



DX MONITOR

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Bulletin schedule: Saturdays. Mailing sometime previous to Sat; often Wed. PM.

Deadline for last-minute tips, Monday PM by phone. Tues. (sometimes) by mail.

Dues: \$13.00 air mail, \$9.50 first class mail, \$6.50 third class mail; U.S. funds.

NEW MEMBERS!!!

Max Chapman - 1645 Shirley Ct. - Modesto, Calif. 95351 (Boardman for KTRB-860)
Carl W. Dabelstein, K0SBV - 3300 North 56th St. - Lincoln, Nebr. 68507 (via Ernie)
Daniel R. Embody - 5025 Edgewood Rd. - College Park, Maryland Wesolowski
20740 (source unknown)
Gary Hurd - 408 East Walker - Temple, Texas 76501 (source unknown)
Raymond Lovelin - Route 2, Box 139 - Silverton, Oregon 97381 (via Comm. World)
Floyd B. Walker, M.D. - 1202 Forest - Fort Wayne, Indiana 46806 (source unknown)

RENEWALS

David R. Alpert - P. O. Box 8522 - Miami, Fla. 33146 (joined 10-24-70) (new add.)
Randy Cook - 6433 Don Julio St. - Long Beach, Calif. 90815 (joined 9-19-70)
R. A. Karchevski - P. O. Box 3151 - Daly City, Calif. 94015 (joined 11-29-69)
Rick King - 215 Marjorie St. - Winnipeg, Manit. CANADA (joined 10-31-70) (new add.)
Robert Kramer - 3406 W. Pierce - Chicago, Ill. 60651 (joined 9-19-70)
Ralph Sanserino - 8422 Crane Circle - Huntington Beach, Calif. 92646 (10-3-70)
Eric R. Tibbatts - Box 165 - Balmertown, Ont. CANADA (joined 10-17-70)

CHANGES

Charles Grise - 1134 Northwestern Ave. - West Lafayette, Ind. 47906
(plus two in the renewals above)

DX Meetings - See Grant's section for info on two SoCal DX gatherings. One is an outing; the other the meeting at Grant's home. How about some of the rest of you planning DX get-togethers and sending word to the club for publication?

DX CALENDAR

Mon. Oct. 18	0100-0300	<u>WREM</u>	1000	Jenkins, Kentucky	1kw	IRCA/Dave Faulkner
Mon. 25	0105-0205	<u>WAMB</u>	1190	Donelson, Tennessee	250w	IRCA/Dave Faulkner
Sun. 31	0330-0430	VOA	1178	Okinawa	1000kw	NRC/Ross Hansch
Sun. -or- 31	0230-0430	<u>WYDK</u>	1480	Yadkinville, N.C.	1kw	NRC/Wes Boyd
Mon. Nov. 1	0105-0305	<u>WAMB</u>	1190	Donelson, Tennessee	250w	IRCA/Dave Faulkner
	0230-0300	<u>WRAY</u>	1250	Princeton, Indiana	1kw	NRC/Tom McCormack
Fri. 26	0015-0100	<u>WYRE</u>	810	Annapolis, Maryland	250w	<u>VDXA</u> /Steve Martin
Sat. 27	0345-0400	<u>KWYS</u>	920	W. Yellowstone, MT	1kw	f/c-Jim Adams
Sun. 28	0205-????	<u>KOBE</u>	1450	Las Cruces, N.M.	1kw	NRC/Paul Hart
Mon. Dec. 6	0100-????	<u>WCGB</u>	1050	Juana Diaz, P.R.	1kw	NNRC/Karl Schulte

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October 16, 1971

EAST COAST DX ROUNDUP

Page 2

Editor; Dave Faulkner - 1430 Pine Grove Ave - Port Huron, MI 48060

Deadlines; Fridays, eight days before date of issue.

- (LMA) Larry M. Abraham - 8470 W. Tuscola - Frankenmuth, MI 48734
- (RAC) Robert A. Cohen - 1096 Endicott Drive - Akron, OH 44313
- (GEH) Gregory E. Hall - 3220M Lawndale Dr - Greensboro, NC 27408
- (SEM) Stephen E. Martin - 12115 Northwood Dr - Upper Marlboro, MD*
- (AM) Alan Merriman - P. O. Box 6 - Fairfax, VA 22030 *20870
- (VM) Vincent Miniaci - 29 Lombardi Place - Plainview, NY 11083
- (GLM) Gary Lynn Mullis - 8041 N. Boundary Rd - Baltimore, MD 21222
- (DF) Your Editor

- +++++
- 580 WCHS WV Charleston fair and all alone 9/28. (GEH) Time?-DF
 - 620 WATE TN Knoxville good 10/4 0106 s/off ID w/WSUN, WVNJ s/off. (VM)
 - WHEN NY Syracuse fair w/MoR 2146 9/6. (JMP)
 - 640 WHLO OH Akron fair o/CMQ 9/26. (GEH) Time?? - DF
 - 680 WINR NY Binghamton u/KNBR 0245 9/13. (RAC)
 - 690 KGGF KN Coffeyville fair o/CBF/CMBC 9/28. (GEH)
 - 730 WACE MA Chicopee w/xlnt sigs 1855 9/17 - MOR & spot. (JMP)
 - WLIL TN Lenior City w/weak but steady sigs @ s/off 1930 9/17. (JMP)
 - WMNA VA Gretna hrd w/s/off w/wk sig 1915 9/16. (JMP)
 - WPIK VA Alexandria w/nx 1900 9/25 - also hrd xlnt sigs SM 0645 after 0630 s/on. (JMP)
 - 810 KCMO MO Kansas City fair sig w/Mexico slightly, rr, many IDs, 0115 - 0145. (GLM) All reports should be in ELT. See my report for further details. - DF
 - **WYRE**MD Annapolis hrd wk w/ID 0016 9/17 - maybe I'll get a report next time. (JMP) No trace of em here - DF
 - 850 WEEU PA Reading 10/2 1901 in good w/nx & wx, then ID. (SEM)
 - 870 WFLO VA Farmville 9/12 1930 w/xlnt sig & s/off. (JMP) *(SEM)
 - WGTL NC Kannapolis 9/21 1929 wk w/s/off on a clear channel.
 - 900 wjwl de Georgetown wk w/spot 1923 9/13. (JMP) *
 - 910 KCJB ND Minot fair sig 5K directional rr w/many IDs 0115 - 0145. (GLM)
 - 920 WBBB NC Burlington good 9/28 1928 w/ID, s/off o/WPAT. (VM)
 - 930 WGNT WV Huntington fair w/mx & severe QRM 9/20. (GEH) w/poor signal 0825 9/24. (LMA) *(VM)
 - 940 WFNC NC Fayetteville xlnt 9/28 1911 w/IDs, spots, slow mx.*
 - 950 WXLN MD Potomac - Cabin John is finally on, testing during the day w/OC. First noticed 9/28 1700. (AM)
 - 960 WFTC NC Kingston 9/30 1909 good w/ID during a promo. (SEM)
 - 990 WNOX TN Knoxville w/rr u/WIBG ET - 0201 9/20 - fair. (JMP)
 - 1000 KTOK OK Oklahoma City 10/4 0141 w/cw poor in partially nulled pesky mexican. (DF)
 - 1060 WOIO OH Canton all alone 9/17 0920. (LMA)
 - 1070 WHYZ SC Greenville 10/3 1831 wk w/severe QRM w/ID. (SEM)
 - 1080 WFLR PA Pittsburg 50 kw - D 1st time hrd. Poor signals 0740 w/wx for Pittsburg 9/24. (LMA)
 - WPNS WV Hurricane good 1859 9/11--WPNS began broadcasting 7/2 serves the Huntington, Charleston metro area. (RAC)
 - 1090 WJKN TN Hartsville good signal @ s/off 9/19 2000. S/off announcements read by a woman. Only 250 watts day. Probably my best RS logging of TN. (LMA)
 - 1140 WBZY PA New Castle in briefly 1915 9/23. (LMA) *(LMA)
 - 1180 WLDS IL Jacksonville giving WHAM a rough time 9/24 0705. *
 - 1190 WLIB NY New York 10/2 1834 good w/ID at end of nx. (SEM)

Send DXF & DXR reports on separate sheets of paper. From now on all DXF's sent to me on the same sheet as a DXR will appear in Brh's section unless I have room to print them at the end of my section-DF

October 16, 1971 EAST COAST DX ROUNDUP Page 4

1470 CFOX PQ Pointe Claire good 10/4 0127 w/rr. (VM)
 WOHO Toledo gud w/wx 0246 9/20. (JMP)

1480 WHBC OH Canton 9/24 1913 wk w/severe QRM & faint ID. (SEM)

1510 WMEX MA Boston fair 9/5 0325 o&u WLAC w/phone show. (VM)
 WLAC TN Nashville good 9/5 0329 o&u WMEX w/spots. 2nd 1510
 stn in 4 minutes. Usually slop frequency. (VM)

1550 WCTW IN New Castle wk u/CBE @ s/off 2315 9/6. (JMP)
 WCGR NY Canandaigua w/spots, gud sig 0655 9/26. (JMP)
 WMCO AL Mobile 10/3 1913 wk w/s/off into SSB. (SEM) *(JMP)

1570 WRTI ?? ??? End of Chuck Brown show s/off 1930 9/18, s4 sigs.*

1580 KLOU LA Lake Charles w/much more mx from the big klue 9/18 0040
 QRM from XEDM. (LMA) *(SEM)

WILA VA Danville 10/3 1830 wk w/SID after local WPGC s/off.*
 WPUV VA Pulaski xlnt 1919 9/20 w/SID, RC spot. (JMP)
 WTTN WI Watertown good signals 9/23 1010. Quite unusual. They
 are heard @ SS, but never daytime. (LMA)

1590 WJSO TN Jonesville good sig w/dair Queen spot, 1935 9/21. (JMP)
 WVNA AL Tuscumbia w/Braves BB 0106 9/18. Really tearing up
 WAKR. Rptd, new here & one of my best from AL. (LMA)

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EAST COAST DX FORUM

Gary Lynn Mullis - 8041 N. Boundary Road - Baltimore, MD 21222

Hi Gentlemen and again here I am trying to see where i will more happy at home or out of state Ha! Recent veries, CKVN, KCJB, KOIL and KCMO. Totals so far, 300/179, 37/37, 6/6. AI; Hope to be able to get on good terms with you now that things are turned around the other way. Beware of Tom Yingling; he will soon be the father of a Drake receiver and then all DXing records will be set. 73s you guys and will cu later. Gary; use ELT in your reports!! - DF

Gregory E. Hall - 3220M Lawndale - Greensboro, NC 27408

This is my first DXF so a note of introduction. I am 24 years old and have been DXing for 12 years off and on. I am origionally from MO but moved to NC about 1½ years ago. I joined IRCA in 1964 but when I started college I dropped membership. Started again last Nov. My rx is a DX 150 (Realistic). Totals here in NC are 133/108 logged, 30/29 states, 2/2 provinces and 5/5 countries. latest veries are, WGBG/WGNT/WSEL/WJW/WANS/WWNC/WATE - 73s. Welcome back to the club Gary - DF

Dave Faulkner - 1430 Pine Grove Avenue - Port Huron, MI 48060

Egad! I made it! So to myself I extend my sincere congratulations on receiving my 1,000th station. You see, there is someone to congratulate me when I hit another milestone. Have even started on my second thousand with the reception of YVLX. I seem to be becoming a foreign DXer. Five of my last seven catches have been foreigners; ZDK/HJCN/CBDN/HJDK/YVLX. Details next week in DXWW. My WAIN test was on but I am extremely sorry about the mistake in times. I am also sorry that DEE, through a mistake of his own, did not publish my WREM test information. I have tried to notify as many members as possible about the test. Remember; the time change is October 31. All stations heard until that time should be reported in EDT, all stations heard after that date in EST, no matter which bulletin date they are intended. The November 13th bulletin is the last one for reporting stations heard during the EDT period. Well, 73s & good DX.

Bruce Zaslowsky - 426 Bunker Drive - Oceanside, NY 11572

Hi gang. I'm finally back again with another report. DXing this summer has been good. 54 new stations with only four veries in. Maybe I'll get them this fall or winter. Canadian stations have been booming in here like crazy. Tried to make it to Toledo but couldn't. I was in Detroit at the time. Well, maybe next time. All you NYC & LI DXers give me a call here at 516-764-9234. Maybe we can get together. 73s and the very best of DXing. PS; any of you CBers? Send QSL card.

Editor: Bruce R Heimburger - 817 Rawlins Street - Pt. Huron, MI 48060
Deadlines: 8 to 9 days before pub. date depending on amount of reports
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John W. Richardson - 2460 Fairmount Blvd. - Cleveland Heights OH 44106
The books are open for the fall and winter sports networks - FB, BKB, & HK. I learned several things from the BB nets -- I started too soon & got several "snow" jobs, i.e. - Yankees & Mets. Also it is not a one man job. I am asking, therefore, that local members provide these networks for us. The best procedure is to call or write the Public Relations of the club - who, if he hasn't the list himself, can at least tell you the originating station. Next contact the Program Director of this originating station. Some may ask "What do you want it for?" Tell them that you yourself are interested but that you also want to publish the list for your friends in IRCA state-wide, nationwide and even world-wide. I will hold these lists until I have a full page before submitting them to DEE, who I am sure will publish them promptly as a time-value item. I will keep you posted on these pages of teams that have been received (if I may). (By all means-Brh) At present I have the Seattle BKB & Browns FB.

Jim Poterba - 949 Queens Dr. - Yardley, PA 19067

Greetings gang! DX has really been picking up lately - 2 new states - SC & CA heard recently. School has cut DX time very short, but I still manage to hear a few newies - 80 during Sept. Recent veries received: v/1 - WENT WEST WDEL WJAR v/q - KSL WBBM WTMR WNYC WDRC WSB CFNB WFLN WBAP WBZ CKWS CKLW CBA KNX. Congratulations to all those who won in the elections. Visited WECB studios recently & the CE said that the transmitter tower is in a swamp - rain causes better coverage. During Dorea they were getting out beautifully! The CE even gave me 2 45 records! Totals now: 303/55, 32/23, 3/3, 8/2. I finally reached the 300 mark & I've only lived here 2 months! Well.... it is just getting dark - it's about time to start trying for more daytimers....until next time....73s.

Gary Siegel - 2728 106th St. - Toledo, OH 43611

I have returned back home after enjoying the warmth & sunshine of the Southland. My family & I went on a 10 day(9/13-23) vacation to FL. which is why I haven't been in these pgs. for a while. We had some great wx down there--also Cubans all over too--on the radio that is, both day & night in Miami! Spent time in Miami Beach, Daytona Beach, & Orlando while in FL. Miami is a good spot to hold a convention--they have enough motels & hotels, hi! Most surprising thing DX wise in FL was hearing CFOR in D. Beach! Also, the long range reception of low power coastal stations in Daytona Beach such as WNCG-910 in N. Charleston, SC (300 mi) & at least 4 Miami's (400 mi). Not enough or at least many girls around--probably because of school--'tis sad! All in all it was great fun & I hope to be at NRCs Miami & U in 72. 73s

Steve Martin - 12115 Northwood Dr. - Upper Marlboro, MD 20870

Have been spending a little time at the dials but not as much as I aught to. School has been a lot rougher too, than last year & I have to stop at 1930 to listen to W!AW for code practice so I've got problems. DEE, Security from "you know who" stopped in to see me. Thanks a lot! Articles you requested will be off in the mail soon. V/1 - WSVS WCIR WTVR WLAC WORK. WYRE TEST made it to IN for the 1st test. Listen for the next & let's see how far it gets. The Morse IDs seemed to have been a big help. WPGC SCs are available on a swap basis here.

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ANNOUNCING A GREAT NEW PHOTOCOPYING SERVICE!!!

With the abundance of DX material but the scarcity of originals of the same, many DXers are turning to photocopying(e.g. LSR-LSS maps, CMs, etc.). Probably many more DXers would consider PHCing, if the price/copy wans't so high. I can provide copies are the rate of 7¢/copy, 15-20 \$1, 21-25 \$1¼, 26-30 \$1½, 31-35 \$1.75, 36-40 \$2, etc. Write f/details

John Zondlo - Palmer Hall Box 101 - Muncie, IN 47306

Greetings, Everyone! In case you're wondering what I'm doing in the EC section, it's because I am now a freshman at Ball State U. here in Muncie, hopefully majoring in Radio-TV. My new address is as above. It sure was great seeing everyone out in Toledo! Really too bad some of the WC members couldn't make it out. I'm planning (Praying) to make it out to SD for next year's thing. In the 9/18 DXM on pg 5 of DXWW, you may have noticed a piece by DEE mentioning a column I had suggested for Graveyard DX records. This column, similar to the one by Glenn Hauser in VHF-UHF Digest of WTFDA, will list the greatest distance at which the local channel stations have been heard, by whom, & the distance from the listeners shack to the station. I am presently preparing a column for 1230 records to test the response of the members on the column. Please send me a list of the stations you have heard on the 6 GY freqs. & include the receiving distance. The column for 1230 will go into print as soon as enough material is received for it.

Randy Minnehan - 975 Chestershire Rd. - Columbus, OH 43204

Hello everyone! Because school has started, DXing has been cut down somewhat, but I still DX MM. The last 3 MMs have brought 5 new states (MT, CO, CT, OR, NV) which brings my total to 31 states. Latest catches: KOA, WRAP, KEX, WLIB, & KFAB. If this keeps up I'll have about 90 new stations by 72. I'm averaging around 8 new stns a week. Does anyone know the verie policy of WVMT-620 VT? It's been holding out for 4 mos. Speaking of holding out, my NMP hasn't as of yet arrived. Good DXing! (Mailed back in Sept. but others are having same prob.-DEE)

Vincent Miniaci - 29 Lombardi Place - Plainview, NY 11803

Hi again. 200 stns on the mark today. WICC has a very powerful signal for 500w. Same w/250wer WLIX. Anyone know who the mystery SS stn on 540 is? (Probably XEWA 150 kW-Brh) V/q - WCBS WVOX CKLW, v/1-WTAE (5½ mos).

Raymond Arruda - 6 Wilbur Ave. - N. Dartmouth, MA 02747

Hi everyone. I had the pleasure of meeting Greg Condon & his family on 9/25. We talked DX, looked at QSL collections, & toured WOKW. Also saw the WBET towers & had my first Brockton pizza, hi. We DXed WFGL & WOKW. Several reports are out & several new stns have been hrd in the last 2 weeks. WTMJ was hrd for second new WI in as many weeks. Totals here as of 9/27 are 748/295, 41/41, 8/6. 362 stns have been reported for an 82% verie return. 73 for now.

Bill Likens - 2578 Spaatz Ave. - Columbus, OH 43204

Hi gang! Haven't been DXing much lately. Its awful hard to start DXing again after having a slump for a few mos. My only recent new catch is R. Belize. Letters out to R. Belize & PJB. For those of you who don't already know, I was at the convention. ST-I didn't recognize you at first because I was thinking you pronounced the 'e' at the end of your name. I didn't get the two lines of thought connected at the time. PRK-welcome to the presidency! Anyone interested in collecting maps, especially those put out by the state, other than me?

Bruce R Heimbürger - 817 Rawlins Street - Pt. Huron, MI 48060

I would be very surprised if DF hasn't used a few "yellow journalist" techniques himself to publicize the fact that he has reached that fabled 1000 stn mark. Hurray!! Maybe I'll have a little peace & quiet now, hi. Wx has finally begun to cool down. Cx should be xlnt for the coming Caribbean season. 4VEF has had the most consistent signal so far, even better than R. Belize. 4VEF is on 1035 kHz. Concerning my photocopy offer, if you want something copied, just send the material, return postage for 1st or 3rd class, & remittance for copying. You should have the material back again w/in a week. For the newer members, if you don't have a set of U. S. local sunrise-local s/set maps, write & a set will be sent for the price of 75¢. 1 map/month.

EDITOR: Richard C. Evans - Box 2146 - East Chicago, Indiana 46312

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OF SPECIAL INTEREST:

680 KBAT TX San Antonio, has changed off period to Sunday mornings, 0200-0730 EDT. is ON MM (GH)

930 WJAX FL Jacksonville, announced "24 hours a day" SP unknown(DE)

1130 KBMR ND Bismarck, has switched down from 1350 to 1130 (REK)

1360 ---- -- Is now an open frequency on MMs after WBAY s/off 0300. WSAI off about 0035, WKMI at 0100, probably 2400 after time change. A word to the wise...!

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540**WGTO**FL Cypress Gardens, apparently the fairly weak station here with big band type mx 0155-0200 9/27. Some sort of test w/weak ID at 0200. (RFK)

560 KLZ CO Denver, 9/27 0220-0230 News (UPI) Wx Mx station ID in that order (JT)

WQAM FL Miami Beach, 9/27 0223-0233. 0223 "WQAM, Miami, Fla. 560 khz." one record lost signal. 0233 same thing. Very good level, way over KLZ (JT)

WIND IL Chicago, 9/27 Womens Lib program 0242-0300. good level with KLZ nulled (JT)

580 CKUA ALT Edmonton, w/Nx & ID 0300 9/24 (REK)

CKY MAN Winnipeg, was going off the air nightly 0215 for a few hours but now they're not. (REK)

CKWW ONT Windsor, gud signal for 500 watts w/IDs after every song 0306 9/24 (REK)

WIBW KS Topeka, plug for "The World Tomorrow" 0130 10/4 (rce)

590 CKEY ONT Toronto, w/good signal 0315 9/24 (REK)

620 KTAR AZ Phoenix, 0800-0815 9/25. This station comes into KC area every morning at this time. Johnny Nelson Show (JT)

WTMJ WI Milwaukee, hrd w/environment tips 0240 9/14 (REK)

660 WNBC NY New York, came in w/ID and was buried in CJOB slop 0234 9/14 (REK)

680 WINR NY Binghamton, weak u/WPTF/WMAQ slop 0215-0220 10/6 PSAs RR (rce)

690 CBU BC Vanvouer, I think, with CBC Nx in EE 0201 9/13 (REK)

810 KGO CA San Francisco, hrd w/lousy signal. 0910 9/14 (REK)

850 WWJC MN Duluth, in w/musical ID and more Mx 0836 9/14 (REK)

910 KLCN AR Blytheville, 1509-1515 10/3 w/RR & ID, unn. (RTE)

WAKO IL Lawrenceville, 1513-1530 10/3 w/up tempo MoR Mx ID as WayCo (RTE)

940 CJGX SAS Yorkton, good w/Nx o/KIOA 0100 9/2. hrd in Chicago(AWO)

970 WSHR IL South Holland, pirate, good w/RR 9/4 1915 (AWO)

990 WNOX TN Knoxville, L&C 0214-0217 10/4 w/old records (rce)

1050**KLOH**MN Pipestone, hrd testing 0255 gd. signals 9/12 (REK)

WCEF WV Parkersburg, s/on mixing w/CJIC 0601 9/27 (GH)

1070 KOPY TX Alice, 10/4 0101 s/off bragging about being on an "international clear channel". (GH)

1100 KFAX CA San Francisco, s/off 0600 9/18, fairly good signal with KFAB splash (RFK)

1100 KRLA CA Pasadena, bombing through w/state employment comm. 0752 9/15 thought it was KFAB--an id from them way down under (REK)

1130 KBMR ND Bismarck (x-1350, probably using 10 kw. but it doesn't sound like it; fair days to Winnipeg with WDAY QRM around SR and SS. ABC Nx C&W Mx (JAM)

1190 KRDS AZ Tolleson, u/KLIF WOWO w/MID. New state 0713 9/16 (REK)

WAMBTN Donelson, good w/ET w/swing Mx. 0150 9/6. Anyone get a verie from them? (AWO)

EDITOR: Richard C. Evans

DEADLINES: Thursdays

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1220 KEYD ND Oakes, finally hrd w/Wx 0901 9/7 (REK)

1250 KTW WA Seattle, with religious program 0400 10/4 (REK)

1270**WAIN**KY Columbia, hrd on DX Test 10/4 0127-0151 w/tone (RTE)
on special w/TT 0126-0205+ Mx at 0200 10/4 bombed in
here (rce)

WDVL NJ Vineland, not hrd on DX test 10/4, that is if they
were on, due to KFJZ Ft. Worth and WHBF Rock Island
(RTE) Same here except blocked by WWCA-Gary (rce)

1280 CJSL SAS Estevan, hrd w/farm forum 0849 9/13 (REK)

1300 KVOR CO Colorado Springs, w/gud signals 0900 9/20 (REK)

1310 WRR TX Dallas, w/PSA 0220 10/4 (REK)

1320**KELO**SD Sioux Falls, pest with a test TT 0306 10/4 (REK)

KXYZ TX Houston, w/wx 0304 10/4 (REK)

1340 KDEN CO Denver, popped in w/MID & Mutual Nx 0248 10/4 (REK)

KQIL CO Grand Junction, definitely NSP w/C&W (RFK)

1350 KCOR TX San Antonio, Despite lists, for about a year silent
period has been Sunday 2300-Monday 0500 (GH)

1360**WNNJ**NJ Newton, hrd on DX Test 9/23 0012-0026 w/tone (RTE)

WBAY WI Green Bay, excellet, 0103-0106 Wx, then into C&W.
s/off w/SSB 10/4 leaving clear frequency. This stn
should be widely hrd on MMs now. (rce)

1370 KDTH IA Dubuque, hrd through mess w/spot for Wilsons Furn.
2117 9/11 (REK)

1380**KUVR**NE Holdredge, hrd test for 15 min. w/tone 0230 9/12 (REK)

1400 KMHL MN Marshall, fair over mess 1035 10/3 (REK)

KATI WY Casper, w/s/off 0208 10/4 Do they verify? (REK)

1410 CKVN BC Vancouver, fair o/u WING w/RR 0125 9/5 (AWO)

WRMNIL Elgin, good w/ET 0115 9/6 (AWO)

1440 WHHY AL Montgomery, good w/rr 0150 s/off no SSB 0200 9/19(AWO)

KILOND Grand Forks, fair w/f/c 0200-0215 (AWO)

1450 KVCK MT Wolf Point, usually the dominate station on 1450.
has been staying on later at nights due to some
elections. 0147 9/14 (JAM)

1480**WHBC**OH Canton, good w/ET s/organ Mx. 0225 9/6 (AWO)

1500 KBBQ CA Burbank. 0600 10/3 news/sports w/Mutual jingle;
KSTP nulled. (GH)

WKIZ FL Key West. 10/3 0602 s/on anmt, then SSB (GH)

1510 CBEL ONT Vermillion Bay, was hrd here a few weeks ago and
could be a good bet for the other Winnipegers
at sunset (JAM)

KGA WA Spokane, 0550 10/3 weak w/fantastic multi-hit album
offer, giving station address (GH)

1530 KFBK CA Sacramento, 9/27 0146-0200 Jolly Fair Restaurant
Music shown good level (JT)

KSMM MN Shakopee w/Nx 0835 9/15 (REK)

1550 CBE ONT Windsor, hrd 9/25 0100-0110 w/Nx and Wx until 0110
s/off u/WOKJ (RTE) (REK)*

WOKJ MS Jackson, hrd w/very poor signal w/KKJO QRM 9/15 2326*

1560 KMPC CA Bakersfield, 9/27 0053-0111 Billy Graham ID KPMC at
the end of the dial--good signal (JT)

KRCBIA Council Bluffs 9/27 0124-0124:30 "KRCB Equipment Test
at this time" w/20 sec. of unmodulated carrier (JT)

WDXR KY Paducah 0552 9/18 w/unusually strong sig w/RR (RFK)

KWCO OK Chichasha 9/25 0043-0100 w/football game beteen Tigers
and Bulldogs under WDXR (RTE)

1570 CHUB BC w/good sig 0800 9/23 (REK)

2980 WLOX MS Biloxi, 9/30 1021 Miss. Nx 1030 Mutual Nx 1035 ID as
WLO- and "Lucky" WLO-" QRM from Oakland (Air Wx) Radio.
WLOX not audible on fundamental 1490. Weak (GH)

AND OUR THANKS TO LBG:

1st MON: KBTA-1340 AR (REK)

KGHL- 790 MT (AWO)

4th SAT: KIML-1270 WY (RTE)

A TIP OF THE HAT THIS WEEK TO:

- DE - DON EGGERT - Box 134, Crown Point, Indiana 46307
- rce - RICHARD C. EVANS - Box 2146, East Chicago, Indiana 46312
- RTE - RICHARD T. EDDIE - 152 Rose Avenue, St. Louis; Missouri 63119
- GH - GLENN HAUSER, Van Ormy, Texas
- REK - RICK KING - 215 Marjorie St., Winnipeg 12, Manitoba
- RFK - RALPH KEMPER - 297 - 27 3/8 Road, Grand Junction, Colorado 81501
- JAM - JOE A. MARKEWICZ - 1394 Elgin Ave. West, Gimli, Manitoba
- AWO - ALLEN W. OGRIZOVICH - 2429 Schrage, Whiting, Indiana 46394
- JT - JOHN TULL - 5539 Oak, Kansas City, Missouri 64113

Well, this is the first of the weekly bulletins again. The season has begun! One verie: v/ppd WAIN-1270 for special, back in four days. That test bombed in here with an S-9. Thought it was local WWCA at first. Lynn Brooks, while you were looking over the newly elected officers, did you notice that you were the only holdover from the old board! Someone out there likes you. It also struck me that Mike Worst is the only one of the nine who doesn't belong to the NRC, as well. Maybe now we can look for an upswing in inter-club and intra-hobby harmony and cooperation. It's about time. See you in seven.73.

DX CALENDAR (continued from front page)

- Fri. Dec. 17 0115-???? WMBG 740 Williamsburg, Va. 500w VDXA/Fred Heutte
 - Mon. 20 0400-???? WOBR 1530 Wanchese, N.C. 250w NRC/Ernie Cooper
 - Mon. 27 0200-0300 4VEC 830 Cape Haitien, Haiti 2500w VDXA/Fred Heutte
- + January 1972 repeats of WMBG (ex-WBCI) and 4VEC VDXA tests)

WREM info is very last-minute but in time for a few. Your pub's error for not getting in last issue. Pop & easy listening albums will be used along with 1 kHz tone & tone freq. sweep. Voice & SIDs. Phone 606-832-2285. Reports to: John Polumbo, WREM, Jenkins, Kentucky 41537. Test may last past 0300. -IRCA/Dave Faulkner

WAMB ending times are 0205 EDT for 10/25 test; 0305 EST for 11/1 test according to Dave. Reports to: William O. Barry, GM, WAMB, 1617 Lebanon Rd., Nashville, Tenn. 37201. -IRCA/Dave Faulkner

VOA remains as last issue. Confirmation of dates (10/31, and 11/14 (not listed)) will appear as info is received. -NRC/Ross Hansch

WYDK reports to: H. D. Dunnagan, Mgr, WYDK, Box 51-B, Yadkinville, N.C. 27055. Arr. by Wes Boyd; info from Ernie Cooper. Mon. 11/1 is more likely date says Ernie.

WRAY will likely feature Tom McCormack's voice on tape, Tom reports; he will be at the stn for the test and has prepared a tape for airing. Reports to: Mr. Jack M. Mauck, CE, WRAY Radio, Princeton, Ind. 47670. -NRC/Tom McCormack

Info on remaining listings in future. It looks like we're headed for a damn good CPC season in all clubs. IRCA CPCers--pse note--Dan Myers says he'll try to get replies to your letters soon.

Broadcasting Information (as compiled by Mike Worst) Sept. 27 issue

- KDAZ 730 lkw-D Albuquerque, New Mexico requests KDSE
- WFCM 1550 lkw-D Winston-Salem, N.C. requests WPGD

CPC Results and Flashes Steve Martin rpts WDWL not hrd 10/4; WAIN hrd poor to good w/varying tones & voice IDs. WXYZ QRM. Tom Sundstrom rpts WAIN w/clear ID prior to 0130. WXYZ dominant.

ALWAYS RENEW EARLY - FIRST CLASS MAIL IS RECOMMENDED - THIRD CLASS MAIL IS SLOW!

EDITOR: Lynn D. Brooks - Box 253 - Ponca City, Okla. 74601 DEADLINE: Thursday

JOE MARKEWICZ - Gimli, Manitoba, Canada

It has been rptd that CBW paid between \$25,000-\$30,000 to SELKIRK HOLDINGS (CKWX, CFAC, et al) to get the rights to broadcast all the Winnipeg Blue Bombers (CFL) games. All the BLUE BOMBER games are broadcast in Manitoba over CBW-Winnipeg; CKX-1150-Brandon; CHTM-610-Thompson; CFAR-590-FlinFlon; CHFC-1230-Churchill and in Northwestern Ontario over CJRL-1220-Kenora; CFOB-800-Fort Frances and over numerous LPRTs. The CBC will feature FIRST AND TEN $\frac{1}{2}$ hour before the game and the PLAYMAKER immediately following every BLUE BOMBER broadcast. Not too long ago, the UNICITY BILL was passed which eliminates the City of Winnipeg, St. Boniface, St. James, and 10 other area municipalities & replaces them with one new super city. School for me started on 9/8. Now I just can't wait for the Xmas holidays and... DF-Note spelling; it is Saskatchewan Roughriders and Ottawa Rough Riders. The rest of the Bombers schedule is: 9/19 B.C. @ Winnipeg (2pm); 9/25 Winn. @ BC (10pm); 10/2 Sask @ Winn (8pm); 10/10 Winn @ Edmonton (4pm); 10/17 Hamilton @ Winn. (2pm); 10/24 Winn. @ Montreal (1pm); all times CDT. The tentative playoffs: 11/6 West sudden-death semi-final; 11/13 1st West final; 11/17 2nd West final; 11/21 3rd West final if necessary.

WALT BREVILLE - 9127 Coral Drive - St. Louis, Missouri 63123

Here I am after another hibernation from the DX world. I made it to Toledo which was a GREAT convention, the hosts deserve a big round of applause! I know what the job entails, having been thru the turmoil of hosting NRC here in '69. I have just renewed for my fifth year in IRCA, and the results of the staff & contributors of DXM have been much appreciated here. Still got the ol' SX-122, have decided to keep it. My totals are roughly 880/270, 43/40, 22/10, most of which were accumulated from 1965 to '69. Like Percy, I also went hog wild with my camera at Toledo and got shots of over 35 DXers. Would very much like to see some kind of DXING YEARBOOK come into being someday with pictures of nearly every DXer in the land. The next best thing would be to have DXM publish pictures of a dozen or so DXers every month, like NASWA is now doing. Say, did anybody see any UFO's on their trips to Toledo? Ohio is one of the top states for flying-saucer sightings. They are of interest to DXers, for their anti-gravity force-fields have been known to do wild things to radio signals. Who knows how many exotic DX catches were made from radio waves skipping off a group of UFOs???

RICH EDDIE - 152 West Rose - St. Louis, Missouri 63119

Hello dere fellow IRCAers! Thanks to Dan Myers and the Toledo gang for a great convention! I enjoyed meeting all of you that were there. I just recently added a Navy surplus rig-RBM. It covers 200 kHz-2000 kHz in 4 bands. The i.f. freq. is 140 kHz. Seems to be a really good rig for the money. In either this issue or last depending upon the mail service, I should have had or will have something in the MWDXR with my latest DX listed. The best catch of late has been the WYRE-810 Md-DX test. Also, lately I have been doing some longwave DX-mostly beacons. Only trouble with the beacons is I can't find them listed. Oh well...I am learning some Morse code, as I try to make our the calls of them. Anybody wanting a list of beacons that I have heard or who DX that part of the radio band, feel free to write. Am nearing 15 lines, so I'll say good DX to all and best of everything to all. Totals: 923/510 45/43 6/5 16/11.73!

ROBERT KRAMER - 3406 W. Pierce - Chicago, Illinois 60651

Don't be the last person on your block to get an IRCA rubber stamp; reserve yours now by dropping a card of request to me. From the chest of golden IRCA controversies: #1 here-Uncle Albert. I just submitted proposal #5.1-3 to the BoD. If passed, DXM will be printed on prepunched paper. PRK-good idea about waiting until paper supply runs out. I guess I overlooked that. Sometimes it pays to have a school teacher in the club, hi. Toledo was great! The big events were: the auction's mystery item given by AWO, Richard Wood's potato, DEE falling on a railroad crossing on the way to McDonald's, me changing all the Do Not Disturb signs on the 2nd floor, the boys in 212 playing leap frog in the hall at 4 am, DEE disappearing all of SM, & going home after knocking the cover off the softball in the 3rd inning with us leading 11-1. Hammond in '73. Bring back Snoopy.

This bulletin goes out very early Thurs. AM, 10/14/71. Next issue will be mailed late!

MICHAEL DANIELS - 226 E. Glendale Rd. - Webster Groves, Missouri 63119

Greetings from St. Louis, the site of the Midwest regional convention. Stay tuned to your local MDF channel for latest info. Attn members who are thinking about buying a Drake SPR-4. Don't buy one. As of now, I have 60 pts in the domestic contest. DXing at a standstill due to school, cross country, and a \$500 radio that is super..... (censored by Mike). 73's. Good DX:

JOE A MARKEWICZ - 1394 Elgin Avenue West - Winnipeg, Manitoba, Canada

For those who might be interested, the Gen. Mgr. of CKY-580 is David Lyman and you could try sending your rpt to him. According to the July BBM survey, CKY reaches more men u/50 every week than any other stn in Man. Among the women u/50 (CKY primary audience group) programs between 7am-7pm, ranks 1st in Man, 4th on prairies, 6th among all st. west of Toronto/Hamilton. Also CKY new talk show starts on Oct. 4 from 9pm-1200, M thru F, hosted by John Harvard, formerly of CJOB, CBW. The management of KCND-Pembina, ND has appealed directly to its listeners in Man. to save the stn from what it regards as certain death following expected approval by the Can. govt. of leg. recommended by CRTC that would amend S-12A of income tax act to prohibit Can. advertisers from cont. to write off their ad on American Stns as a business expense. Well over 90% of the stn revenue comes from Can. advertisers. What other stns would be affected? KBMR(ex-1350) is now on 1130. Did you know that KABL mx can be hrd on KCND? Some veries: WDAY-970, WNAX KVCK WCNP WAVE.

DAVE ROGERS - Box 348 - Buffalo, Oklahoma 73834

Greetings: Was home from school at OU this weekend & found the following veries had trickled in since last rpt: v/1 KNEX KEDD KINA KSPI KFYO KWFT WAPF KIUM v/q 1YA KGLC VOA-1180 v/c KBRL KLTI. That makes a total of 494 veries on AM. KWFT took 3 rpts but I finally got a v/1 out of the GM & a friendly one at that (he complimented me on my exc. rpt). KRPT-850, Anadarko, OK is on the air now and is recvd well in Norman in the daytime. Congrats to all new IRCA officers. I've DXed a little from Norman but haven't sent out any rpts as law school is fairly time consuming, hi. Norman is only 20 mi. S. of OKC. KOMA is located in the OKC suburb of Moore which is 8 mi. N. of Norman. In fact you can see their tower lights from Norman at night. They really put a powerful signal into Norman during the daytime but at night I can get WIAC-1510 & WCKY-1530 w/o much "slop" so I think I must be in the null of their nighttime pattern. Norman has 3 stns: WNAD KNOR KGOU(FM). WNAD is daytime only; KNOR s/off nightly at 0200 w/SSB. WNAD & KGOU are both located on the OU campus. My address in Norman is 623½ Kansas, if any IRCAer should come thru. 73 & DX. (How about that OU win today over Texas???? Wonders never cease, hi! -LDB)

LYNN D. BROOKS - 2109 Mary Street - Ponca City, Oklahoma 74601

Fellows, please read over your reports before you send them to me. Almost each week, I receive a report containing a sentence or two that don't make any sense. And I sure am not a mind reader, so have to type it the way you write it. Then it looks as if I made the mistake in typing it. Gets rather aggravating at times. Also, if your typewriter has only capital letters, or you type in only capital letters, then please note in some manner which letters should be capitalized when I type your report. Again, I sometimes don't understand what you're saying, and often don't know if I should capitalize a word or abbreviation you have used which is not familiar to me. And please put a period after your sentences, as some of you just run your sentences together without any period at all. And when I type it, I am not trying to make sense out of it, so often am into the next sentence before I realize what has happened. Then it's out with the correction fluid and a loss of several minutes trying to correct an error which you could have prevented by being more careful. It sure makes it easier on this end when you spend a little time on your end to re-read your report after it's written. Your help would be much appreciated. Thank you!!!!

For future issues (despite promises) - Two pages of President's Report; notes by Jay Murley on his recent Polynesian DXing article; an article by Jay that may solve your problem when your friends ask why you didn't hear such-and-such; more State of the Month - New York; Index for previous volume. Many members have not returned the "D.I.M." forms in the New Member Packets. This is my only way of knowing if you receive your packet - PLEASE do me a big favor and fill it out and send it on. Tnx. -DEE

October 16, 1971

WEST COAST DX ROUNDUP

Page 12

Editor: Grant Manning, 4034 Ingraham St. San Diego, CA 92109

Deadlines: Saturdays, for next Saturdays pub. Bossline: 274-4233

Keep it current, use ELT, and format below.

=====SEPT 26-OCT 3=====

- 550 KBOW MT Butte fair 0900 9-24 w/CBS nx & nulled KARI (GF)
- 630 KIDD CA Monterrey 9-27 2040 w/ID, thru KFI slcp. (RS)
- 930 KHJ CA Los Angeles strong 0420, 9-25 w/RR. (GF) (KHJ in LA, not SF, Graham..)
- 1470 KDHN TX Dimmitt 9-27 0715 w/interview, wx, & CW. (FJP)

=====OCT 3-10=====

- 710 KGNC TX Amarillo 0108 9-20 s/off w/SSB thru local KMPC (RS)
- WHB MO Kansas City in poor to good w/RR and SID's, 0513 9-27. (MM) Weak u/KBTR 0445 9-27. (SO)
- 720 KUAI HI Eleele in fair mixing w/WGN on s/off 0500, 10-4, (MM)
- 740 WKIS FL Orlando all by it's lonesome w/RR, wx, and TC, 0433 10-4. (JM)
- KRMG OK Tulsa w/TT 0434, 10-4. (JM)
- 810 KWSR CO Rifle 10-5 0155 mixing w/KGO, MOR & local spots (RS)
- 850 KGOE CA Thousand Oaks in fair to good on RS w/upbeat MOR 1030, 10-5. (MM)
- 870 KIEV CA Glendale in very good I think they are on 5KW 10-5, (MM) (Nope, .5KW)
- 880 WFRD OH Worthington in fair to poor w/CW and SID's, 0730 9-27. (MM)
- 910 KORD WA Pasco in good w/ET and mx 0345, 9-27. (MM)
- 1010 KCHJ CA Delano Poor sig w/much RR mx and ID u/KCHJ, 10-4. (SO)
- 1020 KGBS CA Los Angeles 10-6 0300 s/on w/SSB. (RS)
- 1040 KHVH HI Honolulu 10-6 0733 w/ID, MOR mx, Peking nulled. (RS)
- 1240 KBYM MT Billings in like a local u/KROY OC 0415, 10-4 w/RR. (SO)
- 1290 KCUB AZ Tucson good sig at 0431, 10-4 w/CW & ID's. (SO)
- 1380 KPOI HI Honolulu in fair to good w/RR and SID 0530 10-4 (MM) Very weak u/KEZE. (SO)
- KEZE WA Spokane ET w/TT very strong 0300, 9-27. (SO)
- 1400 KRPL ID Moscow bombing in w/exec sigs thru KSLY 0330, 9-27. (SO)
- 1480 KLEO KS Wichita hrd w/fair sigs 0307 9-27 on F?C. (SO)
- 1490 KDBM MT Dillon in good w/f/c 0300, 10-4. (MM)
- KVAC WA Forks on f/c 0315-30 10-4. (MM)

Thanks to:

- | | | |
|-----|--------------------------------------|---------|
| GF | Graham Fleck, Victoria BC | Viking |
| MM | Mike McCullough, San Jose CA | ARB |
| JM | Jay Hurley, Newport Beach CA | RBH-3 |
| SO | Steve Oster, San Jose CA | HQ-140X |
| FJP | Father Jack Pejza, San Diego CA | HQ-180A |
| RS | Ralph Sanserino, Huntington Beach CA | ARB |

=====DXNotes... The Drake receiver SPR-4 has gone up in price again...=====

now they will want \$550. after the freeze...I guess they wanted to scare everyone...they did me, I went and got one!

ASWLC meeting: Saturday October 23, at Sunset Aquatic Park, foot of Edinger St, in Huntington Beach from 12Noon on, \$1.50 parking fee, bring your own lunch/drink etc, (receivers QSL's) although mainly for SWDXers, I'm sure something for all. More info: contact Ratic or Lee Robinson, 6641 Agnes Ave. North Hollywood CA 91606. (213-765-9519)

...from "SWL" Don't forget Thanksgiving DX meeting here, Sat Nov. 27, from 1200N on, bring yur stuff! SDDXers will host, for both BCB & SWL's!! Who wanted SRDS/FIBS info...I lost letter?? Editors: My experience with Speed O Print stencils has been lousy! Keep it in mind when you buy! Our competitors have a new member in SD...it's too bad they forgot to inform him...he's never hrd of them!!

Latest DX here includes KTUC-1400, WSIX-980, KMBZ-980, KARR-1400, KRPL-1400, XEL-1260, WNBC-660, CKPC-1380 (tnx CA), and WHB-710. Many veries have been received, and probably the best one is a v/q from Bathurst, New Brunswick's CKBC-1360 stating that my report was the first one from the West Coast. Other veries: v/q WTIC-1080 CT, WSAI-1360 OH, KGGM-610 NM, KTOT-1050, KBTR-710 CO, WAKY-790 KY, CHML-900 ON, CKRM-980 Sask., CJBC-860 ON. V/1 KGBT-1530 TX, KXRB-1000 SD, KRKS-990 CO (for rpt on 250-watt AUX XMTR), WREN on 1250 KS, KBGO-1580 TX, CKAY-1500 BC, CJOB-680 Man., KOOK-970 MT, KRPL-1400 ID. V/f KOTA-1380 plus KGFX-1060 both SD. KBOX-1480 and KART sent nothing other than solitary CMs; not so much as a trace of a verification statement. I've been informed (via Dan Sheedy) that this apparently is KBOX's current policy. Brazil-1180 comes in every MM with varying degrees of strength; usually even with or u/WHAM--at times over WHAM. Good time was had by most at MRC Convention--at my suggestion, DEE was dunked into the chlorinated depths of the El Rancho pool.

Gordon Hanson - 5224 Fauntleroy Way S.W. - Seattle, WA 98116

DX has been fantastic again this month with 41 hrd so far. Best catches lately are KNOE-540, WGY-810, CMDN-870, Japanese synchros on 780, KRDG-1230, & KENN-1390. DXed at BP's house MM 9/20 and logged 14 new ones thanks to the added gain from BP's box loop and also the location away from the spurs. BP logged 4VUE-660 & when the signal peaked, I was entering KBUZ in my log book and when I came back the Haitian had faded *!#%&*+&! Have been waiting for veries from WIRE, KTHS, KXXL & KGMV all good verifiers I thought. I have about a 95% return this summer but if the above don't verify, it will bring it down. Totals: 457/100, 37/33, 5/5, & 16/9. Goal is 600 by December 31 (hrd). I reiterate what I have said before: Summer DX has been great. I use a TRF and have many spurs here which cuts down on DX on several good frequencys. Nevertheless, I logged 121 stns this summer since July 1. Totals in all areas have gone up. Since July 1, I have logged 24 graveyarders & 11 new foreign catches which includes three new Cubans. If DX this summer was a preview of Winter DX, my totals really ought to skyrocket. I missed some good catches though, such as Chuck Albertson's WYSH-1380, WNUS-1390, & 2NA-1510 as well as BP's WTIC-1080 Conn. logging among others. 73 and gud DX.

Mike McCullough - 5240 Rhonda Dr. - San Jose, CA 95129

(408) 253-0896 not collect! DX went down due to mucho static (yuk). Marty Fosberg's logging of WOR-710 makes me very mad because I have not hrd dem. DX totals are about 125/42/6/26 and about 250 tape veries not including locals. Sorry to see Grant go. Only new stns here lately are WRFD-880, KUAI-720, WNOX-990, WAVE-970, KPOI-1380 finally, and YSS-655. If you want to hear WAR of the WORLDS by Orson Wells you can hear it on KFRE Friday night Oct. 29. HELP, does anyone know what to do about a heater that makes three times the static that a car does. If you know, PLEASE WRITE. 73s and down w/static.

Credo A. Bisquera - 86-123 Kakaiapola St. - Waianae, HI 96792

Obtained an RS Loop Kit last week and I find it more directional and less noisier than my Space Magnet. However, I find that I will need a more sensitive RX if I ever expect to log a graveyarder (instead of investing in antennas!) Sept 27 to Oct. 3 loggings heard regularly were 50kw clears KFI-640, KIRO-710, WBAP-820, KOMO-1000, KCBS-1020, KING-1090, KRAK-1140, and KOMA-1520. 5kw regionals heard regularly during this period were KFRC-610, KTAR-620 o/?, KNEW-910, KEEN-1370 and KGER-1390. Only "new" stn logged for this period was a regional KFAC-1330.

Bob Jacoby - 556 E. Alvarado St. - Pomona, CA 91767

A v/1 in recently from KIRV for their September signoff. This is a tribute to the Space Magnet as I'm about eight miles from KSOM also on 1510. I now only need KXEX-1550 to complete Fresno. I also copied the s/off of KKOK-1410 in Lompoc along with KRML-1410 Carmel at the same time. Both would be much welcomed veries. 73

RADIO DIRECTION FINDING: A Practical Approach on the BCB with an Algorithm for Manual or Computer Evaluation.

Copyrighted by Dave Fischer, Ph.Dx, P. O. Box 6256, Lincoln, Nebr. 68506

The BCB presents DXers with numerous opportunities to pinpoint distant transmitters by using loop antennas to take local azimuth bearings of such stations when the signal is placed in the loop pattern null. In general, to uniquely pinpoint a distant station requires observations (bearings taken with a loop antenna) from three distinct points on the Earth's surface not lying on a common great circle path. However, on the BCB, considering propagation conditions and other factors, the number of observations in practice can be reduced to two. For example, if a Midwestern DXer takes a bearing on a station and obtains a reading of 135° (or 315° since the loop is assumed ambiguous and thus symmetrical in pattern response) and an Eastern DXer takes a bearing on the same station and finds the angle to be 175° (or 335°), then the signal is more likely to be coming from the Caribbean area (determined by the bearings of 135° and 175°) for the other location of the station is in the Indian Ocean several hundred miles southwest of Perth, Australia and there appears to be nothing but water in that vicinity. But the deduction is based upon a more significant fact, viz., that one can most likely discount signals from that distance in most (but not all!) cases.

Accuracy of bearing is of the greatest importance and here lies the essential difficulty for the BCB DXer. Bearings taken with most loop antennas are subject to errors and limited in accuracy by null width and the compass used (on the loop) to read the bearing. Accuracy required in the azimuth bearing is most dependent upon the distance between the transmitter and the DXers' receivers and the separation between the DXers' locations. As a rule of thumb, bearings must be accurate to within 1° or less to locate with reasonable accuracy stations more distant than 500 miles. Such accuracy is asking a great deal of a loop antenna! Accuracy to within 1° is the best that can be expected from a given collection of DXers using loop antennas whose patterns are not skewed or rotated--i.e., patterns whose nulls appear at right angles to the loop plane and are symmetrical in their response. However, it is more likely that most loops have some null skewing due to numerous causes (these causes have been and continue to be discussed at length by the DXing fraternity) so that accuracy of bearing is not sufficient, in general, to allow a single pair of DXers to accurately pinpoint a distant station. This difficulty can only be overcome by the efforts of more than two DXers working together and calculating from among all possible pairs of these DXers the distance from each DXer to the distant station. With this concerted effort and the information it gives, an area on the Earth's surface can be isolated in which the station can be correctly assumed therein. The geographical distribution of these DXers is significant (i.e., the distance between any pair of DXers) since the more widely separated they are, the more likely the results will be accurate.

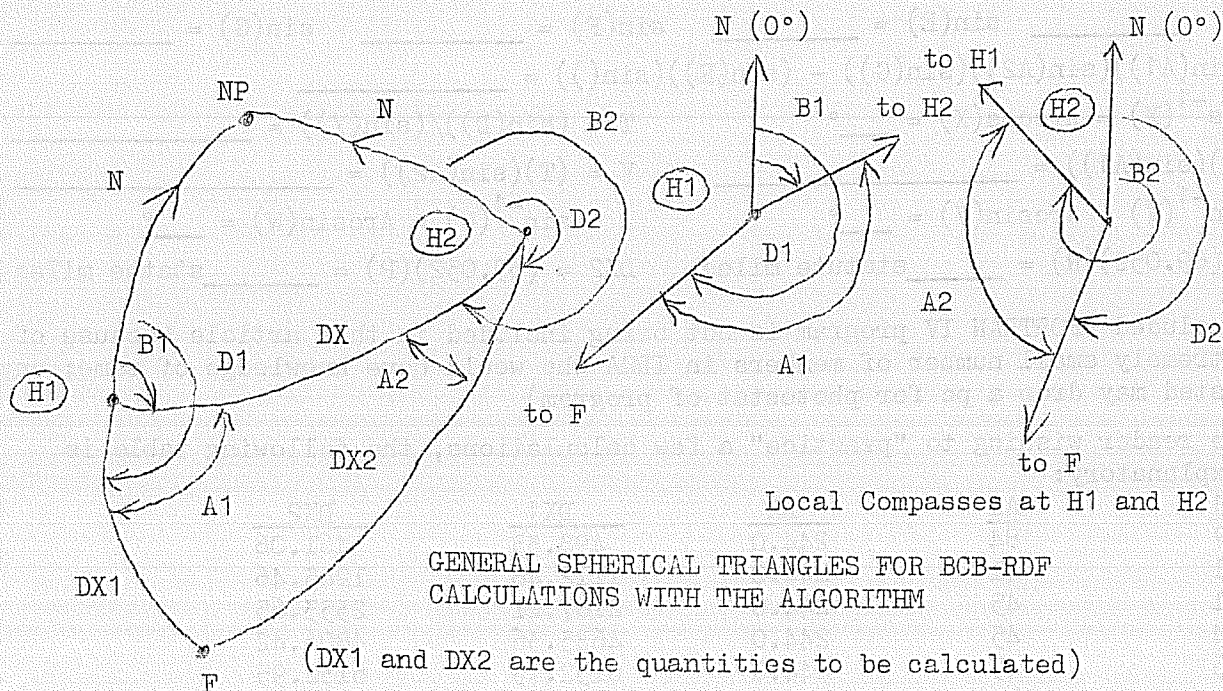
To allow the reading of azimuth bearings with a loop antenna, perhaps the simplest and most convenient way to accomplish this is to add a compass ($0 - 360^\circ$) at the base of the vertical mast holding the loop. Drilling a hole near the bottom end of the vertical mast just above the compass face will allow a pointer to be inserted in the mast for reading the bearing off the compass. The pointer is most conveniently set in the mast somewhat perpendicular to the loop plane. The compass should be made with great care and should be of sufficient diameter (12" minimum) to allow marks to indicate each degree from 0 thru 359 (clockwise) and the pointer should be very rigid and not "thicker" than the markings used to show degrees on the compass.

A few suggestions on setting up ("calibrating") such a loop: It is not likely that the pointer is exactly perpendicular to the loop plane and even if it were, null skewing will "rotate" the plane again. Also, to use a magnetic compass to line up 0° (on the loop compass) with the North Pole (True North) will not suffice. The only effective way to approach the degree of accuracy desired is to calibrate the azimuth bearings of all your local stations and numerous semi-locals (it is assumed that the correct bearings of these stations are known--See Footnote) by rotating the base compass so that when the null is placed on the known station at the known bearing, the pointer indicates the correct angle on the loop compass. Not all stations will "line

up", but by knowing bearings of numerous stations throughout the BCB, re-calibration can be made at various frequencies across the BCB.

Consider now the algorithm that can be used to calculate the distance from each DXer to the distant station. This algorithm is designed to allow only the use of the sine and cosine trigonometric functions and is derived from the fundamental identities of the general spherical triangle. (Another approach which offers some advantages but involves additional trigonometric functions can easily be derived from Napier's Analogies). Thus, let F be the far or distant station to be located, H1 denotes the location of one DXer and H2 the location of the second DXer. The great circle distance between H1 and H2 will be denoted by DX. The great circle bearing (azimuth angle) of H2 as measured at H1 will be denoted by B1 and, similarly, the great circle bearing (azimuth angle) of H1 as measured at H2 will be denoted by B2. It is assumed that B1, B2, and DX are known quantities-see Footnote). For the record, azimuth bearings are taken with the following conventions: 0° = True North, 90° = East, 180° = South, 270° = West and 360° is equivalent to 0°. Thus, azimuth angles are measured clockwise from True North.

Let D1 denote the bearing (in degrees) of F as measured at H1; D2 denotes the bearing (in degrees) of F as measured at H2; DX1 denotes the distance (to be calculated) between H1 and F and DX2 denotes the distance (to be calculated) between H2 and F.



GENERAL SPHERICAL TRIANGLES FOR BCB-RDF
CALCULATIONS WITH THE ALGORITHM

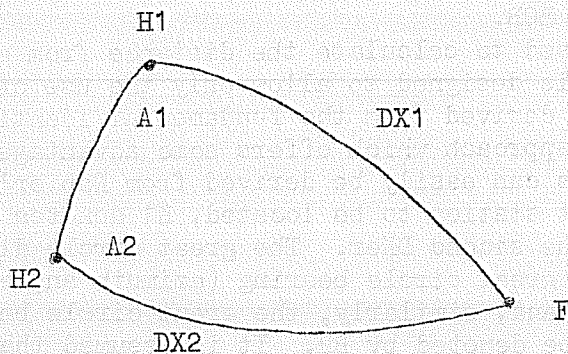
ADDENDA TO JAY MURLEY'S POLYNESIAN DX ARTICLE

The following notes/additions/corrections were submitted by phone concerning the article in last issue. 1) Page 3, 4th para. - KHLO is once again easy. 2) Page 4, 6th para. KVOO is now C&W, not telephone talk. 3) Page 5, 2nd para. KPOI times should be in GMT; were in EST; add 5 hrs. 4) Page 5, last para. 840 now has another possible NSPer, the Panamanian; see DXWW this issue. 5) Page 2, 4th para. Jay notes that the 24 possibilities would include the 1090 outlet with the assumption it will soon be on the air again with new owner/call.

Jay particularly noted that now is the time to verify the Japs you are hearing. Some of them are increasing power and will become even easier; others, however, are moving frequency and there will be both advantages and disadvantages there. A more complete list of Japs-to-be will appear as soon as possible.

This addenda appears this issue despite mention elsewhere that it would appear later. Found the space on a not-then-completed stencil.

Those interested in constructing a Beverage antenna on Route 62 before 29 Palms, Calif. along the stretch after junction of 18, please drop a card to DEE for further word.



ALGORITHM FOR DISTANCE
CALCULATION IN BCB
DIRECTION FINDING

Angles A1 and A2 of spherical triangle H1,H2,F are calculated from the pairs of bearings (B1, D1) and (B2, D2) respectively. Choose H1 so that A1 is the larger of the vertex angles at H1 and H2.

Location H1=_____ Location H2=_____

A1 = ____° A2 = ____° DX = ____ miles D = DX/69.052 = ____° G = 90 - D = ____°

E = 90 - A1 = ____° F = 90 - A2 = ____° sin(A1) = _____ sin(A2) = _____

sin(D) = _____ sin(E) = _____ sin(F) = _____ sin(G) = _____

X = (sin(A1))(sin(A2))(sin(G)) - (sin(E))(sin(F)) = _____

Y = cos⁻¹(X) = Arccos(X) = ____° T = (sin(D))/(sin(Y)) = _____

W = (T)(sin(A1)) = _____ V = (T)(sin(A2)) = _____

R = sin⁻¹(V) = Arcsin(V) = ____° P = sin⁻¹(W) = Arcsin(W) = ____°

DX1 = (69.052)(R) = _____ statute miles DX2 = (69.052)(P) = _____ statute miles

(The included FORTRAN IV program is not being included in this article because of the extremely small number of members in IRCA who would have knowledge of same; anyone interested may drop a pc for photostat of program)

For the reader wishing to "practice" a few calculations, the following table is self-explanatory:

A1	A2	DX	DX1	DX2
67	84	244.0	498.33	461.06
131	41	244.0	1112.48	1285.46
131	45	244.0	2187.11	2353.65
134	45	244.0	4635.36	4806.42
135	45	244.0	6132.75	6132.95

FOOTNOTE: There are several articles relating to the calculation of great circle bearings and distances between given points on the Earth's surface. For a companion paper and complete development of these calculations please reference: (NRC Monographs) "ON THE DERIVATION OF THOSE SPHERICAL TRIGONOMETRIC RELATIONSHIPS REQUIRED FOR THE COMPUTATION OF GREAT CIRCLE DISTANCES (GCD) AND GREAT CIRCLE BEARINGS (GCB) WITH SEVERAL ALGORITHMS WRITTEN IN FORTRAN IV FOR EXECUTION ON A DIGITAL COMPUTER" -de Fish, Ph. Dx

Complementary articles recommended for reading and study--(NRC Monographs)
HIGH PRECISION DIRECTION FINDING ON THE BCB, Parts I and II -G. P. Nelson
LOOP DISTORTION--WHY GET SKEWED? -G. P. Nelson
PATTERN CONTROLLED LOOPS, Parts I and II -G. P. Nelson

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REPRINTS Reprints of this article are available free by writing publisher. Please ask for "Radio Direction Finding" by Dave Fischer. These are available to members and non-members alike. -DEE, 6059 Essex St., Riverside, CA 92504

- 660 HJJM Colombia, Cali, R. Uno, a new one for me, heard 1025-45 10/4. Signal was strong, but unstable. Almost NSP music. Mentioned Colombia but also said "fabulosa" (perhaps describing their station), so those with poorly calibrated receivers, watch out. (AWP,W)
- ??? UnID LA 10/4 0830 with music; clear of QRM but QRNed until WNBC carrier came on; ID included two rising tones on vibraphone. (GH,M)
- 664a TGRT Guatemala, Guatemala, R. Fabulosa 9/30 0515-0600 s/off with organ music between songs; also heard 10/1 and 10/2 about same time. (RTE,M)
+In good with MoR and SS IDs 0515-30 9/27. (MM,W)
- 675 YND Nicaragua, Managua, Union Radio heard 10/1 0547-0600 s/off with almost rock type music and news. Also heard 9/30 and 10/2. (RTE,M)
- 710 XEPQ Mexico, Muzquiz, Coahuila is one of the more interesting Mexicans audible here in daytime; noted 10/2 1911 with CST TCs, ads including Almacen Muzquiz S.A. (GH,M)
- 750 HJDK Colombia, Medellin 9/25 0330 fair with WSB; ID by YL. (SEM,E)
- 755 ??? UnID in SS with KFMB-760 off. Low audio 0520 10/3. (MM,W)(I don't know at the moment what this might be, Mike. Ed)
- 765 YSKL El Salvador, San Salvador, Cadena K-L (also R. Universal) in with moderate signal 1115 10/4. New for me. (AWP,W)
- ??? UnID in SS with music; fair signal 0520 10/3. (MM,W) (YSKL? Ed)
- 770 ??? UnID in SS, fair; mentions of Panama 1020 10/4. (MM,W)(No Panamanians here, of course. Ed)
- 834 ... British Honduras, Belize 9/24 0330 good with slight QRM; ID in EE, into program. (SEM,E)
- *840 HOL80 Panama, Couldn't help noting this while looking for TPs, even with Ondas del Caribe. Sounds much like another Colombian, but Revolucion IDs are easy to firm. Should make Panama a very easy country for most on MMs. No sign of the Cuban. 0740 10/4. No Aeropuerto ID; must have switched slogans or owners; I'm sure I heard one long-winded ID with an HOL80 rather than HON32. (JM,W)
- 880 TGJ Guatemala, Guatemala, R. Nuevo Mundo 10/2 0512, loudest I've ever heard; S/off listed as 0500. AN? (JB,M) (No; NRC LA log lists 0600.)
- *915 TGKL Guatemala, Guatemala nominally 910 heard here 9/22 0959, IDs as R. Emperador and La Emperador; music, 1002 full ID break plugging 150th independence anniversary; jingle for "Cuatro de la madrugada," then program, "Risas y Sonrisas de la Emperador". (GH,M)
- 925 PJA6 Netherlands Antilles, Aruba, Radio Victoria 10/4 0038-0101 s/off. Program, "Songs in the Night". S2-S6 level. (JT,M)
- 1025 HJER Colombia, Cali in good at times in SS with many mentions of Colombia 1024 10/4. (MM,W)
- 1040 HJFV Colombia, Barranquilla, R. Tropical 9/26 0850, music, IDs, "vamos adelante con la musica para este nuevo(GH,M)
- 1060 XESED? Mexico, "La Hora Nacional" heard here 10/4 0452, soon lost to QRM. Only station listed is R. Gobernacion, sometimes appearing as inactive. VJ lists new call of XESED. (GH,M) (Mexico, D.F.)
- 1070 ??? UnID in fair with CFAX nulled; could this be the Colombian? 1026 10/4 (MM,W)(Probably. Ed)
- 1090 XEPRS Mexico, Rosarito, B.C. with US rock, song titles in EE 9/6, 0845-0915. (JHB,M)
- 1100 ??? UnID in fair 1027 10/4; could this be Colombian? (MM,W)(Could be.)
- 1140 XEMR? Mexico, Monterrey, loud SS over KSOO, WRVA, etc. with announcer talking to woman on phone 9/30 0035; then music. (JB,M)
- 1160 HJBL? Colombia, someone is now heard nightly here IDing as "Radio Cadena Nacional". Is probably HJBL with their former "Ondas del Cienaga Grande" identity dropped. (CMS,E)
- 1190 ??? Re Bruce Portzer's R. Mexicana here on the 9/4 DXWW, while in El Paso in July-August, I noted XEPZ, Juarez, running "R. Mexicana". Also Juarez is on Central time, El Paso on MDT. XEPZ runs about 1½ hours past sunset. (JB,M)

- 1330 HCLW5 Ecuador, Cuenca, heard briefly at 1103 9/30 on harmonic of 2660 kHz. Listed as 450 watts. (GH,M)
- 1420 XEF Mexico, Cd. Juarez, Chih. using "Mexicorama" ID and bird calls 9/27 1225. (FJP,W)
- 1430 HJBH Colombia, Santa Marta apparently the only AN CARACOL here; heard 9/30 1043 on harmonic of 2860, weak with mucho production; Colombian since mentions of CARACOL. At 1053 mentioned "en Bogota"; heavy atmospheric hindering. (GH,M)
- 1435 PJA5 Netherlands Antilles, Aruba very good with SS versions of US rock songs; SS announcer 2323-2342 10/4. (MD,E)
- 1440 XELZ Mexico, D.F. Radio Ele Zeta, 10/4 0544 ad for "Que pasa, Pussycat?" on canal 13; TCs, ID as "La Reina de la Musica Fancera"; "Radio Ele Zeta, la musica de peque". (GH,M)
- 1460 XEYC Mexico, Ciudad Juarez, Chih/. 9/26 0318 pop music, IDs, TCs in CST; frequent announcements: "Gracias por estarnos escuchando" 0600 ad in pesos and dolares; Consejo Nacional de la Publicidad PSA. Finally decided slogan was R. Ysela (the first name of the owner, per FBIS). But as 0555 gave different "La Voz de ..." slogan and for the first time, call letters. Being about 100 Hz low helped to separate it from the QRM. (GH,M)
- 1470 XESM Mexico, D.F. showed up on 2nd harmonic of 2940 9/22 at 1017 with announcement "Noches Tropicales en R. Fiesta". Unreadable on 1470 at this time due to QRM. (GH,M)
- 1480 XE?? Mexico, Monterrey. NL, Something strange here. 10/2 at 0628 automated station with R. Alegria jingles and same ads after every selection; TCs, finally at 0702 s/off gave call as XENV and frequency as 1340, in Monterrey. Trouble is, XETKR is listed for this frequency for there. (GH,M)(NRC LA log lists it as XENV., and XETKR on 1480. Different addresses given; mixup of tapes? Ed)
- 1480 TGIZ Guatemala, Guatemala, R. Rumbos (new slogan) 9/25 0346 slightly overmodulated but good signal on harmonic of 2960. Pop music, much production; gave CST TCs and mentioned "ciudad capital"; 0353, R, Rumbos ID and Guatemala 150th anniversary spot; 0356 ID giving 1480 kHz; 0503 more ads, anniversary PSA again, Texaco ads, 0506, phone number for requests. Much stronger than XESM-2940 at this time. Also on 9/30 1119 with typical Mexican programming. (GH,M)
- 1484x XE?? UnID spur with much hash; occasional SS audio from one or more stations. Probably a Mexican 0530 10/4. (GH,M)
- 1538 TGRF Guatemala, Guatemala, R. Faro Aviatica 10/2 0613, R. Faro ID in passing; marimba music. Nominal 1540. (GH,M)
- 1550 HJZI Colombia, Bogota dominated AN with light music MM 10/4. "Radio Fantasia". (MD,E)
- XEBG Mexico, Tijuana, B.C. switches from SS to EE rock Chuck Johnson show CO-announced s/off 1000. But on 10/6 went instead into a Radio Nacional type program, also carried by all other local Mexicans (with the exception of XEMO-860). (FJP,W)
- 1560 XEVIP Mexico, D.F. 9/22 0306 CBS news ending, ID as VIP radio, ad for Happy's Pizza at 511-9406; IGM-type MoR music. Don't tell anybody, but it was an S-unit stronger than XERF. (GH,M)
- 1600 ??? UnID poor 0845 9/25 under KLAQ and unID TTer. Loud male/female, continuous talking. (GF,W)

Trans-Pacific

- 650 KORL Hawaii, Honolulu fair 10/4 0900 with ID, "solid gold" music; such originality! (GH,M)
- 655 ... North Korea, Pyongyang's Net 2 powerhouse audible under splash but fading too severely to hunt for parallels. Same music, same announcer from last season. IDable from format. 0853 10/4 (JM,W)
- + Fair with lots of static 9/27 1148. (FJP,W)

- 700 KBYR Alaska, Anchorage heard 0920-35 8/30; not bad signal with WLW looped. WRTH lists this as Bethel which is 300 miles from Anchorage on the West Coast. Any verification one way or another on this? (AWP,W)
- 720 KUAI Hawaii, Eleele in fair mixing with WGN on s/off 0900 10/4. (MM,W)
- 725 ... North Korea, Kim-chaek barely audible under SS splash (presumed Bogota's Radio Melodia) with excitable male announcer and occasional spurts of oriental orchestra music. Fading badly, poor. (No pips heard, of course) 0905 10/4. (JM,W)(Whaddya expect, EE IDs? Ed)
- 770 JOUB Japan, Akita in JJ 9/27 1033 and 1003 10/. Getting to be a regular on MMs, with EE lessons, pips, ID 1100 9/27. (FJP,W)
- 780 JOIU Japan, Muraron? in fair with JJ and soft music 1035 9/20. (MM,W)
- 830 JOBB Japan, Osaka most powerful TP in early stages of good opening, in like a local with JJ drama of some sort. No sign of KIKI. Most other JJs blocked by Colombian pests. (JM,W)
+Good 10/6 1320 with YL and ID. (RS,W)
+Poor at 1038 9/27 in JJ; better with EE lesson, pips, etc. 1200; also in JJ 1004 10/4. (FJP,W)
- 840 JOQK Japan, Nigata in poor in JJ 1345 9/26. (MM,W)
- 844 VSZL Gilbert and Ellice Islands, Tarawa in with light-fading, chants followed by woman announcer in vernacular in talk after 0800. Rather a change of schedule from last year. 0750 10/4 (JM,W)
- 850 JOQG Japan, Morioka in poor with JJ 1345 9/26. (MM,W)
- 890 JOHK Japan, Sendai in fair to good mixing with UnID TP (South Korea?) 1345 9/26. (MM,W)
- ??? UnID TP with pips at 1300 9/27. Series of 2 pips together 3 times, then one long one. (GVJ,W) (I can't find anything resembling this on Art Peterson's Asian tape. Could what you have thought were two short pips actually have been one long one, with a fade in the middle? If so, possibly Red China--excuse me, the People's Republic of China--3 long, one long at a higher pitch. Ed)
- 950 ??? China? UFO in for a few minutes 1048 9/27 till SS overtook it. (FJP,W)
- 967 ??? UFO with KK and JJ pips on the hour 1100 9/27. What a weird station! (MM,W) (Probably the South Korean reported by Al Lehr. Ed)
- 1020 ZCO Tonga, Nuku'alofa most likely the one heard in KDKA fades 10/3 SM 0707; apparently in EE; tentative ID 0709. Aurora helped to keep KDKA down. (FJP,W)"
- 1040 ... China, Peking 9/27 1230 with CC talk. (FJP,W)
- KHVV Hawaii, Honolulu 10/6 1330-1400; ID at 1337, 1345; MoR music, very good; Peking nulled. (RS,W)
- 1120 ... China, Peking in good with KMOX nulled and KPNW off. Station in CC 1155 9/27. (MM,W)
- 1380 KPOI Hawaii Honolulu in fair to good with KRKO nulled; rock music 0930 10/4 (MM,W)
- 1350 KTOH Hawaii, Lihue with weather, faded quickly under SS 1037 10/4. (FJP,W)

Verifications

- 750 JOIB Japan, Sapporo standard R. Japan v/q with all details. Mailed to Tokyo NHK HQ. (FJP,W)
- 760 1YA New Zealand, Auckland, attractive red, white and purple QSL card received for report of 6/11 specifying time, call, freq., power and date. Mailed from NZBC HQ in Wellington. (DR,M)
- 770 JOUB Japan, Akita, same as JOIB and JOBB cards; cover form letter says my tape of all three will returned by sea mail. Country #22 verified. (FJP,W)
- 830 JOBB Japan, Osaka same as above. (FJP,W)
- 870 LRA Argentina, Buenos Aires. After my disappointing SW card for my 3/1 report, I sent a f/u with prepared card. In 12 days my card returned by registered mail! Fast enough to make your head swim. That must be some kind of record for a foreign QSL. V/s Victor Roberto Diaz. (AWP,W)

870 LRA (cont) +Inspecific letter and program schedule received 10/8 for report sent 9/27. Country #21 verified. (FJP,W)
 HCN2 Ecuador, Guayaquil. No reply to first report, so f/u with prepared card and success. V/q was Carlos Armando Romero Rodas, Director. You would never guess from his scrawl. Looked like JJ characters. (AWP,W)

Reporters (Letters behind their initials stand for East,Midwest,West)

JB Jim Boyd, Tulsa, Okla. TRF
 JHB Jan Brown, Colorado Springs, Colo.
 MD Marc Delorenza, Hyannis, Mass. HQ-180, Space Magnet, 450' lw
 RTE Rich Eddie, St. Louis, Mo. Navy RBM CCT 46076, 3' altazimuth loop
 GF Graham Fleck, Victoria, B.C. Electrohome
 GH Glenn Hauser, Von Ormy, Texas, HQ-160, SM-2, LW
 GVT Gary Jackson, Sacramento, Calif.
 SM Steve Martin, Upper Marlboro, Md. Hallicrafters S-85, 85' LW
 MM Mike McCullough, San Jose, Calif. ARB, IRCA loop, LW
 JM Jay Murley, Newport Beach, Calif. ARB, NC=125 standby
 FJP Your editor, HQ-180A, 3' altazimuth
 AWP Art Peterson, San Pablo, Calif. HQ-180A, SM
 DR Dave Rogers, Buffalo, Okla.
 RS Ralph Sanserino, Huntington Beach, Calif. ARB
 CMS C.M.Stanbury II, Crystal Beach, Ont.
 JT John Tull, Kansas City, Mo. NC-57; 35" ferrite core

Welcome to all the new reporters; always glad to hear from you. Keep up the reports.

South Africa According to information received from TransWorld Radio by MWDXC, TWR has abandoned its plan to build a relay station in Swaziland and will instead build it in the Republic of South Africa. Initial power will be 50 kw; eventually they will be 250 kw, more than twice the power planned for the Swaziland station. Reasons for the move allegedly involve financial matters; electricity, for example, costs 2/7 the amount in South Africa that it does in Swaziland. TWR also claims that ground conductivity at the new site has been found to be much more suited for the antennas. Construction is already underway, with the 50kw temporary transmitter being prepared for shipment from New York. The station will be operational sometime in 1972. (Midwest DX Club, via C.M. Stanbury II).

Okinawa This is your chance to log and verify another country. VOA will run a test for NRC on Sunday, October 31, from 0830-0930 GMT. They will also test on November 14, also a Sunday morning. The million watt station has been widely heard on the West Coast; if geomagnetic conditions are good, it might make it even further inland.

South Korea A new commercial station has opened on 1220 kHz; HLAA. Schedule as monitored in Tokyo is 1955-1603. Another new station is HLAQ, 1350 kHz, with one kilowatt of power, s/on 1900 GMT. (SCDX)

Pirates Radio Caroline and sister station Channel 70 are located in Dublin. They broadcast after midnight British Standard Time on frequencies ranging from 1320 and 1350 kHz. Postal address: 8 Bristol Gate, Kempston, Brighton, England. Two IRCs requested.

Radio Free Carliore has been heard on 1315 kHz on Saturday and Sunday from 1030-1130 and 1500-1700. Address: Box 400, Scottish Free Radio Movement, 17 Eskgrove Drive, Bilston, Midlothian, Scotland. (SCDX)

Ramadan The Muslim's month of fasting begins this year on October 21 and ends on November 19. During this time, many Middle East stations are on extended skeds; many MW stations are on all night. A good time to try for some TAs.

International Waters Two of Radio Veronica's owners were sentenced to a year in jail for the attack made on Radio Northsea International. The three frogmen they hired received lighter sentences. This is reportedly the first prosecution in the Netherlands under their Piracy Act. A Dutch newspaper has reported that a merger between the two competing stations is expected shortly. Expected program director of the new station is to be Jan van Veen, former jock on both Veronica and RNI; he also happens to be the son-in-law of the Veronica Director, Dirk Verwey. RNI has a new 10 kw MW transmitter which is being installed on board Mebo II at the present time. (C.M. Stanbury II and SCDX)

WWV Format --Art Peterson

The new format of WWV is really great. Through it this morning I was made aware of a major solar flare that occurred early on 10/3. An interesting 14-page booklet about the facilities and services available will be sent free from: Frequency-Time Broadcast Services Section, National Bureau of Standards, Boulder, Colo. 80302. I also received a leaflet from the International Ursigram and World Days Service which gives information on the propagation reports on WWV. It also defines many of the terms used. One piece of information I was not able to get is how all the various indices affect BCB propagation, such as solar flux, proton events and flares (as opposed to solar flares), and polar cap absorption. One thing that would be interesting would be to find which index corresponds to aurora conditions, DU openings, WC TA and EC TP openings, so that one could predict ahead of time what sort of DX conditions he could expect. Perhaps Gordon Nelson has some ideas on this. Anyway it is a big improvement over the mailed reports. (Gordon had a lengthy article last year in DX News in which some of these topics were discussed. Write to NRC to get a copy of the reprints they have available. To answer some of your questions, a period of low A_{pp} values is needed to get good transpolar reception, such as WC TAs. In general, a geomagnetic index of about 15 indicates auroral conditions. The higher the index, the stronger the auroral conditions. WWV broadcasts geomagnetic conditions at 18 minutes after the hour; WWVH at 45 minutes after the hour. The geomagnetic index is usually the second index given.

Jay Murley's article last issue is well worth reading carefully, for an excellent rundown on times and frequencies of DU receptions. My only question is--how did he stay sober long enough to write it? Don't forget the big get-together here in San Diego the Saturday after Thanksgiving. Jim Critchett will demonstrate his fantastic ability to pick up rarely heard domestics; you should see his logs! Grant Manning will reveal his secret life as an undercover agent for Ma Bell; that's why DEE is afraid to be seen in San Diego. Speaking of Grant; I'm sorry to see him have to give up WCDXR because of his new job; he's done a real excellent job with it in the brief time that he had it. Let's hope the new editor does as good a job. I just re-mounted my altazimuth loop to get rid of the wobbles; it will get its first real test tonight. Last, but not least, don't forget to enter the big Foreign Contest. This contest is not easy, with its policy of verifications, but it is not hard to do well in. A couple of years ago, in the similar one run by Don Reynolds for both clubs, I logged and verified 5 Zedders on two successive nights; those entries alone were enough to give me 5th place, I believe, despite the fact I didn't join until about March. I'll give you all fair warning--I've already got four stations verified for this contest, and this season I plan to send out quite a few reports. 73/FJP.

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JAPANESE CHANGES Nov. 1, 1971, is the date for a major change in the Japanese medium wave picture. Quite a number of frequency changes and power increases will be effective that date. These are published in the Summer Supplement 1971 to the WRTH and were recently published in NRC. VERIFY THE JAPANESE STATIONS NOW; included in frequency changes are: JOQG to 970; JOKG, JOFG, JOIQ to 930; JOTK to 1300; JOOK to 620; JOTQ to 1000; JOLG to 1320; JOHP to 1380; JOZU to 850; JOLF to 1240; JOWF to 1440; JOUF to 1310; JOLB to 980; JOGB to 870. And many power increases. See Jay Murley's article on Trans-Pacific (Asiatic) DXing from last fall for more info on this aspect of DXing. Another article from Jay Murley will appear soon. -DEE