



DX MONITOR

PUBLISHED BY
THE INTERNATIONAL RADIO CLUB OF AMERICA

Saturday, December 2, 1972 Prompt Renewals Appreciated VOLUME TEN NUMBER 10

TIMES in DX Monitor: Domestic sections: EST. DX Worldwide: Greenwich Mean Time.

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HQ (Pub.): Don Erickson - 6059 Essex Street - Riverside, CA 92504. 714-687-5910.

Membership Dues: \$13 air mail, \$9.50 first class, \$6.50 third class. Mail to HQ.

Joint Membership: \$1 - details on joint membership appeared on page 1 of last issue.

Bulletin Schedule: Weekly thru 4/7/73. Dates: 12/9, 16, 23, 30; 1/6, 13, 20, 27.

World Radio-TV Handbook: IRCA discount order deadline is December 15, 1972. See DXWW.

Reporting Forms: Additional copies of page 25/26 of last issue available from HQ.

Temp. Editor: For the Dec. 23, 30, and Jan. 6 issues of WDXR, please send your rpts to HQ; Andy Hecker will be on vacation with his parents.

French Canadians AN for Xmas: Richard C. Mayhew sends along this tip: "Be watching for the French-speaking Canadian stns who break their regular schedule to go AN on Xmas morning with special Xmas programming (midnight mass, etc.). This Xmas fortunately occurs on a Monday morning so the chances of logging new FFC's are much better. Two years ago on Xmas, CJEM-570 and CHNC-610 were noted AN; last year, I noted CKSM-1220; Quentin Brown noted these 5: CKSM-1220, CKJL-900, CJSA-1230, CHUD-1230, and CFGT-1270." Please be sure and rpt AN FFC's hrd to DXR and DXWW. Father Jack can be expected to run a special issue after next (?) regarding Latin Americans AN for Xmas.

New Member Packets: Aside from losing a week's pay, the 5 days taken off from work in mid-Nov. didn't make any tremendous in-roads into the horrible backlog on NMPs. Any volunteers (particularly a new member) to help out at HQ for a few hours on Saturday or Sunday by mailing DX Booklets to new members? If there isn't some help shortly, things may become more chaotic than back in Sept./Oct. when I was ill; help is also needed stamping envelopes and preparing address labels. -DEE

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NEW MEMBERS!!!

Richard Noel Allen - RFD - Billings, Oklahoma 74630 (via NRC)
 Denzil V. Baker - 85 Percy Osborn Rd. - Durban, Natal, SOUTH AFRICA (source unknown)
 Dennis Bednarz - 6204 N. Moody St. - Chicago, Ill. 60646 (via Comm. World & S9)
 Keith Birlingmair - Rte 1, Box 44 P - Rockton, Illinois 61072 (via WOAI, KFAB, NRC)
 George A. Boullas - 10420 Indianapolis Blvd. - Highland, Ind. 46322 (via WKBW, NNRC)
 Tony D. Bratton - P. O. Box 144 - Victorville, Calif. 92392 (rejoins; 6-15-65; #389)
 John A. Callarman - 1122 Maple - Mount Vernon, Ill. 62864 (rejoins; 10-20-64; #192)
 Bill Connelly - Apt. 117, 16936 Burbank Blvd. - Encino, Calif. 91316 (via KOB, KNBR)
 Derek J. Ford - 1385 W. 15th Ave., 4 B - Vancouver 9, B.C. CANADA (via KNBR)
 Wayne Forrest - 4041 Bethel Dr., #16 - St. Paul, Minn. 55112 (via Comm. World)
 Jeremy Aurelio Forster Valdez - P. O. Box 245 - Wolfville, N.S. CANADA (via NRC)

Angel M. Garcia - 137-05 Franklin Ave. - Flushing, NY 11355 (rejoins; 2-12-66; #472)
 Chip Gardner - 45 Meadow View Rd. - Orinda, Calif. 94563 (via WOAI)
 Charles Gill - P. O. Box 84 - Springville, NY 14141 (via National Radio Club)
 John J. Guiney - P. O. Box 93 - South Royalston, MA 01374 (via Ralph Sanserino, NRC)
 Joshua Hill - 1429 Elm St. - Alden, New York 14004 (via Jerry Monroe)
 Adolph Holmes Jr. - 65 Intervale Rd. - Teaneck, New Jersey 07666 (via WWVA, WKBW)
 E. Linn Jones - 5601 Washington Blvd. - Indianapolis, Ind. 46220 (via Comm. World)
 John C. Keleher - 443 Garfield Ter. - Lombard, Ill. 60148 (via Denver Post)
 Lowell E. McCown - P. O. Box 416 - Martin, Kentucky 41649 (via NRC)
 Jeff Meyer - 2802 Fremont - Rolling Meadows, Ill. 60008 (via Comm. World)
 Jim Meyerson - 7429 Teasdale Ave. - University City, Mo. 63130 (via WGY)
 George Mihalik - 209 James St. - Blasdell, New York 14219 (via KSL)
 Steve Moss - Rte 7, Box 939 - Austin, Texas 78703 (via a friend)
 Raymond W. Moyer - 55 Begonia Lane - Levittown, Pa. 19054 (source unknown)
 Ellis Neufeld - 9911 DePaul Dr. - Bethesda, Maryland 20034 (via Todd Graves, ASWLC)
 Jon F. Orren - 529 N. E. 83rd St. - Seattle, Wash. 98115 (via C.H. 72, KNBR, KOB)
 Jerry Peek - 1160 Myrtle St. - Los Alamos, N.M. 87544 (via KOA, KSL, WOAI, KMOX)
 Rick Pinson - 2919 Summerdale Ave. - Rockford, Ill. 61103 (via WCFL)
 Gene Ramsay - P. O. Box 627 - Dahlgren, Va. 22448 (via WOAI, WKBW, KMOX)
 Mike Riordan - 1596 Oramas Rd. - Santa Barbara, Calif. 93103 (via C.H. 72)
 John A. Schiek - 2189 N. 57th St. - Milwaukee, Wisc. 53208 (via KOA, KSL, WCFL, WBAP)
 Dave Schmidt - 8 Valley Terr., Apt. 9 - Wilmington, Delaware 19802 (via KHOW, NRC)
 John F. Schneider - Rte 5, Box 988 - Sonora, Calif. 95370 (KVML amcr, via KOB)
 Edward J. Sigmund - P. O. Box 245 - Jeannette, Pa. 15644 (via Ed Kocsan)
 Michael P. Smetko - 809 S. 9th Ave. - La Grange, Ill. 60525 (via KSL, WWVA)
 Wade M. Smith - 595 Reed Rd. - North Dartmouth, Mass. 02747 (source unknown, NRC)
 Stephen Stofko - 14235 Ingleside Ave. - Dolton, Ill. 60419 (via WCFL, brother Tom)
 Jim Streeter - 2013 Hidden Valley Dr. - Santa Rosa, Calif. 95404 (via Peter Bergman)
 Fred E. Struck - 3026 57th Ave. - Oakland, Calif. 94605 (source unknown)
 Louis Taber - 3520 N. Prescott Pl. - Tucson, Ariz. 85715 (via WOAI, KFAB)
 Jonathan Tiemann - 2524 Bopp Rd. - St. Louis, Mo. 63131 (via KSL)
 Gary Timm - 5567 N. 36th St. - Milwaukee, Wisc. 53209 (via WBAP, WKBW, WWVA, WCFL)
 G. G. Toon - 1 Wickham Rd. - Colchester, Essex CO3 3ED, ENGLAND (source unknown)
 Ralph Uttaro Jr. - 118 First Place - Brooklyn, New York 11231 (via WOAI, KMOX, WKBW)
 Robert H. Van Wormer - 804 7th St. N.W. - Minot, N.D. 58701 (source unknown)
 Steve Wayman - 12 E. Oak - Villa Park, Ill. 60181 (via (via KMOX, Karl Forth)
 Arthur R. Williams - 24 Rhodes St. - Timaru, NEW ZEALAND (a Canadian correspondent)
 Dale Winn - P. O. Box 245 - Roy, Utah 84067 (rejoins; 7-21-64; #120)
 A1C Steve York - PSC Box 3376 - Beale AFB, Calif. 95903 (via KOA, KFAB, KSL, KOB)

CHANGES OF ADDRESS

Gregg Allinson - 407 40th Avenue - San Francisco, California 94121
 Larry E. Black - 629 W. Hampton - Indianapolis, Indiana 46208
 Peter E. Burger - P. O. Box 303 - Pisgah Forest, North Carolina 28768
 Curne W. Chadwick - 3014 South 104th Avenue - Omaha, Nebraska 68124
 Edward Day - 13334 La Barr Meadows Road - Grass Valley, California 95945
 Richard C. Evans - P. O. Box 2048 - Gary, Indiana 46409
 David R. Faulkner - Mayo Hall Room 173 - Michigan State University - East Lansing,
 Michigan 48823
 Larry V. Flegle - 1004 E. Powhatan Avenue - Tampa, Florida 33604
 Karl Forth - 630 South Ardmore - Villa Park, Illinois 60181
 Bruce R. Heimburger - 1710 Cambridge - Ann Arbor, Michigan 48104
 Jeff M. Hodge - Booth Hall Box 127 - 505 Comstock Ave. - Syracuse, New York 13210
 Stephen S. Howe - P. O. Box 6511 - Univ. of Rochester - River Station - Rochester,
 New York 14627
 Russ Hunter - Apt. 827, 350 Quigley Rd. - Hamilton, Ontario, CANADA
 John C. Johnson - 707 North 31st, Apt. 4 - Billings, Montana 59101 (correct ZIP)
 P. A. Desmond Lanktree - 68 Weber Street South, Apt. 18 - Waterloo, Ont. CANADA
 William H. Lee - current address not known - last known address in Chanute, KS 66720

CHANGES OF ADDRESS (cont'd from page 2)

Bill Lemak - Archer Rd. Vlg Sp. A-26 - 3620 S. W. Archer Rd. - Gainesville, FL 32601
 Bill MacCannon - P. O. Drawer B - Hartville, Wyoming 82215
 Harold A. Neimanis - 169 Lincoln Blvd. - Kenmore, New York 14217
 Michael Nelson - 10829 W. Saratoga Pl. - Littleton, Colorado 80123
 Allen W. Ogrizovich - 2429 Schrage - Whiting, Indiana 46394
 David Rogers - 623½ Kansas - Norman, Oklahoma 73069
 Richard S. Ryrholm - 304 Elsom - Elm Drive Hall A - Madison, Wisconsin 53706
 David Singer - Church II, Room 21 - R. P. I. - Troy, New York 12181
 Steve Taafe - Morris Hall 127 - Vincennes University - Vincennes, Indiana 47591

There are yet a few more new members to list as well as a large number of changes of address contained within renewals. Of necessity, the next few issues will gradually bring us up-to-date on new members, renewals, and changes of address. Once this is complete and when there is a need for filler material (something hardly the case at present), we'll start the 1973 IRCA Membership List, to be the first of its type. It should be noted that virtually no club publishes a membership list any longer. Some have dropped the list for lack of personnel to prepare it, some clubs have a policy against listing members' addresses, and others for unstated reasons. If there is any member who wishes to be left off the membership, we'll gladly comply. -DEE

Broadcasting Information (as compiled by Mike Worst) 11/20 issue and Info. Canada

CFNW	790	1kw	Port au Choix, Nfld.	from CJNW
CFCR	910	10kw-D 1kw-N	Kamloops, B.C.	from CFJC
CFRY	920	10kw	Portage la Prairie, Manitoba	from 1kw
CBLI	1110	40w	Deep River, Ontario	from 540 kHz
CJBK	1290	10kw	London, Ontario	from CJOE
CJLM	1350	10kw-D 1kw-N	Joliette, Quebec	from 1kw
CKFL	1400	1kw-D 250w-N	Lac Megantic, Quebec	from 1340 kHz
CBFH	1420	40w	Grande Vallee, Quebec	from 1340 kHz
CFG0	1440	10kw	Ottawa, Ontario	from CKPM
CKSP	1450	1kw-D 250w-N	Summerland, B.C.	new
KFLW	1450	1kw-D 250w-N	Klamath Falls, Oregon	granted KFLS
CJVB	1470	10kw	Vancouver, B.C.	new
CKGO	1490	250w	Hope, B.C.	new

ELECTIONS COMMITTEE REPORT

Dave Prather - Elections Committee Chairman - 1711 6th St., Apt. 14 - Woodland, Calif. 95695

Here are the results of the September 9, 1972, ballot:

<u>Prop. #</u>	<u>Subject</u>	<u>YES</u>	<u>NO</u>	<u>ABSTAIN</u>
5.1-59	Bylaws amendment, kc/s to kHz	39	14	2
5.1-60	Bylaws amendment, ballot mailing	36	16	3
5.1-66	Amendment to 5.1-60	33	19	3
5.1-69	Divide NWT into 3 provinces	21	32	2
5.1-81	Bylaws amendment, Article XII	45	7	3
5.1-82	Bylaws amendment, Article XI	40	11	4
5.1-83	Bylaws amendment, Art. V, Sect 2, 1h	42	9	4
5.1-96	Bylaws amendment, Art. III, Sect 5, 4	48	5	2
5.1-97	Bylaws amendment, Art. III, Sect 6	51	1	3
5.1-98	Bylaws amendment, Art. V, Sect 2, 1k	42	10	3
5.1-99	Bylaws amendment, bulletin dating	48	4	3
5.1-102	Bylaws amendment, Article XII	40	11	4

NOTE: Because two separate amendments were both made to Article XII and both approved by the Board of Directors and the membership, there will be another election to resolve the matter. See pages 6 and 7 of the 9/9/72 DXM. Proposals 5.1-81 and 5.1-102 both establish the wording of the same Article XII on Recall. On an associated subject, the percentage of members voting was rather dismal. How about a better turnout for the next ballot?

December 2, 1972

EASTERN DX ROUNDUP

Page 4

Editor: Nancy Gantzer-67 Liberty St.-Fredonia, NY 14063

Deadline: Thursdays

Reporters

(BB) Budd Bailey-8800 Wenner Rd.-Williamsville, NY 14221
(NG) Nancy Gantzer-67 Liberty St.-Fredonia, NY 14063
(GEM) George Mihalik-209 James St.-Blasdell, NY 14219
(JMo) Jerry Monroe-1030 Bonnie Lake Dr.-Alden, NY 14004
(TJS) Tim Saltmarsh-33 Fowler St.-Penacook, NH 03301
(FW) Frank Wheeler-6589 Wattsburg Rd.-Erie, PA 16509

580 WHP PA Harrisburg 11/19 1850 w/hockey game, Hershey Bears;
loud o/two other stations. (GEM)
590 WMBS PA Uniontown 11/19 gud w/CKEY nulled. ID at 1833 as
"WMBS...Uniontown. On your dial at 5-9-0." (GEM)
730 KWRE MO Warrenton vry gud copy, gave wx for the state, song,
s/off (mentioned Capitol Brdcting Co.) SSB played
1745 11/17. (JMo)
740 KCBS CA San Francisco 11/20 w/temp at 0124. Wk in strength,
no report. (GEM)
850 WKIX NC Raleigh w/announcement I missed. Just heard "...in
Raleigh, N.C." at 0133, then tones. Must have been
a test. (GEM)
860 KONO TX San Antonio 11/20 0040-0046 fair to good o/SS w/RR
and ID. (BB)
unID ?? Somewhere WNW, wk. signal tone and mx 0345 11/18. (JMo)
920 WMMN WV Fairmont 11/19 strong at 1820 w/spot for Fairmont
Mall. (GEM)
950 KXJK AR Forrest City 11/15 s/on 0705. New. (FW)
WERL WI Eagle River 11/15 s/on 0700. (FW)
1030 KCTA TX Corpus Christi 11/14 1845 snuck thru with a quick ID
between WBZ's commercials. (JMo)
1110 WJSM PA Martinsburg 11/21 s/off 1700 poor w/WBT nulled,
mentioned WJSM-FM. (NG)
WSLV TN Ardmore 11/20 w/f/c at 0105, then "Dixie" played. (GEM)
1190 KRDS AZ Tolleson finally hrd after at least 20 MM trying. No
sign of normally dominant LA. C&W format, "It's 2:34
at KRDS, Tolleson." vry weak, and splash from WHAM
doesn't help, hi! 0434 11/20. (JMo)
1290 WHGR MI Houghton Lake 11/6 0015 DX Test definatly made it here
w/TT which ran up and down every five minutes for
about 15 seconds or so. ID just barely heard but tape
playback revealed "WGHR, Houghton Lake testing w/5000
watts." Probably more in ID but was in fade; fair
u/WKNE. (TJS)
1360 WCHL NC Chapel Hill DX Test was not hrd 0030-0205 11/20.
1360 was all WDRG, WIXZ, & WBAY. (BB)
1380 WYNK LA Baton Rouge 11/17 w/s/off and SSB at 1815, QRM from
nulled CKLC. (GEM)
1420 KTOE MN Mankato ID's as "K-TOE"; RR mx, plug for show sponsor-
ed by "K-TOE", 11/20 0308-0311. (JMo)
1440 CFGO ON Ottawa 11/16 2200 good u/WAAB w/RR: if has power
upage is not in any better than CKPM. (TJS)
1510 WLAC TN Nashville 11/5 fair in and out of fade, 1730 w/cam-
paign spots and a PSA for Senior Citizens Inc., wx
followed; fair u/WMEX and CJRS. (TJS)
1530 KFBK CA Sacramento 11/20 0334-0346 w/Holiday Inn Show, plug
for Hol. Inn on Colorado St.; fair signal, WKBW off.
(JMo)

1560 KPMC CA Bakersfield Finally hrd. Ad for a C&W record set w/address in CA then "This is KPMC in Bakersfield", into C&W mx; slow fade out 11/18 0245. (JMo)

1570 WTAY IL Robinson 11/15 s/off 1745 good o/CHLO, no SSB. (NG)

1580 KFDF AR Van Buren 11/18 1815 almost sure, spot for Green Acres Nursery in Ft. Smith. 1580 #29. (JMo)

KTGR MO Columbia s/off 11/17 1815 with mention to tune to FM, no SSB; easy copy. (JMo)

KESM MO El Dorado Springs s/off announcements, no SSB fair signal, 1800 11/16. (JMo)

1590 WLFA GA Lafayette 11/19 1730 s/off w/SSB good o/WAKR. (NG)

WEHH NY Elmira Heights big sound from a small town! Heard w/wx report and MOR 1640-1645 11/14. (JMo)

Special DX Tip:

1060 WGTR MA Natick started broadcasting at noon on 11/12, is now 1000 watts but wants to go to 10,000 per SS. ETing 11/11 w/tape announcing when they were to go on. Format is RR mx, many jingles, and call themselves a Community Service Station. Owner is John Garabedian, address 24 West Central Street Natick MA 01760, phone number is (617) 655-2505. (TJS)

Women's Lib strikes IRCA, hi. Thanks to the members who contributed to the column this week, and I hope to receive reports from many more members in the future. Even if you have only one or two things to report, be sure and send them in. Catches need not be listed in any particular order but include frequency, call, date, time (EST), and as many program details as possible. Suggestions for EDXR also appreciated. If you live in the East I want to hear from YOU. 73
Hammond in '73

CPC Write-ups (continued from page 14) WPAD (cont'd) reports to: Mr. Timothy H. Corey, Promotion/Public Relations, WPAD, P. O. Box 450, Paducah, KY

42001. -NNRC/Gene Vonderembse

WMCA will conduct an f/c with Cambridge Crystals. Station jingles and Christmas greetings to DXers and long range listeners will be aired. Reports should be sent to: Mr. Winston D. Chapman, Pres., WMCS, 12 Cooper St., Machias, Maine 04654. -NRC/Musco

KNOE reports to: Mr. Ray Boyd, DoE, KNOE, Knoe Road, Monroe, LA 71201. -NNRC/Gene V.

WCWC programming not known. WCWC-FM will be on 95.9 MHz for the test. Reports to:

Mr. Paul Veleke, Op Mgr, WCWC, Greycote Inc., Ripon, WI 54971. -NNRC/Gene Vonderembse

WCHV reports to: Mr. Forest Whitehead, CE, WCHV, P. O. Box 631, Charlottesville, VA 22902. Tele # is 703-295-5121. -NNRC/Tom Sundstrom arr. Fred Heute

WEKR reports to: Mr. Ernest Tucker, CE, WEKR, Box M, Fayetteville, TN 37334. -NNRC/Gene Vonderembse

WLIK reports to: Mr. Dwight Wilkerson, WLIK, P. O. Box 270, Newport, TN 37821. -NNRC/John T. Tweedie (correction: info came from Gene Vonderembse)

KDDA programming not known; station specifically does not appreciate collect phone calls from DXers (no station does and it is a definite discourtesy!). Reports to: Mr. Alan W. Eastham, Gen Mgr, KDDA, P. O. Box 215, Dumas, AR 71639. -IRCA/Karl Forth

Members receiving DX Monitor by 3rd class should advise whether or not this information is reaching you in plenty of time. Normally, info on CPC tests is run as soon as received or when there is space; info for tests in the far future isn't run again until two or three weeks before the test. As publisher, I always appreciate information on how fast the bulletin is arriving after it is mailed.

Index to Volume Nine of DXM is ready to go as well as 8 pages of Special Features just received. In addition, there will be a ballot for the 1973 Convention Site in one of the next two or three issues of DXM in all likelihood. -DEE

EDITOR: Richard C. Evans - Box 2048 - Gary, Indiana - 46409

+++++

750 NE KMMJ Grand Island, bombing in o/WSB with ID "You're in the giant reach of KMMJ", 0720 11/17. (DP)

810 MI WJPW Rockford, excellent over WDMP with s/on and into Mutual News 0730 11/15. (DP)

880 NE KRVN Lexington, weak under WLS slop w/ID 1715 11/14 (DP)

930 NY WBEN Buffalo, poor under WKY with weather for western New York 0523 11/20 (KDF)

960 MN KLTF Little Falls, very weak u/WSBT w/spot 1740 11/14.(DP)

1070 AL WAPI Birmingham, xlnt o/WTSO w/Rock Mx 1725 11/14. (DP)

1140 IN WAWK Kendallville, fair signals w/MoR Mx 0743 11/15. (DP)

1150 IL WYFE Rockford, xlnt o/unID w/end of news, then rock music 0720 11/15. (DP)

OH WIMA Lima, finally heard o/u CKOC w/C&W Mx 0035 11/15.(DP)

1280 NY WADO New York, fair w/s/on w/SSB 0500 11/20. unn. (KDF)

1310 IA KOKX Keokuk, good w/s/on over WIFE 0700 11/17. Mentioned schedule of 0700-0005. (DP)

1360**NC**WCHL**Chapel Hill; 0430-0506 11/20, fair, some KRYS QRM, some fading, plenty of jingles, horrible rock. (rce)

1480 MI WMAX Grand Rapids, fair with WGSB nulled, with MoR music 1243 11/18. (DP)

1500**MI**WDEE**Detroit, good w/ID concluding ET 0306 11/20, unn.(KDF)

1580 AZ KTUF Tempe, poor and fady w/"K-Tuff", KTUF Feature Album" and C&W Mx 1913-1916, sports report 1926 11/18. (KDF)

1600 KY WSTL Eminence, poor w/spot for car dealer in Madison, Ind. 0635 11/17. (DP)

A TIP OF THE HAT THIS WEEK TO:

rce - RICK EVANS - Box 2048, Gary, Indiana 46409

KDF - KARL FORTH -630 S. Ardmore, Villa Park, Illinois 60181

DP - DAVID PETERSON - 800 Humboldt Ave., Winnetka, Illinois 60093

Feast or famine, hi. To answer a question on conventions everyone seems to be asking me, a proposal went to the board in spring of 1971 to require the convention to alternate sides of the country each year. The proposal was turned down, and so San Jose is able to bid. It's up to the club members, of course, to decide where the convention will be held. I would like to see a definition of a "verification". We all know what a verie is, but when we actually get the term defined, so that we are talking about the same thing, then we can hash out the question of "written" vs. "taped" verie. For years, the term meant that the station in effect "certified" the person did in fact hear the station. If this still holds true, the term "taped veries" is a misnomer. If not, then none can get upset should I chose to type myself a letter to verify my reception of a station. -30- My tenth report of the year went to WCHL. 73.

CPC Results and Flash Tips

WCHL-1360 was on per sked 11/20. Alan Merriman rpts good sigs, pop mx, and brief IDs. Tom Sundstrom hrd brief partial ID 0330 u/WDXR pause. Brian L. Cartwright hrd w/good sigs, RR, jingles, o/WDRG 0030-0200 tune-out. Bruce Portzer had too much KRUX. +++++ WJVA-1580 was not hrd either 11/26 or 11/27 by Tom Sundstrom; no other rpts of anyone trying. +++++ KRKT-990 has been hrd frequently on many mornings, not just FMs, w/RR mx, by Robert L. Neal, Jr. +++++ WKKS-1570 last-minute via Flash Tip hrd u/CKLM w/TT, voice IDs 11/27 by TRS. Alan M. hrd them well 0101-0110. +++++ KDWB-630 was not on. Bob Karchevski (RAK) and RLN both had KOH dominant; TRS & Karl Forth also tried without luck.

-continued on page 7-

December 2, 1972

CENTRAL DX FORUM

Page 7

editor: John Zondlo - Palmer Hall Box 113 - Muncie, Indiana 47306

deadlines: every Thursday

Dave Rogers - 623 $\frac{1}{2}$ Kansas - Norman, OK 73069

Greetings: Looks like John's doing a great job as CDXF editor. (Thanks much, Dave-JZ) I personally don't have any objection to the CIA reading DXWW as long as they pay the same as anybody else. It's my understanding that information so obtained is used in the FBIS log. I've looked at the FBIS in the library & would consider it to be of value to DXers. New veries: v/q WDR-1586 v/1 KPFE-1250 WMEE-1380+CM. WDR counts for country #23 verified on BCB (Germany). LA cx were excellent 11/15 w/report out to HOJ2-1045 for a new country. When I worked at KGYN in '69 & was the v/s I had 500 QSL cards printed that I donated to the station. They had a map of the Oklahoma Panhandle & a buffalo on them. I'm curious as to whether they've run out so if someone who has received a KGYN verie recently would comment would be appreciated. 11/4 had a surprise visit f/DXers Jeff Kadet & Paul Lotsof. Any DXers in the area are always welcome to stop by. 73 & DX.

John Zondlo - Palmer Hall Box 113 - Muncie, IN 47306

Greetings, everyone. DX lately has been hot and heavy. I'm hearing new stations even when I'm not trying to, hi. Recent veries from WPGC and WOBL, both v/1. Hope everyone had a nice Thanksgiving, sure wish I could have made it out to NJ for the big NRC get-together, but lack of \$\$\$ made it impossible. Rather use the money for a new receiver, hi. Really a bummer this year with both Christmas and New Year's happening on a Monday. I'll still be up all night hitting the dials, you better believe. Now up to 653 heard, with totals climbing daily. Any DXers wandering thru this busy (??) campus are always welcome to stop by. Muncie is a busy DXing town, with 2 IRCA members and 2 SPEEDX members, and 1 WTFDA member (me, hi). Let's all get back to the dials now so that you can all show your logs off at Hammond '73. 73 and DX.

CPC Results and Flash Tips

(continued from page 6) WSDL-1560 was not on. KDF's phone call to the stn was not answered. RLN hrd only a SS stn. TRS hrd WQXR's OC. RAK had 2 carriers, one on 1560 and one thought to be 1557.6. Alan M. and Bruce P. also tried. +++++ WAVN-1220 IRCA DX 11/27 was on per sked; one "Stillwater, Minn." hrd by RLN w/XEB QRM. TRS hrd them poorly u/WGAR on 5kw. Alan M. had too much WGAR to try. RAK had CKDA and XEB. KDF had good sigs 0350 11/27 and says they received a call from Dayton, Ohio. +++++ KTG0-1090 was apparently not on the air; KDF hrd mx only; TRS had KING. Skip (who arranged pgm) had a tone (weak) but nothing definite. RLN did not try and Alan did not hrd them. RAK had only XEPRS. +++++

Of the IRCA Tests (WSDL, KDWB, WAVN), only WAVN was on apparently. While no method will assure against the many possible causes of a no-show, a very good method to keep in mind is sending the personal doing the program a card prior to the test (but timed to arrive not more than 2 or 3 days before the test) politely advising that you'll be listening for the test "on....." and be sure to accurately describe the time and date in a manner not subject to confusion. What DXers call MM is often thought of as Sunday morning to the stn personnel. Or a program for MM will be conducted after midnight Monday (Tues. AM). This has, of course, been a very minor problem this season thanks to improved methods used by the CPC's.

Flash Tips Karl Forth notes a WMOB-840 f/c 0139-0150. ++ Brian Cartwright also rpts WWWE as per last issue, IDing as '3WE' and 'The Big E.' Formerly WKYC-1100 Cleveland. ++ Earlier, BLC had rptd WNAE-1310 Warren, Pa., fair w/TT o/CFGM at 0100 11/20. ++ Bruce Portzer advises that KBES-1540 plans to begin AN pgmg w/YL (young lady for you non-hams!) DJ around 12/4. ++ Alan Merriman hrd KKIM-1000 on f/c 0217-0221 11/27. ++ Alan also adds this info on R. Saba: Saba can not be counted as a new country because it is part of the Dutch West Indies. It is 28 $\frac{1}{2}$ miles from Dutch Sint Maarten. Is anybody hearing R. Saba? No rpts at HQ. -30-

Typist: Andrew Hecker, P.O. BOX 835, Saratoga CA 95070 (408)867-1631

See Note at end of section regarding Temp. Editor for 12/23, 12/30, and 1/6 issues.

Supporters:

ESA Eugene S. Allen, 134 Bret Harte Way, Vallejo CA 94590, HQ-129-X, 4'Sq. Loop
 GEA Gregg Allinson, 407 40th Avenue, San Francisco CA 94121, Aiwa 4 Band portable*
 AH Andrew Hecker, P.O. BOX 835, Saratoga CA 95070, Candle SS-18, my bed springs
 MM Mike McCullough, 5240 Rhonda Drive, San Jose CA 95129, ARB, SM-1 clothspin tuned
 BW Bradford Wall, 37227 Melrose Drive, Palm Springs CA *w/built in antenna
 PW Paul Welka, 15340 Union Avenue, San Jose CA 95124, HQ-145 w/Q5er, IRCA loop

600 CJOR BCo Vancouver 11/27 noted briefly under KOGO at 0406(0106) with relig.
 program giving Vancouver address. (GEA)
 620 KWSD CA Mt. Shasta in fair to good all this week, 11/20-24, 1910-1930
 (1610-1630) w/EL mx many spots in a row (like KFRC, KHJ, etc.) the
 most up to date record they have is Carol King! (the 1st-AH) and
 their studio is as big as my walk-in closet is (MM)
 630 KHOW CO Denver, mx followed by TC-Song by Albert Hammond-in clear-less
 QRM than San Bernardino QTH-0334(0034)-11/6(BW) (*BW)
 750 KXL OR Portland, rare logging for this part-timer-nx-TC-11/22-0945(0645)*
 770 KXA WA Seattle in fair in w/KOB looped 1800(1500) 11/29 this is about an
 hour and 15 min. before they normally come in (MM)
 800 CKOK BCo Pendicton?? stn in w/nx and mention at home in BC the nx...calls
 not heard because of too much slop from KGO, this past week, 11/20-25,
 1900-05(1600-05) (MM) (KGO xmtr is in Newark CA, just/-AH
 about 10 miles by air from San Jose, studios are in San Francisco)
 830 WCCO MN Minneapolis-St. Paul, 11/26 0535(0235) in ex. with wx (26°) and
 light inst. mx. (GEA)
 840 WMOB AL Mobile 0130(2230) 11/27 TT-ID at 0130&0133(2230&2233) (ESA) (or GA)
 870 WWL LA New Orleans, not really a good logging, but thought I would note
 this excellent reception with wx followed by C&W 11/13 0410(0110)
 940 KIOA IA Des Moines 0405(0105) 11/27 In clear atop QRM with ID (ESA) / (BW)
 950 KYES OR Roseberg in basically all alone w/RR and spots for RR concerts
 1100-1130(0800-0830) 11/25 (MM)
 980 KFJW AZ Lake Havasu City 0310-0313(0010-0013) 11/27 Unknown TT looped to
 KFJW-no ID heard-QRM from CKNW & KFVB(ESA) (formerly GA-AH)
 990 KRKT OR Albany, good testing w/rock (album cuts) at 0450(0150) 11/20 MM
 (PW) in good w/RR on ET 0300-0800(0000-0500) 11/27 MM, the RR mx
 was mostly LP cuts (heavy!!) (MM) 0313(0013) 11/22 Singing call
 given with test (ESA) 11/26 thxs to Pat Martin's tip, picked up at
 0444(0144) sandwiched between KFVB & KOMO. C&W with ID "KRKT
 990 kilocycles" Bad fading, poor to fair readability. Also on
 11/27 0305(0005) after KKIS s/off with cycle tones until 0325
 (0025) and SID every five minutes. SID "KRKT Albany" (GEA)
 KKIS CA Pittsburg, mx, ID, nx on 11/22 0200(2300) (BW)
 CBW Man Winnipeg, first logging of this one in 3 years or so-surprise
 under KKIS, mixing with Mexican mx, nx, hockey scores-0200(2300)
 11/22(BW) (990 is slightly busy this time, ^{hi} low "57-AH")
 1180 KOFI MT Kallispell-nx-good sig-11/22 0007(2107) (BW)
 1190 KPAR NM Albuquerque 0308 (0008) 11/22 fc with tone test-announced at 0305
 & 0308(0005&0008) KEX looped out (ESA) (wish I could loop KEX and
 KLOK slop out at the same time-AH)
 1220 WAVN MN Stillwater 0346(0046) 11/27 Hrd. S6 on special-QRM from XEB&CKDA
 & one other (ESA)
 KKAR CA Pomona in very good, w/s/on on PSA. I could even hear the hum of
 their OC 0900(0600) 11/24 then KIBE s/on, I could still hear them
 u/KIBE (MM) (with KIBE's concerts, anything comes through-hi-AH)
 1230 KLAV NV Las Vegas noted briefly 11/26 0530(0230) under KRDG. ID as "This
 is KLAV, Las Vegas." (GEA)

12/2/72

Western DX Roundup

Page 9

Typist: Andrew Hecker, P.O. BOX 835, Saratoga CA 95070 (408)867-1631

(See note below regarding Christmas vacation-DEE)

1250 KTMS CA Santa Barbara, KYA off surprisingly 11/27 0300(0000). KTMS only stn. hrd. on 1250, 1260, or 1270. Adult rock at 0434(0134) spots for Richard's Chevy (charp???-AH) in Carpintera (GEA)

1260 KGIL CA San Fernando-TC-ID 0030(2130) 11/22 (BW) 0400(0100) 11/27 s/off after religious program, KYA off (ESA)

UNID ?? ??stn was playing C&W mx, between 0635-56(0335-56) 11/27, KYA off CFRN not on yet, no IDs heard but I would think that the stn is in the midwest, HELP!(MM)

1350 KRLC ID Lewiston 0855(0555) 11/22 ID given just prior to KSRO turning on xmtr. (ESA)

1370 KXLF MN Butte 0858(0558) 11/22 local programming (ESA)

KGEN CA Tularie in fair u/o KEEN's null! w/many spots for Tularie and about 3 IDs for KGEN, and C&W mx 1930-38(1630-38) 11/25, one of my most wanted Cal. stns. (MM)

1450 KBKW WA Aberdeen fair briefly w/ID at 0500(0200) 11/22, then back under mess. (PW)

1540 KASA AZ Pheonix 1045(0745) 11/22 on top of KPOL at this QRA(ESA)

1560 WSDL LA (MM forgot city, and I forgot my log-AH)? stn u/OC, form East. 0300-0400(0000-0100) 11/27,HELP!(MM)

----- (no cutting allowed, sorry) -----

Corrections of my latest typos: GEA reports that his logging listed as 9/13, was written up wrong, should have been 11/13, also CKUB should have been CKVN, I didn't notice for some reason. I need to bring my log more often. Number of reporters is decreasing, and the amount of DX is increasing. Lets have some more reporters. Where are the reports from that big San Diego DX meeting (at ddr's). Did anyone DX or didn't anyone last that long.(hic). Welcome to John R. Sally, a new member in Ohio. Where are the new member listings? San Jose members, a few of you are not doing anything, where are you, calls more than welcome at (408) 867-1631. Out of town can call, but if collect, I will not accept. Hasn't Chicago already had a convention? San Jose is ready with open invitations, and warm receivers. I must appologize, the last stencil was really fouled up, by the holliday. I couldn't get to a good typewriter until after. Remember... **S A N J O S E I N 1 9 7 3, 7 3**

Christmas Vacation By phone, Andy advises that he'll be on vacation for three issues during Christmas season. During that period, all reports for WDXR should be sent to Don Erickson, c/o HQ. That will be for the issues of 12/23, 12/30, and 1/6/73. Deadline for the 12/23 issue in Riverside will be Thurs., Dec. 14. Please follow same procedures as established by Andy.

Next Week's Stencils This Week For a not yet explained reason, Andy's stencils intended for the 12/2 DXM were typed without enough pressure to properly cut the stencil. They were returned as quickly as possible but because they had been mailed late, they failed to arrive back there until after his deadline for next issue. Having received his stencils for 12/9 issue (these 2), they are being used in this issue. If he decides to re-type the returned stencils, they will appear next issue, if received in time, or the issue thereafter. -DEE

Jay Murley's article In researching the addenda to Jay's fine article on TP DXing for the beginner, it was surprising to notice that almost every station, though the 10 easiest, have been heard chiefly on the West Coast, to the point that, for some, every reported reception in 1971-1972 is from an actual coastal or semi-coastal city. For a couple (as you will notice), no reception was reported even as far east as Riverside. Also surprising was the extreme scarcity of reports after Dec. 1. SO--if you live farther east or farther north or receive a station at a earlier or later time or date than the record established last season, PLEASE report reception to Father Jack. Some of us apparently thought reception was so common, we didn't report it! -DEE

Editor: Miss Carol Schweiger- 41 Lawndale Road- Stoneham, MA 02180

Deadline: Thursday; Nine days before publication.

Percy R. Kesteven- 13112-134 Street- Edmonton, Alberta

I've heard seven stations in the last two months, more than I did all last year I think. KTKT-990, KNOE-540, and CBY-990 (my first Newfie and province #9) all heard 10/9 and all veries came back 10/23. Most unusual. But the best veries of late came from CHAK-860 in Inuvik, N.W.T. This was a reception made last January, so they're a bit slow in answering. I now have three N.W.T. stations. The other two are CFYK-1340 Yellowknife, for the territorial capital, and CBDJ-1490, the mighty 40 watt LPRT voice of Hay River. Still haven't got the Yukon, but I keep looking. Well, brag session over, hi. 73.

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

What can you say about Father Jack's IRCA Foreign Log? In one word, beautiful. In one guide, the beginning, intermediate, and advanced foreign DXers get, not some abstract power, frequency and call from far away like in WRTH(which, of course, still has its purpose), but rather, what stations are actually possible to pick up in this country over an entire DX season. The greater the volume of listings, the more likely the reception. And it helps a person evaluate the true rarity or commonness of his own DX. But most of all, it's a book that can convince the nonbeliever that you CAN pick up dozens of countries, even on conventional radios. I say this to every IRCA member who's still strictly a domestic DXer: Send \$2.75 check or money order (made out to IRCA) to Father Jack Pejza, 3266 Nutmeg St., San Diego, CA, 92104. You won't regret it. Find out what people like you have been picking up from all over the world, even on cheapie radios (like mine, hi!). The IRCA Foreign Log is an exciting book, and I only hope one thing: that Father Jack will receive so many words of support that we'll be assured of having a new Foreign Log put out every fall. 73.

Wm. Larry Cowles- 362 W. Marcus Drive- Tuscon, Arizona 85706

Very little DX done since last time. KPHO 910kc, Phoenix is now KJJJ, "radio KJ" and cw format. Latest veries: KRLD KCMC KYXI KOZA WKY WIBW KTRM KWBY KAMA KFOX KSEI KYW KXXL KXLF KGYN KMPG AND WBBM. There was a mistake in my last report-- KOTS deming, NM has a reg. f/c every three months on the 26th at 12:45 a.m. CST, last one being April, July; next one in Oct. TT for 15 min. My KASA verie was for a f/c 8/28, 0200-0205 with a TT. Manager says this is a reg. f/c but didn't say if it was every month on the 28th or the 4th Mon. You might look for this one as their 10kw. ND signal must really get out of El Paso. KWBY verie says they are only using 5kw. 73's...

Carol Schweiger- 41 Lawndale Road- Stoneham, MA 02180

Hi. I'm glad to be doing to WDXF. Only 3 letters rvd for this column; so I hope there is more next time. DAVE OSBORN: I answered your letter a long time ago and about 3 wks. ago I got it back saying: NO SUCH ADDRESS. What is your address??? 73's, Good DX, and PEACE. (Correct add.: 3111 S. 105th Ave., Omaha, Nebr. 68124. -DEE)

IRCA Foreign Log Sale of the Foreign Log has been excellent and a second edition for the 1972-1973 season is virtually assured. Father Jack has already started the indexing and continual updating for the next edition. With experience from the first edition, the second edition will probably be ready even earlier in the season and will, no doubt, be even larger! -DEE

Compiled by: Allen Denny, Box 300, Brule, Wisc. 54820. This list includes the American Basketball Association, National Basketball Association, World Hockey Association, National Hockey League and an addenda to the National Football League.

AMERICAN BASKETBALL ASSOCIATION

CAROLINA COUGARS

Freq	Call	Location
560	WGAI	Elizabeth City, N.C.
620	WDNC	Durham, N.C.
730	WOHS	Shelby, N.C.
780	WBBO	Forest City, N.C.
810	WCEC	Rocky Mount, N.C.
900	WIAM	Williamston, N.C.
920	WBBB	Burlington, N.C.
930*	WSOC	Charlotte, N.C.
	WITN	Washington
940	WFNC	Fayetteville, N.C.
980	WAAA	Winston-Salem, N.C.
1080	WEWO	Laurinburg, N.C.
1230	WCBT	Roanoke Rapids, N.C.
1280	WSAT	Salisbury, N.C.
1340	WJRI	Lendir, N.C.
	WJMA	Orange, Va.
	WGNI	Wilmington, N.C.
1400	WSIC	Statesville, N.C.
	WLSE	Wallace, N.C.
1420	WVOT	Wilson, N.C.
1470	WBIG	Greensboro, N.C.
1490	WLOE	Eden, N.C.
	WSVM	Valdese, N.C.
1550	WBSC	Bennettsville, S.C.
1590	WNOS	High Point, N.C.
1600	WFRC	Reidsville, N.C.

DALLAS CHAPARRALS

1080	KRLD	Dallas, Tex.
1310*	WRR	Dallas, Tex.

DENVER ROCKETS

850*	KOA	Denver, Colo.
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INDIANA PACERS

1430*	WIRE	Indianapolis, Ind.
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KENTUCKY COLONELS

840*	WREC	Memphis, Tenn.
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NEW YORK NETS

1050*	WHN	New York, N.Y.
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SAN DIEGO CONQUISTADORS

No Information

UTAH STARS

Freq.	Call	Location
590	KSUB	Cedar City, Utah
610	KVNU	Logan, Utah
910*	KALL	Salt Lake City, Utah
920	KVEL	Vernal, Utah
1230	KOAL	Price, Utah
1400	KIXX	Provo, Utah
1430	KDXU	St. George, Utah
1450	KURA	Moab, Utah
1490	KVOG	Ogden, Utah

VIRGINIA SQUIRES

790*	WTAR	Norfolk, Va.
960	WFIR	Roanoke, Va.
1230	WBBI	Abingdon, Va.
1340	WJMA	Orange, Va.
1460	WRAD	Radford, Va.

NATIONAL BASKETBALL ASSOCIATION

ATLANTA HAWKS

580	WGAC	Augusta, Ga.
750*	WSB	Atlanta, Ga.
1240	WDUN	Gainesville, Ga.
	WLAG	LaGrange, Ga.
1290	WTOC	Savannah, Ga.
1400	WKDY	Spartanburg, S.C.
1410	WLAQ	Rome, Ga.
1420	WRBL	Columbus, Ga.

BALTIMORE BULLETS

1260*	WWDC	Washington, D.C.
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BOSTON CELTICS

950	WAGM	Presque Isle, Me.
1030*	WBZ	Boston, Mass.
1110	WHIM	Providence, R.I.
1230	WERI	Westerly, R.I.
	WJOY	Burlington, Vermont
1340	WFAU	Augusta, Me.
	WDCR	Hanover, N.H.
1370	WDEA	Ellsworth, Me.
1380	WBBX	Portsmouth, N.H.
1450	WRKD	Rockland, Me.
1470	WLAM	Lewiston, Me.
1490	WTVL	Waterville, Me.

BUFFALO BRAVES

930*	WBEN	Buffalo, N.Y.
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NATIONAL BASKETBALL ASSOCIATION (Cont'd)PHILADELPHIA 76ERS

CHICAGO BULLS
Freq Call Location
 560* WIND Chicago, Ill.

Freq Call Location
 1250* WCAU Philadelphia, Pa.

PHOENIX SUNS
 620* KTAR Phoenix, Ariz.

CLEVELAND CAVALIERS
 930 WEOL Elyria, Ohio
 1240 WBBW Youngstown, Ohio
 1300* WERE Cleveland, Ohio
 1400 WMAN Mansfield, Ohio
 1480 WHBC Canton, Ohio

PORTLAND TRAIL BLAZERS

970* KOIN Portland, Ore.
 1110 KBND Bend, Ore.
 1150 KAGO Klamath Falls, Ore.
 1230 KTDO Toledo, Ore.
 KVAS Astoria, Ore.
 1240 KFLY Corvallis, Ore.
 KQEN Roseburg, Ore.
 KTIK Pendleton, Ore.
 1340 KIHR Hood River, Ore.
 1440 KODL The Dalles, Ore.
 1450 KEED Eugene, Ore.

DETROIT PISTONS
 760* WJR Detroit, Mich.

GOLDEN STATE WARRIORS
 1370* KEEN San Jose, Calif.
 1390 KCEY Turlock, Calif.
 1530 KFBK Sacramento, Calif.
 1590 KWIN Lodi, Calif.

SEATTLE SUPERSONICS

560 KPQ Wenatchee, Wash.
 920 KXLY Spokane, Wash.
 960 KALE Richland, Wash.
 1000* KOMO Seattle, Wash.
 1240 KXLE Ellensburg, Wash.
 1280 KIT Yakima, Wash.
 1450 WBKW Aberdeen, Wash.

HOUSTON ROCKETS
 950* KPRC Houston, Texas

KANSAS CITY-OMAHA KINGS
 980* KMBZ Kansas City, Mo.
 1490* KLNQ Omaha, Neb.

WORLD HOCKEY ASSOCIATION

LOS ANGELES LAKERS
 640* KFI Los Angeles, Calif.

MILWAUKEE BUCKS
 550 WSAU Wausau, Wisc.
 620* WTMJ Milwaukee, Wisc.
 960 WTCH Shawano, Wisc.
 980 WCUB Manitowac, Wisc.
 1130 WISN Milwaukee, Wisc.
 1230 WCLO Janesville, Wisc.
 WXCO Wausau, Wisc.
 1240 WOBT Rhinelander, Wisc.
 1260 WEKZ Monroe, Wisc.
 1280 WNAM Neenah, Wisc.
 1300 WLOT Marinette, Wisc.
 1340 WLDY Ladysmith, Wisc.
 1350 WPDR Portage, Wisc.
 1380 WBEL Beloit, Wisc.
 1400 WBIZ Eau Claire, Wisc.
 WRJN Racine, Wisc.
 1430 WBEV Beaver Dam, Wisc.
 1440 WNFL Green Bay, Wisc.
 1450 WRCO Richland Center, Wisc.
 1490 WIGM Medford, Wisc.
 1590 WSWW Platteville, Wisc.

ALBERTA OILERS
 930 CJCA Edmonton, Alberta

CHICAGO COUGARS
 930 CJCA Edmonton, Alberta

CLEVELAND CRUSADERS
 930 CJCA Edmonton, Alberta

HOUSTON AEROS
 930 CJCA Edmonton, Alberta

LOS ANGELES SHARKS
 KUTE - FM Los Angeles

MINNESOTA FIGHTING SAINTS
 1330 WLOL Minneapolis, Minn.

NEW ENGLAND WHALERS
 850 WHDH Boston, Mass.

NEW YORK RAIDERS
 570 WMCA New York, N.Y.

NEW YORK KNICKS
 660* WNBC New York, N.Y.

OTTAWA NATIONALS
 1310 CKOY Ottawa, Ont.

PHILADELPHIA BLAZERS
 No Information

<u>WORLD HOCKEY ASSOCIATION (Cont'd)</u>			<u>NEW YORK ISLANDERS</u>		
Freq	Call	Location	Freq	Call	Location
			1050*	WHN	New York, N.Y.
<u>QUEBEC NORDIQUES</u>			<u>NEW YORK RANGERS</u>		
1060	CJRP	Quebec, Que.	660*	WNBC	New York, N.Y.
<u>WINNIPEG JETS</u>			<u>PHILADELPHIA FLYERS</u>		
No information			1210*	WCAU	Philadelphia, Pa.
<u>NATIONAL HOCKEY LEAGUE</u>			<u>PITTSBURGH PENGUINS</u>		
<u>ATLANTA FLAMES</u>			1020*	KDKA	Pittsburgh, Pa.
750*	WSB	Atlanta, Ga.	<u>ST. LOUIS BLUES</u>		
<u>BOSTON BRUINS</u>			1120*	KMOX	St. Louis, Mo.
900	WCME	Brunswick, Me.	<u>TORONTO MAPLE LEAFS</u>		
950	WAGM	Presque Isle, Me.	740	CBL	Toronto, Ont.
1030*	WBZ	Boston, Mass.	1430*	CKFH	Toronto, Ont.
1110	WHIM	Providence, R.I.	<u>VANCOUVER CANUCKS</u>		
1230	WERI	Westerly, R.I.	560	CKNL	Fort St. John, B.C.
	WJOY	Burlington, Vermont	570	CKEK	Cranbrook, B.C.
1240	WOCB	W. Yarmouth, Mass.	580	CKXR	Salmon Arm, B.C.
1290	WKNE	Keene, N.H.	610	CJAT	Trail, B.C.
1350	WLMH	Laconia, N.H.	630	CKOV	Kelowna, B.C.
1370	WDEA	Ellsworth, Me.	800	CKOK	Penticton, B.C.
1380	WBBX	Portsmouth, N.H.	900	CJVI	Victoria, B.C.
	WSYB	Rutland, Vermont	960	CFAC	Calgary, Alta.
1400	WBRL	Berlin, N.H.	980*	CKNW	New Westminster, B.C.
1420	WBEC	Pittsfield, Mass.	1230	CFBV	Smithers, B.C.
1450	WRKD	Rockland, Me.	1240	CFVR	Abbotsford, B.C.
1470	WLAM	Lewiston, Me.		CKOO	Osoyoos, B.C.
1480	WCFR	Springfield, Mass.		CKWL	Williams Lake, B.C.
1490	WTVL	Waterville, Me.	1270	CHWK	Chilliwalk, B.C.
<u>BUFFALO SABRES</u>			1340	CKCR	Salmon Arm, B.C.
550*	WGR	Buffalo, N.Y.	1350	CJDC	Dawson Creek, B.C.
<u>CALIFORNIA GOLDEN SEALS</u>			1400	CFLD	Smithers, B.C.
1370*	KEEN	San Jose, Calif.	<u>FOOTBALL ADDENDA</u>		
<u>CHICAGO BLACK HAWKS</u>			<u>WASHINGTON REDSKINS</u>		
670*	WMAQ	Chicago, Ill.	550	WSVA	Harrisonburg, Va.
<u>DETROIT RED WINGS</u>			560	WFRB	Frederick, Md.
950*	WWJ	Detroit, Mich.	590	WLVA	Lynchburg, Va.
<u>LOS ANGELES KINGS</u>			630*	WMAL	Washington, D.C.
640*	KFI	Los Angeles, Calif.	810	WCEC	Rocky Mount, N.C.
<u>MINNESOTA NORTH STARS</u>			870	WFLO	Farmville, Va.
710	WDSM	Duluth, Minn.	960	WFIR	Roanoke, Va.
790	KFGO	Fargo, N.D.	1000	WIOO	Carlisle, Pa.
830*	WCCO	Minneapolis, Minn.	1010	WCST	Berkley Springs, W. Va.
1440	KILO	Grand Forks, N.D.	1070	WINA	Charlottesville, Va.
<u>MONTREAL CANADIANS</u>			1230	WFVA	Fredericksburg, Va.
600*	CFCF	Montreal, Que.	1240	WSSV	Petersburg, Va.
			1250	WEER	Warrenton, Va.
			1260	WJJJ	Christiansburg, Va.
			1290	WAGE	Leesburg, Va.
			1340	WEPM	Martinsburg, W. Va.
				WJMA	Orange, Va.
			1370	WKIK	Leonardtwn, Md.

(Continued)

WASHINGTON REDSKINS (cont'd)

1380	WTVR	Richmond, Va.
1400	WINC	Winchester, Va.
1410	WHAG	Hagerstown, Md.
1450	WFTR	Front Royal, Va.
	WTBO	Cumberland, Md.
1460	WPRW	Manassas, Va.
1490	WCVA	Culpepper, Va.
	WVEC	Hampton, Va.
1530	WQVA	Quantico, Va.
1550	WXVA	Charles Town, W. Va.
1560	WSMD	LaPlata, Md.

* Indicates flagship station.

DX Calendar Addresses All CPC members are reminded that when you arrange a DX program, you should immediately notify at least two people, Ernie Cooper and Don Erickson. If there is time, please notify Tom Sundstrom. You should also advise Randy Minnehan as soon as you get a chance. These are the correct addresses and deadlines: NRC Musing Editor, Ernest R. Cooper, 438 E. 21st, Carrier Route 56, Brooklyn, NY 11226. Deadline is Thursdays. IRCA DX Calendar, Don Erickson, 6059 Essex St., Riverside, Calif. 92504. Deadline is presently quite variable from Thurs. to following Monday. NNRC Asst BCB Editor,

Thomas R. Sundstrom, P. O. Box 205, Willingboro, N.J. 08046. Next deadline is 12/12. Randy V. Minnehan, CPC Chairman, 975 Chestershire Rd., Columbus, OH 43204. Randy has no deadline, naturally; it is not his duty to distribute information to clubs. Shel Swartz, CPC Action, 290 Court St., Plymouth, MA 02360, should also be advised of programs as soon as arranged, and particularly last-minute tests. IRCA CPC members are supposed to submit information on an IBM punch card mimeographed with blanks to fill in. These then are kept in chronological order and the information is used to prepare DX Calendar, rather than shuffling through cards and letters. If you do not have these "IBM" cards, please send an SASE to IRCA HQ and mark it "IBM cards."

DX Calendar

Mon. -----	0300-0330	KLEB	1600	Golden Meadow, LA	1kw	D1	NRC/Ernest Cooper
	0330-0400	WLNG	1600	Sag Harbor, NY	500w	D1	NRC/Ernest Cooper
Mondays	0530-0542	WTSO	1070	Madison, WI	10kw/5kw	U4	IRCA/DF & NNRC/GV
Mon. Dec. 11	0300-????	KRKT	990	Albany, OR	250w	D1	NNRC/Paul Petersky
	0000-0200	<u>WSUF</u>	1580	Patchogue, NY	10kw	D3	NRC/Russ Edmunds
	0130-0200	<u>WLNA</u>	1420	Peekskill, NY	1kw	D1	IRCA/Fred Tschudy
	0300-0330	WMWM	1090	Wilmington, OH	1kw	D3	NRC/Ernest Cooper
Tue. 12	0430-0500	WPAD	1450	Paducah, KY	1kw	U1	NNRC/Jim Lovell
Sat. 16	0000-0015	<u>WMCS</u>	1400	Machias, ME	1kw	U1	NRC/Ron Musco
Mon. 18	0200-????	<u>KNOE</u>	540	Monroe, LA	5kw	U4	NNRC/Gene V.
	0200-????	WCWC	1600	Ripon, WI	5kw	U4	NNRC/Gene V.
	0200-0300	WCHV	1260	Charlottesville, VA	5kw/1kw	U4	NNRC/VDXA-Heutte
	0330-????	WEKR	1240	Fayetteville, TN	1kw	U1	NNRC/Jim Lovell
Mon. 25	0100-????	WLIK	1270	Newport, TN	5kw	U2	NNRC/Jim Lovell
Sun. 31	0000-????	WJVA	1580	South Bend, IN	1kw	D1	NRC/Chris Cross
late Dec.		WSBS	860	Grt Barrington, MA	250w	D1	NRC/Wes Boyd
Mon. Jan. 8	0000-0530	WGNG	550	Pawtucket, RI	1kw	U2	NNRC/IRCA
	0300-0400	<u>KDDA</u>	1560	Dumas, Arkansas	500w	D1	IRCA/Karl Forth

Other 1973 Tests: WJDX, KOTA, KWHN, KGHL, WKIG, KLCL, WRAN, and WCER.

KLEB & WLNG info appeared last issue. Still no word on estimated date for these. WTSO will conduct ETs w/MoR, voice IDs through at least the end of the year. Tests will be "for about 12 minutes..." Reports to: Mr. Sherman Stern, CE, WTSO, P. O. Box 44, Madison, WI 53701. -IRCA/Dave Faulkner and NNRC/Gene Vonderembse
KRKT has been testing MMs thru Dec. 11; include SASE and send reports to: Mr. Mark Robbins, CE, KRKT, 2840 Marion, Albany, OR 97321. -NNRC/Paul Petersky
WSUF is the correct call, Russ says. They will use TT, music, IDs. Pattern will be ND; reports go to: Mr. Wayne Wicks, WA2KEC, CE, WSUF, P. O. Box 717, Patchogue, New York 11772. -NRC/Russ Edmunds
WLNA will use cycle tone and IDs. Reports to to: Mr. Nat Johnson, CE, WLNA, Radio Terrace, Peekskill, NY 10566. -IRCA/Fred Tschudy Jr.
WMWM reports to: Mr. Roland Roy, CE, WMWM, P. O. Box 1, Wilmington, OH 45177. This is a re-sked of earlier planned programs. -NRC/Ernie Cooper
WPAD was originally sked for Mon. Dec. 11; IRCA was notified that it was re-sked for Dec. 12. -----write-ups contained on page 5-----

EDITOR: Bruce Portzer - 14056 5th Avenue South - Seattle, Washington 98168 - U.S.A.

	TDH	SH	PH	ALASKA	TENNESSEE	NOVA SCOTIA	YR
1. David Thomas, Fla. *	3255	50	11	5 Adak-890	82 WSIX-1200	12 VAS-685	24
2. Gene Allen, Calif. *	3030	49	8				23
3. Roger W. Winsor, Ind. *	2708	50	10	1 KYAK-650	108 WIRJ	2 CJCH	
4. Frank Wheeler, Pa.	2536	50	9	1 KFAR-660	98 WSIX-1240	9 CBI-1140	30
5. Dave Whatmough, Ont.	1576	49	10	- ----	59 WCPH-1220	7 CKEC-1320	65
6. Charles Hrinko, N.J.	1366	45	8	- ----	53 WPTN-1550	6 CJCB-1270	64
7. John H. Shannon, Pa.	1324	49	9	- ----	50 WKGN-1340	4 CKBW-1000	63
8. Ernie Wesolowski, Nebr.*	1318	47	9	- ----	37	1	58
9. John Hoogerheide, Mich.*	1295	50	8	1 KYAK-650	24 WDIA-1070	3 CJCB-1270	68
10. George Sherman, Minn. *	1233	46	8	- ----	40 WENK-1240	1 CJCB-1270	65
11. Steve Taaffe, Ind.	1196	48	9	- ----	61 WDXB-1490	2 CJCB-1270	70
12. Dave Faulkner, Mich.	1112	48	8	- ----	39 WROL-1490	3 CKEC-1320	
13. Larry Abraham, Mich.	1063	47	9	- ----	39 WHHM-1580	4 CJCH-920	60
14. Bill Willis, Calif. *	972	47	8	7 Adak-890	11 WSKT-1580	- ----	60
15. Richard T. Eddie, Mo.	964	47	6	- ----	46 WDXN-540	- ----	67
16. Bill Raczek, Ohio *	962	48	10	- ----	31	4 CHER-950	
17. Bruce Portzer, Wash.	915	44	7	12 KFRB-900	4 WYXI-1390	- ----	64
18. Dr. Michel Breger, N.Y.	901	47	9	- ----	10	6	70
19. Robert Kramer, Ill.	876	44	8	- ----	38 WKPT-1400	1 CHNS-960	70
20. Stephen Francis, Tenn.	876	38	4	- ----	86 WFWL-1220	- ----	70
21. Robert W. Buddenbohn, Mi*	846	40	7	- ----	39 WCMM-1380	6 CKDH-900	67
22. Ralph Kemper, Colo. *	826	39	6	- ----	4 WDXN-540	- ----	66
23. Mike McCullough, Calif.	823	44	7	8 KBYR-700	5 WMPS-680	1 CJCB-1270	69
24. John Johnson, Mont.	822	43	7	- ----	5 WREC	- ----	62
25. Blake Lawrence, Colo. *	816	40	7	- ----	9 WETE-620	- ----	69
26. Raymond Arruda, Mass. *	802	42	8	- ----	27 WVOL-1470	5 CKEC-1320	63
27. Quentin Brown, Ont.	775	47	10	- ----	11 WKDA-1240	9 CKEN-1350	68
28. Jerry Robertson, Mich.	715	42	7	- ----	16 WATE-620	2 CJCB-1270	68
29. Jeff Hodge, New York	690	47	9	1 KFAR-660	26 WHMT-1190	6 CKEC-1320	70
30. George C. Greene, Ohio	670	45	7	- ----	23 WKDA-1240	2 CHNS-960	60
31. Nancy Gantzer, N.Y.	662	44	7	- ----	22 WSEV-930	3 CKEC-1320	69
32. Joe Markewicz, Man. *	659	41	8	1 KFQD-750	2 WLAC-1510	- ----	67
33. Jan H. Brown, Pa.*	629	42	8	- ----	14 WSM-650	2 CKBW-1000	57
34. Peter Campbell, Mich.	574	39	5	- ----	14 WEMB-1420	1 CKDH-900	69
35. Tom Sundstrom, N.J.	562	45	8	- ----	14 WDXB-1490	5 CKEC-1320	57
36. Bruce McFadden, N.Y.	546	41	6	- ----	8 WKGN-1340	4 CBH-860	68
37. Robert L. Neal, Calif.	541	42	5	7 KSRM-920	4 WMC	- ----	67
38. Fred Hendricks, Ill.	531	38	5	- ----	26 WJZM-1400	- ----	70
39. John Zondlo, Ind. *	525	39	5	- ----	29 WECO-940	- ----	70
40. Dave Christensen, Wash.	512	34	5	7 KCAM-790	2 WLAC-1510	- ----	68
41. Bill Migley, Ohio	500	46	8	- ----	19 WTPR-710	1 CHNS-960	66
42. Richard C. Mayhew, Que.	484	34	7	- ----	8 WJCW-910	4 CKBW-1000	69
43. Allen Napier, Fla.	481	33	5	- ----	27 WHUB-1400	- ----	68
44. Brian Cartwright, Pa.	478	34	6	- ----	12 WBIR-1240	3 CJCB-1270	
45. Andy Hecker, Calif.	476	43	6	5 KICY-850	2 WLAC-1510	- ----	68
46. Father Jack Pejza, Calif.	471	39	6	5 KYAK-650	3 WSIX-980	- ----	68
47. Darryl Belanger, Man.	465	36	6	- ----	4 WDXN-540	- ----	63
48. Ken Norne, B.C.	463	38	6	7 KTKN-930	2 WLAC-1510	- ----	68
49. Bruce Tarr, Va. *	455	38	7	- ----	11 WGNS-1450	1 CKBW-1000	69
50. Cathy Woodruff, Ohio	442	35	4	- ----	28 WBRY-1540	- ----	69
51. Robert Allan Berger, NY *	429	36	6	- ----	9 WLIJ-1580	3 CBI-1140	69
52. Grant Manning, Calif.	424	36	5	4	2	- ----	57
53. Jim Boyd, Okla.	415	37	6	- ----	13 WPJD-1550	- ----	70
54. Rick King, Manit. *	414	40	7	1 KFAR-660	2 WLAC-1510	- ----	70
55. James L. Pitts, Calif.	409	32	5	- ----	2 WLAC-1510	- ----	70
56. Bill Harang, Calif.	409	32	5	1 KYAK-650	1 WSM-650	- ----	68

57.Ron Hayter, B.C.	400	35	6	2	KINY-800	2	WLAC-1510	-	----	69
58.Tim Saltmarsh, N.H.	397	31	5	-	----	3	WFLI-1070	2	CKBW-1000	71
59.Parker Moore, B.C.	386	33	6	2	KIAK-970	1	WCAU 1210	-	----	69
60.Brian Wing, B.C.	376	35	6	3	KFAR-660	2	WLAC-1510	-	----	69
61.Vincent Miniaci, N.Y. *	360	34	5	-	----	5	WFLI-1070	1	CHNS-960	70
62.Marty Fosberg, Calif. *	352	36	5	3	AFRS-890	1	WSM-650	-	----	70
63.Budd Bailey, N.Y.	346	41	9	-	----	7	WPJD-1550	4	CBH-860	71
64.Randy Minnehan, Ohio	344	43	6	-	----	8	WGOW 1150	-	----	70
65.Mike Hardester, Calif.	336	40	5	3	KYAK-650	1	WSM-650	-	----	68
66.Melville Coffin, B.C. *	329	35	6	3	KIKN-930	2	WLAC-1510	-	----	69
67.George Jensen, Md. *	307	33	5	-	----	6	WFLI-1070	-	----	52
68.Paul Petersky, Wash.	298	34	5	3	KFAR-660	2	WLAC-1510	-	----	71
69.David Oliphant, Alta.	289	34	6	-	----	1	WSM-650	-	----	69
70.Marc Tarpsee, N.Y. *	283	36	8	-	----		WHBQ-560		CHNS-960	69
71.John Tull, Mo.	271	35	5	-	----	9	WDIA-1070	-	----	70
72.Bill Lemak, Fla. *	268	40	5	-	----		WSGN-1240	-	----	69
73.Thomas White, Va. *	248	32	3	-	----	8	WLIL-730	-	----	68
74.Russell Francis, Calif. *	221	33	5	1	KFAR-660	1	WSM-650	-	----	70
75.Jerry Maule, Conn. *	211	26	5	-	----	1	WSM-650	2	CJLS-1340	67
76.Steve Tordoff, Calif.	209	28	4	-	----	1	WSM-650	-	----	71
77.Gregg Allinson, Calif.	208	23	3	-	----	1	WSM-650	-	----	71
78.Morris Sorensen, Man. *	203	29	7	-	----	2	WLAC-1510	-	----	71
79.Bill Seeley, Calif. *	200	30	6	-	----	2	WLAC-1510	-	----	59
80.Jim Malachowski, Ill.	197	34	4	-	----	7	WROL-1490	-	----	71
81.Don Dumbeck, Oregon *	194	23	4	-	----	1	-	-	----	68
82.Keith Mell, Iowa	188	30	4	-	----	4	WSM-650	-	----	71
83.Wendell Abernathy, Ga. *	187	31	2	-	----	17	WIXC-1140	-	----	72
84.William H. Lee, Kans.	177	31	4	-	----	1	WSM-650	-	----	67
85.David Bury, Mich.	177	28	3	-	----	3	WATE-620	-	----	71
86.Paul Hill, Va.	171	34	3	-	----	4	WATE-620	1	CHNS-960	65
87.Tim Holderle, Mo.	168	30	3	-	----	7	WDOD-1310	-	----	69
88.Michael Hogan, Ind.	160	30	4	-	----	2	WSM-650	-	----	69
89.John Simmons, N.Y.	158	26	3	-	----	3	WLAC-1510	-	----	70
90.Mike Muench, Ont. *	158	22	3	-	----	3	-	-	----	70
91.Mike Vandever, Calif.	149	20	3	-	----	-	----	-	----	66
92.Karl Bartlett, N.J. *	142	24	3	-	----	2	WLAC-1510	-	----	71
93.Brad Clark, Idaho *	140	24	4	-	----	-	----	-	----	71
94.Mike Johnson, N.Y. *	119	23	3	-	----	2	WLAC-1510	-	----	70
95.Gary Pratt, Mich. *	117	26	2	-	----	4	-	-	----	71
96.A.Y. Papafingos, Calif. *	109	22	1	-	----	-	----	-	----	69
97.Larry V. Fegle, Va. *	108	26	2	-	----	4	WHBQ-560	-	----	72
98.Glenn Swiderski, Ill.	107	25	1	-	----		WKGK-1340	-	----	72
99.Bruce McFadden, Okla. *	103	21	1	-	----	3	WMC-790	-	----	71
100.George Kestevan, Alta.	91	25	4	-	----	-	----	-	----	70
101.Rich Segalas, Calif.	87	13	3	-	----	1	WSM-650	-	----	71
102.Bill MacCannon, Wyo. *	51	18	3	-	----	1	WSM-650	-	----	71
103.Sam Lee, Idaho *	51	7	1	-	----	-	----	-	----	71
104.Gary Hurd, Texas	47	14	0	-	----	2	WREC-600	-	----	70
105.James P. Mohler, Iowa	40	29	4	-	----	1	WSM-650	-	----	69

TDH-total domestics heard, SH-states heard, PH-provinces heard, YR-year began DXing. Asterisk * indicates it's time to update if you want to remain in the list. Next time we'll have best heard from Europe and Asia, followed by Best Verified from Michigan, Mississippi, and Rhode Island, and then best verified from Africa and Oceania. Heres a question for the general membership: are there any other types of statistics you'd like to see listed here? Possibilities include best veries from different countries, most distant veries, number of countries from a particular continent, etc. If you have other suggestions let me know. 73 and Good DX. btp.
 "You can never turn your back on your face" - Robert O. Smith

YOUR FIRST STATION
ON THE OTHER SIDE OF THE PACIFIC

Chances are that you've never heard a BCB station on tomorrow's side of the International Date Line. The average eastern DXer has problems enough logging Hawaii or Alaska, both of which genuinely rate attention in the Trans-Pacific portions of DX Worldwide. Many DXers who should have logged at least one Jap, Korean, Chinese, or Russian feel justifiably frustrated in reading five rather simultaneous receptions each of Japan's JOUB-770 on October 9 or Peking-1040 on October 15. (Of course, there was a contest going on, but ...).

Why the frustrations?

First, your geography. If you live northeast of Jacksonville, Montgomery, Memphis, Des Moines, and Saskatoon (or so), it's going to be very tough to pull a readable signal through that auroral shield. It's been done, even as far northeast as Boston, but it requires immense skill, patience, and equipment. On the other hand, if you live on the Pacific Coast, without a nearby hill - or some decent-sized mountains within a few miles - to your north or northwest, any respectable receiver and a proper antenna should be sufficient.

Second, your listening hours. The California high-school sophomore whose parents forbid staying up after midnight with school the next day isn't going to have much luck with stations that fade in as early as midnight only one or two decent December mornings each year. There is a solution: set your alarm clock for three a.m. or so and check a few key frequencies below. Peak reporting hours reflect West Coast listening habits: the bulk run 0900-1200 GMT (1:00-4:00am PST). But at least one well-known DXer, Ralph Sanserini, does most of his TP listening from 1300 to 1500 GMT (5:00-7:00am PST).

Third, your gear. If you haven't got a loop, a long wire, properly directionalized, can do the trick from some locations. (But a loop is very, very useful). If you've got both, and a standby receiver as well, hook the long wire to your standby receiver. On nights when the Trans-Pacific stations are in, you can log some impressive Japanese and North Korean totals on network parallel programming. Just as you may be doing already with Mexicans or sports networks a few hours earlier on Sunday nights.

Fourth, your targets. Most of us who do much TP DXing don't bother reporting the likes of JOUB or Peking-1040 in the middle of peak DX season. If you haven't got JOUB, forget about its parallel, JOPD, then kilocycles away. Log the big guns - just like you logged domestic clear channels in your first DXing.

The ten most commonly heard stations across the Date Line are: 655 North Korea (usually in Japanese); 725 North Korea (in Korean); 750 Japan (in Japanese); 770 Japan (in Japanese); 830 Japan (in Japanese); 835 Mainland China (in Chinese); 844 Gilbert and Ellice Islands (in English or local dialects); 877 North Korea (in Korean); 1040 Mainland China (in Chinese or Japanese); and 1529 USSR (in Russian or Chinese). To make matters easier, the Japanese stations above are commonly reported in English lessons.

Four of these stations dominate most first catches over the past year or two. Among the Japanese, JOUB, with NHK's Second Network, a superpower broadcasting on 770 from Akita; and fellow affiliate JOBB is Osaka's powerhouse on 830. Taking them one at a time, 770 shows KOB off MMs with WABC easily loopable for most readers who can take advantage of these notes. It also has Bogota's Radio Tequendama and a few weaker Caribbean stations to create a log jam at times. Turning to 830, WCCO shares the frequency with Havana and Honolulu's KIKI. In both cases, one key Spanish language station presents a problem, and Spanish does sound like Japanese on weak stations. So it might be useful to note that NHK2's English language lessons are currently timed 0845-0945 GMT (0045-0145 PST). Don't expect to hear a clipped "We are going to take a jet to New York" very often on Havana (and hope you never hear it reversed in mid-air, hi!). Or for that matter, on the hard-driving Bogota music outlet. Both NHK2 stations carry pips on the hours: pip-pip-pipPEEP, the last one slightly delayed, several times stronger, and a few notes higher. On a difficult night, (pse turn over)

YOUR FIRST STATION
ON THE OTHER SIDE OF THE PACIFIC

(continued from the other side)

(On a difficult night,) only that final pip can be heard - and that can be broken up a bit by QRM. 770, of course, is best on Monday mornings - unless you DX after Albuquerque's fade into the sunrise on other days. As for 830, it's at its very best after Minneapolis sunrise; otherwise any night in season is worth trying.

Peking on 1040 presents similar problems. The dominant mid-Westerner is Country & Western WHO in Des Moines, with KHVH in Honolulu and Radio Tropical in Barranquilla, Colombia, presenting likely opposition. Listen for announcers in Japanese, Oriental or martial music, but not for any pips on the hour. The interval signal is "East Is Red," if you're familiar with it on the SW dial.

The fourth station we should list is a bit tougher on the Pacific Coast, but more likely to be heard in the American mid-West or central Canada. Tarawa's VSZ1 is best heard from 0730 to 0915 GMT (11:30pm to 1:15am PST) at 844. Its key competitor is Rome-845, and several top eastern DXers have heard the RAI outlet mixing with some kind of signal from the coral atoll on the other side of the world. This is one signal that doesn't have to pass through aurora to reach the northeast, but it does require four or five skips. Even the best of signals tend to get washed out in that much bouncing. Listen for Polynesian-sounding chants and choruses and announcers in what might resemble gibberish. Adjacent channel slop consists largely of KOA and KTAC on 850 and WHAS, now an all-nighter, on 840.

On all four stations, patience is the key. Be prepared to listen five minutes to each frequency at a minimum: these are long hard signals subject to fades over a minute long. At times, the Asiatics are subject to flutter for many listeners when the signal peaks. The flutter is widely believed to be caused by the signal coming in under the aurora, skipping, and taking off again at a very low angle without getting diffused in the super-charged layers above.

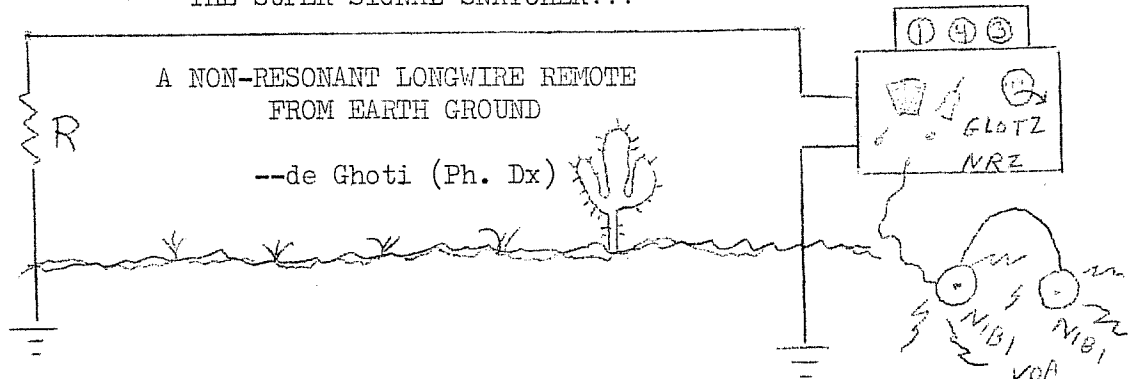
You'll find most consistent reporting from early October through mid-November and again from late December thru early March, with the period from late May thru early September most difficult for such receptions. Good luck!

-Dr. Jay Molar (DDS) - 1733 Candlestick - Newport Beach, California 92660

(Written to help the newer IRCA DXer, particularly those on the West Coast; permission is hereby given to reprint in full or part provided full credit is given to Jay Murley)

<u>Freq</u>	<u>Call</u>	<u>Location</u>	<u>Earliest Time/Date</u>		<u>Latest Time/Date</u>	
655		Pyongyang, North Korea	0740	11/10	1200	9/5
			1445	10/25	1245	3/10
27 receptions; 3 receptions after 12/1. Farthest east: Gene Martin, Denver.						
725		Kim Chaek, North Korea	0905	10/4	1220	9/10
			1320	2/27	1255	3/10
Total: 12; 2 after 12/1. F.e.: Glenn Hauser, Von Ormy, Texas. F.n.: PP, BP, Seattle.						
750	JOIB	Sapporo, Japan	0850	10/25	1030	9/6
			1310	2/27	1305	3/10
Total: 15; 3 after 12/1. F.e.: Gene Martin, Denver. F.n.: Mel Coffin, Mission Cy, B.C.						
770	JOUB	Akita, Japan	0825	10/25	1220	8/2
			1325	2/29	1027	4/26
Total: 31; 5 after 12/1. F.e.: Gene Martin, Denver. F.N.: Mel Coffin, Mission Cy, B.C.						
830	JOBB	Osaka, Japan	0915	10/25	1200	9/5
			1445	1/18	1330	3/26
Total: 28; 7 after 12/1. F.e.: Glenn Hauser, Von Ormy, Texas. F.n.: PMo, Vancouver.						
835		Nanchang, China	1051	11/8	1250	9/12
			1445	10/25	1346	3/10
Total: 22; 4 after 12/1. F.e.: <u>none</u> except on <u>coast</u> . F.n.: Coffin, Mission City, B.C.						
844	VSZ1	G & E Islands	0700	10/25	0750	9/4
			0917	1/10	0830	4/3
Total: 22; 5 after 12/1. F.e.: Taylor & Edmunds, NJ; Foxworth, NY; Feidt, Maryland.						
877		Wonsan, North Korea	0930	10/11	1120	8/22
			1352	10/16	1315	3/26
Total: 13; 3 after 12/1. F.e.: none except on coast. F.n.: Parker Moore, Vancouver.						
1040		Peking, China	1032	10/24	1135	8/30
			1325	10/27	1210	4/27
Total: 17; 6 after 12/1. F.e.: all in coastal cities! F.n.: Mel Coffin, Mission Cy.						
1529		USSR, location unknown	1035	2/14	1105	10/18
			1345	2/27	1110	3/6
Total: 12; 4 after 12/1. F.e.: Erickson, Riverside. F.n.: BP, PP, Seattle area.						
---all above statistics from Father Jack Pejza's IRCA Foreign Log, 1971-1972---						

*** THE SUPER SIGNAL SNATCHER!!! ***



Otherwise known as the terminated Beverage Antenna, this super signal snatcher can be erected with very little difficulty provided sufficient land is available. In recent years, BCB DXers have used this type of antenna and their very out-of-the-ordinary receptions have been listed in both DXN and DXM.

The purpose of this article is to present a bit of the theory of operation (simplistic), to present some "paperwork" evaluations that can be made for performance estimation prior to construction and to describe one manner of construction which has proven quite practical.

The configuration for this antenna is very simple: a long long wire is erected as close as possible to a given fixed height above the ground and run as straight as possible in a given direction. Two views are shown in Figures A and B with length of wire L (feet), height above ground H (inches), wire diameter D (inches) and orientation for reception of signals from the general direction of A° azimuth.

Bidirectional operation can be had by removing the resistor R at the expense of directivity and hence gain. However, unidirectional operation is assumed here as it is most likely the desirable mode of operation.

Almost all antennas require a ground plane of high conductivity for greatest performance and belong to the huge general classification of E-field antennas--i.e., the most important component of the electromagnetic (radio) wave is the electric component. The loop antenna, on the other hand, is about the only H-field (magnetic) antenna in that, in theory, it derives its performance from the magnetic component.

Consider Figure C. A wavefront W travels in the forward direction of W (the pointing vector) where $W = E \times H$, W is normal to the plane formed by E and H which are themselves normal to each other. As this wavefront passes along and above the ground (earth) plane G , E can be broken into horizontal (EH) and vertical (EV) components. The vertical component induces no currents in the antenna but EH does so that as the wavefront travels along the path of the antenna and the finite ground constants cause W to tilt more and more towards the vertical and thus E toward the horizontal (hence decreasing EV and increasing EH --desirable!), the greater the "signal" induced in the antenna. Ground with poorer electrical properties tilts the wavefront more than earth with good electrical parameters. Hence, the Beverage is expected to perform better over poorer ground--exactly the opposite of what one would naively expect!

The directional properties of the antenna can be explained in the following simple manner: In Figure C, as depicted, W is progressing from end A to end B, so if a RX is connected between B and ground (earth), the "signal" EH would appear at its antenna terminals. If the RX were replaced by a resistor R of a certain value, the "signal" energy would be almost entirely dissipated in the form of heat. Suppose now end B was not connected to either R or a RX and was left "floating"--not connected to anything--and a RX was connected at end A to earth ground. The "signal" travelling from A to B would "run out of wire" (see an impedance discontinuity) and it would be in large part reflected back along the wire to arrive eventually at A as input to the RX. Thus, with B "floating", wavefronts travelling from A to B and from B to A arrive at the RX--bidirectional operation. To restore unidirectional operation then, RX at A, a resistor is placed at end B to ground thus suppressing the wavefronts passing from A to B but allowing those from B to A to arrive at the RX. That is, in the unidirectional (cont'd)

(That is, in the unidirectional) mode, the antenna receives best from the general direction the antenna is "pointing"--the direction of the large arrow in Figure B.

As a point in terminology, this type of antenna is often referred to as a traveling wave (longitudinal with the wire) antenna as opposed to the much larger classification of standing-wave mode antennas.

To be correct, the termination required at the remote or far end of the antenna is not purely resistive so perfectly a network is required. However, it is not practically possible to totally terminate the wave progressing along the antenna to its remote end because the components of this terminated network depend upon the distributed parameters (constants per unit length) of capacitance, inductance, resistance and conductance, several of which vary with frequency so that the characteristic impedance (termination required) varies somewhat with frequency. Nevertheless, for almost all BCB applications of the Beverage, a simple fixed value resistor will suffice quite well. (Note: there is no great practical reason why RXs-possibly in conjunction with a modified value of R-couldn't be operated on both ends of the antenna thus DXing both directions simultaneously and each in the unidirectional mode.)

The value of the terminating (carbon) resistor can be well approximated from the following simple equation (for an infinite highly conducting wire above an infinite infinitely conducting ground plane), viz:

$$R = 138 \log_{10} (4H/D) \dots \text{ohms}$$

where H is average height above ground and D is wire diameter. Units for D and H are unimportant as long as the same measure is used for both. Several DXers have proposed the use of a carbon base potentiometer (variable resistor) at the termination to be used to "tune" the system--it is thought that this will not likely produce noticeable improvement in performance. Table I lists values for R at most BCB applications of the Beverage--standard resistors within 20-40 ohms or so of the table value should work as well.

Most likely the greatest factor of importance in the performance and construction of this antenna is that of the earth ground at each end. Here lies the dilemma: the poorer (electrically) the soil the better the expected performance of this antenna, but the more difficult it is to obtain a good, highly conductive, earth ground. However, in any case, the larger the metallic surface area in contact with the earth, the better the system ground. Multiple ground rods as well as ground screens (e.g., $\frac{1}{2}$ " wire mesh) buried under the earth are not to be overlooked!

The theoretical patterns of a terminated Beverage are of interest in approximating its performance in the field. Although the discussion here is restricted to the antenna in free space (i.e., infinitely remote from a ground plane) when computing patterns, the patterns so obtained can be used with the ground plane present by accounting for certain "most likely" pattern perturbations such as elevated vertical directivity. The equation for such a terminated Beverage is given below under the assumption of a simple current distribution along the wire when the antenna is in the active (transmitting) mode and then appealing to the Reciprocity Theorem for the passive (receiving) case. It is of some musing interest to note that almost all antenna work by electromagnetic-mathematicians resort to this type of analysis. (GPN on loops has done the more difficult problem of passive analysis and his work is quite exceptional in the field of electromagnetics!)

$$E = K \left(\frac{\sin(\varphi)}{1 - \cos(\varphi)} \right) \sqrt{1 - \cos L^\circ} \left[1 - \cos(\varphi) \right] \quad \text{mv/m @ M miles}$$

where K is a constant depending on parameters of little interest here, φ is the angle measured from the wire as in Figure B and L° is the length of the wire in wavelengths at the frequency of operation, viz: $L^\circ = 360 f L / 984 \doteq 0.366fL$

where f is the frequency in MHz and L is the antenna length in feet. Since the interest here is in the relative performance of these antennas for different lengths L at various BCB frequencies f, the only factor of interest in the above equation is:

(equation on the next sheet)

$$A = \frac{1}{C} \left(\frac{\sin(\theta)}{1 - \cos(\theta)} \right) \sqrt{1 - \cos [L^\circ (1 - \cos(\theta))]}$$

where the factor (1/C) has been added to normalize the patterns with respect to a specific chosen pattern for the purpose of comparative analysis. It is suggested that for the shortest length L and the lowest frequency f, that C = 1 for the calculation of this "initial" pattern. Then in this "initial" pattern find the maximum value of A, say AM, and set C equal to this value. Then divide all values of this "initial" pattern by C so that its maximum value is now 1.0. For all subsequent patterns, C = AM. Calculations need only be made for the range $0^\circ \leq \theta \leq 180^\circ$ since the patterns are symmetrical about the axis of the antenna wire.

An antenna pattern is inherently three-dimensional! In almost all pattern plots (save for the stereographic projections, for example) a plane is passed through the pattern and contours (pattern projections) are then plotted in that plane. The usual planes are the "horizontal" and "vertical" planes sometimes measured with respect to the earth, sometimes the antenna or whatever else is handy. Figures D and E show this procedure for a loop antenna. The three dimensional pattern of an electrically small perfect loop is a "donut" with a pinhole center. Figure D is that pattern traced on the plane passing through the plane of the loop and Figure E is that traced on the plane normal or perpendicular to the loop--the apex pattern BCB DXers strive for! The terminated Beverage has a pattern symmetrical about the antenna wire as shown in Figure F. The three dimensional pattern is that envisioned by rotating or revolving the plotted pattern about the wire axis to form "cones" of radiation/reception about the antenna.

Beverage antennas in practice actually do not assume their characteristics until the length of the wire becomes significant with respect to wavelength--even tho patterns can be calculated for any length. For this discussion we shall restrict our attention to $L^\circ = 0.5$ to $L^\circ = 4.0$ wavelengths. The wavelength W in feet for any frequency given in MHz is computed from $W = 984/f$. Thus, one wavelength at 540 kHz is 1822 feet while one wavelength at 1600 kHz equals 615 feet. Table II gives W in feet as a function of f and L° . A few comments can be made about Beverage patterns in general. There is a lobe (peak) for every half-wave length in the wire and if the number of half-wavelengths is odd, then there will be a lobe at $\theta = 90^\circ$, i.e., at right angles to the antenna. There is only one major lobe (shown as two such lobes in a planar projection) and this lobe tends to "fold" toward the wire axis as the length of the antenna is increased. The length of the wire for the lobe to fall within 10-15° of the wire axis is much too long for any practical consideration here. When $L^\circ = 7.0$, the major lobe has its maximum at 19°. Also it is clear when observing the patterns that as the wire length increases with respect to wavelength, the number of lobes increase and their corresponding widths decrease.

Reviewing Patterns I-VIII, hand drawn from computer evaluation of the above equation for A with θ ranging 0-180° in 1° increments, which show estimated practical performance in the horizontal plane with ground, one must remember that the pattern of the antenna changes with frequency so that as one tunes across the BCB the "big eye" keeps changing its view. For example, an 1800' Beverage assumes the basic pattern of Pattern II at 540 kHz and as one tunes toward 1600 kHz, the pattern continuously varies from Pattern II to Pattern VI. Note that the patterns plotted are taken in half-wave increments (solely for convenience here) and only 0-180° of each pattern is drawn. Also note that Mother Nature's Fundamental: "You Can't Have Your Cake and Eat it Too" holds: viz., as the major lobe becomes more directive, so the number of side and back lobes increase! Thus, although the Beverage has tremendous "forward" gain compared to the side and back lobes (even more so when compared with a loop!!!) these minor lobes are significant when compared with, say a loop, so that one should not expect "super" suppression thereabouts. The usual BCB pests and dominants still show but stations coming in off the main lobes may well override them--they therefore do not retain their status as dominants and pests in many cases! Also note that a pattern such as Pattern II may, in practice, perform better than one such as Pattern VIII because the sidelobes are not as numerous thus allowing suppression over wider areas or arcs of azimuth although the major lobes differ significantly.

(continued on the other side)

The size of the wire used IS important in the sense that the larger the wire diameter, the smaller the RF resistance per unit length. RF resistance represents energy loss in the system and destroys the patterns by reducing the null depths significantly between lobes as well as distorting lobes, especially the major one--Figure H. The longer the wire the greater the RF resistance so once again Mother Nature strikes: you obtain significant increase in forward or main lobe gain/directivity at the expense of getting more side and back lobes and increased RF resistance tending to "smear" the entire "tailend" together thus allowing much BCB to leak in on the sides and back. Too, the larger the wire diameter, the more resistant the antenna is to wire breakage. For those interesting in approximating the RF loss resistance, the following formula is applicable to copper wire: $RL = 1.02 (L/D) \sqrt{f} / 1000$...ohms, where, as before, L is the antenna length in feet, D is wire diameter in inches and f is frequency in MHz. For example, a 3200' Beverage made of 24GA copper has an RF resistance, RL, equal to 162 ohms at 1000 kHz while the same antenna made of 18GA copper has RL = 81 ohms at 1000 kHz. A measure of the RF efficiency of this antenna can be made from the following formula: $Eff = (100R)/(R + RL)$...%. With R = 560 ohms, for example, and the 3200' Beverage above using 24GA, we have Eff = 76% while the same antenna using 18GA renders Eff = 87%. Power loss is directly proportional to the RF resistance.

Table III lists some useful statistics. L° denotes the length of the antenna in wavelengths, φ^* denotes the azimuth angle at which a lobe maximum occurs, E^* is the magnitude of such a lobe referenced to the maximum lobe for $L^\circ = 1.0$ thus giving a comparison of these antennas as their length is increased, dB^* is the corresponding power gain of such a lobe, again referenced to the maximum lobe of $L^\circ = 1.0$ and dB_L is the amount of "suppression" the sidelobes (for fixed L°) have with respect to the major lobe for that specific pattern. Table III lists these parameters for $L^\circ = 0.5$ to $L^\circ = 7.0$ in increments of 0.5 wavelengths. More comments can now be made. Note, too, that if L is a multiple of an even number of half-wavelengths, then there is a null at $\varphi = 90^\circ$. The angular compression of the lobes is clearly shown. The separations between lobes at $L^\circ = 2.0$ are 39° , 29° , and 32° while for $L^\circ = 7.0$, they are 19° , 12° , 10° , 9° , 9° , 8° , 8° , 8° , 9° , 9° , 10° , 11° , and 15° , thus showing the "clutter" of lobes for large L° . The size of these sidelobes for large L° is also significant, e.g., for $L^\circ = 7.0$ @ $\varphi = 86^\circ$, $E^* = 0.55343$ or more than one-half the major lobe of $L^\circ = 1.0$. Thus, "bigger" is not necessarily "better"!

Finally, an essential point in presenting this writing is to give the BCB DXer knowledge of the general behavior of a terminated Beverage so that he can erect such an antenna attempting to orient it in such a way as to optimize its use for his purposes--e.g., aligning the "pests" and "dominants" as close as possible to the completed null areas with the understanding however that the "powerhouses" aren't likely to be "wiped out" but they can be "knocked down" considerably. The essential point to remember is that the arguments given here are an approximation to actual field performance and that Figure H should always be kept in mind!! Figure G is also important to remember because the pattern of the Beverage is three-dimensional and a "cone" about the wire axis so that reception directly "off the end" of the Beverage is to be expected though the horizontal pattern plots show no response there! --de Fish, Ph. Dx

Project NEBE (NEbraska BEverage) was started in October 1972 here in Nebraska with the blessing of the University of Nebraska and is carried on solely for the analysis of the Beverage on the BCB! It will eventually involve analysis of TA/TP paths through the polar cap/ring. One square mile of land is dedicated for this single project for an indefinite period of time. Numerous Beverage antennas will be constructed and evaluated under my direction and the results will be given to the BCB fraternity with the hope that it will be of pragmatic value for other "in-the-field" BCB DXpeditions. The initial phase of Project NEBE has been completed and the results will be given to the DX bulletins in the very near future as a sequel to this writing. Good DXing!!!

See Tables I (Terminating Resistances), II (Wavelength vs. Frequency), and III (Pattern Comparisons); also Figures A through H; and Patterns I, II, III, and IV for $L^\circ = 0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5,$ and 4.0 .

Dr. Dave Fischer - Room 608 - P. O. Box 81309 - Lincoln, Nebraska 68501

Table I --- Terminating Resistance R

Wire Size	H(feet)	---R ohms---					
	D(inches)	5	8	10	15	20	25
24	0.02010	562	591	604	628	645	659
22	0.02535	548	576	590	614	631	645
20	0.03196	534	563	576	600	617	631
18	0.04030	520	549	562	586	604	617
16	0.05082	507	535	548	572	590	603
14	0.06408	493	521	534	558	576	589
12	0.08081	479	507	520	545	562	575
10	0.10190	465	493	506	531	548	561

Table II --- Wavelength vs. Frequency (table values in feet)

f \ L° =	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0
540kHz	911	1822	2733	3644	4555	5467	6378	7289	8200	9111	10022	10933	11844	12755
1600kHz	308	615	923	1230	1538	1845	2153	2460	2768	3075	3383	3690	3998	4305

Table III --- Pattern Comparisons

L°	φ*	E*	dB*	EL*	dB L	L°	φ*	E*	dB*	EL*	dB L
0.5	65	0.638	-3.9	1.0	0.0	4.5	23	2.289	7.2	1.0	0.0
1.0	48	1.000	0.0	1.0	0.0	4.5	47	1.160	1.3	0.507	-5.9
1.0	113	0.322	-9.8	0.322	-9.8	4.5	63	0.835	-1.6	0.365	-8.8
1.5	40	1.266	2.1	1.0	0.0	4.5	77	0.649	-3.8	0.283	-10.9
1.5	87	0.528	-5.6	0.417	-7.6	4.5	90	0.516	-5.7	0.226	-12.9
1.5	127	0.246	-12.2	0.194	-14.3	4.5	103	0.410	-7.7	0.179	-14.9
2.0	35	1.486	3.4	1.0	0.0	4.5	116	0.322	-9.8	0.140	-17.0
2.0	74	0.676	-3.4	0.455	-6.8	4.5	131	0.233	-12.7	0.102	-19.8
2.0	103	0.406	-7.8	0.273	-11.3	4.5	150	0.131	-17.6	0.057	-24.8
2.0	135	0.206	-13.7	0.139	-17.1	5.0	22	2.418	7.7	1.0	0.0
2.5	31	1.678	4.5	1.0	0.0	5.0	45	1.239	1.9	0.512	-5.8
2.5	65	0.798	-1.9	0.476	-6.5	5.0	60	0.894	-1.0	0.370	-8.6
2.5	89	0.521	-5.7	0.310	-10.1	5.0	72	0.704	-3.1	0.291	-10.7
2.5	113	0.341	-9.3	0.203	-13.8	5.0	84	0.572	-4.8	0.237	-12.5
2.5	140	0.181	-14.8	0.108	-19.3	5.0	96	0.464	-6.7	0.192	-14.3
3.0	28	1.849	5.3	1.0	0.0	5.0	107	0.379	-8.4	0.157	-16.1
3.0	56	0.824	-1.7	0.446	-7.0	5.0	120	0.298	-10.5	0.123	-18.2
3.0	80	0.614	-4.2	0.332	-9.6	5.0	134	0.218	-13.2	0.090	-20.9
3.0	99	0.439	-7.1	0.237	-12.5	5.0	152	0.124	-18.1	0.051	-25.8
3.0	119	0.301	-10.4	0.163	-15.7	5.5	21	2.541	8.1	1.0	0.0
3.0	143	0.163	-15.7	0.088	-21.1	5.5	43	1.307	2.3	0.515	-5.8
3.5	26	2.006	6.0	1.0	0.0	5.5	57	0.951	-0.4	0.374	-8.5
3.5	54	0.997	-0.1	0.497	-6.1	5.5	68	0.752	-2.5	0.296	-10.6
3.5	73	0.696	-3.1	0.347	-9.2	5.5	79	0.619	-4.2	0.244	-12.3
3.5	90	0.516	-5.7	0.257	-11.8	5.5	90	0.516	-5.7	0.203	-13.8
3.5	106	0.387	-8.3	0.193	-14.3	5.5	100	0.429	-7.4	0.169	-15.4
3.5	124	0.272	-11.3	0.136	-17.4	5.5	111	0.353	-9.0	0.139	-17.1
3.5	146	0.150	-16.5	0.075	-22.5	5.5	123	0.280	-11.0	0.110	-19.1
4.0	25	2.151	6.6	1.0	0.0	5.5	136	0.207	-13.7	0.081	-21.8
4.0	51	1.081	0.7	0.502	-6.0	5.5	153	0.118	-18.6	0.046	-26.7
4.0	68	2.096	-2.3	0.356	-9.0	6.0	20	2.660	8.5	1.0	0.0
4.0	82	0.585	-4.7	0.272	-11.3	6.0	41	1.376	2.8	0.517	-5.7
4.0	97	0.456	-6.8	0.212	-13.5	6.0	54	1.009	1.8	0.380	-8.4
4.0	112	0.348	-9.2	0.162	-15.8	6.0	66	0.781	-2.1	0.294	-10.6
4.0	128	0.250	-12.0	0.116	-18.7	6.0	75	0.664	-3.6	0.250	-12.0
4.0	148	0.140	-17.1	0.065	-23.7						

(Table III is continued on the back of this sheet)

Table III --- Pattern Comparisons (continued)

L°	D^*	E^*	dB^*	EL^*	dBL	L°	D^*	E^*	dB^*	EL^*	dBL
6.0	85	0.562	-5.0	0.211	-13.5	7.0	19	2.874	9.2	1.0	0.0
6.0	95	0.472	-6.5	0.178	-15.0	7.0	38	1.498	3.5	0.521	-5.7
6.0	104	0.399	-7.9	0.150	-16.5	7.0	50	1.107	0.9	0.385	-8.2
6.0	114	0.330	-9.6	0.124	-18.1	7.0	60	0.895	-0.9	0.311	-10.1
6.0	125	0.264	-11.6	0.099	-20.0	7.0	69	0.751	-2.5	0.261	-11.7
6.0	138	0.196	-14.1	0.074	-22.6	7.0	78	0.631	-4.0	0.220	-13.2
6.0	154	0.113	-18.9	0.042	-27.5	7.0	86	0.533	-5.1	0.192	-14.3
6.5	19	2.770	8.8	1.0	0.0	7.0	94	0.481	-6.3	0.167	-15.3
6.5	39	1.439	3.2	0.520	-5.7	7.0	102	0.414	-7.6	0.144	-16.8
6.5	52	1.059	0.5	0.383	-8.3	7.0	111	0.354	-9.0	0.123	-18.1
6.5	62	0.848	-1.4	0.306	-10.3	7.0	120	0.298	-10.0	0.104	-19.7
6.5	72	0.710	-3.0	0.257	-11.8	7.0	130	0.241	-12.4	0.084	-21.5
6.5	81	0.604	-4.4	0.218	-13.2	7.0	141	0.179	-14.9	0.062	-24.0
6.5	90	0.516	-5.7	0.186	-14.6	7.0	156	0.164	-19.7	0.036	-28.8
6.5	99	0.440	-7.1	0.159	-15.9						
6.5	108	0.375	-8.5	0.136	-17.4						
6.5	117	0.312	-10.1	0.113	-18.9						
6.5	128	0.252	-12.0	0.091	-20.8						
6.5	140	0.188	-14.5	0.068	-23.4						
6.5	155	0.108	-19.3	0.039	-28.2						

Beverage Antenna Patterns for

L° from 0.5 to 7.0 wavelengths

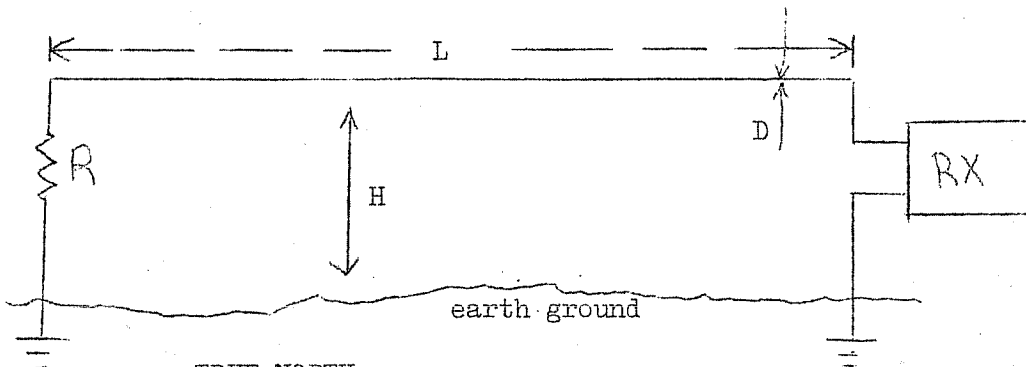


Figure A:
Side View of
Antenna

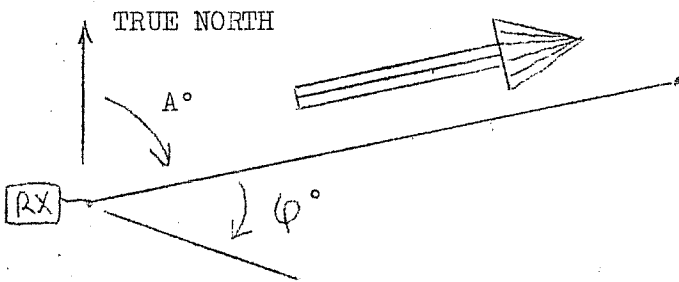


Figure B: Top View of
Antenna

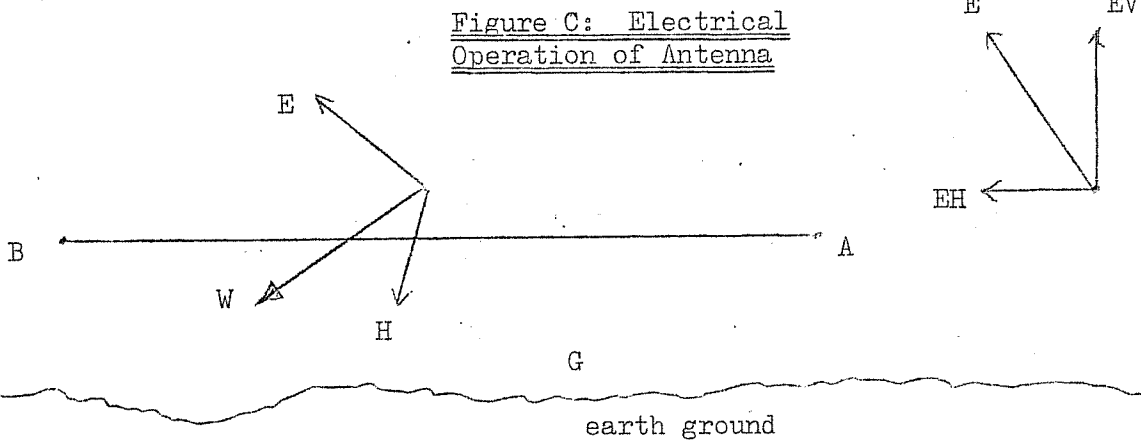


Figure C: Electrical
Operation of Antenna

Figure D: Loop Pattern

Plane of Loop

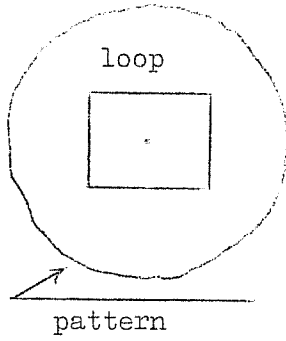


Figure E: Loop Pattern

Normal Loop Plane

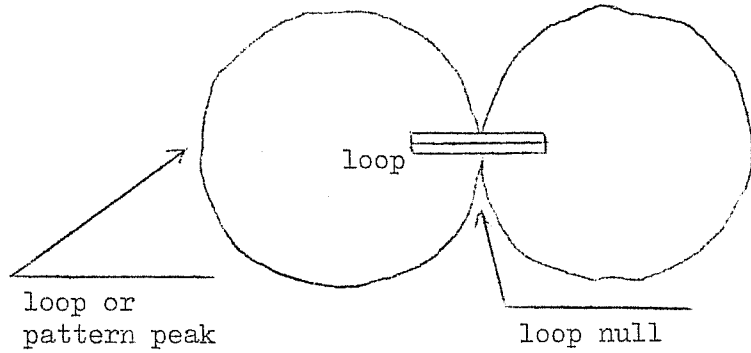


Figure F: Typical Terminated Beverage Pattern

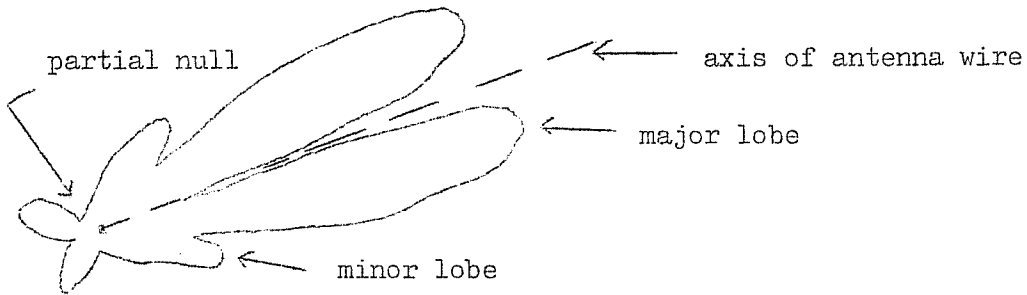


Figure G: Effects of Ground Plane on Vertical Pattern

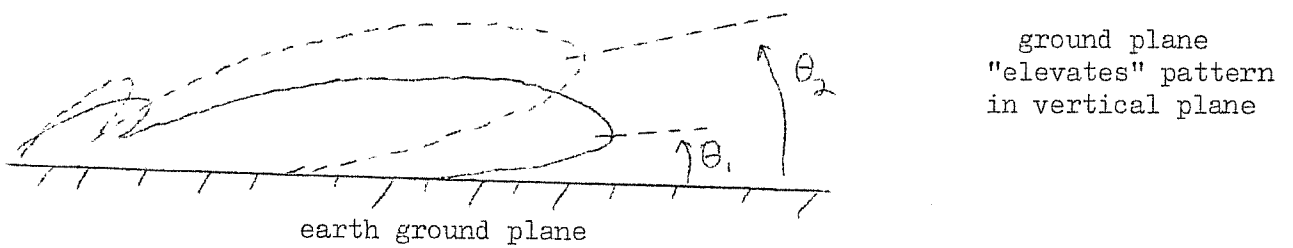
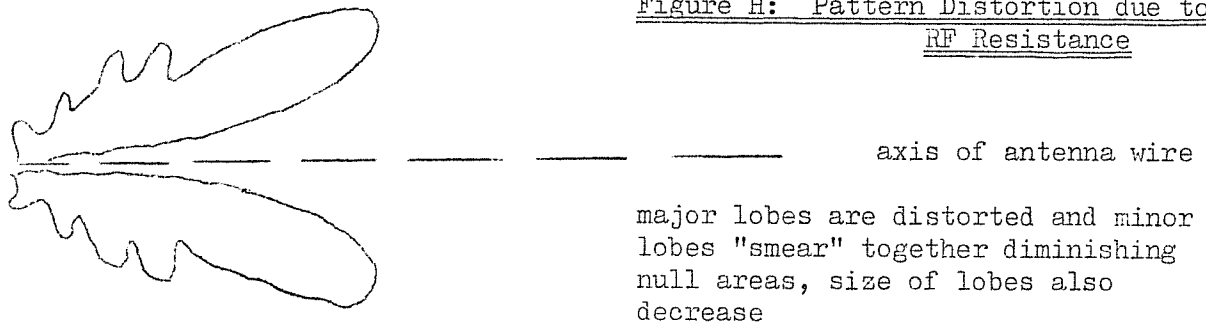
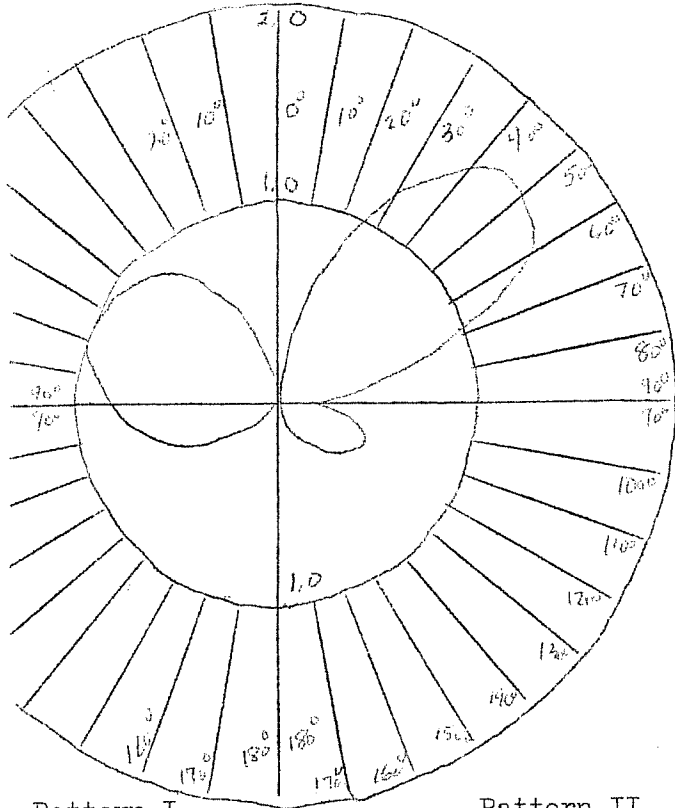


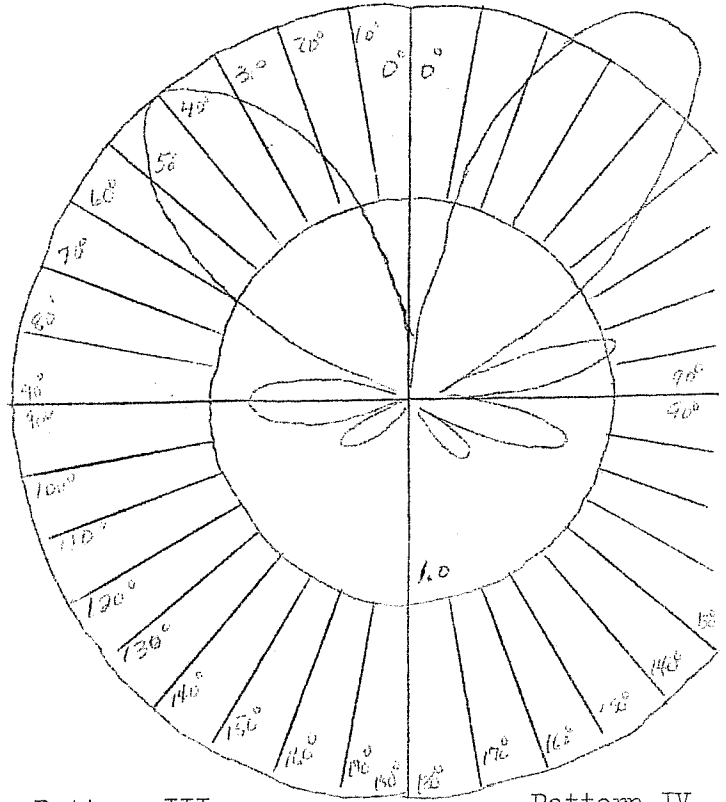
Figure H: Pattern Distortion due to RF Resistance





Pattern I
 $L^\circ = 0.5$

2.0



Pattern II
 $L^\circ = 1.0$

Pattern III
 $L^\circ = 1.5$

2.0

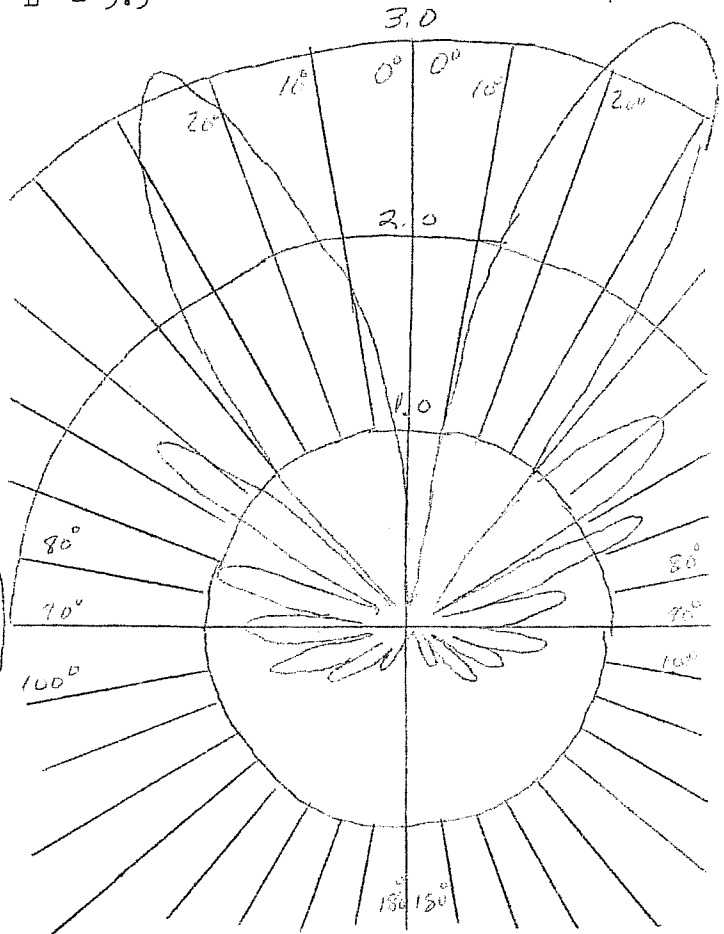
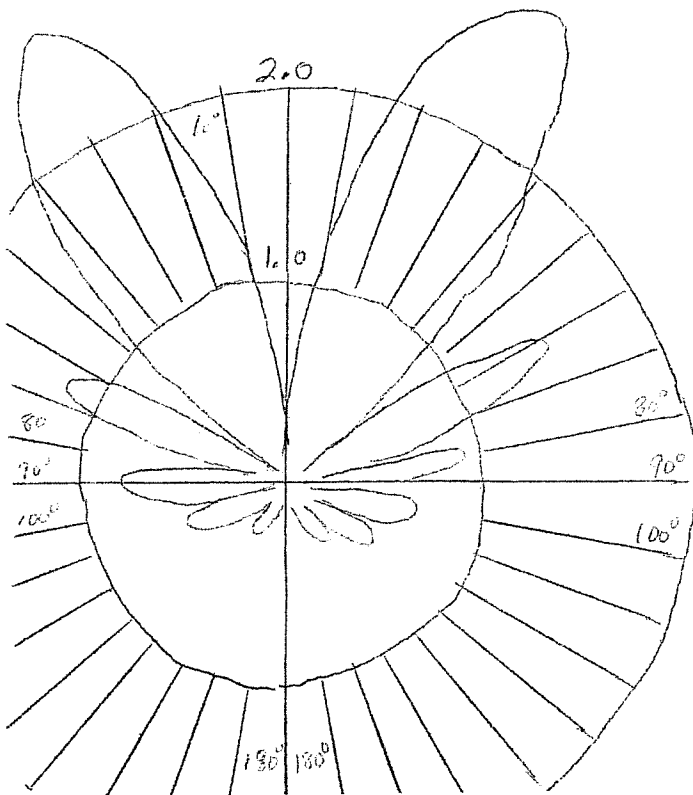
Pattern IV
 $L^\circ = 2.0$

Pattern V
 $L^\circ = 2.5$

Pattern VI
 $L^\circ = 3.0$

Pattern VII
 $L^\circ = 3.5$

Pattern VIII
 $L^\circ = 4.0$



Editor: Father Jack Pejza, 3266 Nutmeg St., San Diego, Calif. 92104. Deadlines: Fridays. Use GMT (EST + 5 hours) in reports, one side of page, preferably typed in order of frequency and by section. Telephones: 714-282-0076 or 714-282-2184.

SPECIAL DEADLINE FOR NEXT ISSUE: THURSDAY, NOVEMBER 30.

Listeners' Loggings-- Trans-Atlantic

- 755 ... Portugal, Lisbon, TAs trying to make a comeback in Denver in the period of 11/13-15, but this poor opening went pfttt by Wed. night, with A-index up to 10 after several days in the 3-4-5- area. Lisbon here even managed to show up as a BFO whistle approaching 0000 11/14, but never reached audio level. This is the 4th straight winter season that this station has appeared in early evening on certain November days. My best taping of this one has always come near to Denver sunset. Not even a carrier here later that night when Lisbon would have s/on for its 11/15 program. (GM,C)
- 764 ... Senegal, Dakar taped s/off at 0004 11/15, but it could barely be recognized on its return at 0600, much weaker, but muezzin registered as usual at 0610. Dakar s/on also heard 11/14 but could not be heard 11/16. YSKL likely to complicate Dakar reception for some if it keeps staying on the air until 0632 as it did 11/16. Formerly s/off about 0603. (GM,C)
- 836: ??? A BFO whistle here after the Belize s/off, and with KOA tightly nulled, about 0640 11/14. Loop NE-SW but can't believe it was really anything good, for general TA conditions were rather poor at the time. However, never noted it before. (GM,C)
- 1034 ... Portugal, Porto may have been the one putting a het on Haiti-1035 at 0018 11/15, but audio never developed on it this time. (GM,C)
- 1205 ... Sierra Leone/France, Freetown carrier and Bordeaux battling each other in fine style for 3-4 minutes at 0550 11/14, but France soon vanished by 0557 the snake charmer and his flute were there all alone, and weak. Come to think of it, I don't believe I would want to associate with a snake charmer either. (GM,C)
- 1214 BBC Britain, the BBC cluster could be detected briefly, but poorly, in the half-hour, 0530-0600 11/14. Failed to hear any pips at 0600. (GM,C)
- 1214 ??? Could I have had Tallinn and never realized it. In the IRCA Foreign Log, please note my report on Tirana here, and that reference to 3 gongs. Compare that to what PP and WWW say about Tallinn, chimes and characteristic IS, etc. Will someone describe that characteristic IS to me? Could my "gongs" and PP's "chimes" really be the same thing? (GM,C)
- 1425 AFRS Greenland, Thule AFB must have been the carrier looping TA 1058-1104 11/13. First time I've heard anything here; maybe someday I'll get audio! DXers should note that during the next three months or so Thule is in polar night, so anytime it is dark at your shack, reception is possible. While investigating that, I noticed that this station is the farthest north transmitter in the world. (AWP,W)

Trans-Pacific

- 530 JOQG Japan, Morioka, NHK1, in 1250-1305 11/20, NHK pips at 1300, fair signal, all alone. (AWP,W)
- 548 ??? Het here with no audio as far as I could tell, with TP loop bearing, probably USSR, on 11/20 at 0908. (PM,W)
- 635 ... North Korea, Chongjin, at 0946 in language possibly KK, but uncertain because of weak signal, on 11/20. (PM,W)
- 645 ... China, Peking fair signal, man talking in CC, very fast talk 1015 11/20 (GA,W)
- 650 KORL Hawaii, Honolulu fair with "Talk Back" 0810 11/11. (MCC,W)
- 650 ??? UFO under KORL in language at 0916 11/20. Didn't sound JJ or KK, possibly CC. (PM,W)
- 655 ... North Korea, Pyongyang here in KK at 0941, 11/20. Good signal as usual. (PM) +Good signal but looped due north, heard 3 time signal beeps at 1000 11/18. A nightly visitor at this QRA with S7 signal. E.g., 0949 11/20. (GA,W)
- The IRCA Foreign Log is a perfect gift for you to give to your wife for Christmas...

- 660 ... China, YL in CC announcements; revolutionary type Chorus music, announcements in CC; 1529 quick fade 11/19. (DW,W)
- 660 2YC New Zealand, Wellington fair with classical music, ID as NZBC 1058 11/7. (MCC)
- 670 JOBK Japan, Osaka with NHK programming, in talks at 1022 11/20. Fair signal. (PM)
- 675 ... China, Inner Mongolia listed 1537-1539 tune-out. CC style music; ID by man 1539 then vocal version of anthem(?). Rather unusual time of hour it seems to me? (DW,W)
- 700 JO.. Japan, synthros, language lessons, sounded like FF, but many repeats 1453-1500 fade 11/18. (GA,W)
- 713 ... China, Fuchou, Fukien first time noted, very weak, S4, at 1030 11/20. (GA,W)
- 720 ... China, man in CC separable with loop from WGN 1020 11/20. (GA,W)
- 750 JOIB Japan, Sapporo mixed with cther UFO at 0952 11/20. (PM,W)
+English lessons parallel with 770 at 1032 11/20. QRM from WSB and unknown TT. (GA,W)
- 760 ... China, QRM from woman in CC at 0951 11/20. (GA,W)
- 770 JOUB Japan, Akita noted at 0950 11/15; at 1506 on 11/18, and at 0904 on 11/20. Good signals. (PM,W)
+Musical program //JOB-830 1505 11/18. EE lessons //750 1032 11/20. (GA,W)
- 780 ??? China, CC opera type music 1432 11/15. YL in CC 1433 under KCRL. Good day for CC stations. (DW,W)
- 795 ... North Korea very weak signal at 1036 11/20. (GA,W)
- 830 JOBB Japan, Osaka, musical program //JOUB-770 1510 11/18. (GA,W)
- 844 VSZ1 Gilbert and Ellice Islands, Tarawa S7 on regular schedule 0915 11/18. (GA,W)
- 855 ... China, Fukien area, "Liberation" Army station, in weak 1040-1045 11/20, all alone. (AWP,W)
- 870 KAIM Hawaii, Honolulu with religious program 0955 11/20. (GA,W)
- 878 ... North Korea, woman in KK 0940 11/20. (GA,W)
- 880 HLKI South Korea, Taejon with talks in KK at 1507 11/21. Fair signal, with no QRM from JJ. (PM,W)
- 890 HLKB South Korea, Pusan with talks at 1508 11/21, in KK, some QRM from JJ. (PM)
+RAK's UnID here sounds like the often heard-South Korean to judge from his impression of the language "song-dung-gun" etc., sounds distinctively KK; mixture of oriental music and classical points to South Korea, not Fiji. (REW)
- 935 ... U.S.S.R., UnID here with talks and interval signal on hour at 1000 11/20. Who is the Russian on this frequency? Couldn't find anything listed. Ideas?? Good signals at times. (PM,W)
+ In weak 1055-1120 11/20, ripped by KNEW TT slop to about 2% readability, advancing to 75% toward end of listening period. 6 pips at 1100 which sound like USSR Home Service, but there were no Midnight in Moscow chimes which are often played on Home Service. Still, I think the chances are excellent that this is Asiatic USSR. Classical music was played and very little voice. (AWP,W)
- 967 HLSA South Korea, Seoul, KBS 1205-1215 11/20, in severe KABL slop partially looped. In KK. WRTH lists this as 970 with a note reported on 968, so it must be HLSA! Frequency scaled off on vernier. (AWP,W)
+South Korean here with talks which sounded like a commercial station with spots, but uncertain, with QRM from stations on 970, at 1517 11/21. Is there anything listed? (PM,W) (See reports in last several bulletins. Ed)
- 973 ??? UnID het noted here against 970 at 1015 11/20; no audio noted. Probably USSR. (PM,W)
- 1020 A3Z Tonga, Nuku'alofa fair with TC, ID as Radio Tonga 0803 11/11 over KDKA. (MCC,W)
+Here under KDKA at 0907 11/21, in polynesian programming, music, etc. (PM,W) (Pat, note call change. Ed)
- 1040 ... China, Peking here as usual with over-modulated audio at 1511 11/22. (PM,W)
+Man talking in JJ, sounded maybe like news at 1516 11/18. (GA,W)
- 1178 VOA Ryukyu Islands, Okinawa, 2 men in KK interview 1343 tune in, pop music 1354. Yankee Doodle 1359. VOA EE ID 1400, but not location, into language lesson program. Nice signal, armchair copy 11/21. (DW,W)

- 1210 JOOR Japan, Osaka with talks in JJ at 0847 11/20; some KZ00 QRM. Noted also. Normally it's one or the other, not both. With talks in JJ at 0756, ID on hour, sounded like sponsored news program, at 0800:30, excellent signal 11/21. (PM,W)
- 1350 KIVM Hawaii, Lihue consistently best Hawaiian; overrides stateside stations; 0923 11/20. (GA,W)
- 1350 ??? UnID station mixed with KIVM, in JJ and also QRM from Domestics, under and over UFO at 0937, on 11/20. (PM,W)
- 1370 JO.. Japan, English lessons at 1025 11/20. (GA,W) (Two NHK2 stations here, many 1 kw. NHK1 stations. Ed)
- 1376 ??? UnID het here at 0934 on 11/20, probably USSR. (PM,W)
- 1435 ??? UFO UnID Carrier here, several mornings at 0800, or so, with loop bearing TP style. Has really been bugging me. Is there anything here???(PM,W)
(Only thing new on this frequency seems to be Saba. See Latin American section; also Ron Schatz's flash tip a couple of weeks ago. Ed)
- 1440 JOWF Japan, Sapporo, private, pop music in JJ 1245-1255, 11/13, in fair while waiting for XEVSD. (AWP,W)
+Here (a pest!!) again with talks, with STRONG signal, at 1038, on 11/20 (PM,W)
- 1475 ... U.S.S.R.? het here at 1523, on 11/21, loop bearing TP, probably USSR. (PM,W)
- 1510 JO.. Japan synchros from NHK2 //830 in weak 1220, 11/13. (AWP,W)
+JOZB, Matsuyama the highest power listed here, presumed the one with YL in JJ 1358 11/15. (DW,W)
- 1529 ... USSR (Vladivostok--Ed), Foreign Service, Man in CC talk, Moscow IS 1459 11/19, strong het with KFBK and slop at times. (DW,W)
+In CC with S9 signal 0910 11/20. (GA,W)
- 1550 4QD Australia, Emerald, Qsld, news 100% audible at 0913 11/20. (GA,W)
- 1580 ... Thailand, Voice of Free Asia, Ban Phachi, great signal, armchair copy 11/19 1420-1449 tune-cut. Man talking in (Cambodian listed), Yankee Doodle 1429 EE ID as Voice of Free Asia carrying VOA programs. 1430, news in special EE; Famous American program in special EE 1445 on Albert ??, painter. (DW,W)
+Moderate but readable in passing 1230 11/20. Should be Lac program. (AWP,W)

Latin America

- 540 HJKA Colombia, Bogota noted at 1012 11/20 with a fair signal. (GA,W)
- 540 XEWA Mexico, San Luis Potosi, LSP, believed to be the other SS QRMing HJKA 1012 11/20. (GA,W)
- 580 XEFI Mexico, Chihuahua, Chih. announcing "Radio Mexicana en Chihuahua" at 1028 11/13. (GA,W)
- 615 HCMJ1 Ecuador, Quito, Emisora Gran Colombia, s/on per announcement is 1055 rather than the 1000 I reported earlier in error to FJP; the "cincuenta y cinco" was in a fade and I didn't catch it until several replays later. Sorry. (AMG,E)
- 650 XETNT Mexico, Los Mochis, Sin. heard announcing "Los Mochis" several times 0100-0108 11/17. (GA,W)
- 710 XEFX Mexico, Guaymas, Son. heard most nights from 11/17 through 11/21 0230 to 0530, over/under KIRO/KMPC; evening format of traditional romantic ballads; slogan is "R. Amistad" but can be best IDed by frequent TCs consisting of pealing church bells followed by time given twice; heard spots for Guaymas businesses; definite ID 11/18 at 0404; "X-E-F-X"; in strongest 11/21 over KMPC, taped 0500-0504 with "R. Amistad" ID; not listed in NRC LA log, but I saw transmitter site last spring, so is still alive. (DMA,W) (Not listed either in RFS Mexican list or new FBIS. Ed)
- 725 SRS Surinam, Paramaribo in DD at 0925 11/20. (GA,W)
- 730 HJCU Colombia, Bogota heard 11/12 at 0755 with Radio Melodia between typical Colombian music. (MB,C)
- 730 TGN Guatemala, Guatemala, La Voz de Musica, Radio Cultura, with easy listening music and female announcer in SS, at 0725-0757 11/12. QRM from HJCU. (RNA,C)
(Slogan is Radio Cultural, Richard. Ed)

Now is the time for all good IRCA members to buy a copy of the Foreign Log...

- 730 XEX Mexico, D.F. finally taped with a "XEX, La Voz de Mexico" ID 0543 11/20; often heard here but never reported. Last station heard this MM due to ear-splitting headache inducing conditions. (AMG,E)
- 760 CMCD Cuba, Havana man talking in SS mentioned Havana several times and "Cooba". Already verified. Heard at 0950 11/20. (GA,W)
- 760 XEABC Mexico, D.F. is the one with Radio Moderna ID and SS rock. Heard 11/12 at 0500 with "X-E-A-B-C, Radio Moderna,...Mexico" over/under CMCD (Reloj Nacional) and WJR. (MB,C)
- 770HOL83 Panama, Chitre, with SS under KOB and WABC at 1059-1102 11/12. Mucho talk about Republica de Panama and Revolucion. (RNA,C)
- 800 PJB Netherlands Antilles, Bonaire good with EE ID 1030 11/8. (MCC,W)
- 810 HJCY Colombia, Bogota at 0928 11/20; many chimes and "Buenos Dias" announcement. (GA,W)
- 830 CMCA Cuba, Havana slightly off frequency, causing a severe het; noted 11/20 at 0430. (AMG,E)
- 830 HIJB Dominican Republic, Santo Domingo, with pop music and SS at 0834-0903 11/12. QRM from WCCO. (RNA,C)
- 830 XEVQ Mexico, Culiacan in fair/good with SS music and "Radio V-Q" IDs all alone on frequency 1326 11/13. (MM,W)
- 834 ... British Honduras, Belize, S8 on regular schedule 0330 11/18. (GA,W)
- 854 OAX4H Peru, Lima in SS with songs and music at 0935 11/20. (GA,W)
- 860 ??? UnID, not an XE, probably HILR, Santo Domingo with LA music and SS at 0943-1023 11/14. Killed by WDMG after 1000. (RNA,C)
- 879 OBZ4N Peru, Lima, Radio Union announcement heard several times in musical broadcast, on low side of WCBS 0820 11/18. (GA,W)
- 890 HJCE Colombia, Bogota, La Voz de Bogota, with LA music and SS at 0758-0807 11/12. QRM by UnID LA, with WLS nulled. (RNA,C)
- 925 PJA6 Netherlands Antilles, Aruba s/on at 1000 in DD, ehtn musical program 11/20/ (GA,W)
- 1000 XEFV Mexico, Ciudad Juarez, Chih. has ID as Radio Rancherita (not Bonita) as well as XEFV. S/on heard 10/9 at 1215. (MB,C)
- 1010OAX4U Peru, Lima, Radio America. A real surprise when I replayed tape and heard R. America ID. Heard with rock music and SS at 0919-0930 11/12, with QRM by KDJW, CFRB, and XENL. (RNA,C)
- 1025 ??? UnID SS here, looped to either Panama or Colombia 1013 11/18. (GA,W)
- 1030 XELJ Mexico 11/18 0020 distorted SS music on 2060 kHz; 0024 ID as R. 10 y 30, XELJ desde Lagos ..., Jalisco, afiliada a Radio America de ..." 11/21 0039 : not so distorted with SS vocals. (GH,C)(Listed as XELJ, Lagos de Moreno, Jal., 250 watt daytimer, in RFS Mexican list. Ed)
- 1035 4VEF Haiti, Cap Haitien with Christmas music, Jingle Bells, and Santa Claus is Coming to Town, at 1010 11/18. (GA,W)
- 1040 CMKG Cuba, Baracoa, La Voz de Cuba, with easy listening music //640 at 0939-1030 11/12. QRM by UnID LA, with WHO off. (RNA,C)
- 1047 ??? UnID SS here at 1040 11/20; looped to SA; S6. (GA,W) (Perhaps the same UnID reported by Matt Edwards, N.J., of NRC with ID something like "La Voz de la Tort"; heard at 0400-0415. Ed)
- 1120 XE.. Mexico, previously UnID Radio Ritmo heard on 2240 kHz is in San Luis Potosi state, but not sure of town; 11/18 0017 ads for furniture stores; 0030 TC for 6:29, jingles; 0041 Conasuper ad, ..."en Nagaloches"; 0103 TC for 7:02; ads, 0105 s/off announcement mentioned "Mas popular, ...Valle Ritmo", to return at 5:55 AM "...desde Cuyacay(?), SLP, para toda la nacion"; 0106:25 off. (GH,C) (Listed in RFS Mexican list as XETR, Cd. Valley, SLP, 1 kw daytimerNRC LA log lists city as Ciudad Valles. Map shows it to be a fairly large city between San Luis Potosi and Tampico. Ed)
- 1170 HJ.. Colombia, apparently new station or slogan; first noted 11/21 at 0049 on 2340 kHz with SS talk and music; unreadable ID at 0104; 0359 end "musica montana" program, references to "el norte del Tolima" ID as "en el aire, Radio Ambala--otra frecuencia Super de Colombia, ...erc," then program, "Rapsodias Argentina" 0403 TC as 11:05; lost after 0423 as QRM rose. I can-

- 1170 HJ.. not find this station on any frequency on any list, even NRC's recent Colombian government list. No frequency heard, but other possible fundamental frequency of 780 is clear channel, unlikely; and Colombia does not use 120 meter band for broadcasting. Note that Radio Super appears to have its own "network" now. Will check further. (GH,C)
- 1180 YVMB Venezuela, Ciudad Ojeda, s/on heard 10/17 at 1000 with anthem and many IDs as Radio Petrolera. Jingle IDs also used. No mention of the calls listed in NRC LA Log. (MB,C)
 +My report of CB118 here is incorrect. The station that I did hear at the same time and same frequency was YVMB. The reason for the mistake was I was half asleep but I did have the tape recorder on at the time. I did not play the tape back until 2 days ago, and found a R. Petrolera which, half asleep, sounds very similar to Radio Portales. (MM,W)
- 1190 XEPZ Mexico, Ciudad Juarez, Chih. with further ID as Radio Mexicana heard 10/14 at 1100. Suspect station is daytimer. (MB,C) (Si, 1 kw. Ed)
- 1200 HJNF Colombia, Cali, Radio La Sultana del Valle, new harmonic on 2400 kHz, 11/17 0448 ID, "Emisora Alegre", frequent IDs, transmitter failure 0456; 0500 s/off, brief MA with CW QRM; 0501 off. (GH,C)
- 1190 XEWK Mexico, Guadalajara, Jal., s/on 10/14 at 1200 with marching music and "equis E-W". (MB,C)
- 1225 TIGM Costa Rica, San Jose is a regular here. Heard IDing as "Radio D-B", between records 11/4 around 0440. (MB,C) (Calls changed to TIBB, Radio B-B. Ed)
- 1250 XEDL Mexico, Hermosillo, Son. in good with complete s/on mentioning city, frequency, power, on top of KTW/WREN 1300 11/13. (MM,W)
- 1260 CM.. Cuba, Reloj Nacional over/under XEL 10/11 around 0700. (MB,C) (Two here, CMAG, 1 kw., and CMKA, 250 watts. Ed)
- 1260 XEL Mexico, D.F. heard often with Aermican Top 40 music. Both in EE and SS. Interrupts music with "Radio Capital" slogan. On 10/11 changed programming from EF to SS at 0700. (MB,C)
- 1370 XEPJ Mexico, IDs as Radio Capital, Guadalajara, not its actual location near Gualalajara, however. (MB,C) (Actually licensed to San Pedro Tlaquepaque, Jal. Ed)
- 1375 ??? Unknown strong signal (TT) at 0920 11/20. (GA,W) (The Costa Rican? Ed)
- 1430 CM.. Cuba, UnID station here with domestics in SS, with many mentions of "Habana" at 1123, on 11/19. Who is the Cuban here? (PM,W) (Only one listed is CMKZ, Palma Soriano, 250 watts. Ed)
- 1435 ??? UnID Carrier and the very slightest audio looping TP-LA 1125 11/13. Any ideas? (AWP,W)
 +Unknown strong signal (TT) at 0915 11/20. (GA,W)
 (Radio Saba, 1 kw, is the new one here. Ed)
- 1440 XEVSD Mexico, Villa Constitucion, B.C.S. definite reception 1300-1345 11/13 and 1310-1332 11/20. Competing nicely with KPRO and KUHL (s/on 1330) when opposition looped. 11/20 reception was best, with strong signal at times. Call letter ID at 1315 and very definite PST TCs even though BCS is supposed to be MST. Enough for a report! Incidentally, another place you can change time zones by going due north is from British Colombia to Yukon. (AWP,W)
- 1449 TGMS Guatemala, Mazatenango, Radio Nacional Matatenango, heard last year also on harmonic of 2898 kHz; 11/18 0011 music, 0321, TC, ID. (GH,C)
- 1460 XEYC Mexico, Ciudad Juarez, Chih. in poor/fair mixing with KENO with Coca Cola spot and Radio Ysela ID 0821 11/6. (MM,W)
- 1510 XE.. Mexico, UnID with weaksignal with Japs 1235 11/13. Any ideas? Sounded like it was fading due to LSR. (AWP,W) (Two listed. Dunno. Ed)
- 1550 XEBG Mexico, Tijuana, B.C. noted off MM 11/20 from 0800-1400. (MM,W)
- 1560 XEVIP Mexico, Ciudad Satelite, D.F. 11/19 0520, with SID, "Radio VIP", then Tijuana Brass music. Good signals, over/under WQXR, moderate fading. First time noted here with pest WDXR off. (KM,C)
- 1588 XEPT Mexico, Misantla, Ver. known to be off frequency, perhaps the UnID programming 0250 on 3176x kHz. (GH,C)

Verifications

- 750 YNX Nicaragua, Managua, SS v/l, post card, Estacion Equis-750 pennant, v/s Dolores Martinez C., in 40 days airmail. Sent IRCA SS report form and 3 IRCs. (MCC,W)
- 818 ... Andorra, Andorre la Vieille, sent FF detrield v/q, pamphlet, and "Sud-Radio" sticker in 3 weeks air, for FF report and 5 IRCs. They announced that since 10 October 1972 they have added transmitting hours from 3:00 to 9:00. I sent two reports, one directly to station, and one to address in France. This QSL came from Andorra. Second TA veried! (RVM,E)
- 1160 HIBG Dominican Republic, Santiago, nice v/l from Cesar Pequero S., Director-Administrador. Unfortunately it is very inspecific. Sked per letter is 0500-1000 D.R. local time dailay except Saturday when they are 24 hours; seems to contradict whet they have announced on the air. Asked me to listen during December when they will be sending greetings to their international listeners. Also sent a pc and promised to send a pennant. Address: Calle Sanchez #56, Apdo. 187. (AMG,E)
- 1580 XEDM Mexico, Hermosillo, Son. v/q from Carlow V. Rodriquez. (AMG,E)

Overlooked report:

- 935 ... Morocco, Agadir tentative carrier heard here very weak, no modulation, looped to New York direction 0833 11/18. (GA,W)

Reporters

- AMG Angel Garcia, Flushing, N.Y. (5)
- AWP Art Peterson, San Pablo, Calif. (11) HQ-180A, MN-26, SM-1
- DMA Dave Martin, Morro Bay, Calif. (1) ARB, IRCA loop
- DW Dave Williams, Astoria, Ore. (7) SPR4, Collins 75S3C, 300' and 180" LW, SML
- GA Gene Allen, Vallejo, Calif. (37) HQ-129X, 48" loop
- GH Glenn Hauser, Von Ormy, Texas (6) HQ-160, longwire, short longwire
- GM Gene Martin, Denver, Colo. (7)
- KM Keith Mehl, Des Moines, Iowa (1)
- MB Michel Breger, Austin, Texas (10)
- MCC Mel Coffin, Mission City, B.C. (5) Trio 9R-59, 100' LW N-S
- MM Mike McCullough, San Jose, Calif. (5) ARB, SML
- PM Pat Martin, Warrenton, Ore. (22) Packard Bell, RF Booster stage, 400' LW
- REW Richard E. Wood, Baton Rouge, La. (1)
- RNA Richard Allen, Billings, Okla. (7) Pioneer SX300T, 50 cm loop
- RVM Randy Minnehan, Columbus, Ohio (1) Realistic DX-150A

Welcome to the new reporters this issue. Mike McCullough adds the note that the times of his reports in the 10/21 DXWW were off; he added 7 hours to EDT; that means that the times given are GMT+3 hours.

Surinam The following information is from a local Surinamese source. There are five active stations in Suriname, all on MW only. Four are in Paramaribo, one---RANI--- is in Nickerie. Details for SRS, RAPAR, and Apinti in WRTH 1972 are essentially valid. Stations whose programming is not specified in WRTH are as follows. RADHIKA (Radio Dihaat Ki Assa[aj]) operates 0930-0130 on 640 kHz. Sign-on with morning prayer in Hindi and Dutch, workers' program 1030-1130 in Hindi and Dutch; housewives' program in Hindi and Dutch 1430-1500; news in Dutch 1800-1830 and 0015-0030. Children's program 1830-2000 in Dutch; rest Hindi. Saturday: includes Dutch programs produced by Government information service 1845-1900. Sunday: Hindi all day long, except English 2330-0000. RANI, Nicherie: operates 0930-1730 and 2000-0100; delete SW, is on MW nominal 940 kHz, overserved as 916 kHz. Morning prayer in Hindi, Urdu, and Dutch 1030, followed by Dutch news. The 12½ hours of broadcast time are divided into Hindi, 8 hours, Dutch, 3 hours; Javanese, 1½ hours. (Richard E. Wood)

1973 Communications Handbook The 1973 issue of Communications Handbook is out; like last year's distribution, this year's is pretty poor. It seems impossible to locate a copy in Riverside despite searching many newsstands. Anyone able to obtain one locally? -DEE

Trans-Atlantic DXing Research Project---Gene Martin

Let me simplify the terms of that DXing research project I launched a few issues back when I solicited the calendar dates through the years of Northern European reception in the Pacific Northwest. Don Kenney suggests that I should include California reception too, and I agree with him. But this puts the inquiry on another basis altogether.

How often have Northern European BCB stations been heard in Far Western America after the winter solstic (Dec. 22)? On what dates? Are they ever heard or claimed in January, February, or March? What dates?

Still another approach to the information I would like to see is in determining the date each year when a mid-winter anomaly set in shutting off Northern Europe after a period of good high latitude reception. The 1971 date was November 20, I recall, but what has been the shut-off date in other years? If I can compile enough answers to these questions, I believe it's possible they will explain the mid-winter anomaly in quite a different way.

My address is Gene Martin, 3303 East Evans, Denver, Colo. 80210.

IRCA Foreign Log

"I have referred to the log dozens of times in the month I have had it. A quite useful aid for anyone interested in foreign DX on BCB." (Dave Williams)

"The IRCA Foreign Log is working out very well." (Mel Coffin)

You can get your copy of the IRCA Foreign Log in time for Christmas, if you order it now, before the big mail pile-up begins. Sent your check or money order (no cash, please); made out to IRCA, to Father Jack Pejza, 3266 Nutmeg St., San Diego, Calif. 92104. There hasn't been any problem on delivery to date; the one copy which was reported as not delivered finally returned to me, with a large error on my part in addressing the envelope.

Father Jack Pejza, 3266 Nutmeg St., San Diego, Calif. 92104

Tomorrow is the annual SCECPDX get-together at Linda and Randy Seaver's place. We hope that a few of the Los Angeles area DXers will manage to wend their way southward. In the past we've had people from as far as San Jose, Daly City, and even Vancouver. The big topic of discussion promises to be the possibility of SCECPDX's bid for the ANARC Convention. More details will follow. 73 de FJP.

+++++

GEOMAGNETIC INDICES Here are the latest A_p indices. Continuous low values are necessary for the best^{est} Trans-Atlantic reception conditions; these are not particularly encouraging:

Nov. 15 - 21	15	23	11	07	11	23	11
Nov. 22 - 28	10	08	05	08	12	07	09

World Publications at IRCA Discount

IRCA members each year get two chances to purchase the World Radio-TV Handbook and other World Publications at a discount; once in the winter and once in late spring. The deadline for the first order is Friday, December 15, 1972.

WRTH 1973: Airmail \$8.75; seamail \$4.75. Ready 12/72.
 How to Listen to the World: Airmail \$6.50; seamail \$5. Ready 10/72.
 World Radio Bulletin: Airmail \$8. (26 bulletins; 1 year)

Checks should be made payable to INTERNATIONAL RADIO CLUB OF AMERICA, or simply IRCA, not Larry Godwin. Please mail orders to this address ONLY: Larry B. Godwin, P. O. Box 3052, Boulder, Colorado 80303. Remember, DEADLINE is Friday, Dec. 15, 1972. All prices stated are IRCA discount prices. Regular prices are not currently available. There will probably be another order in May 1973 or thereabouts.

GILFER Associates selling IRCA Foreign Log In a recent mailing by GILFER Associates, the IRCA Foreign Log is given a very nice write-up. The price through GILFER is the same as the non-member rate through IRCA. The price for IRCA members is, of course, 50¢ less, or \$2.75.

TV Oscillator Harmonic Frequencies

Angel M. Garcia (Typed by Father Jack Pejza)

With the development of color TV sets, the frequency of both the horizontal and vertical oscillators had to be changed slightly. As a result, there are two sets of frequencies affecting BCB DXers, especially those chasing splits from Latin America, Europe, or Trans-Pacific. You should keep this list handy. . . . You may be chasing a weak signal that may turn out to be a TV set down the street.

B/W	Color	B/W	Color	B/W	Color
519.75	519.23	897.75	896.85	1275.75	1274.48
535.50	534.96	913.50	912.59	1291.50	1290.21
551.25	550.70	929.25	928.32	1307.25	1305.94
567.00	566.43	945.00	944.06	1323.00	1321.68
582.75	582.17	960.75	959.79	1338.75	1337.41
598.50	597.90	976.50	975.52	1354.50	1353.15
614.25	613.64	992.25	991.26	1370.25	1368.88
630.00	629.37	1008.00	1006.99	1386.00	1384.62
645.75	645.10	1023.75	1022.73	1401.75	1400.35
661.50	660.84	1039.50	1038.46	1417.50	1416.08
677.25	676.57	1055.25	1054.20	1433.25	1431.82
693.00	692.31	1071.00	1069.93	1449.00	1447.55
708.75	708.04	1086.75	1085.66	1464.75	1463.29
724.50	723.78	1102.50	1101.40	1480.50	1479.02
740.25	739.51	1118.25	1117.13	1496.25	1494.76
756.00	755.24	1134.00	1132.87	1512.00	1510.49
771.75	770.98	1149.75	1148.60	1527.75	1526.22
787.50	786.71	1165.50	1164.34	1543.50	1541.96
803.25	802.45	1181.25	1180.07	1559.25	1557.69
819.00	818.18	1197.00	1195.80	1575.00	1573.43
834.75	833.92	1212.75	1211.54	1590.75	1589.16
850.50	849.65	1228.50	1227.27	1606.50	1604.89
866.25	865.38	1244.25	1243.00	1622.25	1620.63
882.00	881.12	1260.00	1258.74		