nacional 12/3. FBIS lists as CP, but heard w/fast mx. Weak 0905 t/in, built up to 0915 when coming in exc. Mentions of Colombia & Nacional between records (Cartwright) First time reported - to my knowledge (RFS)
- 640? VENEZUELA, Puerto la Cruz, YVQO, Ondas Portenas tentative here thru CMQ superpest w/LA mx & talk, but no readability due to Cuba. Looped about 165° 12/3 0935 (Cartwright)
- 645§ PARAGUAY, Coronel Oviedo, ZP19, Radio Caaguazú reported by tape a week after 0830 2/8/73 ID. Still waiting - & not too hopeful (Schatz)
- 650 COLOMBIA, Bogotá, HJXX, Em. Monserrate in poor thru WSM OC 12/3 0925 w/MoR LA mx. Fairly regular (Cartwright)
- 660? HAITI? 11/11 1035-40 quickly faded. Calypso mx & FF ann. Weak on a clear channel (O'fld)
- ... MEXICO, D.F., XERP, R. Juventud good 0930 11/24 w/R&R & ID as "R. Juventud, Canal 66" (Portzer, Seattle) / (Sundstrom, nr. Phila.):
- 660.8 NICARAGUA, Managua, YNAM, Mi Preferida 12/3 noted 0630-0700+ in & out of noise level o/2-3 minute intervals. When up, really good w/Q-M taking out het on 660. ID's seemed to be mostly voiceovers, pop mx. Was my unID of a couple of weeks ago, much better this time.
- 670 VENEZUELA, Caracas, YVLL. ID as R. Rumbos. Fair-good w/SS singing, etc. 0300-15 11/24 (Scarlett, Nfld.)
- 690 CUBA, Habana, CMBC doing very good o/u semi-local CBF 12/4 0330 (Markewicz, PQ)
- ... MEXICO, Tijuana, XETRA noted for contest 1220 11/21, usual "Extra Music" ID (Portzer)
- 710 COLOMBIA, Ibagué, HJFT, Ecos del Combeima 12/3 poor u/WOR w/talk 0941, mentions of Colombia, etc. (Cartwright)
- 740 VENEZUELA, Maracaibo, YVNC, Radio Maracaibo 12/3 good thru unID OC w/LA mx 0950, R. Maracaibo ID's, very steady signal (Cartwright)
- 800 NED. ANTILLEN, Bonaire, PJB w/story of J.C. & how space flight relates to religion in time. Rel mx in bkgd. Good signal 12/3 0415 (Lobel) § Bonaire w/SS pgmg till 0230. Exc. 0330 w/exc. cx to Americas. 0230 EE pgmg w/"Your Wor-ship Hour" 11/9 (Shaftan, NYC)
- 810 COLOMBIA, Bogotá, HJCY, R. Sutatenza 11/30 at 1015 w/many chimes & Radio Sutatenza ID's. Good signal (Flegle) § ID & chimes & "Buenos Dias". 2 OM's, one sounding like he was speaking SS w/a JJ accent, 12/3 0915 (Lobel, nr. San Diego) § Bogotá w/SS pgmg & LA mx at 0302 11/19 (Shaftan)



820 COLOMBIA, Cali, HJED, La Voz del Rio Cauca 12/3 Fair w/WBAP nulled w/end of record & CARACOL jingle 0930. Not heard too often here.
830 GUATEMALA, TGX. Suspect it's this one heard w/CA mx 0950 12/3. Mx & many Fresca spots (At least that's what the spots sounded like they were for) (Lobel)
840 MEXICO, Celaya, Gto., XEFG 1226 12/7 OM SS, Radio Juventud ID. Good o/WHAS (Sanserino)
850 MEXICO, Chihuahua, Chib., XEM &
... MEXICO, Hermosillo, Son., XEUS mixing 12/3 1247-1300. XEUS w/ranchero, XEM w/smoother MoR-type mx (Pejza)
855 NED. ANTILLEN, Curacao, PJCE 11/30 from 1000-1010 w/US pop mx & Dutch announcements (My WRTH doesn't show them on at this time) (Flegle) Curom expanded its schedule (RFS)
860 DOMINICAN REP., Santo Domingo, HILR noted good some AM's after CJBC s/off. Lots of Radio Clarin ID's. 11/29 - seems to be the only one on 860 at this time of AM (Markewicz)
870? UnID 12/3 0920. Something def. there but unintelligible u/WWL w/mostly talk noticed. Unable to get a bearing, but only thing SS in that direction would be Cuba & SA (Cartwright)
890 COLOMBIA, Bogota, HJCE, La Voz de Bogota 12/3 was Fair w/LA mx & chatter between records w/WLS nulled 0917 (Cartwright)
910+ BELIZE, Punta Gorda, repeater mentioned at 0400 c/down anmt on 834 (Schatz, Miami)
920 BELIZE, Belmopan, repeater as above. Tried for both 0400 12/11 - not a trace (Schatz)
970+ COLOMBIA, Maicao, Radio Peninsula is here from 1170. This solves several reporters' mystery in past DXWW's (Schatz)
1010 PERU, Lima, OAX4U, R. America was beating the door down to get in at 1050 12/3. Extraordinary signal!!!! Freq at same time was 1009.-995 kHz (Peterson, nr. San Francisco)
1060 BAHAMAS, West End, GBI, ZNS3 (Still is -RFS) Fair thru KYW OC & Cuban het w/MoR mx. Hasn't been heard in a while, but then KYW hasn't been off for a while, hi (Cartwright) Date & time on this local?? (RFS)
1125 COSTA RICA, San Jose, TISHRB, 0545+ 12/4 OM SS, ID: "Esta es Radio Capital de Costa Rica". MoR LA mx, good (Sanserino, Orange County)
1190 COLOMBIA, Bogota, HJCV, R. Cordillera 12/3 good when WOWO OC was on blocking out WHAM. Lots of good LA mx. R. Cordillera ID heard 0550 (Cartwright)
1200 VENEZUELA, Caracas, YVOZ, Radiotiempo good as usual lately w/LA mx & frequent R'tiempo ID's. No splash from WCAU (Cartwright)
1210? COLOMBIA, methinks HJBE, as this is the only one listed on at the time per WRTH, but no het & this is rep. Off. At 0540 12/3 (C'wright) UnID. Called this definitely Venezuela last week, but came to realise that Cúcuta is right on the border - & quite capable of quoting prices in Bolivares, so dang me. Still dunno if YV or HJ, but R. Internacional in Cúcuta, normally here in the past, is warm (Schatz) § 0710+ 12/7 OM SS, swinging LA mx, good. Very small het against 1210 (Sanserino)
1220 MEXICO, D.F., XEB exc. w/WGAR off! ID's between every record as "X-E-B, La Voz del Jerrande" 12/3 0520 (Cartwright) Should be "La 'B' Grande" (RFS)
....? VENEZUELA, San Fernando de Apure, YVRD 12/3 UnID here thru CHSC, XEB w/SS Frank Sinatra & other records of the same type. ID consists of whistles like on XEOY (4), & then "La Voz ..." something. This around 0530-40 (C'wright)
1265 ST. KITTS, Basseterre, Radio Paradise weak 0905 (shortly after s/on) w/rei pgm & mx in EE. F/out 0920 11/26 (Daplyn, Ont) § Full verie signed by Randolph Edmead, I think. Received here Dec. for report of 1/18/73. 10.5 months, give or take a few days (Sanserino)
1307v CUBA, Cruces, CMHK down here from 1308 as of 12/9 or so (Schatz)
1375? ST. PIERRE ET MIQUELON, ORTF. Weak signal w/classical mx 12/3 0030. Back in NS ex-semi-local ORTF had classical at this time (M'wicz)
1425s GREENLAND, Thule 10/8 1055-1104 mx via CBS & NBC. Weak, but who else has nx from 2 nets & plays soul mx? Page Taylor says they have moved (Oldfield, Alta) § AFRS carrier in/out w/occasional touches of audio looping a little E of N between 0955 & 1005 12/3. No hope for a report yet (Peterson) § Thule was

probably the one here w/mixture of MoR & R&R oldies 1112-35 11/11. Weak & fadey but lgg appeared to be EE. Spot or PSA of sorts 1130 w/YL singing w/guitar accompaniment, followed by what could have been an ID. Believe I caught the letters "...RFS", but that could just be the power of suggestion (Portzer)
1475? NICARAGUA, Chinandega, YNAG, R. Gonsiguina tentative ID of station revealed by Malaysia s/off, noted joyfully at 1200:30 12/3 & fading in & out until total demise by 1230. Took measurement of 1474.911 at 1215, which absolutely rules out an antenna pattern change by Malaysia. F/out time suggests a YN more than any other possibility. How about it, Ron? (Peterson) Very likely, tho seldom noted here often w/the Haitian dominant (RFS)
1490? PUERTO RICO. I would swear that the announcer said several tx "Puerto Rico", e.g., "La Voz de Puerto Rico", but no station is listed there. Cx very poor, so I could be wrong. S/off 0301 after station ID in SS & EE, primary lgg is SS, & format is mainly talk shows & discussions. Little mx (Scarlett, Nfld) There's a new one in Ponce, but I don't recall further info (RFS)
1530 MEXICO, Texcoco, Mex. w/tropical mx & R. Onda ID's 12/3 1157-1215. Strangely enough, 1st time heard ever (Pejza) Padre: See "Domestics" for your mystery (RFS)
1570 MEXICO, Cd. Acuña, Coah., XERT 11/19 0400 noted a super power boost from S2 0400 to 40/S9 for "La Nacional" time slot (Oldfield)
1595 NICARAGUA, Chinandega, R. San Cristóbal strong here eves. Calls its news b'casts "Radio Periódico Impacto" (Schatz)

Foreign Domestic DX Roundup

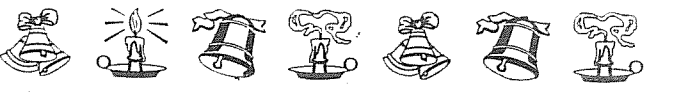
600 ARIZONA, Flagstaff, KCLS in the past has carried Navajo pgm, as I recall, around 1300. Haven't heard this station in a long time, so am not sure of time or if pgm still carried. But it could sound like one heck of a wierd TP! (Peterson) § I picked this one up back in '67 while in Vallejo, & I thot "What the ."
1530 TEXAS, Harlingen, KGBT is our answer to XERP & XEG, pgmg almost all SS into Mexico. Noted here some late AM's, & likely Pejza's mystery (Schatz) § UnID SS u/XEUR poor at 1157, but on top at brief intervals. Heard one "Your Pan-American Station" slogan in EE, but don't know wether it was XEUR or the unID. Same w/brief chimes at 1230 (Pejza)

Merry Christmas (or Happy חג המולד) from:

- Credo BISQUERA; Waianae, HI (ARB w/HQ-140X)
Brian CARTWRIGHT; Johnstown, PA (Ch. Master 6463-A)
Paul DAPLYN; Ottawa, ON (HRO-500, 4' box loop)
Larry, FLEGLE; Tampa, FL (R-388/URR, SM-2)
Albert LOBEL; El Cajon, CA (DX-150A, IRCA loop)
J.A. MARKEWICZ; Argenteuil Co., PQ (receiver?)
John OLDFIELD; Edmonton, AT (Trio-Kenwood 9r-59D)
Father Jack PEJZA; San Diego, CA (HQ-)
Art PETERSON; San Pablo, CA (HQ-180, SM-1)
Bruce PORTZER; Seattle, WA (NC-120/183 hybrid)
Ralph SANSEIRINO; Huntington Beach, CA (BC-946 & 453)
Peter SCARLETT; Torbay, NF (H'kit Mohican GC-1A)
Ron SCHATZ; No. Miami Beach, FL (R-388/URR, MPA-1)
Richard SHAPTAN; New York, NY (receiver?)
C.M. STANBURY; Crystal Beach, ON (receiver?)
Tom SUNDSTROM; Willingboro, NJ (HQ-150, SM-2)
Charles A. TAYLOR; Indianapolis, IN (receiver?)

§ §

GEOMAGNETIC INDICES
Nov. 28-Dec. 4 4 4 1 2 1 3 22
Dec. 5-11 14 8 6 5 12 8 7
CONDITIONS ARE EXPECTED TO BE MODERATELY DISTURBED AFTER DECEMBER 22.



CLUB NEWS

DECEMBER 22, 1973

9

COMMENTARY:

I neglected to mention it last month, but the Chairman of the Board is Father Jack Pejza. As such, he is the official spokesman for the board, and also doubles as the replacement for Carl Dabelstein or myself should the need arise.

Since 6.1-1 did not pass the board, I see little reason to print it in DX Monitor. If you wish a copy of it, just drop a card to me at Box 2048, Gary, Indiana 46409.

The Foreign Membership Fund was originally set up to contain donations for providing free memberships to foreign members. As of now, there is only about \$4.00 in the fund.

Two new editors have been confirmed. Karl Forth will be doing a wide-ranging column on veries, but is restricted from printing lists of veries received. Dave Schmidt, 42 Chelwynne Road, Castle Hills, New Castle, Delaware 19720 will be doing a list of veries signers. He hopes to run this about every three to four weeks. He will very much appreciate your help with names.

By Laws Article V, Section 2, Part 3(c) already includes contest managers as a committee chairman. This, the double inclusion now present is not necessary. Article V, Section 2, Part 1(j) clarifies the wording over what is now present.

Respectfully submitted,

Richard C. Evans
Richard C. Evans, President

11 December 1973

IRCA Financial Report (Unaudited) BALANCE SHEET AS OF AUGUST 31, 1973

<u>Assets</u>		
Cash		\$ 832
Savings accounts		1,840
Advances to Publisher for postage and supplies		189
Accounts receivable		427
Interest receivable		2
Publishing, administrative and editorial supplies		376
IRCA foreign logs		36
Achievement certificates and supplies		104
Total current assets		\$3,806
Mimeograph machines, less accumulated depreciation of \$541		806
Total Assets		<u>\$4,612</u>
<u>Liabilities and General Fund Balance</u>		
Deferred memberships		\$2,328
Accrued expenses		15
Accounts payable		24
Total current liabilities		<u>\$2,367</u>
General Fund Balance (Note 1) -		
Appropriated for foreign membership fund		4
Unappropriated: Balance, August 31, 1972	\$1,947	
Net income, year ended August 31, 1973	294	<u>2,241</u>
General Fund Balance		<u>\$2,245</u>
Total Liabilities and General Fund Balance		<u>\$4,612</u>

INCOME STATEMENT

	Fiscal Year Ended August 31	
	1973	1972
<u>Income</u>		
Dues	\$4,476	\$3,930
Foreign Log Sales	656	--
Auction proceeds	149	294
Interest on savings accounts	82	121
Achievement award sales	29	39
Excess of convention registration fees over expenses	58	85
Donations	13	7
Other	5	13
Total Income	<u>\$5,468</u>	<u>\$4,489</u>
<u>Expenses</u>		
Postage	\$3,184	\$2,808
Publishing supplies used	1,168	1,149
Cost of foreign log sales	363	--
Depreciation expense, mimeograph machines	140	185
Editor's expenses	61	139
TVA expense	43	9
President's expense	39	50
Printing expense-commercial	35	--
Cost of sales, achievement awards	21	29
Devaluation charge on sale of <u>World Radio TV Handbook</u>	--	13
ANARC expense	14	14
Secretary-Treasurer's Expense	16	9
Other	90	11
Total Expenses	<u>\$5,174</u>	<u>\$4,416</u>
Net Income	<u>\$ 294</u>	<u>\$ 73</u>

(1) This account description is used instead of "Retained Earnings". This is consistent with proper reporting standards for a non-profit organization.

The above statements were prepared from the books of account of the International Radio Club of America.

Respectfully submitted,

Carl W. Dabelstein
Secretary-Treasurer

October 1, 1973

President's Report

Recent Board of Directors Activity

Proposal	RLF	NG	PRK	EK	BN	FJP	JZ	Result
6.1-1	O	F	F	F	A	O	O	DEFEATED ¹
6.1-38	F	F	F	F	A	F	F	PASSED
6.1-39	O	O	O	O	A	O	F	DEFEATED
6.1-40	F	F	F	F	A	F	O	PASSED
6.1-41	F	F	F	O	A	F	F	PASSED
6.1-42	F	F	F	F	A	F	F	PASSED
6.1-43	O	F	F	O	A	F	F	PASSED
6.1-44	F	F	F	F	A	F	F	PASSED
6.1-45	F	F	F	F	A	F	F	PASSED
6.1-46	O	F	O	O	A	O	F	DEFEATED
6.1-47	F	F	F	F	A	F	F	PASSED
6.1-48	F	F	F	F	A	F	F	PASSED
6.1-49	F	F	F	F	A	F	F	PASSED
6.1-50	F	F	F	F	A	F	F	PASSED
6.1-51	F	F	F	F	A	F	F	PASSED
6.1-52	F	F	F	F	A	F	F	PASSED
6.1-53	F	F	F	F	A	F	F	PASSED

¹Tie vote broken by President.

Key to symbols: F= Favor O= Oppose A= Abstain
Board of Directors: Robert Foxworth (RLF); Nancy Gantzer (NG); Percy Kesteven (PRK); Ed Krejny (EK); Bill Mittler (BN); Father Jack Pejza (FJP); John Zondlo (JZ).

PROPOSALS:

- 6.1-1 A board resolution confirming tape veries. Submitted by Larry Godwin.
- 6.1-38 Close Savings Accounts at Midland Savings and Majestic Savings and opening new accounts at Union Loan and Savings and First Federal Savings and Loan in Lincoln. Submitted by Carl W. Dabelstein.
- 6.1-39 Authorize Richard C. Evans (President), Father Jack Pejza (Editor in Chief) and Carl W. Dabelstein (S-T) to withdraw money from the savings accounts in the new accounts authorized by 6.1-38.
- 6.1-40 Raise the maximum amount on club checks to \$50 before requiring two signatures. Submitted by Carl W. Dabelstein.
- 6.1-41 Abolish the Foreign Membership Fund. Submitted by Carl W. Dabelstein.
- 6.1-42 Abolish the third class dues structure. Submitted by Father Jack Pejza.
- 6.1-43 For each two bulletins on which a member works as a member of the publishing committee, he will be credited with one additional bulletin on his subscription, to compensate for the unneeded postage. Submitted by Father Jack Pejza.
- 6.1-44 The cost of a surface overseas subscription to DX Monitor be raised to \$7.50 for IRCA members and \$10.50 to non-IRCA members. Submitted by Father Jack Pejza.
- 6.1-45 Approve the 1973 financial report. Submitted by Carl W. Dabelstein.
- 6.1-46 Reword the last sentence of proposal 6.1-1 to read: "We extend the scope of that decision to include the DX Records column, and all award competitions based on verifications, other than those based on time contests." Submitted by Richard C. Evans.
- 6.1-47 Abolish the Offset Study Committee, as established by proposal 5.1-105. Submitted by Richard C. Evans.
- 6.1-48 Abolish the By-Laws Study Committee, as established by proposal 5.1-100. Submitted by Richard C. Evans.
- 6.1-49 Confirm the appointment of Karl Forth as editor of the "Veries" column, as established by proposal 5.2-33.
- 6.1-50 Confirm the appointment of David Schmidt, as editor of the Veries Signers List.
- 6.1-51 Amend By-Laws Article V, Section 2, Part 3(c) by striking out the term contest manager. Submitted by Richard C. Evans.
- 6.1-52 Amend By-Laws Article V, Section 2, Part 1(j) to read: "Shall be responsible for reporting the results of voting by the Board of Directors in the DX Monitor as soon as possible after the votes have been counted." Submitted by Richard C. Evans.
- 6.1-53 Reconfirm Tom Hartloff as Chairman of the New Member Welcoming Committee.



DX CONTESTS

Dr. Michel Breger
7217 Creekside Drive
Austin, TX 78752



10 DX RECORDS

Bruce Portzer - 14056 5th Avenue South - Seattle, WA 98168

CONTEST STANDING FOR DECEMBER

DOMESTIC CONTEST

PRO	AMA NAME	TOTAL	S	B	3	2	1	P	L
1.	Abraham, Mich.	110	43	8	22	15	6	1	2
2.	Keleher, Ind.	103	40	8	22	11	7	2	3
3.	Portzer, Wash.	95	37	21	11	13	15	3	7
	1. Mayhew, Que.	91	38	4	19	11	8	4	4
	2. Sherman, Minn.	88	36	3	17	15	4	5	1
4.	Cowles, Ariz.	84	39	12	11	11	17	6	5
5.	Daplyn, Ont.	70	36	1	11	11	14	7	15
	3. Myer, N. S.	70	35	6	11	7	17	8	6
6.	Seaver, Cal.	63	34	11	4	10	20	9	9
7.	Flegle, Fla.	62	30	3	8	13	9	10	10
8.	Mallon, NY.	60	32	3	9	7	16	11	8
	4. Hogan, Ind.	56	28	2	8	10	10	12	12
	5. Hendricks, Ill.	53	33	1	3	13	17	13	13
	6. Mount, NJ.	51	28	3	7	6	15	14	11
9.	Gantzer, Wash.	44	26	5	5	3	18	15	-
	7. Boyd, Okl.	40	21	3	6	4	11	16	16
10.	Wheeler, Pa.	37	22	6	2	5	15	17	14
11.	Horne, B.C.	36	24	0	5	2	17	18	17
12.	Buehler, Mo.	21	18	0	0	3	15	19	-
	8. Gill, NY.	15	10	1	1	2	7	20	18
	9. Fisher, Ind.	11	8	0	0	3	5	21	-

PRO, AMA refer to the present position in the Professional and Amateur Contests resp, S = states and provinces heard, B = bonus points, 3,2,1 refer to the number of states with 3,2,1 stations heard. P is the overall position in the Domestic Contest, while L refers to the overall position during Nov.

FOREIGN CONTEST

Transatlantic

1. Minnehan, Ohio 6 stations, 6 countries
2. Breger, Texas 2 2
3. Brown, Ont. 1 1

Transpacific:

1. Seaver, Cal. 6 stations, 4 countries
2. Portzer, Wash. 3 3

Americas:

1. Minnehan, Ohio 24 stations, 16 countries
- Breger, Texas 23 14
2. Abraham, Mich. 19 14
3. Flegle, Fla. 17 11
4. Parsons, Que. 6 6
5. Mayhew, Que. 5 5
6. Hogan, Ind. 5 3
7. Seaver, Cal. 4 4
8. Mount, N.J. 4 3
9. Boyd, Okl. 3 2
10. Fisher, Ind. 2 2

* The Foreign Contest remains open and DXers are invited to enter. Judging from the totals, you still have a chance.

* Deadline for updating is the 1st of each month.

DX FORUM-- CONTINUED FROM PAGE 4

next Mon. will be better. Time to wish a very Merry Christmas and a Happy, Prosperous and Healthy New Year with good DXing and verie-collecting to all members of the IRCA and Monitor readers.

Bill Hardy, 303 W. 10th St., Aberdeen, WA 98520

Part Three (hopefully the end!) of my continuing DXF rap on the "power shortage": Consider this: The IMPOSITION of DST upon us all wastes power to the extent that some 1650 daytimers will operate one extra hour a day presunrise with up to 500 watts power apiece! Would mandatory cutback in hours REALLY work? I doubt it; here's why. Broadcasters, being people, dislike being TOLD by government they must or cannot do something. If stns are forbidden to operate between 12 and 6 am, you'd better believe they'll all s/on promptly at 6:00 am Sun. and stay on till 11:59:59 pm Sun. nite, so you might actually LOSE some silent-period time! One DXer advocates another AM freeze. I say the more stns there are, the less revenue each has to operate. Look at Canada, with its tight allocations policy. Metro Vancouver has 9 stns; of them, every one except CBU

FOREIGN VERIFIED LISTING

1. Name, Location CV TSV TFV NA SA EU AS AF OC YR
Most Distant verie, location, dist.
CV is countries verified, TSV is total stations verified, and TFV is total foreign veries. NA, etc. is the number of veries from each continent. YR is year began DXing.

1. G.M. Stanbury, Ont. 115 136h 471 203 73 115 7 25 47 51
5DR-1500 Darwin, Aust. 9750 mi.
2. Larry Godwin, Colo. 63 1250 372 139 152 10 13 2 48 57
3. Bill Willis, Calif. 55 952 135 39 20 17 34 1 18 60
4. Angel Garcia, N.Y. 50 341 109 44 17 42 6 64
Odessa-548 7250 mi.
5. Art Peterson, Calif 45 148 90 48 14 2 14 12
VOFA-1580 Thailand 7367 mi.
6. Bill Racsko, Ohio * 44 254 71 38 13 16 3 1 65
7. Jim Poterba, Pa. 28 648 41 19 11 8 2 1 71
8. Joe Fela, N.J. 26 370 38 19 4 13 1 61
9. R. S. Dildine, Va. * 25 170 31 18 5 6 2 71
10. Frank Wheeler, Pa. 24 1640 70 62 7 2 31
LYA-760 New Zealand 9912 mi.
11. Bruce Portzer, Wash. 24 512 61 27 5 1 12 16 64
2NA-1510 Newcastle, Aust. 7590 mi.
12. Ernie Wesolowski, Neb.* 22 1372 53 40 4 1 1 7 58
13. Larry Abraham, Mich. 22 499 43 24 17 1 1 60
14. Bob Neal, Calif. 22 418 55 34 10 2 1 8 67
4QD-1550 Emerald, Aust. 7600 mi.
15. George W. Jensen, Md. 18 390 27 19 6 2 71
16. Randy Minnehan, Ohio 17 157 20 12 4 4 70
17. Robert Kramer, Ill. * 15 835 25 19 6 70
CBU-690 Vancouver, B.C. 2430 mi.
18. Elliot Strauss, N.J. 15 385 55 3960 mi.
Monte Carlo-1466 3960 mi.
19. Richard T. Eddie, Mo. 14 630 16 12 3 1 67
20. Melville Coffin, B.C. * 14 182 20 6 1 6 7 69
21. JEP, B.C. 12 385 27 64
SRS-725 Surinam 5615 mi.
22. Mike Hardester, Calif. 12 343 28 17 2 5 5 68
23. Morris Sorenson, Ont. 8 403 10 9 1 1 64
24. Jeff Brasier, Calif. 8 262 11 8 2 2 3 72
25. Derek Ford, B.C. 8 170 12 6 1 3 2
26. Tim Saltmarsh, N.H. 6 220 8 5 3 71
27. Greg Hall, N.C. 5 145 3 2 1 58
28. John Johnson, Mont. 4 620 8 5 3 62
KAIM-870 Honolulu 3960 mi.
29. Howard Meyerson, Mo. 4 332 6 5 1 72
30. Robert Buddenbohn, Md. * 4 278 2 1 1 67
31. Thomas White, Va. 4 107 2 2 68
KSL-1160 Salt Lake City 1842 mi.
32. Rich Segalas, Calif. * 4 62 2 1 1
33. Brian Cartwright, Pa. * 4 37 2 1 1 70
34. Allen Denny, Wisc. * 3 93 1 1 1 72
35. Mark L. Fisher, Ind. 3 72 1 1 72
36. Kevin Braun, Mich. HJDK-750 Colombia 2539 mi.
37. Frank McCoy, La. GKX-1130 Vancouver, B.C. 2200 mi
38. John Keleher, Ind. KHX-1070 Los Angeles 1850 mi.
39. Mike Hogan, Ind. KFI-640 Los Angeles 1815 mi.
40. Mark L. Fisher, Ind. KHX-1070 Los Angeles 1810 mi.
41. Gregg Allinson, N.C. LVEH Cap Hatien, Haiti 1100 mi.

An asterisk after your name means it's time to update. The mileages for the above were calculated using a world globe and a piece of string, unless the member himself submitted it. So if some of the numbers seem a little weird that's the reason why. The next few DX Records columns will be as follows:

1. Domestic heard records - featuring best Delaware, Georgia, and Hawaii. Deadline is three weeks from date of this issue.
2. Foreign heard records - featuring most distant catch. Deadline is five weeks from date of this issue.
3. Domestic verified records featuring Maryland, Minnesota, and South Carolina. Deadline to be announced.
4. Foreign verified records from North and South America. Deadline to be announced later.

That does it for this go around. Merry Christmas, Happy New Year and best of DX in 1974. Lets hope the energy crisis gets bad enough that stns have to drop AN programming but not so bad that we don't have any juice to operate our receivers, hi.

is NSP! Finally, let's stop writing letters advocating cutbacks in hours of the very stns we're all trying to log, and instead search our neighborhoods for power-wasting forms of QRM - AN neon signs, defective lighting, appliances w/noisy motors, TVI-causing TV sets. And blinking Christmas lights! hi. THAT'S IT!!! 73.

(11)

All times are in Eastern Local Time, except checks with underlined times. In these cases, the check is run based on standard time throughout the year. This, of course, is subject to possible change if national daylight time is adopted.

FIRST MONDAY
0015-0030 *WGHN 1370 MI T
0020-0040 WERN 1160 MI T
0045-0100 WEVA 860 VA TM
0100-0110 *KDLM 1340 MN T
0115-0130 *KNOX 1310 ND T
0130-0145 *KFSA 950 AR T
0205-0220 WCLD 1230 WI T
0215-0230 *KCUZ 1490 AZ T
0220-0235 *KDXU 1450 UT T
0230-0245 *KUPK 1050 KS T
0230-0245 *KVSL 1450 AZ T
0235-0250 *KETA 1340 AR T
0245-0300 *KGHL 790 MT T
0300-0315 *KQIK 1230 OR T
0300-0330 KDBM 1490 MT TCQ3
0315-0330 *KVAC 1490 WA TC
0330-0345 KGRQ 980 MT TQ3
0400-0430 *WVXL 1450 KY T
0415-0430 *WVXL 1450 KY T
0545-0600 *WVXL 1450 KY T
0550-0600 *KLUF 1420 TX T
0600-0615 *KNIT 1280 TX TC
0615-0630 *KIUN 1400 TX T
0620- *KEEE 1230 TX T
0630- *KHAF 1340 NM T
0645-0700 *KDLA 1010 LA T
0645-0700 *KGR I 1000 TX T
0645-0700 *KREH 900 LA T

FIRST TUESDAY
0000-0015 *WHGR 1290 MI T
0010-0030 *WVNL 1240 NJ TQ3%
0015-0030 *WVPL 610 VA T
0030-0045 *WIOS 1480 MI TC
0030-0045 *WJMA 1340 VA T%
0030-0045 *WEEZ 1590 PA T
0100-0115 *KOG 1400 IA T
0100-0115 *WEEO 1130 PA T
0115-0130 *KVOL 1330 LA T
0115-0130 *WMTD 1380 WV MQ2%
0130-0145 *KCLR 1530 TX T
0145-0155 *KWRF 860 AR T
0215-0220 *WFBG 1290 PA T
0600-0615 *KVLV 1240 TX T
0615-0630 *KSLX 1230 TX T
0630-0645 *KDDD 800 TX T
0635-0645 *KDBS 1410 LA T
0645-0655 *KIRT 1580 TX T
0645-0700 *KWEL 1600 TX T
0645-0700 *KRME 1460 TX T

% - Tuesday after 1st Monday

FIRST WEDNESDAY
0115-0130 *KJSK 900 NE T
0130-0145 *WGRA 790 GA M
0205-0220 *KLN 1400 NE T
0215-0230 *WFLI 1070 TN M
0230-0245 *WVFC 1360 AL t
0330-0345 *WVPE 1310 AL M
0345-0400 *WVAG 1470 TN t
0415-0430 *KANE 1240 LA T
0545-0600 *WUCR 860 TN t

FIRST THURSDAY
0100-0110 *KIKS 1310 LA Ta
0130-0145 *WABO 990 MS T
0200-0215 *WZYX 1440 TN M
0215-0230 *WYXI 1390 TN T
0230-0245 *WVSB 1230 FL t
0245-0300 *WVPA 1240 MS t
0330-0345 *WVTC 1450 KY T
0345-0400 *WVSV 1520 IN T
0400-0415 *WVLO 1480 KY T
0415-0430 *WVKB 1540 KY T

WATO 1290 TN t
0430-0445 *WLSI 900 KY T
0445-0500 *WTKY 1370 KY T
0600-0615 *KTCB 1470 MO T
a - 1st or 2nd Thursday

FIRST FRIDAY
0000-0015 *WHEG 1360 VA T%
0005-0015 *WJLK 1310 NJ T%
0015-0030 *WWEZ 1360 NJ T%
0030-0045 *WVSL 1520 NJ T%
0045-0100 *WVTR 920 NJ T%
0100-0115 *WVJZ 1460 NJ T%
0100-0130 *KPCS 1410 AR T
0200-0215 *WVFF 1360 MS t
0205-0220 *WVVO 1280 MN T
0215-0230 *WVPH 980 VA M
0225-0235 *KORN 1490 SD T
0245-0300 *KDI 1230 ND T
0315-0330 *WRBN 1600 GA T
0330-0345 *WVNT 1310 TN T
0345-0400 *WVGS 1430 GA T
0445-0500 *WVGO 900 AL t
0500-0515 *WAMY 1580 MS t
% - Friday after 1st Thursday

FIRST SATURDAY
0000-0015 *WVLE 1170 NY T
0030-0050 *WVGR 1590 MI T
0100-0105 *KAFE 1480 TX T
0105-0120 *KNIR 1360 LA T
0115-0130 *WVSH 1550 MI TM
0115-0130 *KMYO 1050 AR T
0115-0130 *WERN 1460 MI T
0115-0130 *KSNY 1450 TX T
0120-0130 *KWFA 1500 TX T
0200-0215 *WVDE 850 AL T
0215-0230 *WVCO 1420 VA M
0215-0230 *KDOK 1490 TX T
0230-0245 *KSLM 1400 MO T
0300-0315 *WVBY 1240 MI T
0315-0330 *WVIR 1550 KY T
0315-0330 *WVRV 1460 KY T
0330-0345 *WVSV 1570 VA T
0400-0415 *WVBN 1340 KY T
0430-0445 *WVZJ 1440 KY T
0445-0500 *WVPT 960 KY T
0445-0500 *WVDO 1310 KY T
0500-0515 *WVMO 1360 WV T
0515-0530 *WVMT 1580 KY T
0515-0530 *WVLI 920 TN T
0530-0540 *WVDD 1420 VA T
0530-0545 *WVAIN 1270 KY T
0530-0545 *WVHT 1440 WV T

FIRST SUNDAY
0005-0020 *WVFC 960 NC T
0100-0115 *KCLI 1380 IA T
0115-0125 *WVMA 970 IL T
0130-0145 *KCGR 1240 SD T
0130-0145 *KJLT 970 NE TMQ2
0145-0200 *WVDA 1190 IL T
0245-0300 *KICX 1360 NE Tm
0245-0300 *KGF 1060 SD T

SECOND MONDAY
0000-0015 *WVLI 960 CT T
0020-0030 *WVGM 1500 NY T
0030-0045 *WVAT 960 PA T
0100-0115 *WVLS 790 NY T
0100-0115 *WVMO 840 AL t
0115-0130 *WVGO 1400 MI T
0115-0130 *WVAG 1340 MI T
0115-0130 *WVCA 990 IL T
0130-0145 *KHUB 1340 NE T
0130-0200 *KXRA 1490 MN T
0145-0200 *WVNY 680 NY T
0145-0215 *WVSK 1450 IN T
0200-0215 *WVQB 1300 NY T
0200-0215 *WVWC 1420 VA T

0245-0300 *WVAD 1450 KY T
0400-0415 *WVAK 1560 IN T
0415-0430 *KPRK 1340 MT TQ2
0430-0445 *WVNY 1390 KY T
0445-0500 *WVGO 1370 KY T
0445-0500 *WVCO 1400 KY T
0500-0530 *KBEI 1310 MT T
0545-0600 *KZNG 1340 AR T
0550-0600 *KXIV 1320 MO T
b - MM with week of 15th in it

SECOND TUESDAY
0000-0015 *WVET 1320 VA Tm
0015-0030 *WVTF 1400 KY T
0015-0030 *WVNT 990 VA T%
0030-0045 *WVSN 1240 NJ T%Q3
0030-0045 *WVGM 1540 VA T%
0030-0045 *WVGA 560 VA T%Q3
0030-0045 *WVFM 1240 KY T
0030-0045 *WVJM 1340 VA T%
0030-0045 *WVHL 1410 KY T
0030-0045 *WVEZ 1590 PA T%Q3
0045-0100 *WVEM 1420 TN M
0045-0100 *WVSL 1520 KY T
0100-0115 *WVTR 1450 VA Tm
0100-0115 *WVHG 1360 VA T
0100-0115 *WVRL 1450 VA T%
0100-0115 *WVVB 1440 NJ T%
0100-0115 *WVWD 1560 KY T
0145-0200 *KCHR 1350 MO T
0145-0200 *KDIO 1350 MN T
0145-0200 *WVNL 1490 PA T%
0200-0215 *WVFG 1450 NJ T%
0215-0220 *WVFB 1290 PA T
0215-0220 *WVWZ 1380 NJ T%
0245-0300 *KRAL 1240 WY T
% - Tuesday after 2nd Monday
% - Tuesday after 1st Monday

SECOND WEDNESDAY
0130-0145 *KDPH 1370 IA T
0145-0200 *WVHB 1400 TN T
0200-0215 *KTYN 1430 ND T
0210-0220 *KOVE 1330 WY T
0215-0230 *WVPL 1070 TN M
0215-0230 *WVAT 1590 AL TM
0230-0245 *WVMO 1010 MS T
0245-0300 *WVEJ 1240 TN T
0300-0315 *WVAD 1230 AL t
0345-0400 *WVOC 1450 TN T
0400-0415 *WVNR 1250 FL M
0415-0430 *WVAM 1340 MS T
0500-0515 *WVAM 860 AL M
0550-0605 *KARV 1490 AR T

SECOND THURSDAY
0000-0015 *WVIG 940 MI T
0000-0015 *WVOT 1370 PA T
0110-0120 *KEDD 1550 KS T
0145-0200 *WVLO 1370 GA t
0200-0215 *WVPC 1430 FL t
0210-0220 *KOVE 1330 WY TQ
0215-0230 *WVNS 1410 FL T
0245-0300 *WVDE 850 AL T
0300-0315 *WVHB 1240 GA T
0330-0345 *WVMS 1570 GA t
0430-0445 *WVPE 1240 KY T
0500-0515 *WVPL 1360 KY T

SECOND FRIDAY
0000-0015 *WVRI 1580 NJ T
0005-0015 *WVHG 1360 VA T%
0015-0030 *WVJK 1310 NJ T%
0015-0030 *WVBE 1360 NJ T%
0015-0030 *WVSL 1520 NJ T%
0030-0045 *WVMT 920 NJ T%
0045-0100 *WVJZ 1460 NJ T%Q2
0100-0115 *KXIT 1410 TX T
0115-0130 *KOKX 1310 IA T
0130-0145 *WVKG 710 AL t
0215-0230 *WVLI 1360 AL t
0215-0230 *KVFJ 1230 IA T
0230-0245 *WVNS 1260 MS t
0245-0255 *WVBL 1470 AL t
0315-0330 *WVPA 1400 AL t
0400-0415 *WVRI 980 GA t
0530-0545 *KSPR 1590 AR T
% - Friday after 1st Thursday

SECOND SATURDAY

Table with columns for time slot, call letters, power, and state. Includes stations like WGHT, *KCHA, KNLV, *WCCR, *KDRB, KJEF, *KCHA, KDCE, KPUN, *KLMX, KBLL, @WYWY, @WSIP, @WHIC, KLFM, @WGRK, @WMOR.

SECOND SUNDAY

Table with columns for time slot, call letters, power, and state. Includes stations like *KSCJ, *KCCR, *KALO, WGWR, @WLCK, @WVJS.

THIRD MONDAY

Table with columns for time slot, call letters, power, and state. Includes stations like *WKSJ, *WVBS, @WBEQ, @WYME, WDXY, *WPTN, *WTON, *WCON, *KXCB, @WGAU, *WHSC, *WDIC, *KWKY, *KWLA, WJPF, KHDN, *WNYR, KGPC, *KIMM, KRZY, *WAAA, *WFPJ, *WORV, *KUDI, *WETS, *KLUC, *KDHI, *KXCL, *WKIG, *KXIR, @KVOP, *WTZE, @KRIO, @KWKC, @KRGV, @KVOU, @KTXJ, WOKZ, @KAJN, @KYAL, @KWRD, KOLS.

b - MM with week of 15th in it

THIRD TUESDAY

Table with columns for time slot, call letters, power, and state. Includes stations like WTHU, WEET, @WPED, *WGAP, WGAI, @WABH, @WANT, WRGM, @WAHT, *WSEV, *WVOP, WSGO, WELK, @WFTR, *WHOL, *WGTT, @WREL, KOLY, WFIG, @WUGS, *KLGL.

Table with columns for time slot, call letters, power, and state. Includes stations like *WLOV, *WEHH, *WVNA, *KERX, WPPA, WSGO, *WMGR, @WAZL, WFFG, WBDU, *WEAS, WAWZ, *WPEH, KFGO, XEK, @KVIC, @KMBL, @KCOZ, @KIBL, @KWMC.

Monday after 2nd Monday, Tuesday after 3rd Monday, January and April, March and September, Tues. closest to 15th, July and October.

THIRD WEDNESDAY

Table with columns for time slot, call letters, power, and state. Includes stations like WMPL, @KPSO, @KDLK, @KPEL, @KLIC, @KEEN, @KVRK, KZRK, KFMO, @WFLI, WFBF, @WHSY, *KULY, KKIT, @WTVS, @KPAR, @WPIX.

THIRD THURSDAY

Table with columns for time slot, call letters, power, and state. Includes stations like WNMJ, *WJZM, *WCPM, KGHS, WTIQ, KEDD, KEST, @WBOP, WLKS, *WHII, WPRY, @WJOE, @WAGF, *WDNT, @WTYL, @WHOC, WSSO.

THIRD FRIDAY

Table with columns for time slot, call letters, power, and state. Includes stations like WMCS, @WCDL, @WWDR, *WVOS, WERA, *WFOY, *WSKE, *WQDE, @WMBG, WRAR, *WMSN, @WBBK, KEYJ, *KABR, WLET, *KGAK, @WAAK, WPRY, WMSL, @WJLJ, WKSJ, KTRI, KFOR.

Friday after 3rd Thursday

THIRD SATURDAY

Table with columns for time slot, call letters, power, and state. Includes stations like WGHT, @KNET, *KAMI, KARB, *KEYJ, KCNI, *KAHL, KSRC, @KIZZ, @KALG, @KRRR, *WDDY, KTKT.

THIRD SUNDAY

Table with columns for time slot, call letters, power, and state. Includes stations like WSYL, *KFPW, @KDXI, @KSYL, @KINE.

FOURTH MONDAY

Table with columns for time slot, call letters, power, and state. Includes stations like @WCOM, @WCBG, *WTOP, *WNGA, @WKBO, *WNAK, *WSRC, @WPPA, WSGOE, @WGOE, *WTON, *KQJB, *KPUR, WMMM, KROX, KWBY, @KOZA, @KIKN, @KIXY, @KPDN, @WRAK, *KLMS, @WHAT, *WCVS, @WECB, WMOC, WLDY, @WFEC, *KGIW, WBIR, *KAMA, KOBE, WVEV, @WARM, *WMTS, *WBEK, *WXCCL, WPAZ, *KLDW, WCCR, *KTNN, KLTZ, *KLEO, WAMS, @WHUN, @WJDY, *WFLN, *WANV, *WHLW, @WEDD, *KTHS, KCRV.

FOURTH TUESDAY

Table with columns for time slot, call letters, power, and state. Includes stations like @WPED, @WAYB, @WABH, @WAHT, WELK, *WSGO, @WHOL, @WRCP, *WJOHN, WNOC, *WHMT, WBDU, WLLK, *WTAX.

12

/ - Tuesday after 3rd Monday
 / - Tuesday after 4th Monday

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KEY TO SYMBOLS

DECEMBER 22, 1973

@ Regular check per monitoring company that contributed to list
 * Regular check per consistent reception and/or verie.
 T Station checks with cycle tone
 t Station checks with dial tone
 M Station checks with music
 O Station checks with unmodulated open carrier
 C Station gives IDs in Morse Code
 Q Quarterly check (every three months)
 Q1 1, 4, 7, 10 months only
 Q2 2, 5, 8, 11 months only
 Q3 3, 6, 9, 12 months only
 m bi-monthly, odd months (1, 3, 5, etc.)
 n bi-monthly, even months (2, 4, 6, etc.)
 L Check made the last week of the month
 Other symbols are defined in the list.

FOURTH WEDNESDAY

0000-0010	*WCFV	1180	VT	T
0105-	@KPSO	1260	TX	T g
0105-0120	@KDLK	1230	TX	T g
0100-0105	*KCOG	1400	IA	T
0110-0125	@KPEL	1120	LA	T g
0115-0130	*WCOW	1290	WI	T
	@KLIC	1230	LA	T g
	@KBEN	1450	TX	T g
0130-0145	*WGEA	1150	AL	t
-0100-0130	*KRWB	1410	MN	T
0130-0145	WHMT	1190	TN	T
	KVRC	1240	AR	T
0200-0210	*WLSM	1270	MS	t
-0215	*KFTI	1560	MO	T
	WJHO	1400	AL	t
0205-0220	@*KPAR	1190	NM	T g
0215-0230	@*WFLI	1070	TN	M
0230-0245	*KHAG	1300	AZ	Tm
0245-0300	WJAK	1460	TN	t
0330-0345	@WBSR	1450	FL	t
0345-0400	@WSNT	1490	GA	t
0400-0415	WROB	1450	MS	t

/ - Wednesday after 3rd Saturday

FOURTH THURSDAY

0015-0030	*WAZA	1360	GA	T
	@*WNPV	1440	PA	T
0030-0045	@*WYNS	1150	PA	T
0100-0110	WKEN	1600	DE	T
-0115	@KWGH	1290	TX	T
0110-	@KLLA	1570	LA	T
0135-0150	*WDWS	1400	IL	TQ1
0145-0200	WBCA	1110	AL	t
0150-0205	*KRG1	1430	NE	T
0200-0215	WLAN	1390	PA	T
	*WJFC	1480	TN	T
0215-0230	@KOBE	1450	NM	T
0245-0300	@*WHLY	1530	AL	t
0300-0315	@*WTCB	990	AL	T
0315-0330	@*WAOC	1420	FL	T
0400-0415	@WBML	1240	GA	M
0430-0445	@*WRGS	1370	TN	M

FOURTH FRIDAY

0000-0015	@*WCDL	1440	PA	T g
	@*WWDR	1080	NC	T g
0015-0030	@*WSKE	1050	PA	T g
0045-0100	WRAR	1000	VA	T g
0130-0145	*KGV1	1400	TX	T g
0145-0200	*KSIW	1450	OK	T
0200-0215	*KGAK	1330	NM	T
	KWYK	960	NM	T
0215-0230	*KPOS	1370	TX	T
0230-0245	*WPRN	1240	AL	M
0245-0300	@WOKS	1340	GA	t
0300-0315	WSHF	1290	AL	M
0315-0330	WIGG	1420	MS	t
0645-0700	KWYR	1260	SD	T

/ - Friday after 3rd Thursday

FOURTH SATURDAY

0100-0115	KLEE	1480	IA	TL
0115-0130	*KBIZ	1240	IA	TIQ1
0130-0145	*KERS	1340	AR	T
0140-0155	*WAED	1370	KY	T
0200-0215	*KWEW	1480	NM	T
0215-0230	*KIML	1270	WY	TQ3
0230-0245	KNWS	1090	IA	T
0345-0400	KBBA	690	AR	T
0530-0545	*WPTN	1550	TN	T

FOURTH SUNDAY

0100-0115	*KCRW	1480	IA	T
0615-0630	@KDXI	1360	IA	T/
0640-	@KSYL	970	LA	T/
0650-0700	@KINE	1330	TX	T/

/ - Sunday after 3rd Saturday

26th of the Month

0145-0200	KOTS	1230	NM	T
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27th of the Month

0345-0400	KWYS	920	MT	TQ2
-----------	------	-----	----	-----

30th of the Month

0100-0115	KGMO	1550	MO	T
0115-0130	KOUR	1220	IA	T

A word about quarterly checks..... With the new F.C.C. rules governing external frequency checks, at least two monitors have eliminated quarterly checks. Instead, their checks are now conducted every month. It would seem other monitoring companies will do the same.

CREDITS

Special thanks go to Russ Edmunds, Ernest J. Wesolowski, Tom Sundstrom, James E. Critchett, and Dave Schmidt for supplying information used in compiling this list. Information was also obtained from both DX Monitor and DX News.

Several monitoring companies also contributed their list of regular checks. Unfortunately, several monitors who have been helpful in the past failed to reply this year. Another monitor is currently re-scheduling all his checks and will submit his new schedule at a future date. If sufficient new information is received, an updater will appear.

Any corrections, additions, deletions, etc. should be sent to -
 Joseph Fela
 150 Robert Place
 South Plainfield, N.J. 07080



Return with us now to those Thrilling Days of Yesteryear...

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RADIOPHONE STATION
W. K. A. A.
IOWA MUTUAL LIABILITY INSURANCE CO.
Complete Automobile Insurance Protection
CEDAR RAPIDS, IOWA

BROADCASTING SCHEDULE... 278 METERS
MONDAY 11:00 P. M. TO 1:30 P. M. SPECIAL MIDNIGHT
WEDNESDAY TO FRODO'S
FRIDAY 6 P. M. TO 9:30 P. M. THURS 12:30 A. M. SAT 2 A. M.
OTHER SPECIAL PROGRAMS AS ANNOUNCED

Gentlemen: The program being broadcasted by your station are very much appreciated and I wish to express my appreciation of the program received on _____ Date _____ Hour _____

I especially enjoyed _____

Name _____
Address _____
City _____
State _____

OLD TIME RADIO-- A TOPIC WHICH IS BECOMING AN EVER INCREASING SUBJECT. ANYONE KNOW WHAT THE CURRENT CALLS ARE FOR WKAA? THE VERIES FOR XER AND JOAK ARE FROM THE COLLECTION OF BILL RAY, PRESIDENT OF ASWLC. KRES IS NOW KKJO. THE CROSSWORD PUZZLE IS, I BELIEVE, FROM AN OLD COPY OF RADEX.

OLD VERIFICATIONS OR ARTICLES FROM OLD RADIO MAGAZINES WILL BE REPRODUCED HERE FROM TIME TO TIME. IF YOU HAVE ANYTHING WHICH YOU'D LIKE TO APPEAR IN OLD TIME RADIO, SEND US A GOOD XEROX COPY.

Station calls are to be filled in as shown so that the name of a state will appear reading downward in each of the four vertical columns.

1	2	3	4	5	6	7	8
9				10			
11				12			
13		14		15		16	
17				18			
19						20	
21	22			23		24	
25		26		27			
28				29			
30			31				
32		33		34	35	36	
37				38			
39				40			

- Across
- Radio entertainments.
 - On 1200.
 - Around zero.
 - A railway system.
 - City is a man's name.
 - On 1420.
 - Only chain station in the state.
 - Ditto.
 - On 1500.
 - Shares with three others.
 - A state university.
 - Only station in the state.
 - Last three of a CBS.
 - A red outlet.
 - Owner has two in same town.
 - Town named for imaginary line.
 - Three 100-watts in this town.
 - Last three letters indicate state.
 - Another red station (Reverse).
 - On an odd frequency.

- Down
- A blue outlet.
 - Owned by a great store.
 - Owned by a public utility (reverse).
 - Commission is clearing wave for this.
 - A Columbia on the coast.
 - On 1000 (jumbled).
 - One of two NIG in the state.
 - A synchronized station.
 - A Catholic school.
 - 101 watts.
 - Down but not out.
 - On 1370.
 - Only station beginning with these letters.
 - On 1310.
 - Last three of municipal station.
 - First three of six Canadians.

Correct calls all appear in the February RADEX. Get the answers to these three problems to us by March 20th and receive a copy of the April issue or the radio map free. Subscriptions will be extended one issue when request is made.

A Difference in Watts

Rudolph Kure, 301 Warner St., Cincinnati, Ohio, reports that a verification from KGGM, Albuquerque, N. M., shows an increase in power from 250 to 500. Many other readers call our attention from time to time to discrepancies between the power shown in RADEX and that shown by letterheads of stations. In their publicity matter, stations invariably give their power at their maximum, the daytime rating, while this magazine uses the night rating with the plus mark showing greater power during daylight. Mr. Kure reports a new police broadcaster in Shreveport, La., KGPY with 100 watts on 1574 keys, operated by the Louisiana State Bureau of Identification.

WELCOME TO MEXICO
The gateway to a friendly people
Greetings from Radio Station
The Sunshine Station
75,000 watts power-665 Kilocycles, Full Time
Villah Guadalupe, Coahuila, Mexico.
Del Rio, Tex. U. S. A.

CORREOS - MEXICO
TARJETA POSTAL

Mr. Bill Ray,
5811 College Ave.,
Oakland, Calif.
U S A

Mr. Bill Ray,
5811 College Ave.,
Oakland, Calif.
U S A

(Tokyo Central Broadcasting Station)

Tokyo,
Dec. 21, 1933

Dear Sir:

The Tokyo Central Broadcasting Station thank you for your kind communication, and take pleasure in confirming your reception of Station JOAK on the morning of Nov. 26, 1931.

Hoping you will enjoy our future programs.

Yours sincerely,
W. G. Tombs
TOKYO CENTRAL BROADCASTING STATION

SPECIAL DX QSL 1965 ANNUAL CONVENTION
INTERNATIONAL RADIO CLUB OF AMERICA
1360 Kilocycles 5000/1000 Watts
KGB
SAN DIEGO, CALIFORNIA
This Will Verify Your Reception Of Our Station On
Joe... 185631210 PBT
Signed C. M. ... C.E.

(Radio News, November 1928)

SCAN THE ETHER WITH The New "222"

SHIELD GRID

STROBODYNE

Combining the proven, hyper-sensitive STROBODYNE systems with the tremendous amplification obtained through the use of the new shield grid tubes, in a special circuit making full use of their extra high amplification factor.

The "222" STROBODYNE
Latest Design by
R. E. LACAULT, E.E.

leaves far behind all other types of sets. Its performance has amazed experienced listeners and it has come through hard tests with flying colors.

SPECIFICATIONS

- 1-QUALITY OF REPRODUCTION
Through the use of high grade audio transformers connected with a push-pull amplifier, and the best method of detection, the most remarkable fidelity is obtained. The result will amaze the most critical musicians.
- 2-VOLUME
The tremendous amplification of the shield grid tubes produce unusual volume which may, however, be regulated to any desired value through a special control.
- 3-SELECTIVITY
The very high impedance of the shield grid tube, combined with the special circuit used, makes the tuning very sharp without affecting the quality.
- 4-SENSITIVENESS
The sensitiveness of this receiver is so much greater than that of any existing set that it is beyond comparison. There is NO LIMIT to the range. The noise level is the only factor affecting it.
- 5-SHIELDING
Entire R.F. system completely shielded.
- 6-EASE OF CONTROL
Only two dials, a volume control and sensitiveness control are used--making the set easy to operate.
- 7-STROBODYNE SYSTEM
The STROBODYNE method of reception--a time-tested and proven circuit--is incorporated in the set, causing very weak signals to produce a tremendous response.
- 8-MATERIAL
Only the very best of tested parts are used in the entire set, insuring permanent high efficiency.
- 9-DESIGN
The new "222" STROBODYNE is designed by R. E. Lacault, E.E., well known creator of several famous circuits, whose reputation is a guarantee of the high grade radio engineering incorporated in this set.

Read how to build it in the September issue of Radio News and Blue Print No. 63

We are equipped to give you

PROMPT MAIL ORDER SERVICE

All genuine parts carried in stock

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R. E. LACAULT, INC.

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Long Distance Phone SUBQUETAWNA 7095

see you saw it in RADIO NEWS

LIBERTY BROADCASTING SYSTEM

KRES ST. JOSEPH, MO.

Now 5000 WATTS

KRES Now 1550 TOP OF YOUR DIAL

Top in Entertainment

Q & A

BRUCE PORTZER

14056 5th Ave. South, Seattle, WA 98168

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DECEMBER 22, 1973

Soviet scientists clear sunspots of disrupting radio

from DEV MURARAKA in Moscow

Excerpt from THE NATAL MERCURY

Q: How can I log every state and province?
 A: By knowing which stations to listen for at which time and on what frequency.

Q: How can I find that out? Are there any lists or anything that can tell me where and when to listen?
 A: Not at the moment, but if Bruce gets his way there will be one beginning with the next Q&A column. It will consist of a state by state and province by province listing of what club members feel are the easiest stations to hear in his area for the states and provinces listed.

Q: Great idea! How can I help?
 A: By sending Bruce a list of the most regularly heard stns from each state and province, the best time to hear them, and reception quality (always good signal, hrd only when MSP local on same freq. is off, hrd only when the moon is full, etc.). In order to distribute the workload, states and provs. will be listed a few at a time. The first batch will include Alabama, Alaska, Arizona, Arkansas, and Alberta. Deadline will be one month from the date of this bulletin. Subsequent listings will be in alphabetical order and you can either send your tips in one bunch at a time or by sending in each state, prov., D.C., and territory all at once.

Incredibly enough, this week's column is going to include a few questions and answers from members.

Paul Mount sends a number of questions, including the following:

What are the geomagnetic indices? How do they help DXers? And why are they listed for past dates? It seems like that would be as good as listing DX Tests after they were broadcast.

Geomagnetic indices are a way of measuring what's happening in the ionosphere, which in turn is a result of what's happening on the sun. If the index is low, under about 5 or so, for several days, there will usually be pretty good TP and TA cx. If the index is around 10 or 20, cx are usually average or blah. If the index is high, 30-40 or more, northern stations will be blocked out and stns in the southern U.S., LA, and DU will dominate. The indices are listed for past dates for the same reason weather cx are reported after your picnic is rained out. Science hasn't yet come up with an accurate way of predicting them. However, you can find out current cx by tuning to WWV on 5, 10, and 15 MHz at 18 and 45 mins. after each hour. Among other things the guy will mention an "A index" or "Alpha index". This is what you want to know. Further info can be found on pg. 2 of the IRCA Foreign Log.

What is a het?
 A het is a whistle or tone hrd when your rx is picking up two or more stns on different but close freqs. The pitch of the het is the difference between the two freqs.; i.e., a stn on 1270 and one on 1269 will produce a 1 kHz tone in your rx.

Where have the IRCA conventions been held before 1972?
 Toledo in 71, Vancouver BC in 70, Chicago in 69, Los Angeles in 68, Denver in 67, Milwaukee in 66, San Diego in 65, and Atmore, AL in 64. Eight people were at the Atmore convention, the club's first!

Thomas White asks:
 How can I get more DX Records report forms?

Idle beef, gasoline, heating oil, and long underwear, DX Records report forms are in short supply right now. However, this shortage is not a result of Phase IV and there is an easy solution to the problem. I've asked HQ for some more. So those of you who have sent SASE's please hang tight a little longer. You'll be getting some forms shortly. As a reminder, anyone who wants DX Records rpt forms, send an SASE to myself or HQ.

Do you have a question about DXing, IRCA, broadcasting or receivers? If so, feel free to write. If I don't know the answer I'll find someone who does. Please enclose an SASE for a personal reply. 73 and gudx.

Two Soviet scientists, Y. Birfeld and A. Trantsov, claim that the sun is unfairly blamed for all disturbances in radio communications. They say the cause is right here on earth.

They make this claim after years of research on the state of the ionosphere at a Soviet scientific station in the Arctic Circle. Until now, it has been generally believed by scientists that the upper part of the earth's atmosphere, the ionosphere, was affected only by solar sunspots.

Light quanta from the sun strike the atoms of gases in the atmosphere and break them up into free electrons and positively charged ions. Thus an ionized layer, the ionosphere, is created from which radio signals can be bounced. Changes in the sun, shown by sunspots, would disrupt the ionosphere and hence make radio communications difficult.

But in recent years scientists have been puzzled by contradictions in this theory. For instance, there are long periods, sometimes lasting for several years, when solar activity is extremely low but contrary to the accepted theory disturbance in the ionosphere are great.

Completely calm

On the other hand, sometimes the sun is covered by sunspots and shattered by explosions but the ionosphere remains completely calm.

What then is the mystery? The Soviet scientists one day took a radar picture of the ionosphere, where an electronic storm was raging. The sun was calm that day, but there was an earthquake in New Zealand. On another day, when the sun was calm but the ionosphere stormy, the Villarrica volcano in Chile had begun to erupt. Thus, with the help of these and similar coincidences the scientists concluded that seismic processes inside the earth were powerfully affecting the upper atmosphere.

Their explanation for this is that during an earthquake the surface of the planet quakes and a light ripple, or wave, runs across it. These seismic oscillations give rise to acoustic waves which spread upwards in an almost vertical direction.

The higher the wave goes the louder the density of the atmosphere and this means that the velocity and amplitude of oscillations of the air particles caused by the acoustic wave grow. When these waves reach the ionosphere they cause the disturbances blamed previously on sunspots.

A-m stereo may get trial run

If the Federal Communications Commission gives the go-ahead, a New York metropolitan area radio station will test transmission of a-m stereo sound. By adding a special modulator to be supplied by Electrospace Corp., Westbury, N.Y., station WWDJ will be able to broadcast any stereo recordings in a format compatible with present a-m receivers.

Though a-m stereo is an old idea, it's never been tried. That's why any expansion of this approach to other broadcasters will probably need FCC permission. Present rules do not ban a-m stereo; however, neither do they recognize it.

According to Arnold M. Wolf, president of Electrospace, a broadcaster with a complete fm stereo studio and an a-m studio can equip his a-m side for stereo for about \$20,000. And a listener would need two radios, one tuned slightly above the frequency and one slightly below. However, Wolf foresees a new market for a-m radios, should the stereo idea take hold. Such a radio would have two I-F strips and two audio channels.

CHRISTMAS -- A TIME FOR SOME TO TRY TO WHEEDLE A NEW RECEIVER OR PAIR OF EARPHONES FROM PARENTS OR WIFE-- A TIME FOR OTHERS TO HAVE THE OPPORTUNITY TO DX LATE INTO THE NIGHT WITHOUT WORRIES ABOUT SCHOOL OR WORK THE NEXT DAY-- A TIME FOR ALL OF US TO EXTEND THE SPIRIT OF FRIENDSHIP TO ONE ANOTHER. THIS TIME OF YEAR GIVES EACH OF US THE OPPORTUNITY TO RENEW THE SPIRIT OF THE SEASON-- JOY AT BEING ALIVE AND ABLE TO ENJOY GOD'S GOOD GIFTS TO US-- THANKFULNESS FOR OUR FRIENDS-- SADNESS AT THE RECOLLECTION OF THOSE WHO ARE NO LONGER WITH US-- WILLINGNESS TO SHARE OUR KNOWLEDGE AND TALENTS WITH THOSE WHO HAVE COMMON INTERESTS. DESPITE OCCASIONAL ANIMOSITIES AND DISSENSIONS, MOST DXERS SHOW THAT THE IDEALS OF THIS CHRISTMAS SEASON MEAN SOMETHING TO THEM THROUGHOUT THE ENTIRE YEAR. ON BEHALF OF ALL THE SAN DIEGO PUBLISHING COMMITTEE, ALL THE EDITORS OF DX MONITOR, AND ALL THE OFFICERS OF IRCA, MAY THE WARMEST GREETINGS AND BLESSINGS OF THE SEASON BE WITH EACH OF YOU. FJP

WJRL RADIO STATION
 CALHOUN CITY BROADCASTING COMPANY
 X P. O. BOX 605
 CALHOUN CITY, MISS. 38916

NATIONAL HRO 500 COMMUNICATIONS RECEIVER

by Paul Daplyn

16

INTRODUCTION

This is a completely solid state rx using a phase-locked frequency synthesizer to produce 52 crystal-stable frequencies required to convert incoming signals in the 5 kHz to 30 MHz range to the tunable i.f. of 2.75 MHz to 3.75 MHz. An up conversion mixer is used to convert frequencies below 4 MHz to 26 MHz plus signal frequency to eliminate "holes" in the rx's coverage at the various i.f. frequencies. If the synthesizer was replaced by the Drake SPR-4's conventional HFO generation, 52 crystals would be needed! The HRO 500 uses only five crystals; two for the frequency synthesizer, the rest for the BFO, 50 kHz calibrator and 26 MHz oscillator. All the transistors and crystals plug into sockets and no printed circuits are used. Power requirements are 110 Volts AC, 220 volts AC, or 11 to 16 volts DC (great for DXpeditions).

USE OF CONTROLS

AF and RF gain Controls: self explanatory.

Bandwidth: selects 500 Hz, 2.5 kHz, 5 kHz and 8 kHz bandwidths

Dial Lock: locks the VFO capacitor but allows main tuning dial to move for calibrating rx.

Passband Tune: operates only in 500 Hz and 2.5 kHz bandwidths. Adjusted for best readability of desired signal when there's lots of slop. This control is effective on low pitched TVI. Tuning is not critical. However, on the 500 Hz bandwidth selectivity is so sharp that it normally cuts down on an AM signal's readability too much unless this knob's tuned to the station's upper sideband. If conditions warrant, I zero beat the BFO with the station's carrier and tune in a portion of the USB or LSB for improved readability. The SPR-4 lacks passband tuning.

Rejection Tune: This control is used to reject hets from adjacent stations. Also effective on high pitched TVI. When hets are a problem use this control to reduce them to a minimum, being careful not to reject your station also. Tuning this knob is extremely sharp and takes a while getting used to.

Band BE: selects tuning ranges of preselector and synthesizer.

AGC Threshold: This selects AGC off, on and insertions of 10, 20 or 30 dB attenuation in the RF stage. This rx has minor cross modulation problems with strong locals on the BCB.

When this problem occurs, using the attenuator will eliminate the problem. Also useful for extending S-meter readings to a maximum of 80 dB over S9, to make more meaningful comparisons between extremely strong stations and very weak ones. The AGC is on in all positions except "off."

Function: This is used to select rx off, standby, SSB, AM, and calibrate. In calibrate, both the 50 kHz calibrator and BFO are on. Zero beat the BFO with the calibrator marker, using the main tuning dial. If the marker is not positioned properly use the dial lock, locking the VFO capacitor, and move the dial until it indicates the marker's frequency. Release the dial lock. When using the dial lock, there are stops to prevent the dial from being set to the wrong marker.

Main Tuning: Consists of the 50 kHz per revolution dial and two concentric knobs. One knob's directly coupled to the dial; the other is a 5:1 vernier. This dial has five windows with numbers that indicate to the nearest 10 kHz. As the dial rotates the numbers change. There's also markings every 1 kHz. This dial is far easier to read than the Drake SPR-4 because the bandsread is 1/4 inch per kHz and 21 feet per MHz. The dial rotates ten revolutions from stop to stop.

Synthesizer Tune: This moves a cylinder behind a horizontal window indicating which 0.5 MHz tuning range the rx is at. To read the rx's frequency, simply add the frequency in MHz indicated in the horizontal window to the main tuning dial in kHz. If the synthesizer has not been tuned properly the rx's audio is muted and the red phase lock warning lamp will remain lit.

Preselect Tune: Basically, this control may be treated as a calibrated antenna trimmer. Care must be taken, particularly on the BCB, that the preselector dial roughly reads the incoming signal's frequency or you may have serious problems with images or cross modulation. This control is the most difficult to use properly. Several weeks' experience is needed to use it effectively on BCB. SW is much easier as the signals there aren't as strong. Tuning is quite sharp on the lower frequencies.

SPECIFICATIONS

The image rejection of this rx is good (minimum of 50 dB). Above 500 kHz, sensitivity is good (an optional preselector is required below 500 kHz). It always measured better than 2 uV for 10 dB S+N/N (signal generator set to 30% 400 Hz modulation connected to the rx's 50 ohm antenna input). I didn't check sensitivity using the rx's high impedance antenna input, but LN's and loops usually worked better on this input than the 50 ohm input. Most rx's only have a low impedance input. Selectivity is excellent. The 500 Hz bandwidth (+250 Hz 3dB down) is 3 kHz wide (+1.5 kHz) 60 dB down and the 2.5 kHz bandwidth (+ 1.25 kHz 6 dB down is 6.5 kHz wide (+3.25 kHz) 60 dB down. The 5 kHz bandwidth (+ 2.5 kHz

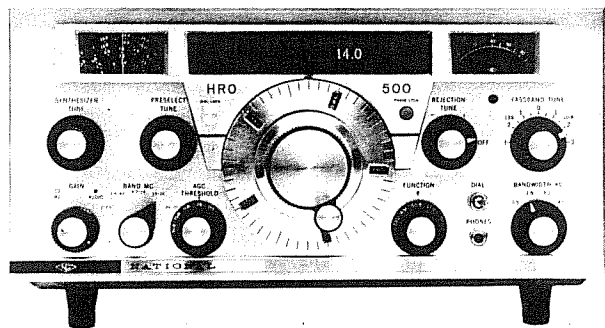
6 dB down) is 13 kHz wide (+9 kHz) 60 dB down and the 8 kHz bandwidth (+ 4 kHz 6 dB down) is 30 kHz wide (+15 kHz) 60 dB down. The 500 Hz and 2.5 kHz filters are tunable - a great feature when slop is fierce. The rejection tune control (notch filter) with a +/- 10 kHz range around the 230 kHz i.f. is capable of rejecting hets with a minimum of 50 dB. Frequency stability of this rx is like the Rock of Gibraltar. National quotes a maximum drift of 100 Hz per day (including a +27% change in the AC mains voltage)! I didn't have a variable auto transformer to verify this spec but I believe it. Frequency readout accuracy is within 1 kHz over the entire 5 kHz to 30 MHz range (covered in sixty 500 kHz bands). The S meter is EXTREMELY accurate. It's calibrated with S units and dB above 1 uV. When the signal generator's output changed in 10 dB increments, the meter said so. This rx has much inputs and outputs for every conceivable use with any accessory equipment. To sum up, National's specs are accurate with one exception. The rx weighs 38 lbs., not 32.

BASIC THEORY OF OPERATION

The RF stage has three tuned circuits instead of the usual two for better image rejection. Frequencies below 4 MHz are converted up to 26 MHz plus receiving frequency, then fed to the "first" conversion mixer. A 26 MHz crystal oscillator signal is fed into the up-conversion mixer while the "first" mixer is injected by the frequency synthesizer in 500 kHz increments. The variable i.f. (2.75 to 3.25 MHz) from the "first" mixer is amplified by a tunable i.f. stage (four tuned circuits), then mixed in the "second conversion mixer" with a VFO having a 500 kHz tuning range, giving a fixed i.f. of 230 kHz. This i.f. goes through selectable fixed or tunable passband filters and rejection filter, then amplified by three i.f. stages. AM signals go via the AM detector while CW, RTTY, and SSB signals are mixed with the crystal controlled BFO via the product detector. These detected signals are finally audio amplified. The rx has reduced sensitivity and image rejection below 500 kHz because the r.f. stage is bypassed. Frequencies above 4 MHz bypass the up-conversion mixer and go to the "first" mixer.

SUMMARY

The HRO 500 sells for \$2800 in Canada. Obviously it's meant for the serious SW or BCB DXer or ham for whom price is no object. However, Mark Twain's old cliché "you get what you pay for" still rings true. I think this ruggedly built rx is one of the best and most versatile available. National has manufactured this rx since 1961 so some second hand rx's may show up in the next few years. For more info write Max J. Fuchs, National Radio Company, 18 Stone Place, Melrose, MA 02176.



LONG ISLAND PRESS
NOVEMBER 30, 1973

DST NO BOON TO LI RADIO

Hour earlier KOs 3 in morning

Year-round daylight savings time will knock three Long Island radio stations off the air for an hour every morning and will limit the broadcasting of some others.

The bill approved by the House authorizes the Federal Communications Commission to grant a special exception authorizing most of the nation's sunrise-to-sunset stations to go on the air one hour before sunrise.

But there are 243 stations, including three on Long Island, which are on the same frequencies as stations in Canada, Mexico or Bahamas . . . and international agreements block Congress from changing the rules.

The three are: WGSM in Huntington, which shares a frequency with a Toronto station; WSUF in Patchogue, which shares one with Montreal, and WLIX in Islip, which shares one with Saskatchewan.

Another 125 radio stations, including WHLI in Hempstead and WTIE in Min-

cola, are on the same frequencies as other stations in the United States — WHLI with Cleveland and WTIE with Buffalo.

"I'm sure the FCC will grant us some relief," said Jerry Carr of WHLI. He said the FCC may permit them to go on the air an hour before sunrise with less power during that hour.

The only 24-hour AM station on Long Island, WGGB in Freeport, will not be affected by daylight time. FM stations also are unaffected by the new time.

There are 1,650 daytime-only AM stations in the United States which are allowed under present rules to go on the air an hour before sunrise. They are not affected by daylight time.

Although the stations which lose an hour in the morning recover it at the end of the day, the operators are concerned because their largest audience is during the morning commuter hours and listeners who turn to a 24-hour station may not come back.

Part II § Cardioid Theory and Propagation

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In Part I of this series we found out that cardioid arrays are not unidirectional loops, rather they are an old idea widely used in marine direction-finding equipment. Empirical research has demonstrated that these versatile, but tempermental, instruments can, at least in theory, permit the DX'er to hear almost anything on the dial strong enough for his receiver to detect. They feature wide nulls that can block a continent of stations, especially on "graveyard" channels, and can even make signals audible "through" interfering locals - the "transparent tower" effect. Cardioid arrays can and will do things that the impossible unidirectional loop was never expected to accomplish.

We also hinted in Part I that the proud owner of a cardioid array, unlike most loop users, must have some idea of how it works, since it is much more complicated than the simple "turn-&-tune" loop. Cardioid users ignorant of theory may have success with the device, but it will be a matter of blind luck and little else. For this reason we are hitting theory at this time - before we build any cardioid arrays.

Again, a cardioid array consists of two separate antennas, a loop and a vertical whip. By electrical mathematics the patterns of both aerials are combined in a certain way to form the cardioid pattern.

The reception pattern of the vertical whip is omnidirectional - a circle. Its pattern on a polar graph is a circle, and a straight horizontal line on a cartesian graph. Since its pick-up at any horizontal direction from the antenna is the same, its mathematical representation is "K" - a constant:



The loop exhibits the familiar "figure-8" pattern on a polar graph and a "cosine wave" on a cartesian graph, thus the term "cosine loop". Naturally, its mathematical representation is the cosine function, "cosθ":



Now we have the pattern formulas for the whip and the loop, K and cosθ. K is constant; cosθ varies from plus one to minus one (actually: +1 ... 0 ... -1 ... 0 ... +1).

Wherever cosθ equals zero, there is a null in the loop pattern. Cosθ = 0 twice, thus two nulls; +1 and -1 give the two peaks.

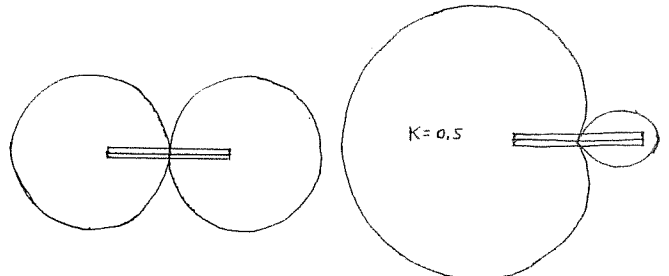
Problem: What value(s) of K will combine with ccsθ to produce a pattern with only one null - the cardioid pattern? A little high-school algebra will show two values - +1 and -1.

The cardioid formula, then, is either 1 - cosθ or cosθ - 1. The patterns given by both formulas are identical, except that they point in opposite directions (east or west). For our purposes in this article we will concentrate on 1 - cosθ.

If the cardioid pattern can be represented by 1 - cosθ, then any off-cardioid shape has the formula K - cosθ; by varying the value of K from zero to infinity various "sub-cardioid" patterns can be created. First, let us prepare a table for different values of K - cosθ:

	-cosθ	K=0	K=.5	K=1	K=1.5
000°	-1	-1	-0.5	0	0.5
030°	-0.866	-0.866	-0.366	0.134	0.634
060°	-0.5	-0.5	0	0.5	1
090°	0	0	0.5	1	1.5
120°	0.5	0.5	1	1.5	2
150°	0.866	0.866	1.366	1.866	2.366
180°	1	1	1.5	2	2.5
210°	0.866	0.866	1.366	1.866	2.366
240°	0.5	0.5	1	1.5	2
270°	0	0	0.5	1	1.5
300°	-0.5	-0.5	0	0.5	1
330°	-0.866	-0.866	-0.366	0.134	0.634
360°	-1	-1	-0.5	0	0.5

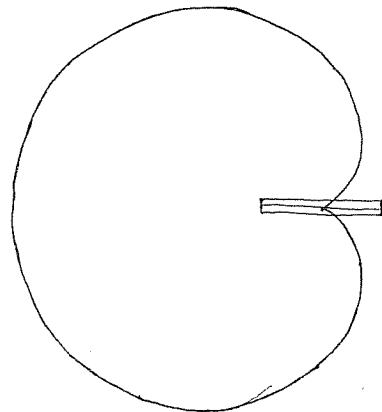
Now, by plotting the values of K - cosθ above on a polar graph, we derive the following patterns:



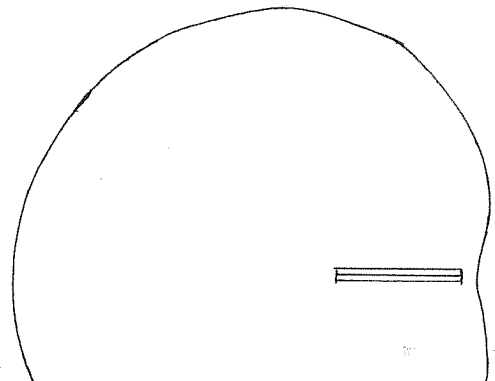
When K = 0, the vertical whip is out of the circuit and the loop acts alone. The classic figure-8 pattern with its opposing nulls is the result.

When K = 0.5, the nulls appear at 60° and 300° with a 120° separation between them. There is now a 9.54 dB difference between the two peaks.

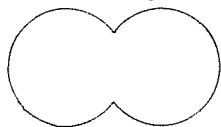
When K = 1, the two nulls combine at 000°/360° and we have the classic cardioid pattern:



When K = 1.5 the null disappears, and a 9.54 dB difference remains between the peak and where the null used to be. Further increases in K will produce patterns approaching the omnidirectional circle of the vertical whip:



Yet another condition must be met to form all these patterns: There must be a 90° phase difference existing between the loop and the vertical signals (θ = 90°). Failure to achieve this 90° difference will result in a variety of useless peanut-shaped patterns:

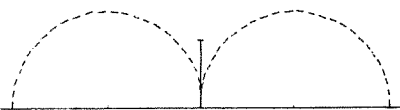


It is extremely difficult to explain this 90° phase difference in simple terms, so we ask the reader to accept our theorem without proof from us.

To summarise, the basic cardioid pattern is effected when the signals of the loop and vertical whip are equal at the points of maximum pick-up (K = cos 0°/360° or K = cos 180°) and their relative signal phases are 90° apart (δ = 90°).

So far, the theory being presented considers cardioid arrays only on the horizontal plane, but the LSCA has a vertical pattern as well. This vertical pattern is of extreme importance:

The vertical pattern of the vertical whip is not omnidirectional; there is a sharp null directly overhead. Thus, signals coming in at low angles are best received:



... while the vertical pattern of the loop antenna, under average ground conditions, may be described as "semi-omnidirectional":

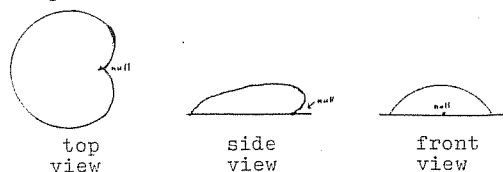


As the illustration above suggests, the loop is most sensitive to signals arriving at low angles; otherwise, it can be said that the horizontal reception pattern of one antenna is the vertical pattern of the other, notwithstanding the fact that the vertical patterns are half-above/half-below ground.

The vertical cardioid (or semi-cardioid) pattern is created according to the same conditions as its horizontal counterpart - signals must be equal in maximum strength and 90° apart in phase:



Falling between the horizontal and vertical planes are an infinite number of diagonal planes. Together they form a solid, three-dimensional reception pattern which the author terms a "melonoid" (Greek: "apple-shaped"). Of course, it is difficult to illustrate such a pattern on flat paper, but the following three figures give a general idea of its solid shape:



Even though our device is called a "cardioid array", it is more precisely a "melonoid array". Although we will keep the traditional terminology by necessity, the reader will be wise to think "melonoid" and "apple-shaped" and picture the pattern in his mind whenever LSCA's, MPA's, etc., have his attention.

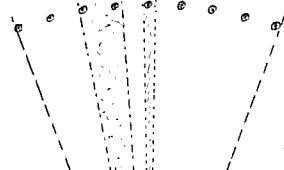
Now that we are familiar with the melonoid pattern, we can study its reaction and orientation to incoming signals.

First of all, we mentioned in Part I the fact that the LSCA pattern has a relatively wide null. This is true for the most part, but an attempt to null out a super-local will give the impression that the null is quite sharp. This phenomenon is somewhat of an illusion; it affects figure-8 loops, but it is far more pronounced on the LSCA.

E.g., the standard loop will null out a signal with the strength of 10 dB over S-9 when the null is only a small fraction of a degree wide. A 4° null, however, will be sufficient to handle a signal strength of S-5. On the LSCA, the maximum null width that will eliminate a 10dB/S-9 signal is 7°, but a wide 41° for the S-5 signal!

In the case of a multitude of stations, the number of stations that can be nulled simultaneously depends upon their angular separations and their various signal strengths.

In the hypothetical case of nine stations aligned in an arc at 5° intervals ...

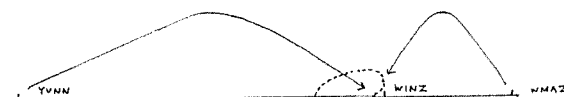


... if all the stations were 50-kilowatts coming in with 10dB/S-9 signals, the LSCA could null out no more than two adjacent stations at a time.

If all the stations were 250-watt graveyards with S-5 signals, the LSCA could null out all of them!

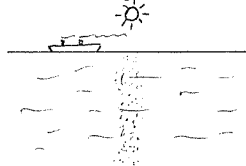
In both cases the figure-8 loop could null out no more than one station at a time! No wonder the LSCA is such a boon on crowded graveyard channels!!

Now let us examine melonoid behaviour under more general cases:



Illustrated above is the "Miami-940" case mentioned in Part I. WINZ is a 10-kw (night) super-local only four miles NW of the author's location. Inter-station propagation, of course, is via the ground wave. WMAZ and YVNN are heard in Miami via the sky wave only.

Almost everybody thinks of the ionosphere as some gigantic mirror. It should be viewed as more like a transparent, turbulent, upside-down ocean. If you could see the ionosphere and the signals refracting through it, it would resemble the reflection of the sun or the moon on the ocean; the reflected image would not be clear but would look like a sparkling path. A signal leaves the ionosphere from several points at once - and from each point only briefly. Fortunately, the ionospheric turbulence is in relatively "slow motion".



The arrows seen in the Miami-940 illustration are really the statistical means of many separate signal paths. These means shift relatively slowly but constantly.

In the same illustration, the melonoid null is aimed directly at WINZ's powerful ground-wave signal. WINZ cannot be heard, but YVNN gets through - as expected. After YVNN closes down, leaving nothing powerful to the SE, WMAZ becomes the only station heard. WMAZ's signal enters above the melonoid null, so it is received with still no WINZ! That explains the so-called "transparent tower effect".

When dealing with sky-wave signals, we must resort to a "sub-melonoid" pattern, as illustrated below:



One of the drawbacks of the LSCA is that the controls must be adjusted often in order to keep the null and the incoming signal in line. Stronger signals require more frequent and delicate adjustments.

That completes basic theory and propagation, but there is one more slight controversy to put to rest:

A few years ago, when cardioid arrays were given renewed popular attention, an unfinished article appeared in the National Radio Club's "DX News" entitled "Pattern-Controlled Loops". In it author Gordon P. Nelson took a generally pessimistic view of cardioid arrays and gave emphasis to the project of their being able to null out any two stations of any angular separation - just by employing the appropriate sub-cardioid pattern. Let's look into this a bit further:

In order to be truer to theory, the sub-cardioid nulls mentioned by Nelson must be realised as a single sub-melonoid null. We will refer to it as an "arc-null":

According to theory the arc-null can be fit over any two signals with the proper electrical and mechanical orientation of the array. Under certain situations, even three or more signals may be accommodated thusly. However, we must heed the laws of statistical probability:

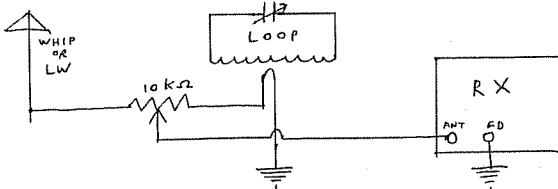
Let "Pd" be the degree of difficulty encountered in nulling out a given signal with the LSCA. A second signal will compound this difficulty, Pd x Pd = Pd². We regret to say that we have proven this fact empirically, and we have yet to waste our time trying to overcome three signals at Pd³!

Our empirical conclusion, then, is that, short of the "wide null" feature of cardioid arrays, it is impractical to use them for simultaneously nulling out two or more stations.



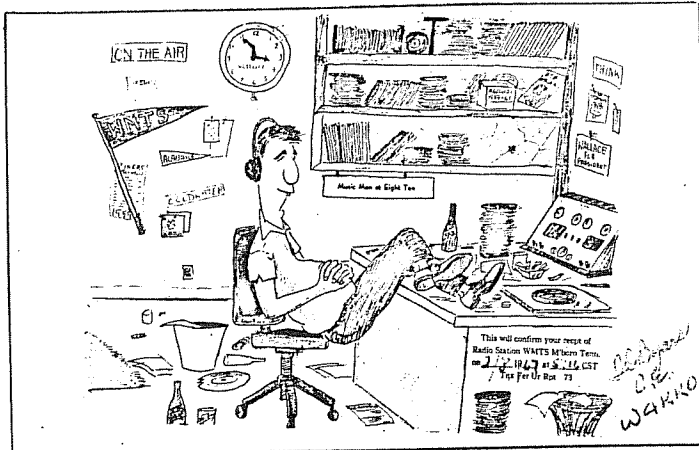
This concludes Part II of this series. Part III, to appear in a few months, will cover the circuitry of cardioid arrays and their construction, and will supply sufficient information for the reader to design his own LSCA or MPA.

I note that more reporters are using cardioid arrays, useful for stations in a "straight line". To appease a lot of questions, I'll repeat the schematic below:



To operate: Aim the plane of the loop at the wanted or unwanted station, then detune the tuning capacitor and adjust the potentiometer for the clearest signal or the best null. More LSCA articles will follow shortly in DX MONITOR.

73 de RFS



BURT PRELUTSKY

Premise Comedy in Valley

● People who live in San Francisco have long been accused of being terrible snobs about their town. They love everything about the place, and never seem to weary of boasting of their requited love affair. If typhoid hit the burg tomorrow, Herb Caen would probably refer to it as quaint in one of his columns, and, within a week, San Franciscans would be staunchly defending the plague as exotic, amusing and, of course, that old standby, sophisticated.

We in Southern California are just the opposite. If it's ours, we know there's something basically shoddy and second-rate about it. People who can find good things to say about even the likes of Yugoslavia and Portugal, will turn into Don Rickles when it comes to the San Fernando Valley. People who don't think twice about venturing to the ends of the earth, who can spout off the latitude of Tanganyika and the gross-national product of Nepal, seem to take inordinate pride in not having the foggiest idea where Tarzana is located or whether Encino is a place or a skin condition.

★

As a resident of Studio City, I am particularly aware of the way the rest of you regard my beloved Valley. There was, I must hasten to add, a time I felt as you do. There was a time when there were few sidewalks out here—and, as far as the eye could see, nothing but weeds, Bob's Big Boys and those tow-headed tots who grow up to be surfers, TV cowboys and car thieves. Today, though, the Valley is a terrific place. We have nice shops, attractive neighborhoods, fine schools, first-rate delis and, so long as you avoid going west on the Ventura Freeway between 3 in the afternoon and midnight, few traffic problems. What's more, we have Dick Whittington.

Whittington has a radio show on KGIL, the Valley station, between 6 and 10 five mornings a week. If you have never heard him, it's hard to describe what he does. He plays records, to be sure, but he isn't really a DJ. He conducts interviews, but he isn't, strictly speaking, an interviewer. He's funny, but he's not a comic. If he ever gets laid off, he'll have the devil's own time trying to explain to the department of employment just exactly what sort of work he's out of.

It was Whittington, for instance, who, after a load of nerve gas had been dumped in the Atlantic, rented a helicopter in Miami, flew over the exact spot and dropped in two Alka-Seltzer tablets. The War on Catalina was another of his brainstorm. "I took 200 people over, dressed according to the war of their choice. Naturally, as we were invading from the sea, I went as Gen. MacArthur. The invasion was a complete success."

I asked Whittington what he'd been doing before coming to KGIL six years ago. "I was a stand-up comic in clubs and on TV, and I did some comedy writing. Also, I had worked at KGIL once before. But they had fired me. The station, you have to understand, is a toilet out in the middle of nothing. Well, the station manager at the time wanted me to say, KGIL Valley Radio Park. He thought it gave us class. If that's a park, though, Siberia's a resort. I wouldn't say it, so they dumped me."

Whittington deals in premise comedy. He takes two seemingly unrelated facts and fuses them into total absurdity. For example, the man who flies the KGIL traffic-report helicopter is none other than Francis Gary Powers, of U-2 fame. It is also a fact that there is a wheat shortage in America, thanks to one of the all-time dumb deals. That's all it took for Whittington to pick up the phone one morning and place a call to the Soviet Union's minister of agriculture, offering to swap Powers for 100 loaves of bread.

One of his more involved premises took place last season, when Roman Gabriel was undergoing acupuncture treatment and the Rams were suffering from a terminal case of ineptitude. "I was hung-over one morning, sitting at the mike, when I suddenly dreamed up this Texas tenant farmer named Earl Lucraft, who could throw a pumpkin 130 yards. Roman, for one, was pretty impressed. He told me he had once tossed a football 80 yards, but he couldn't imagine anyone's throwing a pumpkin 50 yards beyond that."

★

I am suddenly aware that I may have made the Valley sound too appealing. I wouldn't want all you foot-loose folks out there to get the idea that life in these parts is just one Earl Lucraft giggle after another. Life out this way can get pretty hairy. Even our hero, Whittington, opts to live in Orange County and commute 130 miles a day. We're crowded enough as it is without all you turkeys settling in.

Actually, the Valley leaves a great deal to be desired. We have all the troubles with dope, hot rodders and thrill-crazed matrons, that every other place has. But, maybe worst of all, it takes movies a good six months to get out here from Westwood and Beverly Hills. And then they're invariably double-billed with either "Skyjacked," "Planet of the Apes," "Soylent Green" or "The Omega Man."

In fact, in spite of Whittington's ceaseless efforts, such is the bleak state of culture in the Valley that if you drive three miles in any direction on Ventura Blvd., Charlton Heston's entire career will flash before your very eyes.

Los Angeles Times CALENDAR, SUNDAY, DECEMBER 2, 1973

Radio Station **WJLB**
 AM - 1390 KC FM - 107.1 MC
 Studios Klein Road - P. O. Box 370
 GULFPORT, MISSISSIPPI 39501

Back in the March 3, 1973, D.M. Don Erickson asked if I could say a few words about the purpose of hyphenated locations - that is, why WJAB Westbrook, Maine, changed their city of license to Westbrook-Portland. In a nutshell, a station is licensed to serve its city of license first, and its surrounding area second. Westbrook has a population of about 14,000; Portland has a population around 65,000. It would be best to serve the larger city alone; but WJAB probably figured the FCC would "buy" the change more if they retained their service to Westbrook while adding service to Portland. This is important where a city is located near a larger city with a population more than twice its size. In the case of another Portland, the one in Oregon, KISN Vancouver, Wash. is licensed to a city of 40,000, but for all intents and purposes the bulk of its audience is in Portland, Ore., with a population of 380,000. KISN has had its wrist slapped for trying to identify with Portland, and why they don't get their city of license changed or at least hyphenated continues to puzzle me.

Note that the FCC only worries about smaller cities where the larger city is at least twice the size of the smaller (such as suburbs, where the station is supposedly intended for suburban or local service, but obviously the bigger advertising dollars are in the big city). Where you have "twin cities," such as the ones in Minnesota (Minneapolis at 435,000, St. Paul at 310,000), or the many smaller two-city markets such as mine (Aberdeen at 20,000, Hoquiam at 11,000), the FCC doesn't get too uptight as long as you don't deliberately lie on your ID.

You find that hyphenated locations are much more common in TV than in radio, since there is a requirement of certain minimum signal strength inside the entire city limits of each community a station is licensed to serve. This can be done simply in TV through locating the transmitting tower midway between both cities at a high-enough location, while in radio the station would have to deliver a strong-enough signal over all of the city-limit territory of both communities, including an increased signal strength over the factory area of both communities. This is often hard to do without a complicated directional array that provides unwanted dead-spots in a station's coverage area, unless a station is lucky enough to be able to use 10 or 50 kw nondirectional! So most AM stations, and practically all FM's, are licensed to just one city. However, in TV, two-city locations are common. There are about a dozen three-city TV stations, and one TV station, KWRB-TV Riverton-Lander-Norland-Thermopolis, Wyoming, is actually licensed to four cities.

One more thing about hyphenated locations: The station has to maintain a studio in each city they are licensed to, and broadcast some programs from each studio regularly.



*Peddling
the 'sail' of
the century*

Biking is a breeze for Carl Ylvisaker, who last week had a little different idea for his Sunday drive. Though Ylvisaker's new mode of travel will soon hit the market, it may take some time before traffic no longer stops at the sight of sailing cyclists co-existing with horse-powered Cadillacs.

Listen to the Happy Sound of
Radio Station KLID
A KLID BUILDING — 11TH & VINE
POPLAR BLUFF, MISSOURI 63901

**Radio Atlanta
WPLO**

805 PEACHTREE ST., N.E. • ATLANTA, GEORGIA 30308

20 Black Urban Experience to Be Topic of Radio Soap Opera

BY FRANCIS WARD
Times Staff Writer

CHICAGO—Plans for a 15-minute, five-day-a-week radio soap opera dealing with black urban life have been unveiled here by a New York-based advertising agency, UniWorld, Inc.

The show will be called Sounds of the City and it is expected to be aired on 25 black-oriented radio stations around the country beginning March 1, said UniWorld president Byron Lewis. The series will be sponsored by the Quaker Oats Co.

It will be one of the first

(if not the first) daytime dramatic series on radio or television with an all-black cast, dealing primarily with black experiences and produced and directed entirely by blacks.

"We developed the idea for the show because of the need to portray black life and the black experience in a positive way, and do it on radio," said Lewis. "General media don't portray the positive or total view of black life. We can attract black audiences, create a whole new value system for blacks, as well as an ex-

ceptional sales climate for major advertisers with this show."

Lewis will be executive producer of the show, and will be assisted in production by Raymond A. League, a vice president of UniWorld. The series will be written by Shaunelle Perry, a Chicagoan who has written television and stage productions in New York and Washington, D.C.

Central figures in the series will be the Taylor family: Winona, a nurse, married to Calvin, a policeman, and their three children, one of whom is a married schoolteacher.

Lewis said negotiations have been completed with 11 radio stations, including Station KBCA-FM (105.1) in Los Angeles which will air the program at 6:45-7 a.m. Monday through Friday.

The other stations are in Chicago, Atlanta, Buffalo, Boston, Baltimore, Kansas City, Mo., Detroit, Memphis and Pittsburgh. "We're in various stages of negotiations" with another 14 stations, said Lewis. He said he expected arrangements with them to be completed before next March.

Los Angeles Times
Sat., Dec. 15, 1973

Rights Sold to Radio Theater

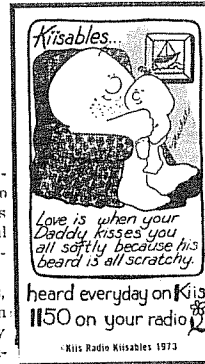
BY JAMES BROWN
Times Staff Writer

Hollywood Radio Theater, that bold attempt to revive live radio drama, is currently mired in a local state of suspended animation.

The 30-minute series, which had been airing on KGIL (1260) Monday through Friday, has concluded its 13-week contract with the San Fernando Valley station, and its distribution rights have been sold by the program's creator, Jay M. Kohlos, to the Mutual Broadcasting System.

Mutual affiliates will begin broadcasting the original shows Monday, but its Los Angeles outlet, KBIG (740) has no plans to carry Hollywood Radio Theater. Negotiations are underway between KGIL, which wants the program back on the air and Mutual. Even so, the programs would be repeats — although packaged in a different format for hour-long weekend presentation.

"KGIL is making every effort to get Hollywood Radio Theater back on the air," said Bert Pegram, account executive at the station. "The response to the program, gauged by letters from listeners and countless phone calls, has been phenomenal."



A spokesman for Mutual Broadcasting System confirmed that KGIL is bargaining to retain the series, indicating that advertising was the only hurdle.

Kohlos, who remains in charge of the program's production, thinks the hiatus is only temporary. "We have to await official word from Mutual," he said, "but expect to resume production on new shows in January."

"I am sorry there has been an interruption, but in the long run, with Mutual able to reach many more markets than our original syndication, it should work to the program's advantage."

Meanwhile, CBS starts a new radio drama program series on Jan. 6 titled Mystery Theater. It will be heard locally on KNX (1070), from 9-10 p.m. seven nights a week.

Radio Station Tower Falls

(The Tribune's Iowa News Service)

IOWA FALLS, IA.—The 230-foot transmitting tower of radio station KIFG collapsed during Tuesday's snowstorm. No one was injured.

The tower was situated 1 1/2 miles outside Iowa Falls. The station hoped to resume broadcasting on a limited basis by Tuesday night.

Radio Team Sets Record

HQ ADC, ENT AFB, Colo. — Two ADC men stationed at Thule AB, Greenland, have set an Armed Forces Radio and Television Service record for continuous broadcasting.

In tandem, Capt. James Miskimen and TSgt. Donald White completed a marathon radio show lasting 112 hours.

The two used both of the base's local AM stations, and broadcast simultaneously for 72 and one-half hours. At that point Miskimen bowed out and White carried on, simultaneously on both stations, for another 40 hours.

The marathon was designed to help raise funds for the base's annual two big charity drives — the Combined Federal Campaign and Operation Julemand, an annual campaign to raise money for Christmas gifts for Eskimo children throughout Greenland.

PM-PM MULTIPLEX TELEPRINTER SYSTEM
BARRY RESEARCH CORP.
Palo Alto, CA

The Barry Research PM-PM system allows the multiplexing of a teletype or low speed data channel of up to 100 wpm below a normal AM broadcast program without interference to the listener; it allows the provision of broadcast news, data, or financial service over wide areas without the need for wire lines or special radio transmitters needing their own frequencies in congested bands.

In addition to these applications, the system is suitable for the provision of coded signals on broadcast band stations for disseminating traffic information, safety announcements, emergency information services, or for civil defense; all without requiring any signal audible to the normal listener or requiring additional spectrum width or power. Simple transmit equipment generates a special phase modulated sub-carrier which is placed on the broadcast station's master oscillator. The sidebands extend less than 50 Hz and cannot be detected by the envelope detector of normal broadcast receivers. A special limiter and phase detector separates the teletype signal from the radio program and converts it to DC pulses to operate the teletype machine. Once set up, the receiver needs no adjustment or tuning.

11-13

North Latitude: 41° to 60°—December 22 to March 21.

[R—Local civil time of sun's visible rising. S—Local civil time of sun's visible setting.]

Main table for North Latitude (41° to 60°) showing sun's rising and setting times from Dec 22 to Mar 21. Columns include month, day, and time in hours/minutes. Rows are labeled with latitude and sun type (R.S.).

South Latitude: 0° to 20°—December 22 to March 21.

[R—Local civil time of sun's visible rising. S—Local civil time of sun's visible setting.]

Main table for South Latitude (0° to 20°) showing sun's rising and setting times from Dec 22 to Mar 21. Columns include month, day, and time in hours/minutes. Rows are labeled with latitude and sun type (R.S.).

[R—Local civil time of sun's visible rising. S—Local civil time of sun's visible setting.]

Table with columns for Lat. S., Approx. date, DECEMBER (22, 2, 10, 16, 21, 25, 29), JANUARY (2, 5, 9, 12, 15, 18, 20, 23, 26), FEBRUARY (1, 3, 6, 8, 11, 13, 16, 18, 21), MARCH (1, 3, 6, 8, 11, 13, 16, 18, 21), and Lat. S. Rows include latitude values from 21° to 40° and corresponding sunrise/sunset times.

[R—Local civil time of sun's visible rising. S—Local civil time of sun's visible setting.]

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South Latitude: 0° to 20°—September 23 to December 22.

[R—Local civil time of sun's visible rising. S—Local civil time of sun's visible setting.]

Main table for South Latitude 0° to 20°. Columns include Lat. S., Approx. date, and months SEPTEMBER, OCTOBER, NOVEMBER, DECEMBER. Rows list local civil times for rising (R) and setting (S) at various latitudes.

South Latitude: 41° to 60°—September 23 to December 22.

[R—Local civil time of sun's visible rising. S—Local civil time of sun's visible setting.]

Main table for South Latitude 41° to 60°. Columns include Lat. S., Approx. date, and months SEPTEMBER, OCTOBER, NOVEMBER, DECEMBER. Rows list local civil times for rising (R) and setting (S) at various latitudes.

North Latitude: 0° to 20°—December 22 to March 21.

[R— Local civil time of sun's visible rising. S— Local civil time of sun's visible setting.]

Table for North Latitude: 0° to 20°. Columns include Lat. N., Approx. date (Dec. to March), and sun's visible rising/setting times for each month.

North Latitude: 21° to 40°—December 22 to March 21.

[R— Local civil time of sun's visible rising. S— Local civil time of sun's visible setting.]

Table for North Latitude: 21° to 40°. Columns include Lat. N., Approx. date (Dec. to March), and sun's visible rising/setting times for each month.