



VHF-UHF DIGEST is the OFFICIAL MONTHLY PUBLICATION OF THE;

WORLDWIDE TV-FM DX ASSN  
P. O. BOX 5001  
MILWAUKEE, WIS. 53204  
(PHONE 414,645-1587).

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PUBLISHED THE END OF EACH MONTH.  
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PLEASE SEND CHANGES OF ADDRESS IN PLENTY OF TIME/SENDING IT TOO LATE USUALLY CAUSES LOSS OF THE VUD IN THE MAIL; (IF SENT FIRST CLASS IT IS FORWARDED, IF THIRD CLASS IT IS DESTROYED). IN SUFFICIENT TIME RESULTING IN DESTRUCTION, LOSS OR RETURN TO HQ OF YOUR VUD WILL NECESSITATE THE PAYING OF THE PRICE FOR A BACK-ISSUE BECAUSE OF THE HIGH REMAILING FEES. "SUFFICIENT TIME" IS QUITE VARIABLE DEPENDING ON THE LENGTH OF TIME YOUR VUD IS IN TRANSIT AND WHETHER YOU SEND NOTICE IN TIME FOR THE REGULAR MAILING OR NOT. IF THERE IS ANY POSSIBILITY YOUR VUD MAY BE DESTROYED WE RECOMMEND THAT YOU SEND HQ 20¢ TO MAIL THAT ISSUE FIRST CLASS. IT WILL SAVE TIME AND CAUSE LESS OF A NUISANCE, AND WILL COST LESS THAN BUYING ANOTHER COPY.

BACK-ISSUES CURRENTLY IN STOCK:  
Aug. 69 Nov. 69 TO DATE

PHOTOCOPY SERVICE AVAILABLE OF ALL WTFDA ISSUES AND SOME AIPA BULLETINS OR WHAT HAVE YOU:  
15¢ EACH FIRST 5 PAGES, 12¢ EACH ADDITIONAL PAGE.

AS ALL EDITORS HAVE NOW BEEN INFORMED, EFFECTIVE WITH THE NEXT ISSUE OF THE VUD THE STENCILS MUST ALL BE IN THE PUBLISHERS HANDS ON OR BY THE 20TH OF THE MONTH OR THEY WILL BE HELD OVER UNTIL THE NEXT ISSUE. THEREFORE THE EDITORS DEADLINES HAVE BEEN SET EARLIER AS YOU MAY HAVE ALREADY NOTICED. IF YOU GET YOUR REPORT TO YOUR EDITOR ON TIME AND HE GETS HIS COLUMN HERE ON TIME THERE WILL BE NO PROBLEMS. IF HIS COLUMN IS MISSING WE RECOMMEND THAT YOU TELL HIM OF YOUR DISPLEASURE SO HE WON'T DO IT AGAIN. A WORD FROM YOU CARRIES MUCH MORE WEIGHT THAN A WORD FROM HQ STAFF.

WITH THE CHRISTMAS MAIL RUSH COMING, WE STRONGLY RECOMMEND THAT ANY MEMBER WHO HAS EXPERIENCED TROUBLE IN THE PAST WOULD BE WISE TO SEND HQ 20¢ EXTRA TO MAIL THAT ONE ISSUE BY FIRST CLASS, OR CHANGE THE ENTIRE BULK OF YOUR MEMBERSHIP TO FIRST CLASS, UNLESS YOU HAVE MORE THAN A YEAR TO GO. YOUR MEMBERSHIP EXPIRATION IS INDICATED ON YOUR MAILING LABEL: MONTH/YEAR. PLEASE SEND 20¢ PER MONTH FOR THE TIME REMAINING; WE DON'T EXPECT POSTAL SERVICE TO IMPROVE FOR YEARS TO COME SO WE'LL HAVE TO JUST KEEP MUMBLING AS USUAL.

THE LEAN FINANCIAL MONTHS ARE AHEAD AS BUSINESS ALWAYS DECREASES IN THE OFF-DX SEASON, ESPECIALLY AROUND THE HOLIDAY PERIOD WHEN SOME PEOPLE WOULD RATHER BUY PRESENTS FOR THE FAMILY THAN JOIN OR RENEW THEIR MEMBERSHIP IN THE WTFDA. 1970 WAS NOT A VERY GOOD YEAR FOR WTFDA IN MORE WAYS THAN ONE. WE HAD BEEN GROWING BY LEAPS AND BOUNDS EVER SINCE THE CLUB WAS FOUNDED BUT THE LEVELLING OFF HAS FINALLY OCCURRED. WE KNEW IT HAD TO HAPPEN SOONER OR LATER BECAUSE THERE WERE ONLY SO MANY TV-FM DXERS AVAILABLE TO JOIN. FINDING AND CREATING NEW MEMBERS IS A SLOW PROCESS. THE ANARC SURVEY SHOWED THAT ONLY 21% OF THOSE WHO ANSWERED DX FM AND 20% TV. SINCE THERE ARE MANY WHO DO BOTH, WE MAY ESTIMATE THAT NO MORE THAN 15% OF ALL DXERS ARE INTERESTED IN OUR SPECIALTIES SO THAT WE COULD NEVER HAVE 500 OR 1000 MEMBERS AS SOME CLUBS DO. WE FIGURED 200 AS OUR PROBABLE LIMIT BUT WE CAN'T SEEM TO REACH 175. IN THE LONG RUN WE WILL PROBABLY REACH 200 BUT IT WILL BE MUCH SLOWER GETTING THERE THAN IT HAS BEEN GETTING TO 165. OUR ONE BIG FINANCIAL BLOW OF THE YEAR WAS THE PURCHASING OF THE MIMEOGRAPH MACHINE WHICH HAD TO BE DONE. WE HAVE HAD DONATIONS OF MONEY TALLING NEARLY \$60 OF THE \$156 COST OF THE TRADE-IN AND THIS WAS A WELCOME RESPONSE. MANY NEW MEMBERS HAVE BEEN BROUGHT INTO THE CLUB THIS YEAR THROUGH THE EFFORTS OF PRESENT MEMBERS BUT WE ALSO HAVE LOST MANY MEMBERS WHICH IS QUITE NORMAL IN ANY DX CLUB. THEREFORE WE URGE THE MEMBERS TO FERRET OUT POTENTIAL MEMBERS FROM WHEREVER AND WHENEVER POSSIBLE, ACQUAINTANCES AND RELATIVES, WATCH THE LETTERS TO THE EDITOR COLUMNS IN NEWSPAPERS AND MAGAZINES AND WRITE THE COLUMNS AS WELL AS ANY PERSON WHO WRITES TO THE PUBLICATION ABOUT DXING. MORRIE GOLDMAN AND A COUPLE OF MEMBERS WHO WORK IN PLACES WHERE THEY COME IN CONTACT WITH DXERS (TV/FM STATIONS, ELECTRONICS STORES) SEND NAMES TO HQ OF PEOPLE WHO MAY BE INTERESTED IN DXING. EVEN A VISIT TO A STATION MAY PRODUCE A PILE OF LETTERS THE STATION HAS RECEIVED FROM DXERS. MAYBE YOU CAN THINK OF STILL OTHER WAYS TO HELP THE UNINFORMED DXER & WTFDA.

# FCC - FM

Charles A. Dobbins  
12851 Longacre  
Detroit, Michigan 48227

## NEW STATIONS.

### FINAL ACTIONS.

Des Plaines, Ill. 106.7 , 50 kw. , Maine Township FM Inc. , AAT 215 ft.  
Lima, O. 104.9 , 3 kw. , Riggs-Bussard Bdcstg Corp. , AAT 220 ft.  
Phenix City, Ala. 100.1 , 3 kw. , Chattahoochee Bdcstg Inc. , AAT 300 ft.  
Pittsfield, Mass. 101.7 , 3 kw. , Greylock Bdcstg Co. , AAT 120 ft.  
Porterfield, Ca. 99.7 , 15.5 kw. , Gateway Bdcsters Inc. , AAT 690 ft.  
Pulaski, Tn. 98.3 , 3 kw. , SEG Enterprises Inc. , AAT 300 ft.  
Sallisaw, Ok. 95.9 , 3 kw. , Big Basin Bdcsters Inc.  
San Marcos, Tx. 103.7 , 91 kw. , Advance Inc. , AAT 600 ft.  
Scobey, Mt. 95.7 , 60.334 kw. , Prairie Communications Inc. , AAT 660 ft.  
\*Sioux Falls, SD. 90.1 , TFO 10 w. , Sioux Falls College  
Sonora, Ca. 92.7 , 3 kw. , Herold Bdcstg Co. , AAT 64 ft.

### INITIAL APPLICATIONS

Benton, Ill. Rend Lake Bdcstg Co. seeks 98.3 mhz with 855 w. and an AAT of 150 ft.  
Medford, Mass. Tufts University seeks 91.5 mhz with TPO 10 w. and an AAT of 220 ft.  
Mobile, Ala. Trio Bdcsters Inc. seeks 92.9 mhz with 50 kw and an AAT of 469 ft.

### CALL LETTER APPLICATIONS

Freeport, Ill. , Freeport Broadcasting Co. , req WAFE(FM)  
Indianapolis, Ind. , Metropolitan School District req \*WEDM(FM)  
Lima, O. , Riggs-Bussard Broadcasting Corp. , req WLSR(FM)  
McAllen, Tx. , Rio Grande Family Radio Fellowship req KVMV-FM  
Middlesboro, Ky. , Cumberland Gap Broadcasting Co. req WMIK-FM  
Morrow, O. , Little Miami High School req \*WLMH(FM)  
Mt Pleasant, Ia. , Pleasant Broadcasting Co. req KILJ(FM)  
Phenix City, Ala. , Chattahoochee Broadcasting Co. req WXLE(FM)  
Port Huron, Mi. , St. Clair County Community College req \*WSCR-FM  
Rapid City, SD. , Rushmore Broadcasting Inc. req KFFM(FM)  
San Clemente, Ca. , El Camino Broadcasting Corp. req KAPX(FM)

### CALL LETTER ACTIONS

Lee Enterprises Inc. , Billings, Mt. , gtd KBMS(FM)  
Russell Shaffer , Boulder, Colo. , gtd KBVL(FM)  
Lewis County Broadcasting Co. , Canton, Mo. , gtd KCTM(FM)  
Falmouth Broadcasting Inc. , Falmouth, Mass. , gtd WUCV(FM)  
Gillespie Broadcasting Co. , Fredericksburg, Tx. , gtd KNAF-FM  
Hampton County Broadcasters Inc. , Hampton, SC. , gtd WJBW-FM  
Mark L. Woodlinger , Henderson, Nv. , gtd KILA(FM)  
Manistee Broadcasting Corp. , Manistee, Mi. , gtd WMTE-FM  
Hudson Broadcasting Corp. , Middleton, Wis. , gtd WMAD-FM  
Oxford Hills Radio Communications Inc. , Norway, Nev. , gtd WNWY-FM  
KFIL(FM) Inc. , Preston, Minn. , gtd KFIL-FM  
WQIZ Inc. , St. George, SC. , gtd WPAR-FM  
Tishomingo County School District , Tishomingo, Miss. , gtd \*WTMO(FM)  
Radio Fiesta Inc. , Tucson, Az. , gtd KXEW-FM  
Cedar Valley Broadcasting Co. , Waverly, Ia. , gtd KWAY-FM

### AUTHORIZED STARTS

KXYZ-FM Hoiston, Tx. , 96.5 , 14.6 kw. , AAT 460 ft.  
WMTE-FM Manistee, Mi. 97.7 , 3 kw. , AAT 155 ft.  
KCRE-FM Springfield-Eugene, Ore. , 93.1 , 1.1 kw. , AAT 90 ft.

### EXISTING FM STATIONS

### CALL LETTER APPLICATIONS

WAQB-FM , WRTX Inc. , Atlantic Beach, Fla. , req WJNJ-FM  
WTOW-FM , Robert W. Sudbrink , Baltimore, Md. req WLIF(FM)  
WZIP-FM Margaret S. Sudbrink , Cincinnati, O. , req WWSH(FM)  
WEPN-FM , East Penn Broadcasting Co. , Elizabethtown, Pa. , req WPDC-FM  
WNMP(FM) , Cummings Communications Corp. , Evanston, Ill. , req WLTD(FM)  
WARD-FM , Central Broadcasting Inc. , Johnstown, Pa. , req WJST-FM  
KCBH(FM) , Able Communications of California , Los Angeles, Ca. , req KJOI(FM)  
WQDC(FM) , Habco Inc. , Midland, Mi. , req WSVL(FM)

WTOS(FM) , Margareta S. Sudbrink , Wauwatosa, Wis. req WLYF(FM)

CALL LETTER ACTIONS

- ~~KBKN(FM) Broken Arrow, OK. gtd KTBA(FM)~~
- WIXX-FM Ft. Lauderdale, Fla. gtd WAXY(FM)
- KGEC(FM) Palm Springs, Ca. gtd KDES-FM

CHANGES TO ALREADY EXISTING STATIONS

- KQWB-FM Moorhead, Minn. gtd CP for new xmtr and ant. ant. hgt. 410 ft. ; ERP 100 kw.
- WAKW(FM) Cincinnati, O. gtd CP for new xmtr and ant. ant. hgt. 360 ft.; ERP 10 kw.
- WLOW-FM Aiken, SC. gtd CP for new ant. and xmtr , ERP 3 kw. , ant hgt. 200 ft.
- \*WPLN(FM) Nashville, Tn. gtd CP to chge location, xmtr and ant. ERP 100 kw. , ant hgt. 295 ft
- \*KALA(FM) Davenport, Ia. gtd CP for new xmtr and ant. , ant hgt 102 ft.
- WORC(FM) Barnstable, Mass. gtd lic. covering new FM.
- WHVW-FM Hyde Park, NY. gtd lic covering new FM.
- WSVA-FM Harrisonburg, VA. gtd CP to install new xmtr and ant. ERP 7.2 kw. ; ant hgt 340ft.
- KMWT(FM) Mineral Wells, Tx. gtd new lic covering FM
- KMWX-FM Yakima, Wn. gtd new FM license.
- KLCN-FM Blytheville, Ark. gtd CP to install xmtr and ant. ; ERP 50 kw. horiz. and 20 kw. vert. ; ant hgt. 350 ft.
- WERK-FM Pittsfield, Mass. gtd lic covering new FM
- WDNH(FM) Dover, NH gtd license covering new FM
- WQIX(FM) Horseheads, NY gtd license covering new FM
- WEIV(FM) Ithaca, NY gtd CP to install xmtr and chge ant system; ERP 12 kw , ant hgt 890 ft.
- KSLM-FM Salem, Ore, gtd license covering new FM
- WJCW-FM Johnson City, Tn. gtd CP for new xmtr and ant. ; ERP to 100 kw. , ant hgt 1500 ft.
- WRFK-FM Richmond, Va. gtd CP to make chges; ERP to 50 kw.
- \*KUCR(FM) Riverside, Ca. gtd CP to add vert polarization ant.
- KNJO(FM) Thousand Oaks, Ca. gtd CP to install new xmtr and ant.; ERP to 3 kw. , ant hgt to -20 ft.
- KNLT(FM) Truckee, Ca. gtd CP to chge xmtr loc, also ERP to 1.7 kw. , ant hgt to 390 ft.
- WDOV-FM Dover, Del. gtd CP for new xmtr and ant; ERP 50 kw. , ant to hgt of 360 ft.
- WMJR(FM) Ft. Lauderdale, Fla. gtd CP to install xmtr and ant hgt; ERP 100 kw. , ant. hgt. to 193 ft.
- WSRF-FM Ft. Lauderdale, Fla. gtd CP to install xmtr and ant.; ERP 100 kw. , ant hgt 130ft.
- WHIC-FM Hardinsburg, Ky. gtd license for new FM.
- WHFB-FM Benton Harbor-St. Joseph, Mi. gtd CP for new xmtr and ant.; ERP 9.2 kw and ant. hgt. 225 ft.
- WTIB(FM) Iuka, Miss. gtd CP to chge xmtr loc., xmtr and ant.; ant. hgt. 225 ft.
- KCNA(FM) Henderson, Nev. chge ant. hgt. to -140 ft. ; ERP 41 kw.
- KRMG-FM Tulsa, Ok. gtd mod. of CP to chge ERP to 62 kw.
- WMLP-FM Milton, Pa. gtd license covering new FM
- WPBS(FM) Philadelphia, Pa. gtd CP to install new aux. xmtr on 98.9 mhz. ; ERP 29 kw. ant. hgt. to 120 ft.
- KTCN-FM Belton, Tx. gtd license covering new FM.
- KIVY-FM Crockett, Tx. gtd license covering new FM.
- KHER(FM) Longview, Tx. CP for new xmtr and ant.; ant. hgt. 225 ft. ; ERP 100 kw.

\*\*\*\*\*  
From Dick Clark of Ft. Lauderdale, Fla. - WMCU-FM 89.7 stereo which is a gospel station on the air every day from 5 PM to 10 PM. Station is in Miami with ant. in Homestead and their power is 3 kw.

New FM stations that just went on the air recently are:

XHRM	99.3	Radio Modera	5 kw.	Tijuana, Mexico
XHOK	100.1	Stereo Rey	100 kw.	Tijuana, Mexico
XHBG	100.5	Stereo Rey	?	Mexicali, Mexico

This information from Ronald Schatz , 510 N.E. 158th st. , N. Miami, Fla. via D. Clark Also, from Dennis P. Smith (of Western DX Editorship Fame) comes word that the Univ. of Cal. at Santa Barbara's FM station KCSB on 91.5 has moved its 10-watt xmtr from abt 150 ft. elev. to more than 4000 ft. They are also using a new ant. with an ERP of abt 180 w.

From ASWLC member Stewart MacKensie comes a newspaper article abt KOCM Newport Beach on 103.1 having its ant. torn down by an upended dump container of a dump truck which snagged on one of the stations ant. guy wires, dumping 318-ft of ant. in a heap.

Roger H. Brown  
624 Evergreen  
E. Lansing, MI  
48908

November 1970

Next deadline: November 15

TV-DX, AS NOTED BY ENTHUSIASTS FROM WI, IL, IN, MI OH, PA AND EASTERN CANADA

We can almost wrap the summer-fall tropo season up and bury it! Colder weather has reached this tier of states and provinces with only a brief and occasional break for Indian Summer. The consensus of opinion of reporters to this column seems to be that except for a few good tropo openings and fairly decent Es days, the season has been on the drab side. What do YOU think? Let me know.

Some of the very best tropo happened in September. As noted last month, the night of 9/16 and morning of 9/17 provided a good opening from Wisconsin to Eastern NY and Pennsylvania. After just a brief breather, very good tropo bounced back in the evening of the 18th, through the morning of the 19th. The second major opening began with good reception in the West end of the area towards the West and SW. Towards the end of the opening, conditions were good for into the South from Michigan, at least. Best catches: on the 16th and 17th, WCAU-10, Philly came through for Wisconsin's Bruce Metzner...at a whopping 770 miles! Pro Bill Draeb's best included new WVIA-44 Scranton at 630 miles and new WBJA-34, WINR-40 and WSKG-46 all Binghamton at 600 miles!

On the 18th and 19th, Bill saw many good ones, including KTVH-12, Hutchinson, Kn. at 701 miles. In Westland, Mi., 17-year-old Harold Cooper caught WSJS-12 and WCTI-12 (ex-WNPE-12), both North Carolina.

Until 10-16, this column was going to be just about all tropo then...bang! A strong Es opening hit here on the evening of the 16th! I missed about 2/3 of the time the band was cooking, but noted reception to the NE US and into the Maritimes. You never can tell! More later. First.....

Bill Draeb, Ellis St. R.R. #2, Kewaunee, Wi. 54216 CDST

9-11 Tr 0600 WISH-8 Indianapolis, WJW-8 Cleveland, WBNS-10 Columbus.	WFMJ-21 Youngstown. 1812 WDAU-22, WNEP-16, WBRE-23 Scranton, Wilkes-Barre (630 miles!) 1834 WQLN-54 Erie. 1854 WJAN-17 Canton, KDUB-40 Dubuque, all Peoria Us. 1914 WGTE- 30, Toledo. 1945 WTTV-33 Youngstown. 2048 all Detroit Us. 2130 WENY-36 Elmira (575 mi.) 2140 WVIA-44 Scranton (630 mi.) 2157 WBJA-34, WINR-40, WSKG-46 Binghamton (600 mi.)
9-16 Tr 0545 WISH-8, WJW-8, WTHI-10 Terre Haute, WBNS-10, WHAS-11 Louisville, WICU-12 Erie, WKRC-12 Cincinnati.	9-18 Tr 2007 WIMA-25, 2018 WXIX-19, 2035 WMUL-33 Huntington, (498).
1610 WAKR-23 Akron, WVIZ-25, WKBF-61, WUAB-43 all Cleveland. 1620 WQEX-16, WPGH-53 Pittsburg. 1640 WJET-24, WSEE-35 Erie, WDHO-24 Toledo. 1707 WWVU-24 Morgantown, W. Va. (513 mi.) 1715 WKBN-27, Youngstown. 1727 WCNY-24 Syracuse, N.Y. (575 mi.)	

Draeb, cont.

- 9-19 Tr 0600 WHIO-7 Dayton, sno-free WHW-8, WISH-8, WCPO-9 WBNS-10, WHAS-11, WIIC-11, WICU-12, WKRC-12, WLWI-13, WLEX-18, WLWT-5. 0630 KTVH-12 Hutchinson, Kn, almost sno-free at 701 miles!! KTTS-10 Springfield, Mo. (598 mi.) 0638 KPLR-11 St. Louis 0647 tent. KTUL-8 Tulsa! 0650 KRCG-13 tent. 0730 WAND-17, WJJY-14, WICS-20. 0805 KMTC-27 Springfield (589), KMEG-14 Sioux City. 0810 WFYI-20 Indianapolis (336) 1045 WXIX-19 1057 WLKY-32. 2155 WAKR-23 2202 all Detroit Us.
- 9-20 Tr 0510 WKBW-7 Buffalo 0523 WJW-8 0630 WISH-8, CHCH-11 0805 KDUB-40 WJET-24, WAKR-23. 0810 WJAN-17 0812 WDHO-24, WKBN-27, WUAB-43, WKBD-50. 0817 WSEE-35, 0829 WFMJ-21, WYTV-33. 0832 WKBF-61
- 9-21 Tr 0600 CFTO-9, CHCH-11, WICU-12.
- 9-22 0515 CFTO-9, CHCH-11.
- 9-25 0545 WCPO-9, WBNS-10, WTHI-10, WICU-12, WKRC-12.
- 9-26 0502 WCPO-9, WBNS-10.
- 9-27 to 10-8 one or more of the following seen in early a. . WISH-8, WJW-8, WTHI-10, WBNS-10. Much weaker due to colder, more unstable wx.

Quite sure the IHTP seen on 19th was KTUL-8. Log total now 440. Observations: WBRE-28 now 4 megawatts. WQEX-16, WNDU-16 appear to be same offset. (I disagree...still think they're 10kc apart RHB) WVIA-44 and WSNS-44 appear to be offset 10 or 20 KC. (anxious to see if Es stretched to Wi. on 10-16 Bill. Thanks for comments on column. You'll note addition of details. RHB)

Bruce Metzner, 136 Gas Lite Sq. #6, Madison, Wi. 53713 CDST

- 9-16 Tr 2100 WGTE-30 Toledo (315)  
2101 WAKR-23 Akron (430)  
2110 WUAB-43 Lorain, Oh (390)  
2115 WKBF-61 Cleveland (405)  
2225 WIMA-35 Lima (315)  
2330 WDHO-24 Toledo
- 9-17 Tr 0100 WIIC-11 Pittsburg (520)  
tent. WDAU-22 Scranton, 700 mi!  
0120 WCAU-;0 Philadelphia (770!!  
seen at exactly the same time here!)  
0130 CKCO-13 Kitchener 0145 WXYZ-7  
Detroit (340) 0150 WJW-8 0155 WKBW-  
7 Buffalo (530) 0200 WJBK-2 Detroit  
(340)
- 9-18 Tr 1930 WCAE-50 St. John, In. (near  
Gary, Bruce. RHB) 1932 KDNL-30 St.  
Louis.  
2000 WTIU-30 Bloomington (310) 2003  
WBLG-62 Lexington (435) 2030 WLKY-32  
Louisville (400) 2330 KRCG-13  
Jefferson City, Ia (350)
- 9-18 Tr 2355 KPLR-11 St. Louis (320)
- 9-19 Tr 0000 KCIT-50 K City (380)  
0005 KSL-5 St. Louis 0125 KCMO-5  
KC 0130 KMBC-9 KC, 0140 KTVI-2  
0145 KMOX-4 both St. Louis.  
0200 KYTV-3 Springfield, Mo. (470)  
0600 Springfield, St. Louis, Indy  
WCPO-9 Cincinnati (380)  
0610 WHIO-7 Dayton (360) 0625 KGLO-  
3 Mason City, Ia.  
0655 WBNS-10 Columbus (405)  
1200-1215 Toledo, Cleveland, Akron  
2200 Ft. Wayne, Bloomington Us
- 9-21 Tr 0030 St. Louis Vs.

Conditions so good on 9-16, 17, a friend and I watched an entire movie on WUAB-43 at 390 miles with only occasional fading. (don't forget to DX Bruce, hi RHB) Some Wisc. profs are attempting to block renewal of WISC-3 due to alleged lack of PS programming. Would leave me without Vs for 60 miles! (would also leave a lot of hard working people out of a lot of money Bruce. Don't forget that. Thanks for comments on column. RHB) Total now at 149!

Gary Olson, 1203 Kenton Rd., Deerfield, Il. 60015 CDST

9-4 Tr 0730 Wane-15, WKJG-33, WPTA-21 Ft Wayne  
0750 WXOW-19 LaCrosse, Wi

9-5 Tr 0815 WIMA-35, WDHO-24 plus mysterious un-id 48, 54, 58.

9-9 Tr 0729 WJMN-3 Escanaba 0750 WXOW-19  
0815 tent. WWUP-10 before wiped out by WMVS-10.

9-16 Tr 2005 WVIZ-25 Cleveland 2015 WGTE-30 Toledo, Detroit Us. 2030 tents. WFMJ-21, WPGH-53, WQLN-54, WSEE-35. 2115 Un-id 45 ETV. WSKG-46??

9-16 Tr 2132 WDHO-24, WAKR-23  
2159 WKBF-61 Cleveland  
2229 WCMU-14 Mt. Pleasant 2230 WUCM-19 Bay City, Mi.  
2040 KROC-10 Rochester, Mn.  
2050 WUAB-43 Lorain, Oh.

9-18 Tr evening KPLR-11 St. Louis

9-19 Tr 0823 WFYI-20 Indianapolis  
0830 WKYT-27 Lexington plus Toledo, Detroit, Lima Us.

Finally got some tropo, though I probably missed the best of it. UHF tropo the "spooky" type...in for a few seconds, then gone. At least I know that tropo will make it Deerfield....a much more optimistic outlook than before! Total for Chicago area now 277.

Roger W. Windsor, 718 N. Fremont Rd., Valparaiso, Ind. 46383 CDST

9-16 Tr 1820 WPAD-6 Paducah, Ky.  
1830 WVUT-22 Vincennes, In  
(56.2KW Rog, per yr question RHB)  
1840 WSIU-8 Carbondale, Il  
1845 WUSI-16 Olney, Il

9-18 Tr 1900 WNIN-9 Evansville (over WGN-9)  
1915 KRCG-13 Jefferson City, Il.  
1930 WSIL-3 Harrisonburg, Il (most wanted Il. station.  
2000 WXIX-19 Cincinnati

(Think these are all new for Rog. Anyway, your report is MOST welcome here Rog. How did you find time to DX TV when FM was so hot??? Hope you report again soon. RHB)

Harold Cooper, 29800 Ann Arbor Trail, Westland, Mi. 48185 EST

8-11 Tr 0500 WDTV-5 Weston, W. Va

8-12 Tr 0630 WTAP-15 Parkersburg, W. Va.

8-15 Tr 0640 WHEC-10 Rochester, NY  
0655 WOKR-13 Rochester, NY

8-20 Tr 0745 KCRG-9 Cedar Rapids, Ia.

8-23 Tr 1100 WJMY-20 Allen Park, Mi (test)

9-24 Es 0800 WPTV-5 Palm Beach, Fl.  
0830 WEDU-3 Tampa, Fl.

8-27 Tr 1930 WQAD-8 Moline, Il, WGEM-10 Quincy, Il  
2000 WJJY-14 Jacksonville, Il., WICD-15  
2220 KFVS-12 Cape Girardeau, Mo.  
2253 KTTS-10 Springfield, Mo.  
2255 KDNL-30 St. Louis  
2325 KOMU-8 Columbia, Mo.

8-28 Tr 1315 KDUB-40 Dubuque, Ia.  
1318 KIIN-12 Iowa City, Ia.  
2100 WPBN-7 Traverse City, Mi.

8-29 Tr 0455 WBNF-12 Binghamton, NY  
0540 WSJS-12 Winston Salem, NC  
0550 WJHL-11 Johnson City, Tn  
0640 WDAU-22 0655 WISC-3 Madison  
0800 WBRE-28 Scranton

9-1 Es 0600 KNME-5 Albuquerque, NM  
2Es 0600 KTLA-5 Los Angeles, Ca!!!

9-16 Tr WICD-15, WCIU-26, WFLD-32, WSNS-44, WAND-17, WCEE-23, WTVO-17, WEEK-25, WMBD-31, WICS-20, WLFI-18, KIIN-12, KDUB-40, WPGH-53, WDAU-22, WNEP-16, WBRE-28, WVTV-18, KFIZ-34  
2355 WHAG-25 Hagerstown, Md.

Cooper, cont.

9-17 Tr 0030 <u>WPHL-17, Philadelphia</u>	9-19 Tr 1000 <u>WLEX-18 Lexington, KY</u>
0038 <u>WKBS-48 "</u>	1030 <u>WKYT-27 "</u>
0110 <u>WCAU-10 "</u>	1100 <u>WAVE-3 Louisville, Ky.</u>
0135 <u>WOR-9 New York City</u>	1150 <u>WKPT-19 Kingsport, Tn.</u>
0200 <u>WJZ-13 Baltimore, Md.</u>	1200 <u>WSJS-12 Winston-Salem</u>
0515 <u>WHEN-5 Syracuse, NY</u>	9-20 Tr 0600 <u>WCTI-12 New Bern, N.C.</u>
0518 <u>WSBA-43 York, Pa.</u>	9-24 Tr 0510 <u>WBAL-11 Baltimore, Md.</u>
0530 <u>WGAL-8 Lancaster, Pa.</u>	9-29 Tr 0545 <u>WMVS-10 Milwaukee, Wi.</u>

Wow! Quite a pair of months for Hal. His log now stands at about 225, in just 18 months of DXing. He uses an LPV-190 on VHF, 2-Bay Zig-A-Logs on UHF, a GE portable and an "old" Magnavox. He's 17, and if he keeps it up, is going to make me very jealous! By the way, Hal had tentative (he didn't put it in the log) reception of KHFI-42, Austin, Tx. on 8/19. They were so interested in DXing, Hal was called on-the-air during a talk show! (RHB)

Charles A. Dobbins, 12851 Longacre, Detroit, Mi. 48227 EST

8-23 Tr 0515 <u>WBBM-2 Chicago, Ill</u>	9-20 Tr 0554 <u>WIIC-11 Pittsburg</u>
0527 <u>WLW-D Dayton, Oh</u>	0608 <u>CHCH-11 Hamilton, Ont.</u>
0622 <u>WITI-6 Milwaukee, Wi</u>	0623 <u>WAKR-23 Akron, Oh.</u>
8-30 Tr 0505 <u>WFBM-6 Indianapolis, In</u>	0630 <u>WUAB-43 Lorain, Oh.</u>
0527 <u>WLND-2</u>	0640 <u>WKBN-27 Youngstown, Oh.</u>
9-7 Tr 0540 <u>WTAE-4 Pittsburg, Pa.</u>	0648 <u>WTRF-7 Wheeling, W. Va.</u>
9-8 Tr 0455 <u>WFBM-6 Indianapolis</u>	9-21 Tr 0505 <u>WBBM-2 Chicago</u>
0517 <u>WTVN-6 Columbus, Oh</u>	0507 <u>WGR-2 Buffalo</u> 0550 <u>WNDU-16 So</u>
	<u>Bend</u>

Using 25" RCA Color set, 13 el. VHF ant., corner reflector on UHF. Total now 37 seen and working for many more!

Robert Zoller, 8125 Donna, Westland, Mi. 48185

9-6 Tr 1300 <u>WKTR-16 Kettering, Oh (190)</u>	9-17 Tr 0005 <u>WSYE-18 Elmira (325)</u>
9-16 Tr 0645 <u>WICS-20 Springfield, Ill (360)</u>	0555 <u>WDAU-22 Scranton, Pa. (400)</u>
1630 <u>WTFW-11 Chicago, Ill (230)</u>	0625 <u>WJAC-6 Johnstown, Pa. (275)</u>
1700 <u>KIIN-12 Iowa City, Ia. (410)</u>	0630 <u>WFBG-10 Altoona, Pa. (460)</u>
1830 <u>KDUB-40 Dubuque (350)</u>	0645 <u>WTAF-29 Philadelphia, Pa. (460)</u>
2030 <u>WFYI-20 Indianapolis (230)</u>	0658 <u>WNBP-16 0700 WBRE-28</u>
2100 <u>WQEX-16 Pittsburg (230)</u>	0900 <u>WFYI-20</u>
2230 <u>WERE-28 Wilkes-Barre (390)</u>	9-19 Tr 1000 <u>WBLG-62 Lexington, Ky. (300)</u>
2238 <u>WNBP-16 Scranton, Pa. (400)</u>	1030 <u>WLKY-32 Louisville (310)</u>
2353 <u>WINR-40 Binghamton, NY (370)</u>	1230 <u>WKPT-19 Kingsport, Tn (400)</u>
2400 <u>WENY-36 Elmira, NY (325)</u>	9-20 Tr 0115 <u>WDAU-22 Scranton</u>
<u>WBJA-34 Binghamton, NY (370)</u>	1300 <u>WPGH-53 Pittsburg</u>

Cooper and Zoller are definitely going to make Westland famous. Bob's totals now 126 received. He DXes with an RCA portable, 10 el HB yagi, 6 el LB yagi and corner reflector. Nice going!! (RHB)



John Robertson, 6065 Gardner Line, Croswell, Mi. 48422 EST

8-16 Tr 0012 WNDU-16 So Bend, In. (210)	8-31 Tr 0758 WLFI-18 Lafayette, In. (280)
8-19 Es 1458 WBRZ-2 Baton Rouge, La. (950)	9-16 Tr 1657 WJAC-6 Johnstown, Pa.
WEAR-3 Pensacola, Fla. (900)	1758 WSTV-9 Stuebenville, Oh (210)
8-22 Tr 1307 WJAC-6 Johnstown, Pa. (270)	1858 WTAE-4 Pittsburg, Pa. (280)
8-29 Tr 0215 WGN-9 Chicago, Il. (270)	2258 WBRE-28 Wilkes-Barre (370)

John sends along a list of DX received since joining the club, reflecting last year's winter Es, the summer skip season and occasional tropo openings. Croswell is located in Michigan's far Eastern portion, and of course John's report is very much welcome. Sorry I can't put down your whole report John but would like to note fine reception of CJCN-4, Grand Falls, Nfld., on 12-21-69. Distance: 1600 miles! (RHB)

John Parillo, 400 So. Market St., Girard, Oh. 44420 EDST

9-13 Tr 0925 WKPT-19 Kingsport, Tn	9-17 Tr 0217 WITI-6 Milwaukee, Wi
1029 WCHS-8 Charleston, W. Va.	0229 WLUK-11 Green Bay, Wi
9-16 Tr 2200 WFLD-22 Chicago, Il	0234 WMAQ-5 Chicago
2232 WNDU-16 So Bend, In	0237 WISN-12 Milwaukee
2237 WSNS-44 Chicago	0239 WKZO-3 Kalamazoo
2259 WANE-15 Ft Wayne, In	9-20 Tr 0658 WNDU-16 0855 WTAP-15
2308 WIMA-35 Lima, Oh.	
2323 WTAP-15 Parkersburg, W. Va.	

J. Joel Rosenberg, 47 Pannahill Rd., Downsview, Ont. 475 EDST

9-5 Tr 0030 WNEM-5 Bay City, Mi.	9-17 Tr 0137 WJIM-6, WNEM-5, WKZO-3
WUAB-43 Lorain, Oh	0815 WJAC-6 Johnstown, plus Erie,
0923 WTVS-56 Detroit, Mi.	Youngstown, Scranton.
WJIM-6 Lansing, Mi.	9-20 Tr 0150 WKBD-50, WUAB-43, WKNX-25,
WAKR-23 Akron, Oh.	WSYE-18
9-7 Tr 0930 WKBF-61 Cleveland, WDHO-24	1030 Erie, Youngstown, Canton,
WBRE-28, WDAU-22, WENY-36,	Cleveland, Pittsburg Us, plus
WBJA-34, WINR-40, WKBD-50	several un-ids.
WPGH-53 Pittsburg, Pa.	1720 Scranton Us.
9-12 Tr 1200 WWNV-7 Watertown, NY and	9-23 Tr 1900 WNEM-5, WKNX-25, Cleveland,
at 1443 new local CICA-19 Toronto	Elmira, Scranton Us.
Toronto!	10-6 Tr Detroit Us, WCNY-24 Syracuse excell-
9-13 Tr 0230 WIIC-11 Pittsburg	ent at 2020
9-16 Tr 1215 un-id 18 and 36, tent.	2300 CKSW-11 Kingston, Ont.
Milwaukee.	10-7 Tr 0800 WIMA-35 Lima, Oh.
1650 WQEX-16 Pittsburg,	
WPGH-53, WPSX-3 Clearfield, Pa.	
WFBG-10 Altoona	
1900 WQED-13 Pittsburg	
2115 Scranton, Elmira Us	

I wrote CICA and they said I was the first to receive their transmissions. (leave it to a sharp DXer to see Canada's first UHF station! RHB) First test was 9-11.

Dave Egan, 12a Andrew, Valleyfield, Quebec EDST

8-15 MS 0522 WCBS-2 NYC  
 Tr 0617 WSYR-3 Syracuse, NY  
 MS 0724 Terre Haute, In.  
 Tr 0738 WNBF-12 Binghamton, NY  
 9-20 Tr 2200 WWNY-7 Watertown, NY  
 2310 WNYS-9 Syracuse, NY

9-21 Tr 0600 tent. WTIC-3 Hartford (230)  
 0628 WGR-2 Buffalo 0630 WKTV-2 Utica  
 MS 0626 WLWD Dayton (and on for 5  
 minutes!)

Many thanks for this report from another young DXer, new to the column. PLEASE accept my apologies for not including July DX Dave but I'm on my sixth typed page now and I have a wife, little one and a job to take care of! One of the few rules I'll maintain herein is that DX over a month or two old won't be included. Dave had some dandy catches this summer...including Detroit via tropo on 7-2 (WJBK-2, CKLW-9) and WLUK-11 Green Bay on 7-3 at 690 miles!!! (RHB)

Roger Carriere, 196 Joseph, Buckingham, Quebec EDST

9-17 Tr 1030 WAKR-23 Akron (435)  
 1145 WPGH-53 Pittsburg (425)  
 1150 WQEX-16 Pittsburg  
 9-20 Tr 2000 WVIA-44 Scranton, Pa. (290)  
 2100 WETA-26 Washington, DC (470)

9-21 Tr 0130 WCAU-10 Philadelphia, Pa. (390)  
 0149 WABC-7 NYC, WOR-9 NYC (340)  
 0900 WTEN-10 Albany (210)  
 9-22 Tr 1000 WENH-11 Durham, NH (280)  
 9-23 Tr 0205 WBEN-4 Buffalo 0230 WHDH-5  
 Boston (310)  
 9-25 Tr 2030 WVER-20 St. Johnsbury, Vt. (185)

Jim Hayes, 9 Henry St, Wilkes Barre, Pa. 18702 EDST

9-8 Tr 1433 WNEW-5 NYC  
 9-13 Tr 0935 WJAC-6 Johnstown, Pa. (170)  
 1000 WDBJ-7 Roanoke, W. Va.  
 9-16 Tr 2130 KDKA-2 Pittsburg (180)  
 2200 WJAC-6 2300 WTAE-4

9-16 Tr 2300 WQED-13 Pittsburg  
 2320 WPSX-3 Clearfield, Pa.  
 2400 WFBG-10, tent. WSTV-9  
 9-26 Tr 0730 WHEN-5, WFIL-6

Got more than I expected this month! Total now 46 stations received.

Roger Brown, 624 Evergreen, E. Lansing, Mi. 48823 EST

10-16 Es 2100 WLBZ-2 Bangor CHSJ-4 St Johns, NB plus un-id canadian 3, probably Halifax.

Es probably in from at least 2000. Very intense opening, don't know if other stations in. Probably reached FM. Tropo had dropped off here since 9-20. I missed the opening of 9-20, 9-21, was out of town. By the way, Es died here on 10-16 at 2145.

That wasn't such a bad month, was it?! Here's hoping the late season Es mean good things for this winter!

Thanks everybody for the comments on the column. So far, the call is for more detail. Hope this month's entries reflect that. I'm afraid I will have to edit (they DO call me an editor) quite a bit during the summer, but not as much as I have in the past. I promise!

73s, BEST DX Rog.

# WESTERN TV-DX

November 1970

Dennis Park Smith  
Music Department  
University of California  
Santa Barbara, California 93106  
Deadlines: 12th of each month

Es-wise, there were more reports of the late Aug/early Sept openings, fair to good, and a fair one in mid-month. Es reports, Sept: 1, 4, 17. One MS report, 10 Sept. The spotlight was stolen for Sept by tropo DX in the upper Midwest on 18-19 September. It was long-range logging, as reported here from middle Oklahoma, Kansas and Iowa; western Oklahoma and Texas locations apparently were not affected. There were other scattered tropo loggings, including another good Oklahoma session on 2 October.

Pat Dyer, 327 Solar Drive, San Antonio, Texas 78227 (8 Sept - 8 Oct) (Times CST)  
Receiver: 1968 RCA color GJ721W. Antenna: Wards 11-el hi-low VHF, 15' up, fix-aimed SE.  
06 Tr 2330 XET - 6 Monterrey NL Mex. Mi: 290 7 Tr 2200 XHX -10 Monterrey NL (tent.) 290  
XEFB- 3 Monterrey NL (tent.) 290

Not much of anything here lately. Mexico only trop over 200-250-mile range. 50-MHz Es was noted on Sept 19 into Illinois, and on Oct 2 into Arizona; however, nothing was noted on TV during these brief evening openings. Low Sept Es prevented any links with TE or F2 that might have been going on down south of us.

I hope I have more loggings than this for the next VUD issue. 73. WA5IYX/5.

<u>Robert Grace, PO Box 309, Franklin, Texas 77856</u>		(Jul, Aug, Sept)	(CDT)
11	Es 0900 KOAI 2 Flagstaff AZ (Today)	(17) Es (1300)	KORK- 3 Las Vegas NV (Jeopardy)
5	Es 1530 KNXT 2 Los Angeles (NFL Hilites)		KVOA- 4 Tucson AZ #140 (Days)
	1600 KTVN 2 Reno NV #138 (ABC Golf)		KPHO- 5 Phoenix AZ #141 (movie)
7	Es 2200 KUTV 2 Salt Lake UT (1st Tues.)	1330	KNBC 4 Los Angeles CA
	2230 KWGN 2 Denver CO (News)		KTLA 5 Los Angeles #142 (talk)
11	Tr 0030 XET - 6 Monterrey NL (News)	1500	XHT - 2 Ciudad Obregon (sign-on)
	XHX -10 Monterrey NL (Mod Squad)	18	Es 1730 XHBC- 3 Mexicali BC #143 (id)
	0045 WDSU- 6 New Orleans LA (lcl talk)	2200	KBOI- 2 Boise ID #144 (Gleason)
	WAFB- 9 Baton Rouge LA (movie)	2230	KORK- 3 Las Vegas NV (Adam 12)
13	Es 1230 WFMY- 2 Greensboro NC (World Turns)	2400	KNXT 2 Los Angeles CA (Mannix)
15	Es 2200 KOAI 2 Flagstaff AZ (Music Hall)	28	Es 1320 KNXT 2 Los Angeles CA (Search)
	KORK- 3 Las Vegas NV (Virginian)	29	Tr 0930 WBRZ- 2 Baton Rouge LA (Concen.)
	KHBV 5 Henderson NV (movie)	Es	2230 KORK- 3 Las Vegas NV (Virginian)
16	Es 1500 WUSN- 2 Charleston SC (Shadows)	2300	KNXT 2 Los Angeles (Medical Contr)
	1530 WSB - 2 Atlanta GA (Perry Mason)	A4	Es 1300 WBBM- 2 Chicago (Love/Splnd Thing)
	XHTV 4 Mexico City (test pattern)	5	Es 0930 WGR - 2 Buffalo NY (Concentrat.)
	1700 WUND- 2 Columbia NC (test patt.)	S1	Es 2200 KOAI - 2 Flagstaff (First Tues.)
17	Es 0800 WBBM- 2 Chicago IL (Capt Kangaroo)	2030	WMT - 2 Cedar Rapids IA (Gov&JJ)
	1300 KOAI 2 Flagstaff AZ (Days Lives)		

My log total is now 145.

I've given #137 to the ch-4 XEW station in Tampico, Tams, Mexico that Glenn Hauser gave me credit for in the Sept VUD. I had previously listed it as an unID. July was a good month, but August and September were pretty light. Best of DX.

Bob Cooper, Jr., 6221 Norman Road, Oklahoma City, Oklahoma 73122 (9 Sept- 8 Oct) (CDT)

My last month at this location; will be out of service for a month or more getting re-located in OKC closer to new CADCO facility. UHF and tropo in general, in spurts, was quite interesting for reporting period. Breaking 800- and then 900-mile UHF barrier the same night had to be the highlight of the period. DX all tropo.

Sept 9 1920 first signs of tropo, KDNL-30 MO (458mi) weakly; 2032 WJY-14 IL (501mi); 2200 WHNT-19 WHIQ 25 WAAY-31 AL (623), WAAY so strong at 2230 they overloaded converter, also WFIQ 36 AL (510), WMSL-48 AL (605), KCIT-50 MO, WAND-17 WICS 20 IL, WEEK-25 IL, KTHV 11 KATV 7 AR.

Sept 18 1820 at tune-in, tropo on UHF, WJY-14 WEEK-25 IL, KCSO-19 KDNL-30 KCIT-50 MO, KHNE-29 NE, KDUB-40 IA (605), KBMA-41 Kansas City MO (new on air, testing with color bars & call-slide id at 1/2-hr breaks); 1845 KVFD-21 IA, WICS 20 WCEE-23 WTVO 17 WMBD-31 WICD 15 IL, WHA-21 WI, all in 550-650mi range; 1945 WSJV 28 Elkhart IN (760), WSBT-22 IN, KYNE-26 NE, WFLD-32 WSNS-44 WCIU-26 Chicago; 2045 WAND-17 IL, WNDU-16 IN, WLBC-49 Muncie IN (736); 2130 MDHO-24 Toledo OH (864); 0000 WXOW-19 WI (650), KTEL-11

SD (559) (about time I checked VHF!), KETV 7 NE, WEAU-13 WI (695), and my big one—WKBD-50 Detroit MI (908mi); 0100 KOMU-8 MO.

Sept 19 0720 WMBD-31 WEEK-25 KCIT-50; 0845 KDUB-40 WCEE-23 WTVO 17.  
UHF not nearly as good as last night.

Sept 27 0830 KBMA-41 & KCIT-50 MO; 1000 K18AA Salina KS and other, high end, translators to north in 300-mi range.

Oct 2 0810 first signs of UHF tropo to NE along cool-front line; 0830 WICD 15 WLF1-18 and many weaker carriers; 0900 WICS 20 KDNL-30 WAND-17, WDHO-24 (864); 0915 after nearly 18 months, first positive ID on Ft Wayne's UHF trio, WKJG-33 WPTA 21 Ft Wayne IN (773), plus WTVS 56 Detroit MI (908); 0930 WANE-15 Ft Wayne (776) thru WICD 15 IL, KMEG 14 IA (488), K18AA KS, KXNE-19 KHNE-29 NE, and WGTE-30 Toledo OH (864) thru powerful KDNL MO; 1000 WDHO-24 peaked so strong they overloaded converter and were all over the dial—what a signal for 864 mi!, also KCIT-50 WEEK-25 KYNE-26 WMBD-31; 1015 KCSO-19, with all signals fading fast by 1030.

I will be concentrating almost exclusively on UHF after I am re-settled, convinced now that 150 UHF stations is within reach even from Oklahoma (where I have a grand total of 17 stations within 400 miles of me!). 15 new UHF this time brings total to 116 U's in 17 states. The twin 7-ft UHF dishes I had up earlier this year proved to be a good system but difficult to keep mounted in our wind storms. A single 12-ft dish is to be built this winter, and at 80 ft above ground, it ought to give a fair accounting of itself next spring. 73 until next time.

Glen R. Neal, 1005 N. 5th, Sayre, Oklahoma 73662 (Aug & Sept) (CDT)

The Aug-Sept period has some exciting moments. Unfortunately, typical summertime activities did not permit me to take full advantage of them. Period provided excellent daily reception to 400 mi, but, darn it, I saw no stations via tropo beyond 400 miles during these two months. All I can do is sit and stare at my records of the Apr 26 - May 8 period, and hope! However, Es was good for a while, so no complaints.

- Al Tr 0615 KDFW-4 Dallas TX 3543R (1) (Es) KORK-3 NV + unid 4,5,6 in & out.
- MS 2202 KWGN-2 Denver CO 3404N 12 Es 0957 no IDs. Good to east.
- 2 MS 0554 WBBM-2 Chicago IL 3404R MS 0818 through ch 13! Lasted 1 minute.
- 3 Es 0603-1301. WESH-2 WJXT 4 WUFT 5 13 Tr 0630 unids chs 70, 72, 76, 78. Xltrs.
- WDBO-6 FL, WTVY-4 AL, unid SS on 2 Es t/in 1025: XEW-2 KDKA-2 WTAE-2 & 3. Very gd opening. WMAR-2 WEDU 3.
- 4 Es 1206 t/in 1630+. WMAR-2 MD, WRC-4 14 Es 1100 lasted 5 minutes, no ids.
- WTTG 4 DC, KDKA-2 WTAE-4 (5543N) PA, 16 Tr 2200 chs 70, 72, 74, 76, 78 good.
- WLW-D 4 OH, WSAZ-3 WDTV 5 (4453N) WV, 20 Tr 0600 chs 70-80 good.
- WPSX-3 PA. Exc. session. 17 Es 2127 unid SS good ch 2, lasted 45 min
- 7 Tr 0600 KTBS-3, KSLA-12 LA (2343R395). 18 Tr 0530-1000 very good tropo to 400 mi;
- 9 Tr peak day, extremely good to 400 mi. many to 200 miles snow-free.
- 11 Es 1532 unid-2 very offset—translatorEs?!

Although there have been no super-openings of any kind here in Sayre, there has been a lot of good to excellent tropo mornings, with locals to 200 mi being snow-free at times. I have no copy of TV Factbook and until I get one I have no way of IDing all of the translator DX that is coming in. My 7-ft dish is a whole 5 feet off the ground, fix-aimed WSW. I've received about 10 translators so far, and that end of the dial gets quite exciting at times. Adequate DX to all.

Leslie J. Prus, 1615 Pierre, Manhattan, Kansas 66502 (September 1-30) (CDT)

- 18 Tr 1830 WHBF-4 Rock Island IL 2232 370 (19) (Tr) (0530) WFBN-6 Indianapolis IN 4444 550
- 2215 KMOS-6 Sedalia MO 3343 180 WHAS-11 Louisville KY 3345 580
- 19 Tr 0030 KTVI 2 St Louis MO 4455 340 WHIO-7 Dayton OH 3344 650
- 0115 KMOX-4 St Louis MO 5555 340 0600 KFVS-12 Cape Girardeau 3343 400
- 0140 WISH-8 Indianapolis IN 4555 550 0605 WMT-2 Cedar Rapids IA 4453 350
- 0150 KMTC 27 Springfield MO 4555 220 WTWO 2 Terre Haute IN 4433 480
- WHIO-7 Dayton OH 4455 650 KRNT-8 Des Moines IA 4454 280
- 0205 KYTV 3 Springfield MO 4455 220 WCIA 3 Champaign IL 4454 440
- 0215 WGN-9 Chicago IL 4455 500 0630 KPLR-11 St Louis MO 5554 340
- KETV 7 Omaha NE 3454 140 KHQA-7 Hannibal MO 3343 280
- WBBM-2 Chicago IL 3443 500 0640 WGEM-10 Quincy IL 4344 280

(19)(Tr) 0230	WQAD- 8 Moline IL	3443 500	(19)(Tr)(0640) WOC - 6 Davenport IA	3333 350
	WOW - 6 Omaha NE	3454 140	KTVO 3 Kirksville MO	3343 230
0445	WMAQ- 5 Chicago IL	3253 500	0645 WJJY-14 JacksonvilleFL	2245 335
	WCPO- 9 Cincinnati OH	5555 640	WICD 15 Champaign IL	2245 230
0500	WTTV 4 Bloomington IN	5555 550	0700 KTSB 27 Topeka KS	5555 50
0515	WAVE 3 Louisville KY	3455 580	KCIT-50 Kansas City MO	4455 100
0530	WLW-D 2 Dayton OH	3455 650	30 GW 2200 K70EN 70 Manhattan KS	5555 0
	WLW-I 13 Indianapolis IN	5554 550	Tr 2230 KBMA-41 Kansas City MO	2355 100

Total: 126 stations, 27 states + DC. September was a lousy month except for the outstanding tropo on Sept 18-19 which boosted my totals by 20%! I now have UHF capability with a 4-bay bowtie/screen reflector atop my 2-bay conical VHF on rotor. I got it for only \$2 in excellent condition from a thrift shop. Best of DX.

Bill Heusmann, 1527 24th Street, Des Moines, Iowa 50311 (Sept - 3 Oct) (CDT?)

Am back in delightful Des Moines for my final year at Drake. This year I have what seems to be a good DX location, if any place located 1.6 miles from two locals can be considered good! In a second-story apartment on relatively high ground. Antennas, once up on roof, will be well in the clear. All DX so far has been on assorted temporary set-ups, primarily my 10-element lo-band yagi up in the attic, usually aimed east. Also 8-bowtie UHF ant in attic and occasionally used 6 elements of my 10-el hi-band yagi, hand-held in living room. Receiver is my old RCA CTC-12, laboriously hauled out! DX so far has been excellent:

S5	Tr 0004	KOLN-10 NE always weaker of 2	19	Tr 0003	WIBW-13 TopekaKS s/off news	3553
		KGIN-11 Grand Island NE	4555		0004 local WOI-5 almost wiped out before sign-off	
10	MS 0525	WMAR- 2 Baltimore MD			0005 WDAF- 4 KansasCity MO s/off	4553
	0530	WLW-D 2 Dayton OH			0009 KCMO- 5 KCity MO local ad	5454
	0600	unID- 5 Start of CBS News			KOLN-10 Lincoln NE	5555
14	Tr 1100	WDIO-10 MN o/KROC, 360mi	3053		KGIN-11 NE for once weaker!	3232
18	Tr 1058	WICD 15 IL local ad	3555		0013 KTIV 4 w/RETMA CCI deKMOX?	5053
	1059	WICS 20 Springfield IL id			0021 KLOE-10 KAYSaddress, id, 44.5mi	3455
		WAND-17 Decatur IL id	3545		0025 KMBC- 9 Kansas City MO	4555
	1713	KCSD-19 KansasCityMO w/RETMA	4555		0027 KELO-11 Sioux Falls SD	5554
	1724	KTSB 27 Topeka KS wk.color	4555		0030 WLKY-32 KY s/off, 44Omi	3455
	1759	KDUB-40 Dubuque IA	3554		KETV 7 Omaha NE	5555
	1801	WCEE-23 IL local weather	2554		0031 KOMU 8 ColumbiaMO loc.ad	3354
	1803	WSBT-22 S.Bend IN loc.ad	3554		0052 KCKT 2 KS Floater on WMT	
	1804	WTVO 17 Rockford IL news	3555		0132 WBBM- 2 Chicago s/off nx	1453
	1818	WSNS 44 IL Allied/RShackAd	3554		0611 WTWO 2 tp floater on WMT, 365mi	
	1826	WNDU-16 South Bend IN PPA	4444		0612 KTVH 12 KS w/wedge tp	3355
	1900	KBMA-41 MO audioID, clrbars	5555		0613 WIRL-19 IL id slide, wk.clr	3055
	1901	KCIT-50 KCity MO auto ad	3554		0614 WMBD-31 IL id slide	3355
	1902	KYNE-26 Omaha NE SesameSt	4555		0616 unID-18 'Real McCoys'	2455
	1930	KXNE-19 NorfolkNE CCIw/KCSD	3053		0623 WCIA 3 IL w/ color tp	3353
		KDNL-30 StLouis MO lcl.ad	5555		0645 WGEM-10 IL color-tp & mx	4454
	2234	WFLD-32 Chicago movie intro	4555		0654 KPLR-11 MO mod.IHTP	3353
		WCIU-26 " soul music show	3455		0655 WUCS 20 SpringfieldIL w/id	4555
	2359	WJJ-14 Jacksonvil.IL s/off	4554		02 Tr 0815 WTTW 11 Chicago id & s/on	3253

Des Moines totals now 101 & 5 countries. Would like to build a yagi cut to channels B1/F2 for F2 DX but am prevented by overabundance of no money brought on by lack of job. Have vague hope of something at nearby KBAB-1490....sometime, but meanwhile living on savings (OUCH). 73 & best DX

Dennis Smith — Around Santa Barbara, the coastal tropo disappeared during the warm weather and southern California brush fires in late September, then came back as they subsided and coastal fog and inversion returned. A few days after that, the tropo went down but came back up again, which is how it is as of about 10 October.

Please excuse lack of usual comments following reports; time and space are somewhat short. Anyway, your letters are more exciting than my added remarks.

Best of DX to all

Dennis

Yes, there's more! Seems we rushed a bit and didn't consider the possible effects of Columbus Day on mail. The reports below were delayed beyond the usual delivery time.

Much more tropo DX is reported on various dates, especially the wild 18-19 Sept. session, seen in Nebraska and North Dakota. As if Bob Cooper's record-breaking 800- and 900-mile UHF DX was not enough, Fred McCormack has broken the 1000- and 1100-mile barriers. Yes—1000-mile UHF TV DX is now a reality, as of 19 September 1970. Not across the Gulf of Mexico, where it should occur some day, but North Dakota to Kentucky.

Dave Pomeroy, 8720 W. 80th, Overland Park, Kansas 66204 (13 Sept - 8 Oct) (CDT)

Past few weeks have been hectic, but I did get to dials on occasion and saw one good tropo opening. Feels kind of strange to send off a report after typing my own for the past few months. The following are my local stns now: KQTV 2 St Joseph MO

- WDAF-4 Kansas City MO      KTWU 11 Topeka KS      KTSB 27 Topeka KS
- KCMO-5 Kansas City MO      WIBW-13 Topeka KS      KBMA-41 Kansas City MO
- KMBC-9 Kansas City MO      KCSD-19 Kansas City MO      KCIT-50 Kansas City MO

This provides variety in programming, but each new station makes DXing more difficult.

- |  |  |
|--|--|
| <u>13</u> Tr 1800 KMEG 14 Sioux City IA 5551 | (13) (Tr) 2222 K78BX 78 Marceline MO (KMBC9) |
| WSBT-22 South Bend IN 3331                   | 2245 WLEX-18 Lexington KY 1215N              |
| 1805 KDNL-30 St Louis MO 4545N               | 2247 WBLG 62 Lexington KY 1005N              |
| unID- 9 strong CCI o/KMBC-9                  | 2310 WLKY-32 Louisville KY 2313N             |
| 1815 WEEK-25 Peoria IL 4524                  | <u>14</u> Tr 2440 KTIV 4 Sioux City IA 3331  |
| WMBD-31 Peoria IL 3314                       | 0645 unID-70 southeast IHTP                  |
| KUHI-16 Joplin MO 3441                       | 0700 WICD 15 Champaign IL                    |
| WJJY-14 Jacksonville IL 3310N                | 0730 WDHO-24 Toledo OH 1214                  |
| 1820 WNDU-16 South Bend IN 3311              | 1800 KELO-11 Sioux Falls SD 3412             |
| 1830 WSJV 28 Elkhart IN 3314                 | 2030 K80CP 80 Beatrice NE N                  |
| 75 JunctCityKS(KAKELO) N115                  | 2100 KEYC-12 Mankato MN                      |
| unID-80 west                                 | 2150 unID-80 Twins Baseball Network          |
| 1930 KHNE-29 Hastings NE 5535                | 2210 WTCN-11 Minneapolis MN 5553             |
| 1950 WSNS-44 Chicago IL 3325                 | In & out all day: KMEG 14 WJJY-14            |
| WFLD-32 Chicago IL 2212                      | WEEK-25 WMBD-31 KHNE-29 KUHI-15              |
| 1955 K70EN 70 ManhattanKS(KAKELO) N100       | KMTC 27 KHQA- 7 KVFD-21 WSNS-44.             |
| 2000 KXNE-19 Norfolk NE 2222                 | <u>28</u> GW KBMA-41 KansasCityMO new local  |
| 2125 WCIU-26 Chicago IL 2215                 | <u>29</u> Tr 0650 KMEG 14 Sioux City IA 3355 |
| 2130 WTVO 17 Rockford IL 1104                | 0651 KVFD-21 Ft Dodge IA 2342                |
| 2200 KVFD-21 Ft Dodge IA 2423                | 0655 KXNE-19 Norfolk NE 2235                 |
| 2210 KDUB-40 Dubuque IA 3315N                | KHNE-29 Hastings NE 2345                     |
| 2215 K74CQ 74 Marceline(WDAF4) 1005          | 0659 KGTO-36 FayettevilleAR 1015N            |
| 2217 WAND-17 Decatur IL 1314                 | 2300 WJJY-14 JacksonvilleIL 1215             |
| 2218 KFVS-12 CapeGirardeauMO 4441            | 2330 WMBD-31 Peoria IL 1215                  |
| 2221 WMT - 2 CedarRapids IA 4440             |  |

Marv Garber, 2539 Kessler Blvd, Lincoln, Nebraska 68502 (17 Aug - 7 Oct) (CDT)

Equipment: Zenith 22" B&W 16J22, Channel-Master 3610G Log Mi

- |  |  |
|--|--|
| <u>17</u> Tr 0000 KOMU- 8 Columbia MO R255 | <u>20</u> Tr 0025 WHBF- 4 Rock Island IL N340  |
| 0002 WGEM-10 Quincy IL N295                | 0030 WQAD- 8 Moline IL R340                    |
| 0025 KTVI 2 St Louis MO R365               | <u>19</u> Tr 0000 WMT - 2 Sedar Rapids IA R280 |
| 0035 KMOX- 4 St Louis R365                 | 0005 KTVI 2 St Louis MO R365                   |
| 0038 KSD - 5 St Louis N365                 | 0010 KMOX- 4 St Louis R365                     |
| 0042 KPLR-11 St Louis R365                 | 0015 KSD - 5 St Louis R365                     |
| <u>19</u> Tr 0005 KWVL- 7 Waterloo IA N265 | 0025 KPLR-11 St Louis R365                     |
| 0015 KDIN-11 Des Moines IA N175            | 0034 WILX-10 Jackson MI N 630!                 |
| 0016 KIIN-12 Iowa City IA R285             | 0125 KYTV 3 Springfield MO R315                |
| 0028 WQAD- 8 Moline IL R340                | 0130 KPLO- 6 Reliance SD R215                  |
| 0031 WOC - 6 Davenport IA R335             | KDLO- 3 Florence SD R300                       |
| Es 1730 WUND- 2 Columbia NC R1140          | 0138 WEAU-13 Eau Claire WI R390                |
| 1800 WUNC- 4 Chapel Hill NC R955           | 0145 WISH- 8 Indianapolis IN N5400             |

DX here has been sporadic—only one really good tropo opening since the middle of Aug and virtually no Es unless, of course, I missed the openings. WILX-10 is a



# DX MAILBAG ①

A warm welcome to the mailbag once again as those chilly fall winds begin to blow us into the month of November.

Word from the VUD "publishers mouse" tells us that the generous spirits of Glen Neal, Herb Campbell, Al Kopec, and Ron Le Blanc have brightened up the outlook for the mimeo fund. Thanks gents -- your contributions along with the others received have helped bring about the immense improvement in bulletin quality you have no doubt noticed the past few months.

We do have a few new additions to the WTFDA membership this month. Among them:

John Ray, 495 N. Samuel Dr., Zanesville, O. 43701  
Richard Duncan, 506 E. Second St., Dell, Ark. 72426  
Bob E. Dister, 27101 Rose Rd., West Lake, O. 44145  
C. Kevin O'Donnell, 2540 Pine Bluff Dr., Dallas, Tex. 75228  
Richard Davidson, 18 Pine Fork Dr., Toms River, NJ 08753

Now to the musings of the members for November ----

Joe Kureth, a TV + FM DXer since 1964, reports he is out of his apartment and now in a house (salvation!), so he can really DX to his heart's content. Joe has recently taken a managerial position with WEEB radio. He points out that his initial experience with a rotor (after years of turning by hand - hi) makes an "unbelievable" difference in his DX results. Judging by his comments I think we can expect regular reports from this easterner.

Another chap who joins us due to our advertising in World Radio TV Handbook is Richard Duncan. Although he's only been at the dials for a couple of years his avid interest has brought him some good catches. Seen recently at his Arkansas home were CKRN TV ch. 3, Rouyn, Que and good ol' KTWO-2 in Casper, Wyoming. Richard is also quite active in shortwave - he's editor of an SW column for the Batesville (Ark.) Shortwave Association.

John Ray shoots in his \$4.50 to HQ - hoping his investment will pay off with a reward of 12 exciting, fun-packed issues of VHF-UHF Digest (plus all the side benefits). John indicates DX will still take a backseat to his main interest - bluegrass music. However, we tend to think he'll be more inclined to tap his feet to the rhythms coming from the TV instead of the record player when DX from "deep in the hills" is overloading the channels of his receiver.

Another guy who just couldn't stand to say away from these hallowed pages is Dave Bright. He notes "After a month's leave of absence, I have decided to renew my membership in WTFDA. The two columns, FCC News and DATA (TV) and FCC FM, really kept me informed about the new stations! In my opinion, these two columns make the VUD. (Thanks Dave - But what about the Mailbag?)

Latest word from ex-EDX editor Morrie Goldman was that he was awaiting the delivery of a roof mount tower so he could resume DXing activity. For Morrie, the summer of 1970 was pretty dull. No antennas up and nothing but the big city locals to sloop over on what skip he could see via the rabbit ears. Have heart Morrie. You may well yet catch a late season opening -- a very late season opening indeed. How'd you like a little tropes or skip with your Thanksgiving turkey (garnished with a little Aurora perchance?).

Ye editor must sign off and away for another 30 days. Here's hoping our Christmas gift from each of you will be word of at least one good visit by some form of propagation!



# STATISTICS

(thru mid-November:)  
 Glenn Hauser, editor  
 Box 1466  
 APO San Francisco 96288  
 NOVEMBER 1970

## CHANNEL 3 SKIP TVDX RECORDS

Call	Location	Miles	DXer, Location	Comments
WRBL	Columbus GA (AL)	1955	Dennis Smith, Wasco CA	now in GA
KTVK	Phoenix AZ	1895	Richard Nieman, Buffalo NY	
KIEM	Eureka CA	2190	Frank Hill, Gallipolis OH	
KCRA	Sacramento CA	1395	Ed Rugel, Independence KS	
KEYT	Santa Barbara CA	2225	Robert Seybold, Dunkirk NY	
KDZA	Pueblo CO	960	Al Preston, San Francisco CA	now off
KTVS	Sterling CO	1215	Wayne Plunkett, Weston Ont	
WTIC	Hartford CT	2495	Robert Cooper, Fresno CA	
WEAR	Pensacola FL	1905	Robert Cooper, Fresno CA	now in AL
WEDU	Tampa FL	1735	Fred McCormack, Des Lacs ND	
WSAV	Savannah GA	2405	Doris Johnson, Longview WA	
KMAU	Wailuku HI	2585	Doris Johnson, Longview WA	
KID	Idaho Falls ID	1675	Steve Weinstein, Pittsburgh PA	
WCIA	Champaign IL	1465	Morris Foote, Middleton ID	
WSIL	Harrisburg IL	1825	Doris Johnson, Longview WA	
KGLO	Mason City IA	1465	Robert Cooper, Fresno CA	
KARD	Wichita KS	1505	Ghislain Girard, Arvida PQ	
WAVE	Louisville KY	1930	Ed Hepp, Portland OR	now in IN
KATC	Lafayette LA	1345	Fred McCormack, Des Lacs ND	
KTBS	Shreveport LA	1785	Doris Johnson, Longview WA	
WJMN	Escanaba MI	970	Glen Neal, Sayre OK	
WKZO	Kalamazoo MI	1835	Robert Cooper, Fresno CA	
KDAL	Duluth MN	2630	Robert Mellen, mobile (Ice Island T-3, Arctic Ocean @ 71°52'N/160°20'W)	
WLBT	Jackson MS	1965	Doris Johnson, Longview WA	
KTVO	Kirkville MO	1585	Doris Johnson, Longview WA	
KYTV	Springfield MO	1640	Doris Johnson, Longview WA	
KRTV	Great Falls MT	1880	Jerry Pulice, Staten Island NY	
KYUS	Miles City MT	1140	Harold Cooper, Westland MI	
KLNE	Lexington NE	1315	Jerry Pulice, Staten Island NY	
KMTV	Omaha NE	1380	Norris Doyle, Pittsburg CA	
KORK	Las Vegas NV	1120	Dave Pomeroy, Lawrence KS	
WSYR	Syracuse NY	2310	Robert Cooper, Fresno CA	
WBTW	Charlotte NC	1230	Karl Aiken, Kingston Jamaica	
WWAY	Wilmington NC	1550	Fred McCormack, Des Lacs ND	
WNBK	Cleveland OH	2060	Doris Johnson, Longview WA	now WKYC
WLWC	Columbus OH	1160	Lawrence Pickerell, Longmont CO	now ch 4
WPSX	Clearfield PA	1235	Fred McCormack, Des Lacs ND	
WRCV	Philadelphia PA	2390	Robert Cooper, Fresno CA	now KYW
WDTV	Pittsburgh PA	1090	R. Ballew, Fort Worth TX	now KDKA-2
KDLO	Garden City SD	1410	Donald Ruland, Holly Hill FL	
KOTA	Rapid City SD	1380	Marc DeLorenzo, Hyannis MA	
WRCB	Chattanooga TN	1225	Fred Nordquist, White Sands M.R. NM	was WRGP
WREC	Memphis TN	1870	Doris Johnson, Longview WA	
KBTX	Bryan TX	1430	Jim Dillon, Regina Sask	
KIII	Corpus Christi TX	1500	Karl Aiken, Kingston Jamaica	
KACB	San Angelo TX	1265	Raymond Bell, Washington PA	
KFDX	Wichita Falls TX	1525	Doris Johnson, Longview WA	
HMVT	Burlington VT	2475	Robert Cooper, Fresno CA	now WCAK
WSVA	Harrisonburg VA	1315	Fred McCormack, Des Lacs ND	
WTAR	Norfolk VA	2365	Robert Cooper, Fresno CA	
KLEW	Lewiston ID (WA)	1900	William Brooks, Mount Morris PA	
WSAZ	Huntington WV	2125	Doris Johnson, Longview WA	
WISC	Madison WI	1650	Doris Johnson, Longview WA	

STATISTICS

WTMJ	Milwaukee WI	1220	L. A. Caming, Goose Bay LB	now ch 4
CFRN	Edmonton AB	2275	Ron Boyd, Truro NS	
"CBWT"	Winnipeg MB	2330	Robert Mellen, mobile (see KDAL)	now "CB/FT"
CJOX	Argentia NF	1275	Wayne Plunkett, Weston ON	
"CBHT"	Halifax NS	2915	Robert Cooper, Fresno CA	
CKVR	Barrie ON	1240	Jim Dillon, Regina SK	
CKSO1	Elliot Lake ON	1190	Don Ruland, Holly Hill FL	
CFCL3	Kapuskasing ON	865	Fred McCormack, Des Lacs ND	
"CBFT2"	Mont Laurier PQ	1265	Fred Nordquist, Tulsa OK	
CJBR	Rimouski PQ	1525	Fred McCormack, Des Lacs ND	
CFQC1	Stranraer SK	1240	Fred Nordquist, Tulsa OK	
CKOS	Yorkton SK	1340	Randy Miltier, Campbell CA	
PRF3	São Paulo Brasil	5015	Bedford Brown, Hot Springs AR	
(CMQ)	Consolacion del Sur Cuba	1305	Glenn Hauser, Enid OK	
CMKJ	Holguin Cuba	3180	Doris Johnson, Longview WA	
CMH	Santa Clara Cuba	2910	Doris Johnson, Longview WA	
TGBOL	Guatemala Guatemala	2355	Robert Cooper, Fresno CA	now TGV
XHBC	Mexicali BCN	1290	Fred McCormack, Des Lacs ND	was XEM
KEFB	Monterrey NL	1875	Doris Johnson, Longview WA	
XHP	Puebla Pue	1115	Robert Cooper, Oklahoma City OK	
XLZ	El Zamorano Qro	1620	Robert Cooper, Fresno CA	
XHQ	Culiacan Sin	2015	Karl Aiken, Kingston Jamaica	
XHCV	Coatzacoalcos Ver	1430	Les Prus, Manhattan KS	
XHY	Merida Yuc	1465	Steve Weinstein, Pittsburgh PA	
WIPM	Mayaguez PR	1660	Dave Siddall, Hyannis MA	
YVKS	Barquisimeto Venezuela	2325	Jim Pizzi, Rochester NY	
	Barcelona Venezuela	2390	(alternate possibility; synchronized)	

Since the last time we presented this listing, September 1968, 11 stations have been added and about 20 of the records at that time have been exceeded... Still lacking is any skip report at all of KVDO Salem OR. If you have DXed any ch 3 station at a greater distance, please inform your editor!

FM RANK

<u>DXer, Location</u>	<u>Stations</u>	<u>States</u>	<u>Provinces</u>	<u>Countries</u>	<u>As of date</u>
Robert Cooper, Oklahoma City OK	600+	43+DC	4	4	28 July
Bill Bens, Cincinnati OH	524	29+DC	4	3	7 July
Fred Nordquist, Syracuse NY	191	20+DC	2	2	18 Sept
Dennis Smith, Little Creek VA	177	15+DC	0	1	24 August
Dennis Smith, Wasco CA	176	7	0	2	24 August
John Shannon, Kittanning PA	153	16+DC	1	4	6 July
Frank Wheeler, Erie PA	75	3	1	2	27 February
Dennis Smith, Santa Barbara CA	71	1	0	2	24 August
Bill Heusmann, Des Moines IA	60	9	0	1	6 October
Leslie Prus, Manhattan KS	47	8	0	1	23 September
Glenn Hauser, Korat Thailand	10	0	0	5	15 October

REVISIONS

2	WTWO	Terre Haute IN	T	485	Leslie Prus, Manhattan KS	Draeb 355
			MS	610	Robert Cooper, Oklahoma City OK	new
	KQTV	St Joseph MO	T	330	Robert Cooper, Oklahoma City OK	Hauser 325
3	WAVL	Louisville KY (IN)	T	575	Leslie Prus, Manhattan KS	Seybold 440
	KATC	Lafayette LA	T	560	Glen Neal, Sayre OK	Cooper 485
4	WTTV	Bloomington IN	T	550	Leslie Prus, Manhattan KS	Draeb 355
	KDUH	Hay Springs NE	T	405	Fred McCormack, Des Lacs ND	new
	WUNC	Chapel Hill NC		1130	Glen Neal, Sayre OK	Hauser 1040
	"CBkMT"	Moose Jaw SK	T	245	Fred McCormack, Des Lacs ND	new

5	WMAQ	Chicago IL	T	500	Leslie Prus, Manhattan KS	Seybold 425
	KXGN	Glendive MT	T	165	Fred McCormack, Des Lacs ND	new
	KHAS	Hastings NE	T	370	Glen Neal, Sayre OK	Cooper, Hauser 355
	KTXT	Lubbock TX	T	175	Glen Neal, Sayre OK	new
	CKSO	Sudbury ON		1230	Glen Neal, Sayre OK	Dillon 1120
6	WCIX	South Miami FL		1320	Glen Neal, Sayre OK	Cooper 1220
	WHIS	Bluefield WV (VA)		1275	Fred McCormack, Des Lacs ND	Hauser 920
	CHSS	Wynyard SK	T	265	Fred McCormack, Des Lacs ND	new
7	WKBW	Buffalo NY		540	Bruce Metzner, Madison WI	Janowiak 470
	WITV	Chalreston SC		165	Joe Kureth, Southern Pines NC	new
	CKMJ	Marquis SK		250	Fred McCormack, Des Lacs ND	new
9	WCPO	Cincinnati OH		640	Leslie Prus, Manhattan KS	Rugel 615
	CKLT	Moncton NB		420	Gene DeLorenzo, Hyannis MA	new
10	K1Ø--	Santa Ynez CA		30	Jim Pizzi, Santa Maria CA	KCOY 12
13	KTNE	Alliance NE		330	Marv Garber, Lincoln NE	new
	KFME	Fargo ND		240	Fred McCormack, Des Lacs ND	new
15	WLYH	Lebanon PA		440	Roger Brown, East Lansing MI	Smith 235
20	WUTR	Utica NY		405	Harold Cooper, Westland MI	Rosenburg 210
21	KVFD	Fort Dodge IA		530	Fred McCormack, Des Lacs ND	Cooper 515
24	WCNY	Syracuse NY		585	Bill Draeb, Kewaunee WI	Brown 425
	WVU	Morgantown WV		510	Bill Draeb, Kewaunee WI	Chrislip 110
28	WVER	Rutland VT		195	John Lombardo, Irvington NJ	new
29	WTAF	Philadelphia PA		510	Roger Brown, East Lansing MI	Lewis 325
30	KHOF	San Bernardino CA		140	Dennis Smith, Santa Barbara CA	Lipis 95
	WHNB	New Britain CT		430	Roger Gravelle, St Thomas ON	Smith 380
31	WMBD	Peoria IL		785	Fred McCormack, Des Lacs ND	Cooper 630
36	WENY	Elmira NY		555	Bill Draeb, Kewaunee WI	Lewis & Rosenberg 170
40	KDUB	Dubuque IA		655	Fred McCormack, Des Lacs ND	Draeb 205
41	WXTV	Paterson NJ (NY)		550	Roger Brown, East Lansing MI	Seybold 300
42	WTVI	Charlotte NC		80	Joe Kureth, Southern Pines NC	new
43	WSBA	York PA		440	Roger Brown, East Lansing MI	Seybold 220
44	WSNS	Chicago IL		430	Joel Rosenberg, Downsview ON	Draeb 180
	WVIA	Wilkes-Barre PA		630	Bill Draeb, Kewaunee WI	Lewis 295
46	WSKG	Binghamton NY		595	Bill Draeb, Kewaunee WI	Brown 495
48	WCET	Cincinnati OH		400	Bill Draeb, Kewaunee WI	Seybold 355
50	KCIT	Kansas City MO		385	Bruce Metzner, Madison WI	Cooper 300
52	WKON	Owenton KY		430	Bill Draeb, Kewaunee WI	Seybold 395
54	WMKG	Muskegon MI		155	Bruce Metzner, Madison WI	Heusmann 140
70	K7ØEN	Manhattan KS		5	Leslie Prus, Manhattan KS	
	K7ØBZ	Bemidji MN		315	Fred McCormack, Des Lacs ND	KDAL-3
	K7ØCI	Columbus ND		70	Fred McCormack, Des Lacs ND	
75	K75AM	Bemidji MN		315	Fred McCormack, Des Lacs ND	WDSM-6
78	K78AK	Cass Lake MN		330	Fred McCormack, Des Lacs ND	KDAL-3
80	K8ØCK	Bemidji MN		315	Fred McCormack, Des Lacs ND	KTHI-11
82	K82AF	Cass Lake MN		330	Fred McCormack, Des Lacs ND	WDSM-6

Since WTFDA has added a lot of new members recently, this is a good time to reiterate some points about this column. Everybody (in fact, even non-members) is invited to send me information direct--lists of stations you've DXed that you think or hope may be at record distances...or a complete list of all stations you've seen, and we'll check it out for records. Please include distances, however approximate, as this makes our job a great deal more manageable. All distances shown in this column have been measured by the editor; great accuracy is not guaranteed, but since we use the same map for everybody (the 1968 National Geographic wall map of the U.S.), at least all are subject to the same errors. Do not be surprised if the distances seem "wrong"...besides using a different map, we measure from DXer to transmitter site (not city of license), since this is the DX propagation distance actually involved. If you do not send reports to me, may I request you at least to indicate distances and which stations are new (preferably in the VAFI system) in your reports to the regional DX editors. These are minimum requirements for a useful DX report!

Until the next, 73 de Glenn

# TECH NOTES

BOB'S TECH NOTES

Bob Cooper, Jr.  
% CADCC, Suite 107  
4444 Classen Blvd.

Oklahoma City, Oklahoma 73118

NOVEMBER 1970 - Page One

## TROPOSPHERIC DUCTING DX

Tropo (sometimes mis-written as trops) is short for tropospheric, relating to that layer of our atmosphere which we live in, breathe and depend upon for weather; ie. that portion closest to the earth's surface.

By a strange coincidence of nature and physics, when we have normal atmospheric conditions, VHF-UHF radio and TV signals travel only as far as the horizon before the signals begin to become severely attenuated (ie. become weaker). Beyond the 'horizon' the signals are subject to fading, and with every mile we travel further from the transmitter source the signals become weaker.

The 'normal atmosphere' we refer to here is one in which the temperature is highest at or just above ground level, tapering off (ie. becoming cooler) as we leave the earth's surface and travel upward. The further UP we go, the cooler it becomes. And, except when it is raining or snowing, the air closest to the surface of the earth is also the driest, with the moisture content (ie. humidity) the lowest at or near ground level, and slowly increasing as we climb higher and higher above the surface.

Weather types take readings throughout the day of air temperatures at the surface of the earth, and then at elevations above the earth up to 20,000 feet or more. The temperatures and moisture content are plotted on graphs so that 'pictures' of the lower and mid atmosphere can be drawn.

As long as the temperature and moisture content measurements show that their rate of change is constant, as elevation above ground surface increases, we have a normal atmosphere. And, we also have normal (or poor) tropo conditions.

Fortunately for the DX enthusiast, the weather is constantly changing. Cold or cool air surges south (or southeast) out of Canada, and warm(er) moist air drifts north out of the Gulf of Mexico. All too often the opposing air masses meet someplace over the continental United States (or more properly, one of the two is there first and the second one 'moves in' on it) and a boundary line between the two weather systems forms. To the north (or northwest) of the boundary line the air is cold, and dry. To the south (or southeast) the air is warm(er) and more moist. And along this boundary line a sharp contrast forms. In a space across the front line of as little as a few miles to perhaps as much as 100 miles temperatures differ sharply and the moisture content of the atmosphere changes suddenly.

During many portions of the year, especially in the spring and early summer, the heated atmosphere acts as an additional catalyst on the sharp boundary line between warm/moist and cool/dry air, and thunderstorms form along the line, creating severely disturbed air flow patterns in the region.

To the VHF/UHF DX enthusiast, the formation of this mythical boundary line between air masses is one of the most important keys to logging long haul tropo DX. For, one of the unusual properties of such air-boundary formations is that in the region where the atmosphere changes from hot to cold, or, from wet to dry, an invisible electronic pipeline also forms; a pipeline that stretches over the earth for hundreds of miles, all along the front or boundary line, at elevations that vary from just tens of feet above ground

## Tropospheric Ducting

to thousands of feet above ground.

The 'pipeline' is created by the actual boundary point between the differing air masses. In some situations the pipe only has a 'top', while in other cases it has a 'top' and a bottom, and perhaps even two sides.

Our long distance VHF-UHF pipeline is called a DUCT (as in duct-work) because once a VHF or UHF signals finds its way into the DUCT, the signal(s) will be carried by the DUCT, virtually un-attenuated by distance, for as far as the DUCT itself exists.

Now we don't know a great deal about ducts, and even what we do know is of limited accuracy. But we do know enough to give us a guide as to when and where to look for duct type conditions to form, and bring us DX.

We do know, for example:

- (A) That ducts are frequency sensitive. The ducts are seldom sufficiently LARGE to carry the relatively longer channel 2,3 and 4 wavelengths whereas channels 5,6,FM, channels 7-13 and channels 14-83 are carried nicely.
- (B) The efficiency of a duct as a transmission device increases with frequency (ie. higher channels are best) until we reach the cut-off frequency of the particular duct we are dealing with. Therefore, if a duct is good up into the UHF range, the UHF TV signals will be far stronger than the VHF TV signals and FM-signals being carried in the same duct.
- (G) Ducts are usually associated with cold fronts moving into a region that has been warm, fairly moist, and stable. A dramatic change in temperature is not required - a drop of 10-15 degrees across the front line is often quite adequate. In fact, mild temperature changes are usually better since they are less likely to set off thunderstorm activity along the front line.
- (D) IF there IS severe weather (ie. thunderstorms or general heavy rain/snow), the severe weather usually forms along the leading edge of the front. This type of vertical (up and down) movement of air flows along the front virtually guarantees no duct(s) will form, unless the weather gets very stable immediately behind the front (in which case the front passes, the weather stabilizes and the duct forms immediately after the front). Ducts require almost stable air (ie. no up and down drafting) to form, although fairly strong horizontal (parallel to the front and the earth) can be present when a duct forms.
- (E) Ducts directly associated with a front line usually form just ahead of the front, just after the front, or seemingly right along the actual front line. It appears that when a duct forms in association with a cold front moving south (or southeast), the duct is more likely to form just AFTER the front passes, whereas if the duct forms in association with a warm front moving north (or NE) the duct will usually form just ahead of the front.
- (F) On the occasion that a duct is not associated with the direct front line, it may form at right angles to the front. This occurs when (for example) a colder front traveling almost due south out of Canada generates a north-

Tropospheric Ducting

ward flow of moist air out of the Gulf of Mexico, feeding a low pressure center associated with the cold front line. When the low is centered over Minnesota/Wisconsin, for example, showers and rain will often flow along the front. Moisture to support this rain activity feeds into the low from off the coast of Louisiana and Texas. This establishes a south to north moist air flow that moves directly over eastern Texas/western Louisiana, eastern Oklahoma/western Arkansas, eastern Kansas/western Missouri, eastern Nebraska/Iowa and into the frontal region. This warm, moist air travels north, quite often, at relatively low altitudes, such as 1,000 to 3,000 feet, and this creates a thick blanket of warm, moist air in this region, with a sharp contrasting layer of dryer air above. And along this boundary between the dry and wet air masses, our electronic pipeline forms.

Air circulation patterns are complex, and varied enough, that each region of the country has its own peculiar patterns which can contribute to the formation of non-front type ducting. The above example is but one of many examples that can be shown for the United States.

(H) In a sense, the duct is carried along (ahead of, with or just behind) by the front. If the front or boundary is moving at say 15 miles per hour, and the duct type reception lasts just one hour at your location, it is quite accurate to assume that the duct has a width of about 15 miles. This narrow width of the typical duct is a major contributing reason as to why more DX'ers do not 'catch' ducting type openings. They come in fast (reception usually forms up in 15-30 minutes time, from no signals to strong signals), hold their peak from a few minutes to perhaps an hour, and fade down and out in another 15-30 minutes time. Many DX'ers have been at the dials for a decade or more and have yet to catch their first duct! (This is not to say that they are rare or that they do not exist very often - this is to say that you have to be alert enough to catch them!)

(I) Between May 1969 and October 1970 this DX'er has observed 47 ducting openings. They have broken down in this fashion:

May 1969	..... 4	November	..... 1	May	..... 3
June	..... 2	December	..... 0	June	..... 5
July	..... 1	January 1970	... 3	July	..... 1
August	..... 5	February	..... 1	August	..... 5
September	..... 4	March	..... 1	September	... 4
October	..... 3	April	..... 4		

Most of these openings have been associated with weather fronts moving NW to SE, as evidenced by this tally of ducting openings which have affected my Oklahoma City location from the states listed (number after state indicates how many openings each state has produced to Oklahoma City on ducting):

NORTH

S.D. (500 miles plus)	..... 3
Nebraska (300 miles +)	..... 18

NORTH/NE

Iowa (450 miles + )	..... 38
Wisconsin (600 +)	..... 19
Minnesota (600 +)	..... 15

NE

Illinois (500 + )	..... 21
Indiana (600 +)	..... 9
Michigan (800 +)	..... 4

E/NE

Ohio (775 + )	..... 9
Kentucky (550 +)	..... 9

Tropospheric Ducting

<u>FAST</u>		<u>E/SE</u>		<u>SE</u>
Tennessee (400 m. +) ....12		Alabama (500 M. +) ... 7		Mississippi (400 +)..8
		Georgia (700 m. +) ... 2		La. (300 +) .....9

S/SE  
 (S.) Texas .....(400 +)..15    S/SW - (S.) Texas (300 +) ..... 21

(J) Ducting usually occurs along a very narrow region, from your vantage point. This means that stations that are heard or seen come to you along a line that is perhaps no more than 50-100 miles wide, but perhaps up to 1,000 miles long. If, in the direction the duct is forming, there are no stations within 100-200 miles of you operating, you can see ducting along a narrow slot (along the front usually) with NC improvement of your closer fringe area signals. More often than not, signals within 200 miles of you are normal or even below, but ducting signals from 300 to-1,000 miles or more are loud and clear. DC NCT - do not depend upon local and fringe area signal levels to tell you when ducting is forming. True ducting often does not appear on signals less than 400 miles away, and you can easily have a blank (NCT to be called skip) zone in the nearer-in regions.

(K) IF you have a DECENT FM DXing system, you can spot ducting forming on FM first by 15 minutes to several hours before it shows up on TV. Again, stations 100,200 and often 300/400 miles away are WORTHLESS as tip offs to ducting forming. What you need to be aware of is potential ducting tip off stations on FM that are in the 400-600 mile range from you.

For example, I check KWVL 107.9 in Waterloo, Iowa (559 miles) whenever weather conditions look favorable for a duct to the N/NE. Or I look for WMC 99.7 (Memphis) for the east direction. Or KGRV 107.7, KCFM 93.7 for the NE direction, and so on. I know from experience that 9 times out of 10 - and perhaps even more often - I will have ducting reception on FM at least 15 minutes and perhaps several hours before it shows on TV; either VHF or UHF.

(L) Ducting is by far the best way to catch long haul UHF TV DX. When you are in the midst of a bang up 200-450 miler opening on UHF, that is coming from several states at once or over a fairly wide compass heading, the chances that this will build into a ducting situation for you is VERY SLIM. The duct almost always stands by itself, with nothing else showing. It occurs along a very narrow antenna heading-range, and for a short period of time. And, your own LOCAL weather is not important, provided it is not thunderstorms. It may be raining, or snowing. It may be overcast, or clear and still. I've seen all of these and more.

(M) Ducting signals may be weak, or they may be VERY-VERY strong. I've seen 850 plus mile UHF'ers that were TRUE Grade A quality .. no holds barred. And I've also seen UHF TV signals that are just barely there, for hours on end, barely detectable in the snow, steady as a rock (no fading). Normally, ducting signals peak out on UHF at about the same levels you experience on VHF fringe signals in the 100-125 mile range, under normal VHF conditions ( ie. good quality, some snow and noise).

(N) Ducting tends to be very selective. From here in Oklahoma, South Bend UHF may be in, but no Elkhart. And 15 minutes later, there is Elkhart-28, but South Bend is gone. Considering they are only miles apart, that's pretty selective! Or, in a town with two or more U's, the one with a 1,500 foot tower may be in while the 500 foot tower station is not; only to turn around minutes later in favor of the short tower station.

## Tropospheric Ducting

(C) With a good duct opening, UHF power (or FM power) is not important. Relatively low power and low tower U's and Class A FM stations at 600-800 miles (plus) are not uncommon.

(P) The calmer the weather along a frontal-boundary line, the more stable the ducting signals. For this reason, fall and winter ducts tend to produce the most stable signals. The duct signals may show no noticeable fading for an hour or more!

When the weather along the front line is slightly disturbed, vertical movement of air will cause the duct to form, dissipate, and form again. In this case signals may 'pop' in suddenly, stay a few minutes, and 'pop' out. A dial with no signals one minute often fills up with signals in as much time as it takes you to check from 14 to 83, and start back again.

(Q) A duct will often vary in elevation above ground, as it travels across the country side. In other words it may tilt from a maximum height of 2,000 feet above ground at the northern most end to a low of 50 feet above ground at the southern most end (or any of several other combinations). This causes situations such as WGTE-30 Toldeo (864 miles) completely covering KDNL-30 (458 miles) for me here in Oklahoma City, when KDNL-30 was snowfree and local quality; even though WGTE-30 was twice as far away and in the exact same direction as KDNL.

## Synopsis

Ducting does not require exotic equipment, although it stands to reason that the better the equipment the more and further you will log.

More than anything else, it requires an awareness of what causes ducting, and when to look for it; AND - what direction to look for it.

## Remember:

- (1) Your local and fringe signals are NCT reliable indicators;
- (2) It happens fast, and may not last very long;
- (3) You will get it from just one direction, and along a very narrow path (you might get two separate ducts at once working for you, but that is rare); If you happen to be in the middle, you may get it from two directions, 180 degrees apart going both ways along the front.
- (4) There is no BEST time of day - it all depends on when the weather front moves through your area.
- (5) Signals are best at the highest frequency carried by the duct. This means usually UHF is best, FM is good (because of much better receiver sensitivity than VHF-TV) and high band VHF is worst. Low band is rare and seldom good.
- (6) Anyone east of the Rockies can participate!

## Column Editor's Note:

I want to apologize to the many members who have written over the past few months, asking advice and so on or just general questions. 18 hour days, a growing business and family simply do not allow me to carry on any additional personal correspondence at this time. If you have questions that can be answered here on those months when my column will appear, shoot them in and we'll try to handle it in this manner! And good DX!

Bob Cooper, Jr.



# FM RADIO

Editor: Roger W. Winsor  
718 N. Fremont Road  
Valparaiso, Indiana  
46383

Dennis Smith Music Dept., Univ. of Calif., Santa Barbara, CA 93106

All times PST. Before coming back to S.B. on 9/3 PM, I did some MS hunting in Wasco on 9/1,2,3 on 88 to 92 with odd results for my most unusual FM reception. Fisher FM 90X mono tuner & TAC0 10 el FM yagi aimed NW. Found bursts mornings on 90.7 from 0500 on, best on 9/2: 0645, 0710 & 0730, progressive rock @0710 sounded like classic orch., but this format sometimes does anything. Usually too strong for MS checking, KPFB 90.7 IA had reduced power, XMTR problems; my antennas gain & F/B ratios aren't too good at the low end of the band. Strangely, most likely possibility was KERS 90.7 Sacramento only 240 mi NW (5400w). Letter from them matched info, s/on 0500 (6AM PDT) w/ rock format. Also 9/2 PM @2035, burst on 89.3 sounded like a KPFA 94.1 Berkeley listener subscription pitch on their low power KPFB satellite 225 mi to NW. Letter from KPFA confirmed phrases heard, they even sent me their air check tape around that time which proves it to me (rather than my sending them one, hi). They said KPFB is 250w smtr (was 150w, I thought) with dipole and screen pointed north (I am SE of them, so wasn't getting much radiation). In any case, KERS is tentative and KPFB positive. I suppose both were by tropo bursting because of closer distances, though they had same sound as MS. I've heard other brief increases w/reg. pulse fade from weak consistent FMs (atmospheric ex or airplanes?) but there were MSlike. Someday I will positively ID KERS by tropo, but because of irregular terrain and low power, I'll never hear KPFB that way. I now brings log to 176 (174 plus 2, conforming to WFTDA logging recommendations.)

Fred McCormack

Des Lacs, North Dakota 58733

September DX started with an Es opening on 9/1. Heard were WQST 92.5 Forest, MS @2139 CDT and new WNOE 101.1 New Orleans @2152. The morning of 9/4 brought 880 watt KPWD 100.1 Plentywood, MT by tropo at 130mi. (I didn't know how close this town was to my QTH until I noted it on a map recently. I heard the station on my second try.) 9/5 had a good trop opening to Minnesota with new stations, KRBI 105.5 St. Peter @0708 and KNXR 97.5 Rochester @0733. The morning of 9/13 had AS with the usual MN, IA and SD stations plus new WCCN 107.5 Neilsville, WI @0804. The best trop opening since last 8/22 took place on the morning of 9/19. I didn't do much FM listening, but I did log new stations WJBM 104.1 Jerseyville, IL @0735 (835 mi), WGEM 105.1 Quincy, IL @0812 (755), KILR 95.9 Estherville, IA @0844 (465), WEAF 100.5 in Jacksonville, IL @0900 (810), WTAD 99.5 Quincy, IL @0904 and WTMB 98.9 Tomah, WI @1105 (610). I wish openings like this more often would happen. 73 and good DX.

Joseph Fela, Jr., 150 Robert Place So. Plainfield, N.J. 07080

DX continued from last time: July 19th (all times EDT) 11:30pm WDYL 92.1 Va good (NRCer Chris Lucas in Conn. got them at the same time); 11:39 WXRA 105.9 Va. thru local WHBI. July 20th 0005 s/off WICO 94.3 and WIVE 100.1 Va. @0030. Aug. 8th WPFL 96.5 Pa. barely thru WWDB Philly. Aug. 17th Frank Merrill had aurora scatter DX on

Fela cont'd: on this morning and I strongly suspect most of what I hrd was also aurora. 0014 WEZS 103.7 Va. fair and steady (probably trop); 0033 WFBG 98.1 Pa. ID, then fade, then a SSB a minute later indicating s/off; 0055 CHFI 98.1 Ont. very weak, heavy fading; 0100 WYDD 104.7 Pa. s/off, also very weak, fading; 0135 WGBI 101.3 Pa. and 0203 an interesting ID on 100.7 Call sounded like "WVQS", but probably not WVTS as locatio n was not phonetically equivalent to Terre Haute. It sounded like West Fla. Ideas anyone (WCOA?? RWW) Lots of other very weak unIDs this same AM. Aug. 19th last Es of the season. 5:00pm KNWC 96.5 SD fairly good, but not a trace of KELO 92.5, which I don't understand; 5:08 WOI 90.1 Ia; 5:20 KOWH 94.1 Nb really messed up by WNYC 93.9/WJLK 94.3; and 5:31 KTFC 103.3 IA. Sept. 16th one of those good inland trop openings. 10:15pm WEEP 107.9 Pa. good in the common semi-null point of WXTC/WPJF, 10:25 KQV 102.5 Pa. o/WRFY, 10:27 Cleveland/Detroit BB game well atop WRCP 104.5 at times, did catch a local spot for the Wooster Shopping Plaza, but no WWST ID, not counted, 10:30 WTPA 104.1 Pa. w/3 consecutive IDs before WXKW ex WAEB took over again; 11:06 WHBC 94.1 Ohio, 11:45 WDBN 94.9 Ohio outstanding 11:58 WNYN 106.9 w/stereo 107 Canton ID, well over a nulled WKDN. Sept. 17 0003 WVNO 106.1 Ohio thru a semi nulled WQAL, 0030 WWSW 94.5 way o/WDAC, 0036 WSBT 101.5 Ind.; 0058 s/off WHB C 94.1; 0030 WFMP 100.3 IL thru a nulled WXUR. Is this the correct call, as the ID didn't contain a call? (It sure is Joe, and you can keep them in your back yard if you like. Hi hi RWW) It was "...Chicago(s adult mx station, FM 100, rated X)".; 0046 WKJF 93.7 Pa., 0058 mx on 100.7 assumed to be CHIN, but never got an ID, 0202 WSPD 101.5 Ohio, 0219 WHFM 98.9 NY thru powerful WPBS, 0230 WERE 98.5 Ohio, 0250 WPTH 95.1 Ind. very nice, 0301 WTOF 98.1 Ohio powerful w/religious block pgm, 0306 WNCI 97.9 Ohio weak w/WTOF splash. 73.

FM DX report from Bruce F. Elving 522 N 12 $\frac{1}{2}$  Ave. E Duluth, MN 55805

Despite the fact that I got married and was out of town much of the month, September will go down in my books as one of the best DX months on record. In fact, when I made my last report I thought the 1970 FM DX season had just about ended, but the best was still to come. Trops 9/8 and 9 brought KNAW 95.9, KHBT 97.7 Humboldt and KLGA 92.7 Algona, Iowa. Incidentally, I now have heard all operating commercial FM stations in Iowa, as well as some no longer operating ones, such as KOKX 102.7, KWTO 98.7 Springfield, KDNA 102.5 and KGRV 107.7 St. Louis, all MO; and WCIL 101.5 Carbondale, IL. The best part of the month was Sept. 18 and 19, when it was particularly good into southern Missouri, with a lot of educational stations grasped. New additions to my log were @ WBBA 97.7 Pittsfield, WUNC 89.1 Naper ville, WBYS 98.3 Canton and WSIE 88.7 Edwardsville, all IL; KIOS 91.5 Omaha; WGUC 90.9 Cincinnati; and ten watt WVSS 89.5 Menominee, WI; and the following MO goodies: KCMW 90.9 Warrensburg, KFBF 97.7 Waynesville, KMSM 88.5 and KCLU 94.3 both Rolla, KBFL 90.3 Buffalo, KTGR 96.7 Columbia and KWPM West Plains. My Duluth log totals 926, of which 40 are from Mo, 50 from Iowa, 56 from Ohio and 94 from Wisc. Ill. follows closely at 93. WIDS 100.5 Jacksonville, IL is now WEAI; a fact that escaped Broadcasting magazine. I enjoyed getting to the convention and meeting all the members there. Hope others got a chance to nibble at the excellent mid September DX that came to the midwest.73.

Bob Cooper Jr., 6221 Norman Road Oklahoma City, OK 73122

FN DX report Sept. 9th through October 8th. All times CDST. My last report for awhile, catching a bit of tropo before I dismantle the antennas and pull up stakes to move across town. Sept. 9th 1920 KGRV 107.7, WSIU 91.9, KRCH 98.1, KGMO 100.7, WMC 99.7, others in 450 600 mile range until 0100. 0100 WIFE 107.9. Sept. 13 1800 KWWL 107.9. Sept. 18 0715 KWWL and KDSN 107.1, 1832 WSIE 88.7, KCIM 93.7, WHWC 88.3, WHHI 91.3, WHRM 91.9 and others out to 750 miles to north and NE all evening. Sept. 19 0035 KASI 107.1, KGRC 92.9, WIFC 95.5, WOW 92.3, WIL 92.3, WBIZ 100.7, WAUR 107.9. 0700 to 0930 KLSS 106.1, KAOL 101.1, WRCO 100.9, KROC 106.9, WDBQ 105.3, KBOE 105.1, KXEL 105.7, WCCN 107.5, KLEX 106.3, KSIB 101.7, WIGM 99.3, WJMC 96.3, KDHL 95.9, KCOB 95.9, KIFG 95.3, WRIS 92.1, KRES 104.7, WCAL 89.3, WWLA 93.3, KRIT 95.9. Of these, am proudest of 300 foot/3kw WRIS in Hayward, Wisc. at 825 miles complete quieting! 2045 KWWL and KROC. October 2nd 0815 to 1045 VG tropo to NE from Oklahoma into lower Michigan. Spent most of the time on UHF, but typical were WJFM 93.7 (816mi), WIFE 107.9 (686), WOKZ 100.3 and others.

Carlton Howington 13880 Greenland Avenue Uniontown, Pa. 44685  
9/12 all the below are tropo-- WFMG 104.5 like a ton of bricks at 11:00 AM, local WWST off, WKES 88.9, WSMC 90.7, and WPLN 90.3 till noon, WAIN 93.5 @11:45, WAN Y 106.3 @noon 350m, in/out all day long, WFBC 93.7 @10:46PM for first tropo from SC, WSPA 98.9 @11:25 in \$, WLOS 99.9 @1140. 9/13 WRTI 90.1 0010 till 0300 s/off, WKCR 89.9 0100, WGBH 89.7 at times in stereo around 0100, WCCC 106.9 0102, WDYL 92.1 @0158 s/off (335), WEEX 99.9 0200, WKOP 99.1 0208, WIVE 100.1 0230, WFAS 103.9 0236, WMGM 103.7 0331 s/off, WTFM 103.5 0300, WVBR 93.5 0300, WDAS 105.3 0335, WSOC 103.7 in like a local @0338, WSIS 99.1 0930 in stereo, WPVR 94.9 in over local WDBN 1000, WVVV 104.9 @1035 next to 100kw local WSOM 105.1....."Tropo week 1970" 9/16 to 9/19 WVGR 104.1 over local 7:30PM, WRBR 103.9 7:35, WJJD 104.3 7:50, WOOD 105.7 over local 8PM, WEFA 102.3 @8:30@340m, WONC 89.1 local like 8:45, WHKW, WHIA and WHRM in stereo most of night (WHIA 90.3 at 540m), WCAL 89.3 was over WHKW @10PM @635m, WGHV 92.1 10:30PM, WQMU 103.1 11:45. 9/17 WFUV 90.7 0120 RRmx, WVTV 103.9 @0100 s/off, WRWC 103.1 0108 s/off @410m, WRTI 90.1 w/jazz till 3AM, WPJB 105.1 in like a local @0545, WHHO 105.3 0538, WAVT 101.9 0600, WHUS 91.7 0704, WESA 98.3 between two strong locals on 98.1/98.5 tropo in till 1PM that day. 9/18 WMPI 100.9 7:23PM, WSIU 91.9 like a local 8PM, WBTO 93.5 8:25@335m, WFML 106.5 8:35, WOI 90.1 @625m in stereo 10PM. 9/19 best tropo of year so far KANU 91.5 at 740 miles in solid stereo from 0855 to about 1000, WNON 100.9 1025, WSAL 102.3 1049, WOI again 11AM, WTHI 99.9 same time, WCBK 102.3 1130, KRXL 94.5 at 12:06PM at 570m., WLRW 94.5 1230, WCAL 89.3 again with a 1PM s/off and last but not least WTCW 103.9 in solid for an hour 1 2 PM.

Roger W. Winsor 718 N. Fremont Road Valparaiso, Indiana 46383  
No new stations here, last was the stuff on 9/18 in last VUD. That day seemed to be generally overall the midwest, if only I had a better receiver, I would have picked up much more stuff. Not working at WMCB anymore, not enuf \$\$\$. They s/off @9:00PM daily, so is a hard catch. WGFA 94.1 now at 20kw per annct., so should get out well. 73's

Bill Heusman 1527 24th Street Des Moines, Iowa

Having returned to Des Moines, I've started halfway serious FM DXing, and thought I'd might as well report. My results aren't exactly earth shattering, but what I all achieved using a simple dipole, which to my mind proves how much better one's results can be on FM, as opposed to TV, and that one doesn't need a whole lot of antenna to seriously DX FM. One of the tangible results of my working this summer has been a Heath AD 27 "Stereo Center", incorporating their AR 14 receiver. This has provided me with enough incentive to give serious FMDXing a try (though my main love is still TV!) and so far things have gone quite well. What fascinates me is that all this DX has been achieved using only dipoles in the house, prompting me to wonder just what is possible if I ever get a decent antenna! Underlined new: with horizontal dipole in living room 9/4 1835 WOW 92.3 Omaha; 1838 unID 92.7 Kirksville, Hannibal Quincy mentioned in ad (sure it wasn't 92.9 KGRC?) 1846 KWMT 94.5 Ft. Dodge; 1852 KICD 107.7; 1900 tent WCAL 89.3 w/MN wx; 9/7 2159 KDCR 91.3 Sioux Center; 2212 KYSM 103.5 Mankato and KJAN 103.7 Atlantic, IA. 9/8 1030 WHWC 88.3 Colfax, WI; 1033 KEYC 99.1 Mankato 1040 KAUS 99.9 Austin, MN; 1429 KLGA 92.7 Algona, IA; 1430 KFMD 92.9 Dubuque. 9/13 1805 KWAW 95.9 Webster City, IA (note freq. Bill RWW). 9/16 1859 KIFG 95.3 Iowa Falls. 9/17 1505 KLGA and KEYC. 9/18 KANU 91.5 in Lawrence, KS, VG \$. 9/19 0100 KMSM 88.5 Tolla, MO. I have listed as 10 watts. Are they still? M w/some noise; 0101 WCAL 89.3 Northfield, MN, 0105 KGRC 92.9 Hannibal, Mo (note freq. again. You need a VJ Log Bill RWW) 0107 KTOP 100.3 Topeka, KS; 0108 WIFG (note call change RWW) 95.5 Wausau; 0110 WLWL 99.5 Minneapolis; 0113 KXKR 97.5; 0115 WOOD 105.7 Grand Rapids, light noise in \$ @420 mi; 0120 KUDL 98.1 Kansas City, KS; 0129 KOIL 96.1 Omaha; 0130 WBIZ 100.7 Eau Claire. Woke up to be greeted by a dense fog.. 0621 unID 93.5 w/Sioux Falls ad. (this is KCHF 3kw Bill RWW); 0623 KWOA 95.1 Worthington, MN; 0628 KXIC 100.7 Iowa City; 0629 WBAY 101.1 Green Bay; 0630 KYSD 102.3 WHERE (nothing listed. Are you sure of freq/call letter?) 0634 WOC 103.7 Davenport; 0638 KRES 104.7 Moberly, MO; 0640 WGEM 105.1; 0642 WEAI (note call Bill) 100.5 Jacksonville, Ill; 0645 KWWR 95.7 Mexico, MO; 0648 WIAL 94.1 Eau Claire; 0650 WWLA 93.3 LaCrosse; 0652 WTMB 98.9 Tomah, WI; 0701 KMBR 99.7 KC: 0710 WRVF 106.3 River Falls, WI; 1300 KNUJ 93.1 in New Ulm, MN. 9/20 1130 KELO 92.5 Sioux Falls; 2230 KWMT w/local KFMG off. On the vertical dipole in the living room: 9/30 1330 KIOS 91.5 "Voice of the Omaha Public Schools" 26kw; 1515 KTFC 103.3 Sioux City; 1607 KRNT 102.5 new local on XR test. First hrd on 96.1 image. 10/2 0810 WMT 96.5 Cedar Rapids. I have them listed as 104.5. What gives? (They changed to 96.5 some 3 years ago Bob, when KIIN 12 was granted for Iowa City. Some cross modulation problem I guess. RWW) On v/dipole in a attic 10/5 0955 WGEM/KWAW; 1004 KRIT 96.9 Clarion, IA; 1006 KRNT 102.5 on RS w/hitparade 70 and several images! From my limited observations, the v ant. does seem to be better. On H, KWWL was always at a fair level, but on H they are always listenable (w/noise) and usually decent \$. Should soon have TV antennas up and will then feed FM also off of it. FM total 60 and 9 states.

Jim Hayes 9 Henry Street Wilkes Barre, Pennsylvania 18702  
Trops in the beginning were great, but towards the end into October mull.  
9/9 2205 WGAY 99.5, 2216 WHCU 97.3. 9/10 0745 WJAC 95.5 in like a local.  
9/12 0817 WHCU, 1900 WFLN 95.7, 1950 WTOA 97.5, WBBN 94.9 @ 2200, 2230 WNCR  
99.9 and @ 2300 WMMS 100.7 latter 3 from Cleveland. 9/13 1015 WPVR 94.7,  
1040 WVSC 97.7. 9/17 0740 WOOD 105.7, 2133 WCLI, 2205 WFRD?, 9/23 2115  
WXKW 104.1. 9/27 1500 WJAC the most common tropo station for some unk reason.

SEPTEMBER,  
1970

# STATISTICS

GLENN HAUSER, EDITOR  
Box 1466  
APO SAN FRANCISCO 96288

## CHANNEL 5 Ms DX RECORDS

CALL	LOCATION	MILES	DXER, AND HIS LOCATION	COMMENTS
WKRG	MOBILE, AL	810	ROGER HANSON, KALAMAZOO, MI	
KPHO	PHOENIX, AZ	750	MORRIS FOOTE, MIDDLETON, ID	
KFSA	FORT SMITH, AR	705	BILL DRAEB, KEWAUNEE, WI	
KTLA	LOS ANGELES, CA	855	DORIS JOHNSON, LONGVIEW, WA	
KPIX	SAN FRANCISCO, CA	575	" " " "	
WTTG	WASHINGTON, DC	1140	GLENN HAUSER, ENID, OK	
WPTV	PALM BEACH, FL	1400	JOHN CODY, MIDDLETOWN, CT	
WAGA	ATLANTA, GA	785	GLENN HAUSER, ENID, OK	
WNBQ	CHICAGO, IL	925	GHISLAIN GIRARD, ARVIDA, QUE.	NOW WMAQ
WOI	AMES, IA	750	RICHARD & WILLIAM NIEMAN, BUFFALO, NY	
KALB	ALEXANDRIA, LA	945	BILL DRAEB, KEWAUNEE, WI	
WHDH	BOSTON, MA	1400	EDWIN SHOREY, DERBY, KS	
KSTP	ST. PAUL, MN	720	MARL KozLOWSKI, BUFALO, NY	
		TIE	RICHARD NIEMAN, BUFFALO, NY	
KCMO	KANSAS CITY, MO	1265	JIM GROVER, CROSSFIELD, ALTA.	
KSD	ST. LOUIS, MO	860	JERRY PULICE, STATEN ISLAND, NY	
KHAS	HASTINGS, NE	1010	MARK KOSLOWSKI, BUFFALO, NY	
WROC	ROCHESTER, NY	1160	GLENN HAUSER, ENID, OK	NOW CH. 8
WRAL	RALEIGH, NC	770	BILL DRAEB, KEWAUNEE, WI	
WLWT	CINCINNATI, OH	745	GLENN HAUSER, ENID, OK	
WEWS	CLEVELAND, OH	925	" " " "	
KOCO	OKLAHOMA CITY, OK	895	FRED McCORMACK, DES LACS, ND	
WCSC	CHARLESTON, SC	940	BRIAN RAWLINGS, MONTREAL, QUE.	
KORN	MITCHELL, SD	1030	NORM ERINT, KENMORE, NY	
WCYB	BRISTOL, TN	615	JOHN CODY, MIDDLETOWN, CT	
WMCT	MEMPHIS, TN	1020	" " " "	
WLAC	NASHVILLE, TN	840	" " " "	
WBAP	FORT WORTH, TX	1305	MORRIS FOOTE, MIDDLETON, ID	
KENS	SAN ANTONIO, TX	1280	STEVE WEINSTEIN, PITTSBURG, PA	
KSL	SALT LAKE CITY, UT	495	JIM HINES, JOES, CO	
KING	SEATTLE, WA	760	ROBERT COOPER, FRESNO, CA	
WFRV	GREEN BAY, WI	755	GLENN HAUSER, ENID, OK	
KFBC	CHEYENNE, WY	615	MORRIS FOOTE, MIDDLETON, ID	

## ADDITIONS & REVISIONS

KOAI	FLAGSTAFF, AZ	CH.2	Es 1370	DAVE JANOWIAK, GREENFIELD, WI	TIE FERDIE
KOAI	FLAGSTAFF, AZ		Ms 785	ROBERT COOPER, OKLAHOMA CITY, OK	NEW
KETS	CONWAY, AR		T 345	ROBERT GRACE, FRANKLIN, TX	NEW
WSB	ATLANTA, GA		Ms 865	GLEN NEAL, SAYRE, OK	COOPER 755
WTWO	TERRE HAUTE, IN		T 355	BILL DRAEB, KEWAUNEE, WI	MERRILL 270
OKSA	LLOYDMINSTER, ALTA		1390	ROGER BROWN, EAST LANSING, MI	EGGERT 1370
XHIA	TORREON, COAH, MEXICO		1145	MARVIN GARBER, LINCOLN, NE	HAUSER 85
WJMN	ESCANABA, MI	CH.3	970	GLEN NEAL, SAYRE, OK	NEW
KYTV	SPRINGFIELD, MO		T 385	" " " "	FOSTER 325
KRTV	GREAT FALLS, MT		2E 1880	JERRY PULICE, STATEN ISLAND, NY	BINGHAM 1225
KYUS	MILES CITY, MT		895	BILL DRAEB, KEWAUNEE, WI	NEW
WWAY	WILMINGTON, NC		1550	FRED McCORMACK, DES LACS, ND	McCORMACK 1315
WREC	MEMPHIS, TN		T 525	MARVIN GARBER, LINCOLN, NE	HAUSER 455
KACB	SAN ANGELO, TX		T 235	ROBERT GRACE, FRANKLIN, TX	DYER 185
WSVA	HARRISONBURG, VA		1315	FRED McCORMACK, DES LACS, ND	HAUSER 1050
CFCL3	KAPUSKASING, ONT.		865	" " " "	NEW
XHBC	MEXICALI, BCN, MEXICO		1290	" " " "	STEVENS 1275

CHAN.	CALL	CITY, STATE/PROV.	PROP.	DXER AND HIS LOCATION	COMMENTS
4	KCRL	RENO, NV	1210	MARVIN GARBER, LINCOLN, NE	HAUSER 1200
	WCIV	CHARLESTON, SC	1210	GLEN NEAL, SAYRE, OK	AIKEN 1055
	WFBC	GREENVILLE, SC	1320	FRED McCORMACK, DES LACS, ND	AIKEN 1250
	KCPX	SALT LAKE CITY, UT	T	FRANK ADEN, BOISE, ID	295 SIMKIN, 200
	CFCR	KAMLOOPS, BC		FRED McCORMACK, DES LACS, ND	870 NEW
	(XEW)	TAMPICO, TAMS, MEXICO	T	625 ROBERT GRACE, FRANKLIN, TX	DYER 490
5	WTTG	WASHINGTON, DC	1255	GLEN NEAL, SAYRE, OK	HAUSER 1145
	WPTV	PALM BEACH, FL	1350	MARVIN GARBER, LINCOLN, NE	DRAEB 1295
	KXGN	GLEN DIVE, MT	1095	HAROLD COOPER, WESTLAND, MI	TIE SMITH 1095
	KNME	ALBUQUERQUE, NM	1300	FRANK MERRILL, MILAM, MI	MEERS 1170
	KTXT	LUBBOCK, TX	1165	HAROLD COOPER, WESTLAND, MI	MULLER 8880
6	WCIX	SOUTH MIAMI, FL	1220	ROBERT COOPER, OKLAHOMA CITY, OK	GOLDMAN, 1190
	KTAL	SHREVEPORT, LA	T	365 GLEN NEAL, SAYRE, OK	HAUSER 330
	KTVM	BUTTE, MT	990	" " " "	NEW
	WECT	WILMINGTON, NC	1210	" " " "	HAUSER 1105
	KFDM	BEAUMONT, TX	1305	FRED McCORMACK, DES LACS, ND	BUFFALO 1210
	K06DF	PAMPA, TX	75	GLEN NEAL, SAYRE, OK	NEW
	WTVR	RICHMOND, VA	1225	" " " "	HAUSER 1115
	QKCK2	WILLOW BUNCH, SASK.	T	200 FRED McCORMACK, DES LACS, ND	NEW
7	WNAC	BOSTON, MA	410	ROBERT SEYBOLD, DUNKIRK, NY	COLLIER, NIEMAN 385
8	KPTS	HUTCHINSON, KS	200	MARVIN GARBER, LINCOLN, NE	COOPER 175
9	WAFB	BATON ROUGE, LA	590	GLEN NEAL, SAYRE, OK	HAUSER 565
10	XHX	MONTERREY, NL, MEXICO	430	ROBERT GRACE, FRANKLIN, TX	DYER 280
11	XHBR	NUEVO LAREDO, TAMS	145	PAT DYER, SAN ANTONIO, TX	NEW
12	KIIN	IOWA CITY, IA	270	MARVIN GARBER, LINCOLN, NE	HEUSMANN 105
13	WGAN	PORTLAND, ME	460	ROBERT SEYBOLD, DUNKIRK, NY	NIEMAN 425
19	WUCM	BAY CITY, MI	235	JOHN PARILLO, GIRARD, OH	TIE HEUSMANN 235
19	WNOK	COLUMBIA, SC	595	JOHN LOMBARDO, IRVINGTON, NJ	VOGT 400
19	WXOW	LA CROSSE, WI	605	ROBERT SEYBOLD, DUNKIRK, NY	NEW
20	WU*TR	UTICA, NY	210	JOEL ROSENBERG, DOWNSVIEW, ONT.	NEW
22	WKPI	PIKEVILLE, KY	550	BILL DRAEB, KEWAUNEE, WI	SEYBOLD 385
25	WHAG	HAGERSTOWN, MD	60	LARRY VOGT, SPRINGFIELD, VA	NEW
27	WSMW	WORCESTER, MA	380	ROBERT SEYBOLD, DUNKIRK, NY	DELORENZO 70
28	KSEL	LUBBOCK, TX	360	ROBERT GRACE, FRANKLIN, TX	COOPER 280
29	WKSO	SOMERSET, KY	530	BILL DRAEB, KEWAUNEE, WY	SEYBOLD 465
	WMAA	JACKSON, MS	475	ROBERT COOPER, OKLAHOMA CITY, OK	NEW
34	KKBC	LUBBOCK, TX	365	ROBERT GRACE, FRANKLIN, TX	COOPER, 285
	KFIZ	FOND DU LAC, WI	465	ROBERT SEYBOLD, DUNKIRK, NY	GRAVELLE 365
35	WKHA	HAZARD, KY	545	BILL DRAEB, KEWAUNEE, WI	POMEROY 95
	WETK	BURLINGTON, VT	130	ROGER CARRIERE, BUCKINGHAM, QUE	NEW
36	WENY	SYRACUSE, NY	170	JOEL ROSENBERG, DOWNSVIEW, ONT	TIE LEWIS 170
40	KDUB	DUBUQUE, IA	205	BILL DRAEB, KEWAUNEE, WI	SEYBOLD 405
57	WKYH	HAZARD, KY	90	DAVE POMEROY, LEXINGTON, KY	NEW
62	WBLG	LEXINGTON, KY	470	BILL DRAEB, KEWAUNEE, WI	NEW
70	K70EK	ARKANSAS CITY, KS	110	ROBERT COOPER, OKLAHOMA CITY, OK	NEW
78	W78AE	SHEBOYGAN, WI	50	DAVE JANOWIAK, GREENFIELD, WI	DRAEB 45

FM. RANK LISTING..

(DXER AND HIS LOCATION)	(STNS)	(STATES)	(PROV.)	(COUNTRIES)	(AS OF DATE)
ROBERT COOPER, OKLAHOMA CITY, OK	600	43+DC	4	4	28 JULY
BILL BENS, CINCINNATI, OH	524	29+DC	4	3	7 JULY
DENNIS SMITH, WASCO, CA	170	7	0	0	8 JULY
JOHN SHANNON, KITTANNING, PA	153	16+DC	1	4	6 JULY
FRED NORDQUIST, SYRACUSE, NY	140	19+DC	2	2	19 JULY
FRANK WHEELER, ERIE, PA	75	3	1	2	27 FEBR.
DENNIS SMITH, SANTA BARBARA, CA	67	1	0	2	8 JULY
GLENN HAUSER, KORAT, THAILAND	8	0	0	4	15 AUG.

\*\*THESE STENCILS TYPED AT HQ DUE TO LOSS OF STENCILS IN THE USPO OVERSEAS MAIL SHIPMENT. GLENN



EDITOR:  
Glenn Hauser

Addresses:  
Box 1466  
APO San Francisco 96288

or

CMR Box 1466  
Korat Royal Thai AFB  
Nakhon Rajasima  
Thailand

NOVEMBER 1970

Excellent equatorial equinoctial conditions continued into October hilited by TV from Saudi Arabia once; unidentified Soviet and Chinese stations; Japanese audio; almost daily reception from India and Pakistan on TV and from Singapore on FM! But first, a verification note:

A very nice 4-page letter has arrived from Benjamin T. Gamboa, DU1BG, the Asst. TV Engineering Dir. of ABS-CBN TV in Manila. Besides verifying last summer's reception of DZAQ-A2 and DZXL-A4, Mr. Gamboa includes a brief history of Philippine TV, and mentions that they have received two previous reports from Thailand (of DZAQ when on ch A3): one from Bangkok and one from Chiangmai. "Your interest in VHF propagation is unique and beneficial especially to broadcasters and communications engineers." ABS-CBN stations:

Call	Ch. A	Location	Power Input	Ant. Gain	Tower Ht.	GMT Schedule
DZAQ-TV	2	Quezon City (Manila)	25 kW	x8	650' ASL	2130-1600
DZQL-TV	3	Mt. Banoy, Batangas	0.5 kW	x2	3500' ASL	relay DZAQ
DYCB-TV	3	Cebu City	10 kW	x2	200' ASL	0000-1600
DZXL-TV	4	Quezon City (Manila)	25 kW	x8	650' ASL	0100-1600
DYXL-TV	4	Bacolod City	5 kW	x2	250' ASL	0100-1600
DXAW-TV	4	Davao City	10 kW	x2	250' ASL	0000-1600
DZRI-TV	10	Mt. Santo Tomas, Baguio	2 kW	x2	7500' ASL	relay DZAQ

DX by date; times are TST. 22 Sept. 1233, Russian 2-way, numbers on 42735 et al. 1240 KBS-44300. 1655, AFKN-A2 with CBC "Wonderful World of the World," break at 1700, Kraft promo, pollution PSA, etc., out by 1715. Had to work after 1800 on this Tuesday.

23 Sept. 1252, Russian 2-wat on 42710; 1540, strong video ORM on ch A2, Eng. audio: likely Manila or Seoul. 1548, strong guzz-49750. 1602, A2 video very strong during newscast; out by 1710; also a hint of video on ch A3, maybe KBS or ABS-CBN lowpower relay. 2025, ch E4 Delhi, black and silence, 2028 tone and test pattern, 2029 AIR music, anmts; no ORM. 2049, Soviet FM around 65300; none listed, with Russian drama; out around 2200 with no IDs.

24 Sept. 1655, CCI on ch A2 until 1755. 1720, Soviet homeservice Mayak program on 64490 and 65250, apx, until 1755. 1815, video heard on 64250: Australian ch 2 is the only one on this freq, but too weak to see or hear audio on 69750. 2005, E4 heavy video CCI; but Delhi dominating after 2029; not gone until 2400. 2033, Chinese music and talk like heard on M and SW in homeservice, apx 65300 kHz, then off. FM, TV audio (wrong freq), harmonic? 2115, drama on A2; broken audio indicated F-scatter, not F2, likely AFKN. 2300, tropo improved HST-A4 relays between here and Bangkok: Khao Yai-A8 and Krong Fai-A10, Japanese play. 2315, HSA-A7 in much better than usual direct from Bangkok.

25 Sept. 1128, Es from Manila: DZAQ-A2 singer; DZTM-A5 film; soon gone. FM checked at 11-33 and to my surprise found R. Singapore Chinese pgm on 95.8, very weak and broken, parallel SW 9635 kHz. Also signs of British Forces on 88.9 at 1150, tone, very weak and broken. Am not sure of propagation (925 mi) since 95.8 is audible most days around noon, but not in early morning or evening! Tropo scatter? 1930, video hash just below ch A3, maybe DX audio. 1958, AFKN-A2 news promo, ID, news, broken audio indicating F-scatter. 1956, E4 only one station, likely Karachi, but Delhi carrier on after 2000. By 2025, Delhi alone, almost snowfree but fuzzy. Out by 2200 after lots of recording and photoing. 2045, unID language, maybe 2-way, apx 64970 kHz, via VCI on TV set. 2230, good audio with VCI on ch

(25 Sept) A11 for programming of HSA-A7: evidently an unknown relay station.

26 Sept. R. Singapore-95.8 again at 1010, music and talk, scatter reception. 1100, DZAQ-A2 and DZTM-A5 by Es from Manila briefly. 2035, E4 vacant, but at 2045 Delhi appeared: good at 2152 when recorded. Also at 2035 very strong broken video and audio in Chinese; latter seemed on 63750 rather than 64250 as listed. Video was on 57750 kHz, used only by China. Pgm ended at 2100, followed by 17 minutes of TP, gray scale superimposed with narrow horizontal lines. Several photos.

27 Sept. 1210, usual broken signal from Singapore-95.8. TV dead that evening!

28 Sept. Singapore scatter better than usual 1151, with all Singapore outlets heard: Malay on 94.2, English on 92.4, Chinese on 95.8, Tamil on 96.8. Also BFBS-88.9, not 89.1 as in some lists. 1246 recheck: all fading in strong like a typical Es opening. 92.4 was recorded while at work: came in well at 1255-1320 and 1355-1405 during news and request programs. Recorded in stereo but transmission mono at this hour. 1418, TP and tone on ch E3, very likely Johore Bahru, Malaysia, which is near Singapore; photo but poor. 1510 recheck, still in, but gone by 1730 sked sign on. 2025, usual E4 f-scat from Delhi; unusual English anmts at 2059 and 2303. 2332, off after anmt and anthem. 2145, weak skip on ch A2, 2215 talk show in English, mentioning Philippine-type names.

29 Sept. 1035, R. Singapore-95.8 as usual; lasted a couple hours but never improved.

30 Sept. 2035, usual Delhi-E4; after 2055 QRM from Karachi; 2140 ads from Karachi; after 2200 fading, but at 2310 recheck, Delhi back with Eng. documentary; 2332 India anthem, off.

1 Oct. Singapore-95.8 as usual at 1253. 1500, strong video buzz on 49750: 1630, weak CCI but good sync on ch A2, AFKN/DZAQ likely. 2110, E4 station fade in later than usual; after 2145, CCI, but all gone by 2215. Never any indication of anything besides Delhi, Karachi.

2 Oct. 1115, Singapore-95.8, weak and broken. 2033, Saudi Arabia for the first time on TV from Aramco-Dharan on ch A2. TP but video quite broken; music audio quite clear at times, so F2 skip, at about 3400 miles, my best TVDX distance yet. 2055, ID slide, photoed with poor results. 2058, anthem, sign on in English, program summary, into golfing in Belgium program. Out by 2120. E4 stations also in at 2033, but I virtually ignored them!

3 Oct. 2005, Karachi dominating Delhi for a change, ch E4, at least on audio...2059 ads, 2100 news; 2210, Nasser eulogy; many recordings including India s/off at 2330. Huge string of ads from Karachi/Rawalpindi followed, some in English (Philips, etc.), some in Urdu. Still on and in past 2400 with film drama but audio almost gone by 2425 (latest ever seen). Got a photo of some wiggly lines on a slide. Also at 2035, some video, and an audio whine on China ch. 2 (57.75/64.25 MHz). I'm glad it's different from Russian ch 2!

4, 5, 6 October: nothing! A welcome respite.

7 Oct. 1208, Singapore-95.8 back as usual; 1210, KBS-44300 strong: 1250 KBS also on 45885 and at 1510 on 49300. 1450, video buzz on 49750. 1539, R. Peking English on 46305=3x 15435. 1715 concert music on apx 65250, likely Russian FM Mayak program as before. 2005, video hash heard on 57.75 MHz, the China-ch 2 frequency; also a whine on 58.25 I can't explain, but it always seems to accompany China reception. By 2030 video was fair and I took some shots, including slides just before leaving the air at 2047. after which a weaker signal was still on. 2010, E4 CCI, strong by 2030; both Delhi and Karachi in past 2300; Delhi off at 2328, leaving Pakistan weak and alone.

8 Oct. 1435, drama in Russian on 65250; also some video on ch A2, out by 1515. 1443, talk in Japanese on about 64770 kHz; 1500, time sig and NHK news. First time Japanese heard on TV bands; maybe an FM link for them. 1445, buxx-49750. 1735, weird music mixing with classical on 65250, evidently a few kHz apart as VCI adjustment was critical. 1748, Russ anmt, slightly above the other. Soviet classics cut on and off: xmtr troubles. 1759, Interval signal for Mayak, plus another IS, perhaps identifiable as a specific station; 1832 drama in non-Russian language. 1753, weak video on ch R2 (59.25 MHz), sync OK. 1930, ch China-2, usual outsync video with audio whine; off 2035. 2005, E4 strong A & V CCI hohum.

9 Oct. 2100, late fade in ch E4, one dominant but fading down after 2300; 2330, one signed off; 2350 other faded out after some photos.

10 Oct. 2035, strong CCI on ch E4, still at 2230 recheck.

11 Oct. 1250, Singapore FM on 95.8, Chinese talk. But no TVDX this day, matching well the predicted "disturbed" dates in CQ Magazine. Likewise 12 Oct and 13 Oct up to 1800.

13 Oct. Singapore-95.8 at 1105 as usual, but MS bursts from Orionids at 1439 and 1451 improving the signal, and at 1453 a good 2-second burst. My first identifiable MS here. If VHF DX declines in the next month, as I expect, there will be room next time for some feature material on Vietnam TV, more QSLs, etc. ...until the next, 73 de Glenn



# EASTERN TV

Dave Pomeroy  
 KCSD-TV  
 1211 McGee St.  
 Kansas City, Mo. 64106

Deadline: December 4\*

Trops continues to be the word for Eastern DXer's with only 3 days of skip reported during the last half of September and the first half of October. September 13 to 18 and October 7 to 11 proved to be most productive tropes wise. Best date was September 17 with three reports of Tropes reception. \*Please note deadline date; I will be attending NAEB Convention in Washington and will not produce a December column. Deadline is for January VUD.

Joe Kureth, P.O. Box 572, Southern Pines, North Carolina 28387  
 8-31 Tr 0154 WAGA-5 Atlanta, GA 9-17 Tr 0615 WMAZ-13 Macon, GA  
 9-10 Tr 2315 WFGA-12 Jacksonville Gw 0745 WEBA-14 Barnwell, SC  
 9-14 0745 WJTV-12 Jackson, MS (660) Tr 2330 WJCL-22 Savannah, GA  
 0800 WRDW-12 Augusta, GA 9-23 0800 WCVE-23 Richmond, VA  
 Total now 118.

Mitch Donock, 2921 Brinkley Rd., Oxon Hill, Maryland 20031  
 7-6 Es 1920 KDAL-3 Duluth, MN 8-3 Es 1900 WPBT-2 Miami, FL  
 1930 CKPR-2 Thunderbay 8-12 Tr 0100 WSVA-3 Harrisonburg  
 7-7 1530 KDAL-3 Duluth, MN Ms 0145 UNID-2 to 4 (to 0300)  
 7-9 Tr 2210 WCAU-10 Philadelphia Es 1300 KQTV-2 St. Joseph, MO  
 7-11 Es 1130 KCKT-2 Great Bend, KS (1200) 1320 KGLO-3 Mason City, IA  
 7-13 1230 KPRC-2 Houston, TX (1225) 1321 KDLO-3 Garden City  
 7-15 1910 KTVO-3 Ottumwa, IA 8-14 1200 KATC-3 Lafayette, LA  
 1923 KQTV-2 St. Joseph, MO 8-19 1600 KQTV-2 St. Joseph, MO  
 1928 KDLO-3 Garden City, SD 1725 KTCA-2 Minneapolis  
 1930 KTCA-2 Minneapolis (960) 1900 KYTV-3 Springfield  
 7-16 1600 WDCN-2 Nashville, TN (575) 1907 KFDX-3 Wichita Falls  
 1600 KTBS-3 Shreveport, LA 1915 KARD-3 Wichita, KS  
 2307 KATC-3 Lafayette, LA 8-26 Tr 0915 WTAR-3 Norfolk, VA  
 2318 KBTX-3 Bryan, TX 0915 WAVY-10 Norfolk, VA  
 7-29 Tr 2200 WGAL-8 Lancaster, PA 9-14 2320 WAVY-10 Norfolk, VA  
 8-3 Es 1600 WESH-2 Daytona Beach 2321 WVEC-13 Norfolk, VA  
 1730 WEDU-3 Tampa, FL (Total now 49 stations)

Mitch reports that skip was up to channel 6 on 8-19 with audio on channel 5 over-riding local WTTG-5.

Steve Howard, 3925 Chickamauga Ave., Chattanooga, Tennessee 37406  
 7-1 Tr 0100 WAVE-3 Louisville 8-1 Tr 0105 WBTV-3 Charlotte, NC  
 0110 WSIL-3 Harrisburg, IL 0130 WSB-2 Atlanta, GA  
 7-15 0140 WBTV-3 Charlotte, NC 0140 WAGA-5 Atlanta (120)  
 7-28 0100 WAVE-3 (225 miles) 0115 WBRC-6 Birm. (150)  
 0115 UNID-4 0120 WQXI-11 Atlanta, GA  
 8-1 0105 WCYB-5 Bristol, VA (Total now 13 stations)

The Eastern TV-DX column includes DXer's in the following states:

- |             |               |                |                |
|-------------|---------------|----------------|----------------|
| ALABAMA     | KENTUCKY      | MISSISSIPPI    | RHODE ISLAND   |
| CONNECTICUT | LOUISIANA     | NEW HAMPSHIRE  | SOUTH CAROLINA |
| DELAWARE    | MAINE         | NEW JERSEY     | TENNESSEE      |
| FLORIDA     | MARYLAND      | NEW YORK       | VIRGINIA       |
| GEORGIA     | MASSACHUSETTS | NORTH CAROLINA | VERMONT        |
|             |               |                | WEST VIRGINIA  |

Bob Seybold, Bennett Road, Dunkirk, New York

8-15 to 8-30: "Good to excellent tropes in this period with peak on August 23-28; VHF tropes to 400 miles on most days with such as:"

WKZO-3 WMAR-2 WBBM-2 WSAZ-3 KYW-3 WRC-4 WTTG-5  
 WMAQ-5 WDTV-5 WLWT-5 WTVN-6 WFIL-6 WFBM-6 WJIM-6  
 WGAL-8 WOOD-8 WCHS-8 WCPO-9 WCAU-10 WBNS-10 WILX-10  
 WJRT-12 WJZ-13 WHTN-13 WZZM-13 WLWI-13

"UHF tropes to 400 miles on many days with these frequently logged:"

WANE-15 WNDU-16 WHIZ-18 WJAN-17 WUCM-19 WUTR-20 WNEP-16  
 WTAP-15 WPTA-21 WSBT-22 WDAU-22 WDHO-24 WKNX-25 WSJV-28  
 WGTE-30 WBRE-28 WJBA-34 WTVS-56 WKBD-50 WXON-62 WINR-40  
 WENY-36 WSYE-18 WBGU-70

8-23 to 8-28: "Excellent tropes opening with these logged: WLYH-15

WPHL-17 WATR-20 WWLP-22 WDCA-20 WETA-26 WMET-24 WMPB-67  
WTAF-29 WHP-21 WTPA-27 WITF-33 WHNB-30 WLVT-39 WKBS-48  
WMUL-33 WHYY-12 WCMC-40 WNJU-47 WXTV-41 WEDW-49 WEKW-52  
WRLP-32 WKLE-46 WKPI-22 WKZT-23 Elizabethtown, Kentucky

WKSO-29 WKMR-38 WCET-48 WKTR-16 WKEF-22 WKYT-27 WLEX-18  
 WXIX-19 WLKY-32 WIRL-19 WLFI-18 WEEK-25 WMBD-31 WAND-17  
 WJJY-14 WIMA-35 WKJG-33 WICD-15 WXEX-8 WWBT-12 WTVR-6  
 WBAL-11 WTOP-9 WMAL-7 WDBJ-7

In this period, VHF and UHF tropes from Philadelphia, Baltimore, Washington, Harrisburg, Lancaster best ever seen with Kentucky, West Virginia, Ohio, Illinois, and Indiana stations very good.

Bob reports skip and tropes down since September 1. However, there have been occasional openings from Indiana, Michigan, Illinois, West Virginia, Kentucky, and Pennsylvania up to 400 miles on VHF and UHF. E-skip was noted between 8-10 and 8-15 with such as the following:

KQTV-2 GBWT-3 WKY-4 KCMO-5 KVOO-2 KCKT-2 KETS-2  
 KARD-3 KOCO-5 WBAP-5 and others from Texas, Oklahoma, Kansas, Missouri, Nebraska, and the Dakotas. Low-band loaded with some FM also.

(Bob reports that 10 new stations--indicated by underlining--bring his total to 485. Guess you'll be over the magic 500 mark before too long, huh? dp)

Jerry Pulice, 143 Gibson Avenue, Staten Island, New York 10306

8-21 Tr WAVY-10(285) WVEC-13(295) 9-23 Tr WMET-24 WFAN-14 WCVE-23

8-26 WPRI-12 WJAR-10 (160) WVEC-13 WJZ-13 WWBT-12

WJZ-13(160) WGAL-8(125) 9-24 WHDH-5 WTEV-6 WJAR-10(160)

9-13 WLYH-15 Lebanon, PA(125) 0535 WBZ-4, Boston, MA

WNEP-16 WDAU-22 WBRE-28 10-7 WWBT-12 WJZ-13 WVEC-13

WFBG-10 Altoona, PA(220) WGAL-8 WDAU-22 WXEX-8 WNHC-8

9-14 Es UNID-2 to 6 WSBA-43 WAVY-10 WBOC-16 WHRO-15

9-15 Tr WTOP-9 WAVY-10 WBAL-11 WYAH-27 WCMC-40 Atlantic City, NJ

WNHC-8 WGAL-8 WJZ-13 10-8 WITN-7 WWBT-12 WTVR-6

9-17 WIIC-11 WFBG-10 WNCT-9 WVEC-13 WJZ-13 WBOC-16

0615 WJW-8 Cleveland, OH WCUW-57 WCUE-23 WETA-26 WCMC-40

WTRF-7 over WABC-7 2133 8,10,12,13,15,27-VA

0745 WSPD-13 Toledo, OH 11,13,16-MD

9-18 0605 WRGB-6 WWBT-12(275) 49,53-CT

9-23 WHEN-5 WWBT-12 WMAL-7 10-9 WITN-7 WGAL-8 WAVY-10

WAVY-10 WVEC-13 WCUW-57 WSBA-43 WTTG-5 WWBT-12 WVEC-13

0700 WSBA-43 York, PA 10-11 0622 WAVY-10 WXEX-8

WDCA-20 WBOC-16 WCMC-40 WXEX-8 (Total now 154 in 33 states & DC)  
WETA-26 WWBT-12 WCUE-8 WMPB-67

Roy Barstow, 247 Fairmount Ave., Hyde Park, Massachusetts 02136

6-7	Es	1130	WBRZ-2	Baton Rouge	8-13	Tr	2200	WCBS-2	New York, NY
		1200	<u>KMTV-3</u>	Omaha, NB				to WTIC-3	Hartford, CN
6-10		1100	KTVO-3	Ottumwa, IA			0200	WOR-9	New York, NY
		1200	KGLO-3	Mason City, IA				WPIX-11	New York, NY
6-19		1130	WSB-2	Atlanta, GA				WGAN-13	Portland, ME
6-22		1100	UNID-2	PTV				WBOC-16	Salisbury, MD
7-4		1230	<u>WDCN-2</u>	Nashville, TN				WHCT-18	Hartford, CN
		1300	<u>KQTV-2</u>	St. Joseph, MO				WCDC-19	Adams, MA
7-9	Tr	2345	WXTV-41	Patterson, NJ				WATR-20	Waterbury, CN
			WNJU-47	Newark, NJ				WWLP-22	Springfield
		2400	WGAN-13	Portland, ME				WEDH-24	Hartford, CN
			WMTW-8	Portland, ME				WHNB-30	New Britian
		0110	WTEN-10	Albany, NY				<u>WNYC-31</u>	New York, NY
7-11	Es	1100	KTVI-2	St. Louis, MO				<u>WRLP-32</u>	Greenfield, MA
7-16		1430	<u>WREC-3</u>	Memphis, TN				WHYN-46	Springfield
		1500	<u>WMT-2</u>	Cedar Rapids				WXTV-41	Patterson, NJ
7-20		1200	WTHS-2	Miami, FL				WNJU-47	Newark, NJ
7-23	Tr	1130	WKTV-2	Utica, NY				WEDW-49	Bridgeport, CN
8-11	Es	1230	WREC-3	Memphis, TN				WEDN-53	Norwich, CN

(Not too bad for a 1968 Zenith portable using a coat hanger for VHF and a loop for UHF! Roy's total is now 97. dp)

Ronald J. LeBlanc, 2524 Arizona Dr., Marrero, Louisiana 70072

10-1	Tr	1930	WDIQ-2	Dozier, AL	2435	Tr	WJTV-12	Jackson, MS
10-3		2350	WJHG-7	Panama City	2445		KPLC-7	Lake Charles, LA
		2415	KZTV-10	Corpus Christi, TX			KTBS-3	Shreveport, LA
		2445	KSLA-12	Shreveport	0105		<u>WAAY-31</u>	Huntsville (375)
		0100	KTBS-3	(289 miles)	0110		<u>KMBC-9</u>	Kansas City (686)
10-9		1820	WDIQ-2	Dozier, AL	0115		KTVT-11	Ft. Worth, TX (485)
		1900	WEAR-3	Pensacola	0116		KBMT-12	Beaumont, TX (244)
10-10		1425	KTHV-11	Little Rock	0117		<u>KMTC-27</u>	Springfield, MO
		1600	WMAA-29	Jackson (170)	0125		<u>KHFI-42</u>	Austin, TX (460)
		1605	KLNI-15	Lafayette, LA	0135		<u>WLAC-5</u>	Nashville, TN (442)
		1730	KHOU-11	Houston, TX	0137		<u>KTUL-8</u>	Tulsa, OK (555)
		1830	WHNT-19	Huntsville	0140		WFAA-8	Dallas, TX
		1900	<u>WAPT-16</u>	Jackson, MS	0155		WBRC-6	Birmingham, AL
		1930	<u>WCOV-20</u>	Montgomery	0210		WBAP-5	Ft. Worth, TX
		2100	<u>WBMG-42</u>	Birmingham	0225		<u>WREC-3</u>	Memphis, TN (366)
		2200	<u>KHTV-39</u>	Houston (321)	0245		<u>WFBI-6</u>	Indianapolis, IN
		2350	<u>WMSL-48</u>	Huntsville	0138		<u>KPLR-11</u>	St. Louis, Mo (610)
		2430	<u>KATV-7</u>	Little Rock				

The following were also seen regularly during this period: WEAR-3, WALA-10, KLFY-10, KATC-3, WBRZ-2, WAFB-9, WLOX-13, KALB-5, WKRG-5, WLBT-3, WDAM-7, and WTOK-11. Ron reports 10-10 as the best tropes opening in 3 years of DX'ing--40 stations in 13 hours. Eleven stations bring Ron's total to 137 with one new state--Indiana. (Glad to see you get KC on tropes; wish I could get Louisiana that way. dp)

Fred Nordquist, 302 Sandra Lane, N. Syracuse, New York 13212

9-16	Tr	2150	<u>WUAB-43</u>	Lorain, OH	9-16	Tr	2300	KDKA-2	Pittsburgh
		2157	UNID-54,	21:35, 33, 27, 18			2325	WQED-13	Pittsburgh
		2218	<u>WTRF-7</u>	Wheeling, WV	9-17		0102	WJAC-6	Johnstown, PA
		2235	<u>WIIC-11</u>	Pittsburgh			0117	WTAE-4	Pittsburgh
		2223	WJW-8	Cleveland, OH					(Total now 98. Equipt. includes
		2257	WFPG-10	Altoona, PA			RCA CTC-38	'69	24-element LP ant.
		2359	WBOY-12	Clarksburg, WV	32'		AGL w/CDR rotor.		dp)



THIS IS A PAID ADVERTISEMENT FROM CADCC - The TV People

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SEPTEMBER 19TH A CADCC UHF-DXC-2 UHF CONVERTER SYSTEM PUSHED THE UHF TV DX

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\* The CADCC UHF-DXC-2 is a package. It consists of a specially modified Blonder Tongue BTX-11A UHF converter (that feeds into your TV set on channels 5 or 6 - which ever is vacant in your area of local signals) and a (patent pending) Interdigital Series Channel 5 (or 6) post amplifier with built-in Interdigital Series bandpass filter and its own power supply.

\* - You send us your BTX-11A (no other models please) to convert, and \$65.00 and we will return to you the complete UHF-DXC-2 system ready to plug in and operate.

\* - Or, send us \$99.00 and we will supply a brand new BTX-11A (converted) with a UHF-DXC-2.)

PLEASE SPECIFY WHETHER YOU WILL USE CHANNEL 5 OR 6!

\*\*\*\*\*  
\* In September UHF-DXC-2 units were shipped to DX'ers Bishop (Florida), \*  
\* Clark (Florida), Grant (Mass.), Howington (Ohio) and Brown (Michigan). \*  
\* Now watch their totals climb and the UHF records fall! \*  
\*\*\*\*\*

CADCC NOVEMBER SPECIAL BUY

We have purchased eight CONRAC AV-12E 12 channel (VHF) receivers for re-sale. This is the super receiver deck that DX'ers Brown (Michigan), Goldman (Illinois), Cooper (Oklahoma) and others swear by. These are brand new with manuals, never in service. The normal price with the 12 channel super tuner is over \$400.00. CUR PRICE - while they last ...

\$250.00 EACH - FCB Ckc.

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