

# VHF-UHF DIGEST

WITH ONE THROWN SWITCH WE MOVED THE "CITY LIMITS" OF CHANNEL 18 TO COVER OVER 665,123 TOTAL HOMES, INCREASING OUR POPULATION COVERAGE BY 58.9%!

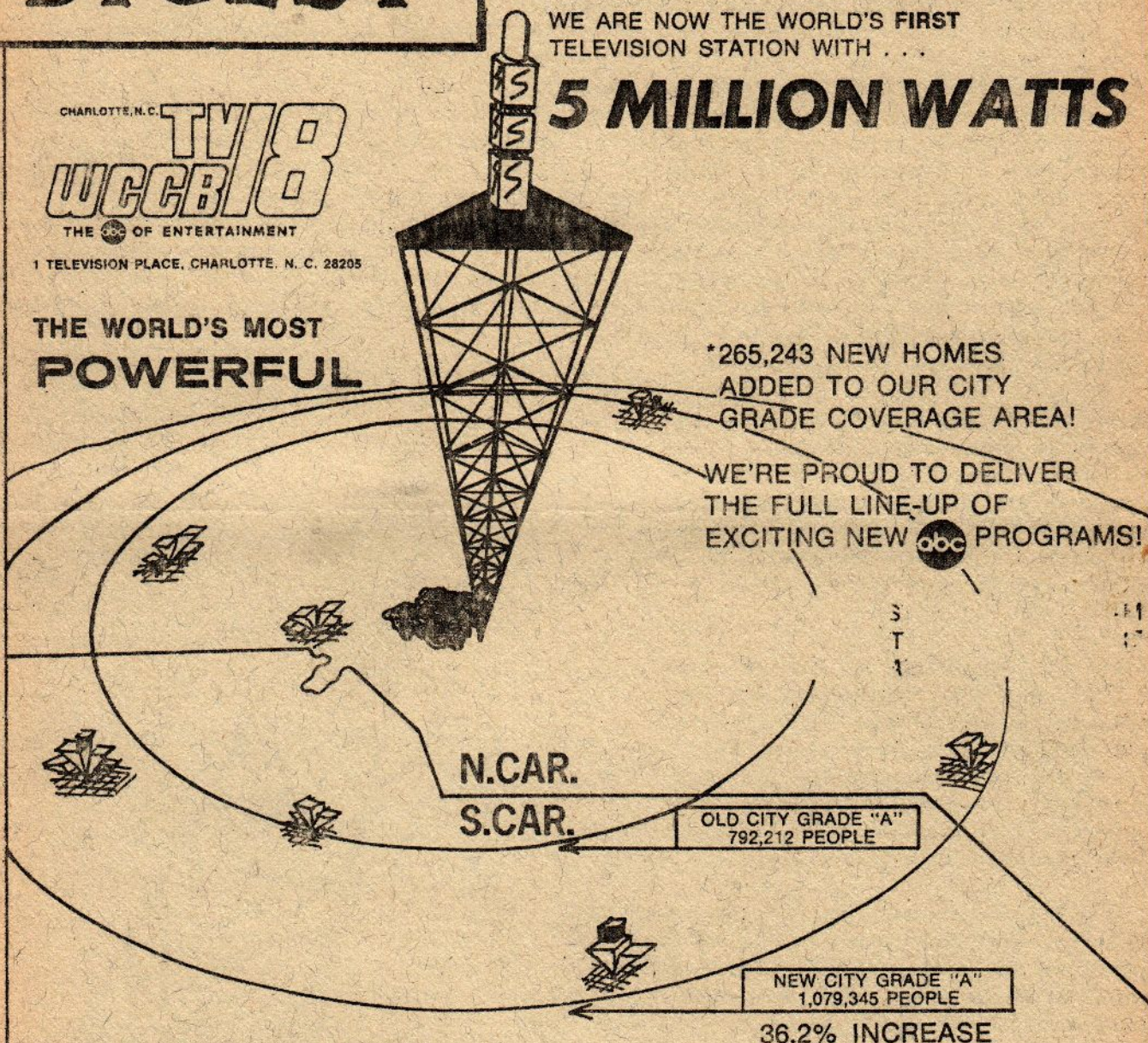
WE ARE NOW THE WORLD'S FIRST  
TELEVISION STATION WITH . . .

## 5 MILLION WATTS

CHARLOTTE, N.C. **TV 18**  
**WCCB/18**  
THE **abc** OF ENTERTAINMENT

1 TELEVISION PLACE, CHARLOTTE, N. C. 28205

THE WORLD'S MOST  
**POWERFUL**



\*ESTIMATED FROM 1960 CENSUS

CHARLOTTE, N.C.

**TV 18**  
**WCCB/18**

THE **abc** OF ENTERTAINMENT

ANOTHER  
SERVICE  
OF  
**BAHAKE**  
BROADCASTING

WABG TV-AM  
Greenwood, Miss.  
WKAB TV 32  
Montgomery, Ala.  
WOLO TV 25  
Columbia, S. C.  
WBBJ TV 7  
Jackson, Tenn.

WDOD AM-FM  
Chattanooga, Tenn.

WWOD AM-FM  
Lynchburg, Va.  
KXEL AM-FM  
Waterloo, Iowa  
WLBK AM-FM  
Bowling Green, Ky.  
WKIN AM  
Kingsport, Tenn.



THE DOMINANCE OF WHITE PAPER THIS MONTH MAY SURPRISE SOME MEMBERS WHO HAVE NOTICED THAT WE NEVER USE WHITE PAPER AT ALL, AS A RULE. OUR SUPPLIER SEEMED TO BE OVERWHELMED BY OUR LARGER THAN USUAL ORDER FOR COLORED PAPER, AND AS OF PRESS TIME THE ORDER HAD NOT BEEN RECEIVED. SO WE HAD TO SCROUNGE AROUND FOR WHATEVER COULD BE OBTAINED TO SUPPLEMENT THE 6 PACKS OF OLD PAPER WE STILL HAD ON HAND. ON A SATURDAY AFTERNOON, SCROUNGING IS VERY LIMITED BECAUSE MOST STORES ARE CLOSED. THE ONE STORE WE FOUND OPEN ONLY HAD 4 PACKS LEFT, SO IT'LL HAVE TO DO. THE NEAR SOUTH SIDE OF MILWAUKEE IS RATHER DEVOID OF OFFICE SUPPLY STORES, ESPECIALLY FOR SOMEONE WITHOUT A CAR WHO CAN'T GO ANY GREAT DISTANCE CONVENIENTLY. BY THE WAY, THE REASON WE DON'T USE WHITE PAPER LIKE MOST CLUBS IS THAT THE SET-OFF IS WORSE, AND SHOW THRU IS ALSO WORSE WITH WHITE. BACKWARDS IMPRESSIONS TRANSFERRED FROM THE ROLLER TO THE BACK-SIDE OF THE PAPER IS CALLED SET-OFF, AND IS SOMEWHAT WORSE WITH THIS TYPE OF Mimeo THAN WITH OTHER MACHINES SUCH AS GESTETNER OR A. B. DICK, WHICH ARE DRUM MIMeos AS OPPOSED TO OUR SILK-SCREEN Mimeo. WE STARTED WITH A SILK-SCREEN MACHINE ON THE ADVICE OF A DEALER, AND STUCK WITH IT A YEAR AGO WHEN WE PURCHASED A DIFFERENT MACHINE. FROM THE EXPERIENCE OF OTHER CLUBS WITH CLOSED DRUM TYPES, IT APPEARS WE MAY HAVE BEEN MISLED, BUT NOT SERIOUSLY. CHANGING PAPER TYPES SEEMS TO SOLVE THE SITUATION, AFTER LONG TRIAL AND ERROR WITH MANY DIFFERENT TYPES OF PAPER, INK, AND WHATEVER ELSE WE COULD FIND TO SUBSTITUTE IN HOPES OF CLEARING UP THE SET-OFF, (WHICH HAS BEEN SEVERAL TIMES AS OLD-TIMERS WILL REMEMBER.)

ANOTHER MEMBER HAS JOINED THE CLUB FROM FINLAND. IF THE TREND CONTINUES, FINLAND MAY REPLACE CANADA AS THE SECOND COUNTRY OF THE WTFDA IN TOTAL MEMBERS. SCANDINAVIA HAS ALSO DOMINATED THE RADIO DXING FIELDS FOR MANY YEARS IN EUROPE, AND WAS REPRESENTED IN THE AIPA AS WELL.

VOTING ON THE ANNUAL CONVENTION SITE FOR ANARC HAS BEEN CONCLUDED, AND INDIANAPOLIS IS THE WINNER, JULY 23-25TH. HOSTS WILL BE SERGE NEUMANN AND KRIS LEMNA, AND THE GET-TOGETHER WILL BE HELD AT THE HOLIDAY INN-AIRPORT. FURTHER INFO WILL BE PUBLISHED IN FUTURE ISSUES OF THE VUD AS THE INFORMATION BECOMES AVAILABLE, TO US.

THE MAILBAG COLUMN WILL BE SEEKING A NEW EDITOR WITHIN THE NEXT FEW MONTHS. IF YOU HAVE AN ABILITY TO WRITE, ASSEMBLE LOOSE REPORTS INTO A COLUMN OF THAT TYPE, AND HAVE THE TIME, DROP A NOTE TO HQ. THE PRESENT EDITOR, GARY A. OLSON WISHES TO MAKE A SMOOTH TRANSITION OUT OF THE COLUMN AS HE ASSUMES OTHER RESPONSIBILITIES FOR THE CLUB; IN THE COMING MONTHS OF 1971.

BACK-ISSUES CURRENTLY AVAILABLE ARE: DEC. 69, FEB-APR. 70, AND AUGUST, 1970 TO DATE. PRICES ARE STILL THE SAME BUT HURRY AS WE MAY RAISE THEM WHEN THE POSTAGE RATES GO UP, AND SOME ISSUES ARE ALSO IN VERY SHORT SUPPLY, (MEMBERSHIP HAS BEEN FAST INCREASING IN 1971 AND WE HOPE TO HIT 200 THIS SUMMER IF THE TREND CONTINUES!!!)

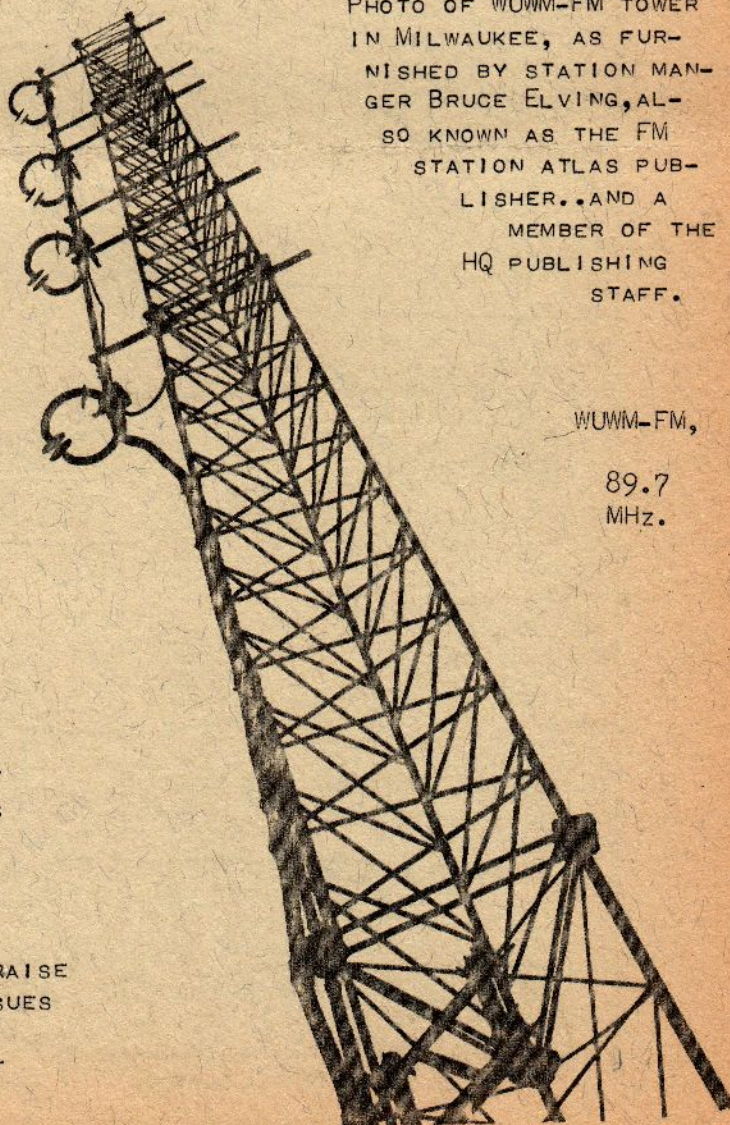


PHOTO OF WUWM-FM TOWER IN MILWAUKEE, AS FURNISHED BY STATION MANAGER BRUCE ELVING, ALSO KNOWN AS THE FM STATION ATLAS PUBLISHER..AND A MEMBER OF THE HQ PUBLISHING STAFF.

WUWM-FM,

89.7  
MHz.



# TV FCC NEWS

GARY A. GLENN  
1200 N. 17th St.  
BIRMINGHAM, ALA. 35203-60015

## STATIONS OPERATING (AS OF MARCH 1, 1971)

UHF ETV	11
VHF Com	185
VHF ETV	51
VHF Com	8c

Total Authorized Stations On The Air 893

### New Stations Reported On The Air:

- WURD (TV) ch. 40, Indianapolis, Ind.- reported on in March
- \*WJMT-TV, ch. 52, Trenton, NJ, 1391.9 kw - was due on April 18
- WDRB-TV, ch. 41, Louisville, Ky., took air Feb. 28, 1971

### Stations Authorized To Start Operation:

- \*KTSC (TV) ch. 8, Pueblo, Colo., permission granted for testing in February 1971
- KGTF (TV) ch. 12, Agaña, Guam, granted test privileges on ch. 12 in lieu of ch. 10

### New Target Dates Reported:

- KMPH (TV) ch. 26, Tulare, Calif., - 2.19 kw., due on in May or June
- \*WTVP (TV) ch. 47, Peoria, Ill., due on in May 1971

### Stations Reported Off The Air:

- WATU-TV, ch. 26, Augusta, Ga., left the air November 1970
- WATL-TV, ch. 36, Atlanta, Ga., left the air March 31, 1971
- WMCV (TV) ch. 17, Memphis, Tenn., left the air March 14 for a period reportedly not to exceed 90 days
- WVNY-TV, ch. 22, Burlington, VT., left the air April 2
- KEMO-TV, ch. 20, San Francisco, Calif., left the air March 31

### Miscellaneous Changes Reported:

- WRPA (TV) ch. 51, Reading, Pa., - CP dismissed
- WTHL (TV) ch. 39, Miami, Fla., - CP dismissed
- KGSL-TV, ch. 24, St. Louis, Mo., cancel CP and delete call letters
- WACO-TV, ch. 25, Waco, Texas, CP forfeited - delete call letters
- \*WTVF (TV) ch. 23, Buffalo, NY, cancel CP and delete call letters
- \*VIET (TV) ch. 14, Ithaca, NY, cancel CP and delete call letters
- WTLX (TV) ch. 60, Toledo, O., cancel CP and delete call letters
- \*KRET-TV, ch. 23, Richardson, Tex.- cancel license and delete call letters
- WICN-TV, ch. 24, Macon, Ga., CP forfeited - delete call letters

## FCC COMPLETED ACTION

### New Grants:

- \*College, Alaska, ch. 9 (U. of Alaska) 45.8 kw.
- \*Aberdeen, S.D., ch. 16 (State Board of Ed) 373 kw.
- \*Goldvein, Va., ch. 53, (N.Va. ETV Assn.) 724 kw.

### Call Letter Changes:

- \*WTLV (TV) ch. 19, New Brunswick, NJ, to WNJB (TV)
- WTHC-TV, ch. 8, New Haven, Conn., to WTNH-TV
- WFIL-TV, ch. 6, Philadelphia, Pa., to WPVI-TV
- KFRE-TV, ch. 30, Fresno, Calif., to KFSN-TV

### New Call Letters Issued:

- Texarkana, Tex., ch. 17, KTXK (TV)
- Kenosha, Wis., ch. 55, WKSH (TV)

### Other Changes Allowed:

- WUHQ-TV, ch. 44, Battle Creek, Mich., ERP to 1740 kw.-ant. 1070'
- WRBT (TV) ch. 33, Baton Rouge, La., ERP to 871 kw.
- WMAL-TV, ch. 7, Washington, D.C., ERP to 316 kw.
- WINR-TV, ch. 40, Binghamton, NY, ERP to 501 kw.- ant to 1230'
- \*KDIN-TV, ch. 11, Des Moines, Ia., ERP to 269 kw. - ant. 1320'



Other Changes Allowed (Continued):

- \*WOSU-TV, ch. 34, Columbus, O., ERP to 977 kw. - ant. to 1080'
- WCAU-TV, ch. 10, Philadelphia, Pa., - ERP to 186 kw., - ant. 1160'
- KUHI-TV, ch. 16, Joplin, Mo., ERP to 852 kw.
- WGMI (TV) ch. 56, Gary, Ind., ERP to 490 kw.
- KBSC-TV, ch. 52, Corona, Calif., ERP to 447 kw. - ant. to 2783'
- \*WPBT (TV) ch. 2, Miami, Fla., ERP to 81.3 kw.
- \*WTHS (TV) ch. 2, Miami, Fla., ERP to 31.3 kw.
- \*KVUE (TV) ch. 24, Austin, Tex., ERP to 708 kw.
- WBKO (TV) ch. 13, Bowling Green, Ky., ERP to 30.2 kw.
- KJAC-TV ch. 4, Port Arthur, Tex., - ant to 1180'
- KRCC-TV, ch. 10, Rochester, Minn., ERP to 245 kw. - ant 2320'
- KECC-TV, ch. 9, El Centro, Calif., - ERP to 40.7 kw.
- KVIE (TV) ch. 6, Sacramento, Calif., ERP to 55 kw. - ant to 1120'

ACTION APPLIED FOR OR REQUESTEDApplications For New Stations:

- Eau Claire, Wis., ch. 18 (Scott Productions) 181.6 kw.
- \*Austin, Minn., ch. 15, (Sch. Dist. 492) 10.5 kw.

MISCELLANEOUS ITEMS OF INTEREST TO TV DXERS

- # KGLO-TV, ch. 3, Mason City, Ia., is under fire for lowering station power during the November 22nd 1970 Green Bay-Minnesota football game. Reportedly KGLO-TV lowered power to keep football fans going to the stadium instead of watching on TV
- # The Mississippi ETV Authority has asked for ch. 12 instead of ch. 18 at Booneville for ETV use
- # KDIN-TV, ch. 11, Des Moines, Ia., will go to full power on a tower shared with WHO and WOI television. The move is expected for this fall and will greatly increase the station's coverage area.
- # WGMI (TV) ch. 56, Gary, Ind., has been sold to the Family Stations group and will operate as a religious station when they hit the air
- # The FCC has ordered the networks to release chunks of prime evening time back to local stations for their own programming. (This should make station ID's much easier as many stations will be making their own shows and running many local ads) Ruling takes effect next fall.
- # Ads in a number of publications are calling attention to WLXT-TV, ch. 60, Aurora, Ill. "bankruptcy sale". As of yet - no buyers.
- # The Nevada ETV network wants to add ch. 13 to McGill, delete ETV ch. 8 and add ch. 8 to Richfield, Utah, and delete ch. 13 from Richfield or add ch. 13 to Ely-McGill, delete ch. 8 ETV @ McGill, and add ch. 8 and 13 to Richfield.

\*\*\*\*\*

RETRACTIONS

1. A short time ago this column reported WMKG-54, Muskegon, Mich., as having its license cancelled. Apparently no such action has taken place as the station is still operating
2. This column recently reported KTEN (TV) ch. 10, Ada, Okla., as having been granted permission to change its call letters to KTEN-TV. The FCC has refused to allow this change.
3. A request was made for the call letters of WIRL-TV in Peoria to be changed to WRAU (TV). No action has been taken on this matter and the station still uses its old call.



SUMMARY OF  
TELEVISION STATIONS THAT BEGAN OPERATION IN 1970

- \*Denopolis, Ala., ch. 41, WIIQ (TV) took air Sept. 7, 1970
- Dothan, Ala., ch. 18, WDHN (TV) took air August 7, 1970
- Flagstaff, Ariz., ch. 2, KOAI (TV) took air April 19, 1970
- \*Miami, Fla., ch. 2, WPBT (TV) took air April 20, 1970 + shares time with WTHS-TV
- Columbus, Ga., ch. 38, WYEA-TV, took air October 29, 1970
- Savannah, Ga., ch. 22, WJCL (TV) took air July 15, 1970
- Chicago, Ill., ch. 44, WSNS-TV, took air April 5, 1970
- \*Evansville, Ind., ch. 9, WIN (TV) took air March 15, 1970
- \*Indianapolis, Ind., ch. 20, WFYI (TV) took air Oct. 1, 1970
- Dubuque, Ia., ch. 40, KDUB-TV, took air June 1, 1970
- \*Iowa City, Ia., ch. 12, KIIN-TV, took air Feb. 8, 1970
- \*Hutchinson, Kan., ch. 8, KPTS (TV) took air Jan. 5, 1970
- \*Louisville, Ky., ch. 68, WKMJ (TV) took air Sept. 2, 1970
- Jackson, Miss., ch. 16, WAPT (TV) took air Oct. 3, 1970
- \*Jackson, Miss., ch. 29, WMAA (TV) took air Feb. 1, 1970
- Kansas City, Mo., ch. 41, KBMA-TV, took air Sept. 28, 1970
- Butte, Mont., ch. 6, KTVM (TV) took air May 15, 1970
- Missoula, Mont., ch. 8, KPAX-TV, took air May 1, 1970
- Buffalo, NY, ch. 29, WUTV (TV) took air December 21, 1970
- Utica, NY, ch. 20, WUTR (TV) took air March 1, 1970
- Salem, Ore., ch. 3, KVDO-TV, took air Feb. 16, 1970
- \*Pierre, S.D., ch. 10, KTSD-TV, took air August 1, 1970
- \*Chattanooga, Tenn., ch. 45, WTCI (TV) took air March 8, 1970
- \*Belton, Tex., ch. 46, KNCT (TV) took air November 23, 1970
- \*College Station, Tex., ch. 15, KAMU-TV, took air Feb. 15, 1970
- Kenneth, Wash., ch. 42, KVEV (TV) took air Oct. 30, 1970
- Yakima, Wash., ch. 35, KAPP (TV), took air Sept. 15, 1970
- \*Grandview, W.Va., ch. 9, WVP-TV, took air October 5, 1970
- La Crosse, Wis., ch. 19, TXO-TV, took air March 8, 1970
- \*Agana, Guam, ch. 10, KGTF (TV) took air November 1, 1970
- Mayaguez, P.R., ch. 16, MGZ (TV) took air May 1, 1970

\*denotes educational stations

Thanks to the following club members who kindly contributed to our FCC News column this month:

- Bill Heusmann - Des Moines, Ia.
- Bob Baker - Humboldt, Ia.
- M.S. Goldman - Chicago, Ill.
- Roger Brown - East Lansing, Mich.

Useful information for this column is welcomed from any and all sources. Any member having coverage maps, target dates, notes of interest about local stations, newspaper clippings, etc., is requested to help by sending the information to the column editor whenever possible!

Chance of a Lifetime.....(or something like that)....

Would you be interested in preparing the FCC NEWS and DATA TV section for each month's WFFDA bulletin? Let your editor know. Ability required: (1) capable of typing decently (2) desire to contribute to your club (3) willingness to meet a monthly deadline. How about it?



# Worldwide TV-FM DX Ass'n

Serving VHF-UHF DX Enthusiasts

DXER: \_\_\_\_\_

\_\_\_\_\_, 19\_\_\_\_

\_\_\_\_\_-TV  
Chief Engineer  
\_\_\_\_\_, \_\_\_\_\_

Dear Sir:

Providing that the following information is correct, I would appreciate receiving a verification of my reception of your station on \_\_\_\_\_, at \_\_\_\_\_ ST, on channel \_\_\_\_\_.

Program data: \_\_\_\_\_

Ads, announcements, etc. : \_\_\_\_\_

Video signal strength: \_\_\_\_\_ Audio Signal \_\_\_\_\_

Interference: \_\_\_\_\_ Propagation \_\_\_\_\_

Weather: \_\_\_\_\_

Receiving Equipment: \_\_\_\_\_

Thank you for your kind attention to this matter.

Yours truly,

NOW AVAILABLE AND READY FOR DELIVERY...

BE READY FOR THE 1971 DX SEASON WITH THIS STATION REPORT FORM! THE SAME FORM MENTIONED IN LAST MONTH'S VIDEO LINES COLUMN. A PACKAGE OF 45 IS AVAILABLE FOR THE LOW PRICE OF \$1 POSTPAID... AVAILABLE DIRECT FROM WTFDA, POST OFFICE BOX 5001, MILWAUKEE, WISCONSIN 53204



# FM FCC

CHARLES A. DOBBINS  
12851 LONGACRE  
DETROIT, MI. 48227

## NEW STATIONS INITIAL APPLICATIONS

Aitken, MN. Upper Minnesota Bdcstg Corp. seeks 94.3 3 kw. AAT 183 ft.  
Albany, NY. Metroland Bdcstg Corp. seeks 100.9 3 kw. AAT 300 ft.  
Alfred, NY. Alfred University seeks 89.5 10w. AAT 54 ft.  
Arcata, CA. D.A. Plank seeks 93.5 220w. AAT 924 ft.  
Charles City, IA. Radio Inc. seeks 104.9 3 kw. AAT 100 ft.  
Corvallis, OR. Ted A. Jackson seeks 101.5 28 kw. AAT 100 ft.  
Corvallis, OR. Beaver Bdcstg Inc. seeks 101.5 28 kw. AAT 100 ft.  
\*Fort Dodge, IA. Iowa Central Community College seeks 88.1 10w. AAT 70 ft.  
Glasgow, KY. John M. Barrick seeks 105.5 620w. AAT 590 ft.  
\*Houston, TX. William Marsh Rice University seeks 91.7 10w. AAT 157 ft.  
Ishpeming, MI. WJFD-FM Inc. seeks 92.3 100 w. AAT 884 ft.  
\*Martin, TN. University of Tennessee seeks 90.3 100w. AAT 250 ft.  
Mount Wolf, PA. Capital Media Inc. seeks 92.7 720 w. AAT 555 ft.  
\*Orangetown, NY. Board of Education Free School Dist #1 seeks 90.3 10w. AAT 100 ft.  
\*Pasco, WA. Riverview Baptist Christian Schools seeks 90.1 3.897w. AAT 129 ft.  
Savanna, IL. Carroll County Bdcstg Co. seeks 100.1 3 kw. AAT 300 ft.  
Sioux Center, IA. Tri-State Bdcstrs Inc. seeks 94.3 3 kw. AAT 226 ft.  
South Pines, NC. William R. Gaston seeks 107.1 3 kw. AAT 300 ft.  
\*Springfield, MA. Springfield Technical Community College seeks 89.1 10w. AAT 249 ft.  
Syosset, NY. Syosset High School seeks 88.5 10w. AAT 74 ft.  
\*Washington, PA. Washington and Jefferson College seeks 88.7 10w. AAT 60 ft.  
Wellston, O. Jackson County Bdcstg Inc. seeks 96.7 2.96kw. AAT 100.4 ft.  
West Palm Beach, FL. Daytona Bdcstg Inc. seeks 92.1 3 kw. AAT 300 ft.  
\*Wilkes-Barre, PA. Kings College seeks 88.5 250w. AAT 471 ft.

## FINAL ACTIONS

Cedar Rapids, IA. Buddy Tucker Evangelistic Assoc Inc. gtd 104.5 100 kw. AAT 550 ft.  
Forest City, IA. Douglas E. Eddy gtd 102.3 3 kw. AAT 200 ft.  
Georgetown, TX. Georgetown Bdcstg Co. gtd 96.7 3kw. AAT 290 ft.  
Heber Springs, AK. Newport Bdcstg Inc gtd 96.7 3 kw. AAT -146 ft.  
Louisville, GA. Peach Bdcstg Co. gtd 92.1 3 kw. AAT 200 ft.  
Palm Beach, FL. Francis Kegel gtd 94.3 3 kw. AAT 300 ft.

## AUTHORIZED STARTS

Chanute, KA. KKOV-FM on 105.5 ERP 3 kw. AAT 160 ft.  
Glendale, AZ. KXTC(FM) 92.3 ERP 3 kw. AAT 285 ft.  
Lima, O. WLSR(FM) on 104.9 ERP 3 kw. AAT 220 ft.  
Maryville, MO. \*KXCV(FM) on 90.5 ERP 100 kw. AAT 510 ft.  
Morristown, NJ. \*WJSU(FM) on 90.5 TPO 10w.  
Mountain Home, AK. KTLO-FM on 98.3 ERP 100 kw. AAT 420 ft.  
Preston, MN. on 103.1 ERP 3 kw. AAT 265 ft.  
Seattle, WA. KNHC(FM) on 89.5 TPO 10w.  
Stanford, CA. \*KZSU(FM) on 90.1 TPO 10w.

## CALL LETTER APPLICATIONS

Chicago, IL. Loyola University req \*WLVC-FM Jackson, MS. TAB Bdcstg Co. req WKXI(FM)  
Des Plaines, IL. E.W. Piszczek & J.K. Westerfield req WYEN(FM).  
Douglas, GA. Coffee County Bdcstrs Inc. req WOKA-FM Muskogee, OK. MMM Corp. req KMTM(FM)  
Ephraim, UT. Snow College req \*KEPH(FM) Riviera Beach, FL. Francis Kegel req WGMW(FM)  
Forest City, IA. Douglas E. Eddy req KWHC(FM) Rogers, AK. KAMO Inc. req KAMO-FM  
Hershey, PA. So. Cent. Educ. Bdcstrs req \*WITF-FM Thompsonville, KY. J.K. Whittimore req  
WTAY-FM

## CALL LETTER ACTIONS

Auburn, AL. Auburn Univ. gtd \*WEGL(FM) Montour Falls, NY. Watkins-Glen-Montour Falls  
Duluth, MN. Contemporary Bdcstg Co. gtd WDTN(FM) Bdcstg Corp. gtd WXXY(FM)  
E. Stroudsburg, PA. E. Stroudsburg State Coll. gtd \*WESS(FM)  
Fort Smith, AK. Megamedia Inc. gtd KISR-FM Sheboygan, WI. WHBL Inc. gtd WHBL-FM  
Jupiter, FL. Lighthouse Bdcstg Co. gtd WJTS-FM Springvale, ME. Manson College gtd \*WNCY(FM)



EXISTING FM STATIONSCALL LETTER APPLICATIONS

Cedar Rapids, IA. Buddy Tucker Evangelistic Assoc. req KTOF(FM)  
 Dallas, TX. KXXX(FM) req KOAX(FM) New Haven, CN. WNHC-FM req WPLR(FM)  
 Detroit, MI. WCHD(FM) req WLWU(FM) Orlando, FL. WKIS-FM req WDIZ(FM)  
 Ft. Lauderdale, FL. WSRF-FM req WSHE(FM) Rapid City, SD. KFFM(FM) req KKLS-FM

CALL LETTER ACTIONS

Bryan, O. WWMS(FM) gtd WBNO-FM Moorhead, MN. KOEB-FM gtd KWIM(FM)  
 Chicago, IL. WLS-FM gtd WDAI(FM) New York, NY. WABC-FM gtd WPLJ(FM)  
 Detroit, MI. WDEE-FM gtd WDRQ(FM) Paso Robles, CA. F.&N. Bryant gtd KPRA(FM)  
 Detroit, MI. WXYZ-FM gtd WRIF(FM) San Jose, CA. KRPM(FM) gtd KOME(FM)  
 Miami, FL. WJHR(FM) gtd WMYQ(FM) Toledo, O. WSPD-FM gtd WLQR(FM)

CHANGES TO ALREADY EXISTING STATIONS

KOTN-FM Pine Bluff, AK. new CP for aux. xmtr. on 92.3 ERP 5.6 kw.  
 KLRO(FM) San Diego, CA. chge xmtr loc. chge ant. system ERP to 37 kw. AAT to 570 ft.  
 KPLX(FM) San Jose, CA. CP to install aux. xmtr and aux. ant. on 106.5 ERP 14.5 kw. AAT 330 ft.  
 WPLO-FM Atlanta, GA. CP for new xmtr and ant. ERP 50 kw. AAT 280 ft.  
 WMAQ-FM Chicago, IL. CP to install xmtr and ant. ERP to 6 kw. AAT 1170 ft.  
 KYEA(FM) West Monroe, LA. CP to chge studio and xmtr loc. new ant. ERP 3 kw. AAT 260 ft.  
 WBCN(FM) Boston, MA. new aux. xmtr ERP 25 kw. AAT 490 ft.  
 KAWL-FM York, NB. install xmtr and ant. ERP 2.75 kw. AAT 310 ft.  
 WGCL(FM) Cleveland, O. chge studio loc. new xmtr and ant. ERP 40 kw. AAT 600 ft.  
 WWEL(FM) Chicago, IL. CP for new aux. xmtr and ant. ERP to 6 kw. AAT 1170 ft.  
 WHVY(FM) Springfield, MA. to make chges in ant. sys. ERP 4.4 kw. AAT 140 ft.  
 \*WGGL-FM Houghton, MI. CP to increase power up to 650 w. AAT 600 ft.  
 WAVA-FM Arlington, VA. gtd CP to install aux. xmtr and aux. ant.  
 \*KSWH(FM) Arkadelphia, AK. gtd CP to chge freq to 91.1 chge studio and xmtr loc.  
 WSND-FM Notre Dame, IN. gtd CP for new xmtr loc. chge ant. sys. ERP 3.4 kw. AAT 360 ft.  
 KFGQ-FM Boone, IA. gtd CP to install xmtr and chge ant sys ERP 3 kw. AAT 190 ft.  
 \*WFPL(FM) Louisville, KY. chge xmtr and studio loc. install new ant. ERP 820w. AAT 310 ft.  
 WRPM-FM Poplarville, MS. chge studio loc. and chge ant. sys. ERP 100 kw. AAT 420 ft.  
 KERI(FM) Bellingham, WA. install xmtr and chge ant. sys. ERP 60 kw. AAT 2310 ft.  
 WTOS(FM) Wauwatosa, WI. chge xmtr loc. install new xmtr and ant. ERP 14.5 kw. AAT 820 ft.  
 KVRH-FM Salida, CO. chge xmtr and ant. new AAT 70 ft.  
 WAMO-FM Pittsburgh, PA. CP to install xmtr and ant. ERP 72 kw. AAT 430 ft.

READERS CONTRIBUTIONS

BRUCE F. ELVING - A six week supply (6 issues) of the AM-FM Addenda to the weekly TV Digest along with a conversion chart of channel to mhz for the FM band. Bruce also included a recent news release which shows WITF-FM in Hershey, PA. inaugurating service on the 1st of April. Their schedule is from noon to midnight and is broadcast on a frequency of 89.5 mhz. According to Bruce they have a power of 15 kw. horizontal and vertical and a antenna height of 820 ft.

KRAB(FM) in Seattle, WA. has had its license renewed for the next three years despite the use of obscene language in its broadcasts. KRAB operates on 107.7 mhz. with 20 kw. and an AAT of 350 ft.

On March 29th WHWB-FM in Rutland, VT. began broadcasting. The station will feature 'middle of the road' programming with heavy emphasis on news and limited commercials. They operate on 98.1 mhz. with 50 kw. and an AAT of -300 ft.

Naples, FL. gtd a CP for a new FM station on channel 228A(93.5 mhz.) as yet there is no information on the stations power, ant. hgt. or type of programming.

La Crosse, WI. gtd CP for new classA FM station on channel 240(95.9 mhz) at 1 kw.

NOTE- ABOVE 4 ITEMS WERE OFF BRUCE'S UPI TELETYPE AT WORK.

FRANK E. ADEN JR. - Reports that KFMA 91.5 mhz, in Jerome, ID. is now on the air in stereo.

ANDY POLIN - WZIP's new call letters are WWEZ and not WWSH as noted in a previous column.

WLCC (LINCOLN, IL.) not only chged from 88.7 to 88.9 but also from 10w. to 4.2 kw.

WMIL in Milwaukee has changed its call letters to WNEM.

FLASH for all Ohio Dixer's. WBOW in Terre Haute, IN. which used to be one of your tropo checks to the west has been off the air for the past 4 months.

WCCN in Clinton, IA. on 97.7 is now on the air.



# THE EUROPEAN SCENE

Roger Bunney, Trelawne, Cupernham Lane, Romsey, Hants, SO5 8JH, England

The TV DX scene this month in England is somewhat clouded by the death of Charles Rafarel, the well-known TV DXer. For many years he had been active with this hobby, possibly one of the most active enthusiasts in the UK. He wrote monthly in 'Television' on DX TV, and was the English language organizer for the short-lived Europa DX Club. In 1933 he constructed a 30 line mechanical scanning televisor, and received test transmissions over 200 miles. In the early '60s he was visited near Bournemouth by Ferdie Dombrowski, indeed, it can be said that anyone having an interest in DX TV was always welcome at his home. He will be greatly missed over here.

News from this end receptionwise leaves something to be desired, although short bursts of sporadic E are beginning to increase both in strength and duration. My meagre loggings:

March

- 3- USSR O1
- 4- ???? O1
- 5- Czech O1, + 2 unIDs O1, 1 unID O2
- 15- NRK E4, Sweden E2
- 20- E2 and O1 unID
- 21- BRT E2, Czech O1
- 24- BRT E2
- 26- Czech O1, NRK E2, BRT E2

27- BRT E2

29- BRT E2

April

- 1- Czech O1
- 7- USSR O1, BRT E2
- 9- ORF, Austria E2a, unID O1
- 10- Czech O1
- 11- WG E4, BRT E2

MS was noted on low band on 28th February, and paging tones were noted on March 3rd.

I have received a most interesting letter and photos from our friend in Bergamo, Italy, Michele Dolci. One interesting note relates to the JRT (Yugoslav TV). Apparently they are about to, or possibly are already, beaming TV to Italy in Italian. RAI is state controlled, although it does carry adverts. There is no other broadcasting network in Italy, consequently this could be a lucrative area for an external service. Radio Monte Carlo at present transmits radio programmes to Italy - carrying commercials.

Michele also reports Albania is transmitting on channel R6, signals having been received in the South of Italy from an Albanian station. At present, only Tirana is listed on R2 with 50 watts. Photographs included with his letter show trans-Mediterranean tropics into North Africa, with test cards of Tunisia (using Marconi #1), and Libya using both the Marconi and old test card C. Another shot shows the Zambian test card, Indian Head, on low band E2,3,4, CCIR.

Attention all DXers in Europe for test card changes:

FINLAND are using an electronic type, similar to the SWF type. This carries the ID 'YLEISRADIO' in the centre black rectangle, for both networks. TV2 omits the circle. Times, 0700-1200 GMT daily, but on Tuesdays, Thursdays, Saturdays 1000-1145 GMT various slides are shown. DENMARK are using the ORF electronic test card, but carries no ID. This may be confusing on E4 if ORF is in. As I previously noted, NRK Norway are using this card, but fortunately their's carries an ID.

Further to the speculation on Poland, and the TVP2 captions, we have the following information. This is operative in VHF- Krakow R2, 1kw; Katowice R6, 1kw; Lodz R10, 1kw; Warsaw R11, 1kw. The first and third transmitters are vertically polarized. We also have news that Hungary is in colour, radiating on channel E24 with all of 4kw.

For those interested in propagation, and most of us are, an amateur radio publication, Radio Communication, journal of the RSGB, have recently published an article detailing reception in Gibraltar of Sporadic E into the UK, and TE down into Africa. Although this has a slant toward amateur radio,



AFTER THE LIST WAS COMPILED, A COPY OF TELE-GUIA CAME TO HAND, LISTING ALL MEXICO CITY STATIONS AND SHEDDING SOME LIGHT ON NETWORK OPERATIONS AROUND THE COUNTRY. IT SEEMS TP AND TIM ARE INDEED LIVE-INTERCONNECTED BUT NOT DURING HOURS AS EXTENSIVE AS THE XEW NETWORK. TP IS IN FACT FED BY XHTV-4, WHICH WE HAD NOT POINTED OUT. NO CALL LETTERS ARE GIVEN AND LOCATIONS PERTAINING TO CHANNEL NUMBERS ARE HAPHAZARD. HOWEVER, TIM CHANNELS ARE SHOWN FOR CHANNEL 9 IN GUADALAJARA AND TAMPICO. THESE AND TIM'S CHANNEL 9 IN QUERETARO DO NOT OPERATE PAST 2300, WHILE THE OTHERS RUN TO 2400. THE ONLY OTHERS SHOWN ARE XET-6, XHFM-2, XHP-3, AND XHAD-7, (FOR TIM).

SOME XEW PROGRAMS ARE CARRIED ONLY ON THE SATELLITES XHAH-8, XEQ-9, AND XEZ-3, AT: 1545-1600 WEEKDAYS; 1230-1400 AND 1430-1600 SATURDAYS; XEW'S "PROYECCION NACIONAL" IS SCHEDULED AT 1600-2400 WEEKDAYS; 10-2400 SUNDAYS; 14-1430 AND 16-2400 SATURDAYS.

THE XHTV (TP) NETWORK OPERATES 15-2400 WEEKDAYS; 1430-2400 SATURDAYS; 1115-2400 SUNDAYS. THE FOLLOWING CHANNELS ARE SHOWN ACCOMPANYING XHTV-4 LISTINGS: XHA1-10, XEX-7, AND 3 CHANNELS WITHOUT CALLS: 3, 5 AND 13. CERTAIN OTHER CITIES JOIN THE TP NET LIVE ONCE A WEEK, SUNDAY AT 17-2030 FOR "IMAGENES DEL MUNDO": GUADALAJARA-4, TORREON-2, CHIHUAHUA-5, JUAREZ-5, MAZATLAN-7, CULIACAN-3, OBREGON-2, HERMOSILLO-6, MONTEREY-3, TAMPICO-7, VILLA HERMOSA-12 (SIC), MERIDA-3, LA PAZ-10, LAREDO-2, TIJUANA-12, MEXICALI-3, AND ENSENADA-23. NOTE THAT SOME OF THESE ARE NORMALLY MEMBERS OF OTHER NETS.

XHGC-5 HAS 1TV DAILY AT 0745-1400 EXCEPT SUNDAYS TIL 1045 ONLY. NORMAL PROGRAMMING CONTINUES DAILY AFTER 1400 UNTIL ABOUT 1400 OR SO. ALL MIDNIGHT-AREA ENDING-TIMES ARE APPROXIMATE.

TIM'S LIVE NET OPERATES WEEKDAYS 19-2400, SATURDAYS 16-2400, SUNDAYS 1630-1700 AND 20-2400. XHTM-8 LOCAL PROGRAMS ARE AT 15-1900 WEEKDAYS, 1130-1600 SATURDAYS, AND 17-2000 SUNDAYS. XEIPN-11 OPERATES DAILY 18-2300 WITH AN ADDITIONAL NOON SEGMENT SUNDAYS. XHDF-13 BEGINS AT 1400 DAILY, AND STARTS A LATE MOVIE ABOUT 2345-0030. ALL STATIONS EXCEPT XEIPN HAVE SOME COLOR, BUT MANY (EVEN DURING NETWORK TIME) ARE STILL MONOCHROME.

I HAVE TWO EXTRA COPIES OF TELE-GUIA FOR 15-21 APRIL, WHICH I WILL SEND THE FIRST DXERS WHO SEND ME A 6X9 SASE AND 24¢ IN STAMPS OR A QUARTER, TO HELP COVER THE EXPENSES OF MY TRIP TO NUEVO LAREDO!

73 DE GLENN HAUSER

The European Scene

Page 2

May 1971

the frequencies, 70mc, 50mc have obvious bias toward our TV channels, namely E2 and E4. Tables are given for channel B2 reception on the Rock. For those interested, Radio Communication, March 1971, 'Four and Six Metres- The Gibraltar Story'.

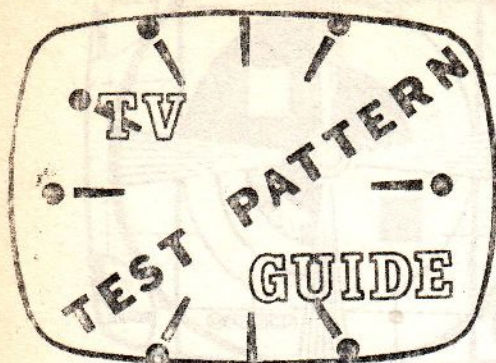
I noted above on the passing of Charles Rafaral, of the DX TV column in Television (ex Practical Television). As from the June issue, I will be taking over the writing of this column. Basically, the column will remain the same, except with the inclusion of regular monthly photos, including a new series of test card patterns, covering the whole EBU area, with North Africa, Middle East.

One correction: In an earlier Digest, I commented that the pirate radio Radio North Sea International has ceased transmissions. Earlier this year they re-commenced on MW, SW and 100 MHz, FM. Whether they are anticipating obtaining a licence for the new network of commercial stations based on land, that the British government is proposing, one is left to speculate. We look forward for the first report of the RNI FM transmitter.

Mullard Ltd. have recently introduced two VARICAF tuners. One covers VHF, requiring 12v DC, and a varicap supply ranging from .3-28v. This has a gain of 20db lo band, 22db hi band...with noise figures respectively 7.5 and 7 db. The UHF tuner has 2 tuned RF amplifiers and a self-oscillator mixer. A gain of 20db with noise of 8db is quoted. Both units have 3 transistors. For those interested, the VHF one is ELC1042, UHF ELC1043. Mullard Ltd., Mullard House, Torrington Place, London, W.C.1.

We have news that an enthusiast has constructed a sweep spectrum analyser for the whole UHF band. This displays the whole UHF band on an oscilloscope trace, thus one can monitor any DX appearing instantly. At present I have no information re this unit, other than it uses varicaps. The VHF version of the varicap tuning on low band would be ideal in this set-up during the E season.



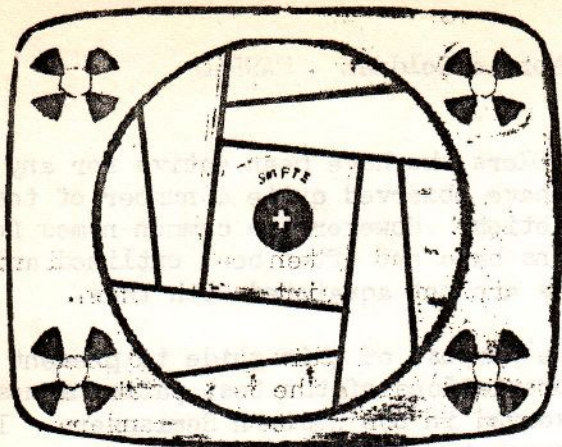


Most TV-DXers who have been active for any period of time have observed quite a number of test pattern varieties. However the common names for these patterns have not often been outlined and many TV-DXers are not acquainted with them.

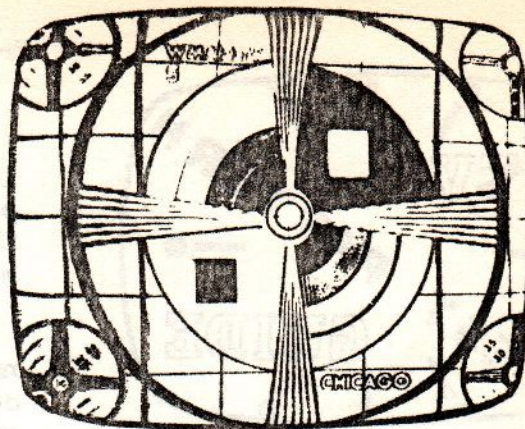
It is the purpose of this guide to present the names and abbreviations of the test patterns most commonly observed in the Western Hemisphere. In addition, common terminology used in reference to test patterns has also been noted and defined.

- 1.) SMPTE-TP (Society of Motion Picture & Television Engineers) A B&W field resolution slide, first copyrighted by NBC. The pattern may or may not have the letters SMPTE displayed.
- 2.) NBC-TP Used by some NBC stations. Variations include use of call letters in upper left and city in lower right, simply "NBC" in upper left, or the plain pattern.
- 3.) WEDGE-TP (W-TP) One of the most common B&W patterns in use today. Generally speaking, wedge patterns hold close to the standard form shown, but several customized versions have been noted. An example of a customized wedge is that of CHCH-11, where the top right and lower left wedges have been replaced by four leaf clovers!
- 4.) CBS-TP A B&W pattern used by many CBS owned and affiliated stations and a number of non CBS stations as well. Form holds very close to pattern shown and few variations have been noted.
- 5.) ABC-TP Throughout the US there are quite a number of ABC owned or affiliated stations which operate on channel 7. This pattern is used by many of them. White call letters are displayed in the upper left quarter and the entire pattern has a grey background.
- 6.) BULL'S-EYE-TP (BE-TP) This B&W pattern has several minor variations, which include changed call letter placement and lettering size. Channel number is often on the center of the "bull's-eye". Background is white.
- 7.) AVCO-TP A B&W pattern which appears to be exclusively used by AVCO owned stations.
- 8.) RCA-TP Also known by some as the "old NBC pattern". Similar to bull's-eye, with the primary difference being that the background is grey in color. Call letters usually appear in upper left, with location, or station slogan in lower right. Lettering is white.
- 9.) INDIAN HEAD-TP (IH-TP) A very common low resolution B&W pattern, which in unmodified form does not incorporate a position for call letters. The IH-TP is usually generated from a monoscope which is relatively low in cost for the station to operate. Custom ordered monoscope tubes are required for the station to display call letters, and this boosts costs.
- 10.) MODIFIED INDIAN HEAD (MIH-TP) Identical to standard IH-TP, except the actual Indian head drawing is replaced by descriptive information, such as call, location and channel. Countless variations of call letter placement, etc. exist. Photo #16 shows another of these variations.

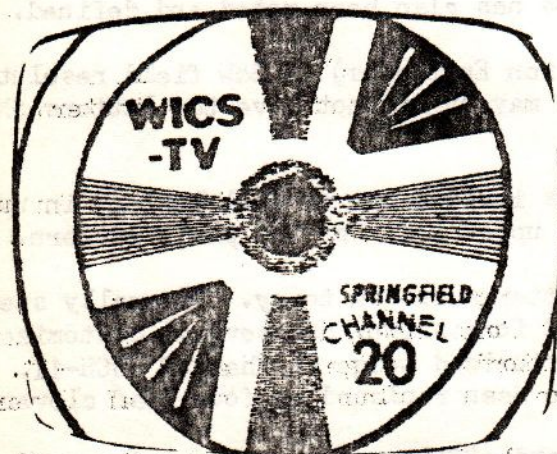




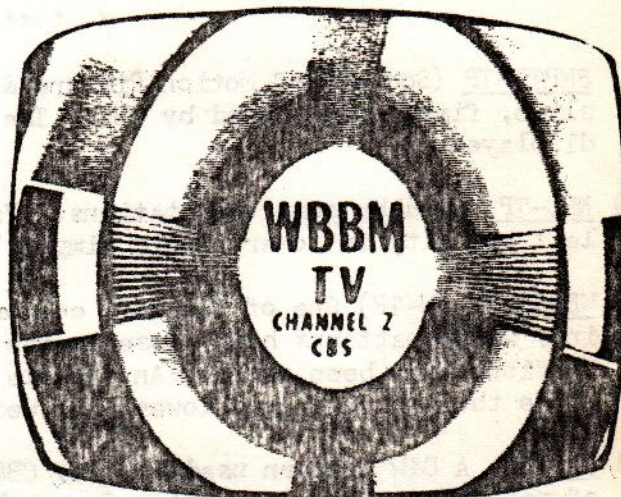
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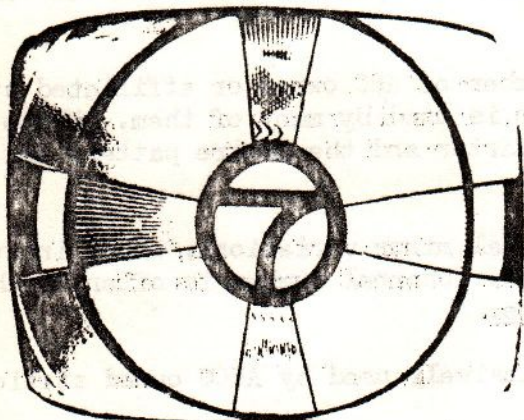
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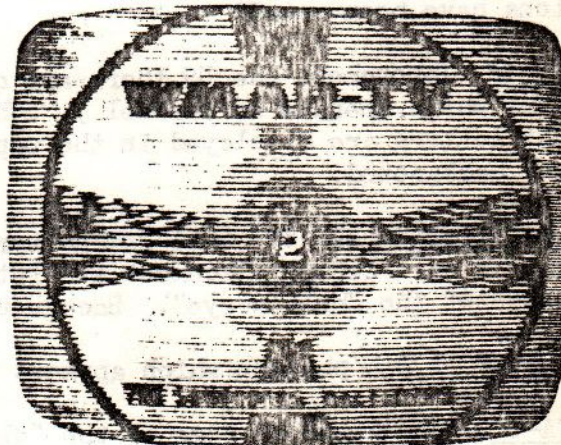
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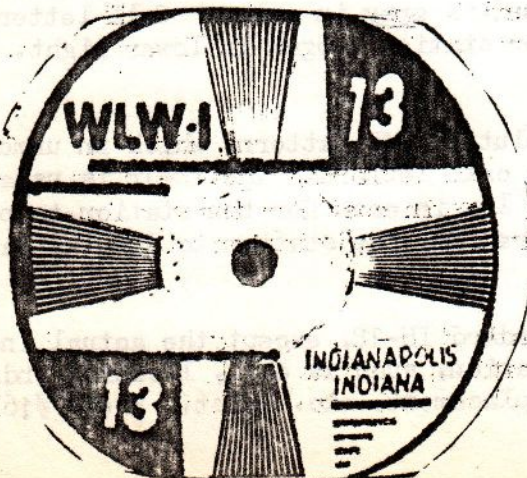
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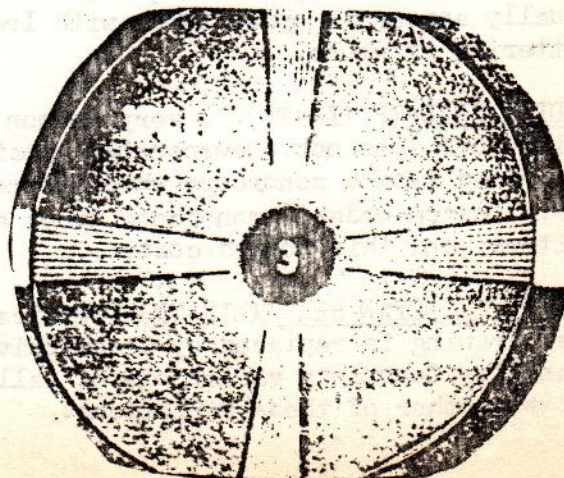
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6.



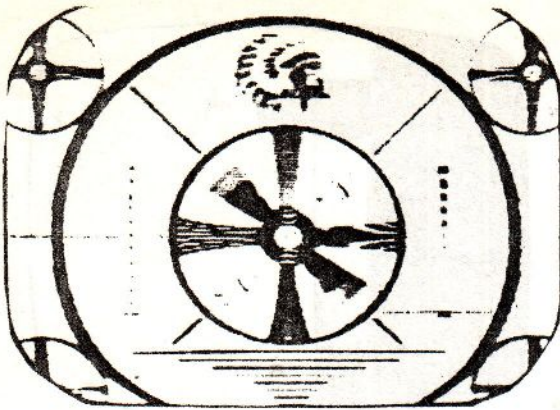
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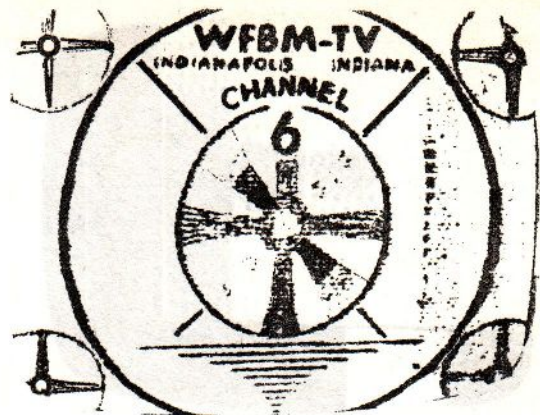
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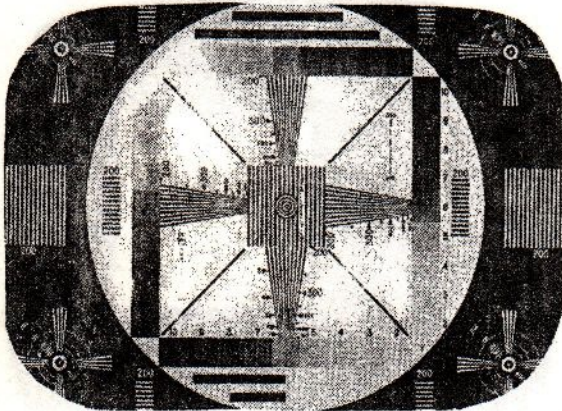
9.



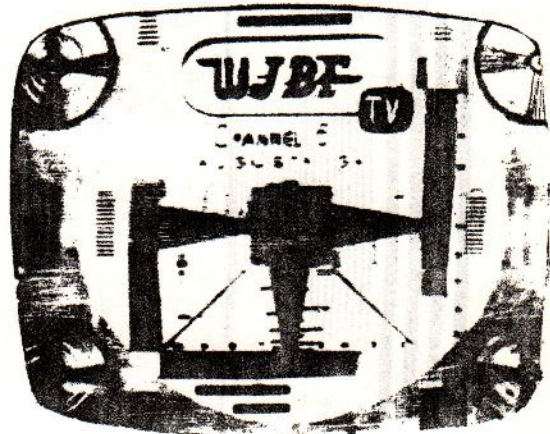
10.



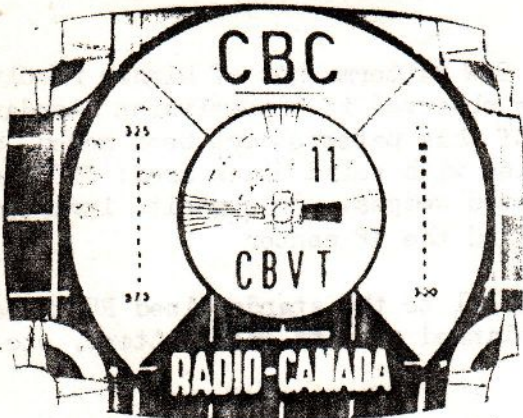
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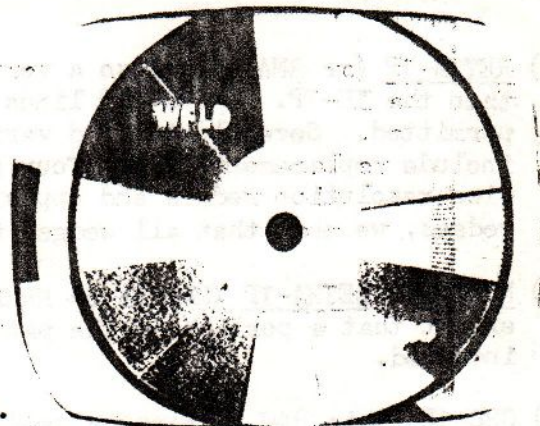
12.



13.



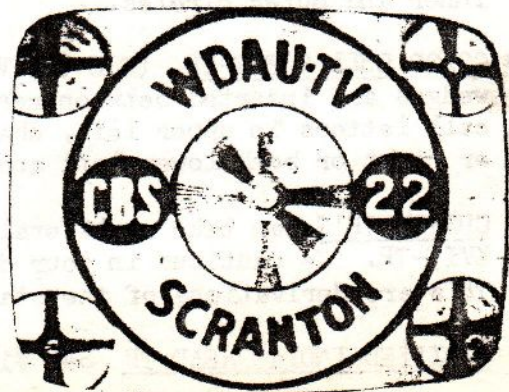
14.



15.

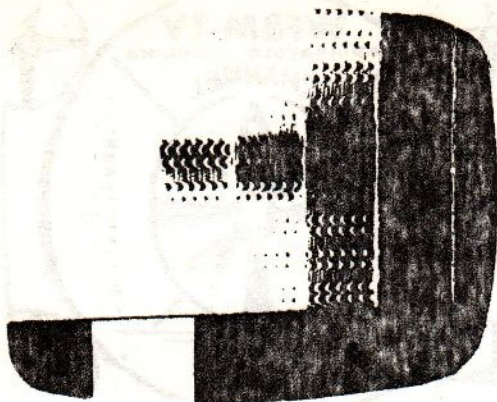


16.

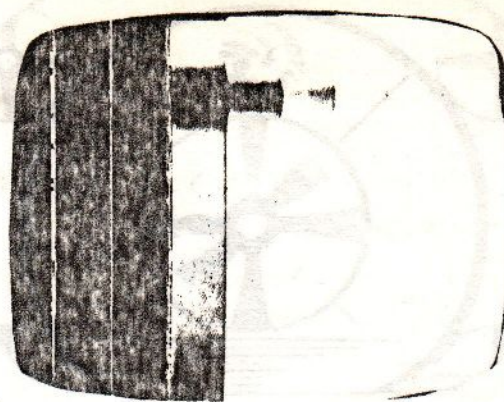




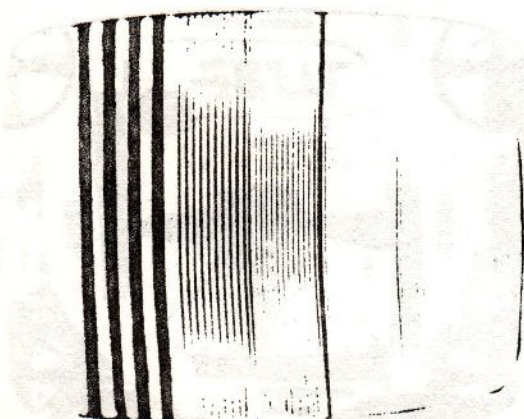
17.



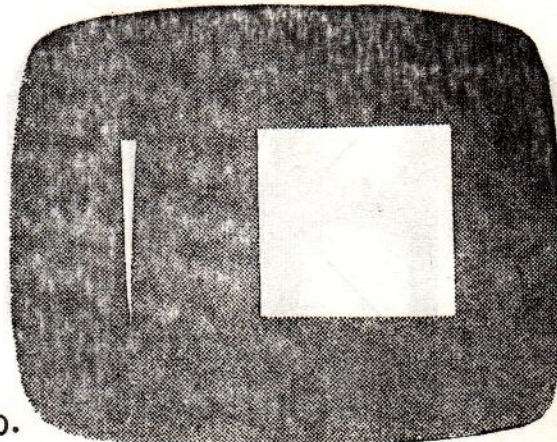
18.



19.



20.



- 11.) RETMA-TP (or RMA-TP) Also a very common B&W pattern, but of higher resolution than the IH-TP. Up to 800 lines could be observed if transmission standards permitted. Several standard variations of this pattern have been noted, which include replacement of the four grey scales with solid black area; different size resolution wedges and opposite inverted wedges. By opposite inverted wedges, we mean that all wedges taper toward the TP center
- 12.) MODIFIED RETMA-TP (MRETMA or MRMA) Identical to the standardized RETMA patterns, except that a portion of the pattern is blanked out and call letters, etc. are inserted.
- 13.) CEC-TP This B&W pattern is used by most, if not all Canadian Broadcasting Corporation television stations. Perhaps the most distinctive feature of this TP (especially on meteor bursts) is the very dark lower quarter between the inner and outer circles.
- 14.) COLOR BULL'S-EYE-TP (CBE-TP) Very similar to the B&W BE-TP, except two color wedges are inserted between resolution wedges. Lettering appears in white; call letters in upper left, channel in upper right and location in either lower right or both lower left and right.
- 15.) CUSTOM-TP'S can take on literally any shape or form as demonstrated by this KVIE-TP. Be cautious in your descriptions however, as many seemingly custom TP's are derivations of the standard patterns shown in this guide.
- 16.) MODIFIED INDIAN HEAD-TP See #10



- 17.) 3/4 COLOR BAR PATTERN (3/4 CB or 3/4 CB PAT.) Color bars cover 3/4 of screen, with lowest quarter black with one white square. If call letters are imposed on pattern (usually on black area) it becomes an ID 3/4 CB.
- 18.) FULL COLOR BAR PATTERN (CB or CB PAT) Color bars cover full screen and may have any of a number of color bands.
- 19.) RESOLUTION CHART (RES-C) Consists of multiple groups of progressively thinner black vertical lines.
- 20.) WINDOW PATTERN or SINE SQUARE (WP or SSQ) Several variations of this pattern exist, though all have a white square on a black background. The line shown to the left of the "window" may be tapered, linear or not included at all. In case you're wondering, this pattern is used for measurement and alignment of low frequency response as well as phase error of camera systems.
- 21.) GREY SCALE (NOT SHOWN) (GS or GS PAT) Usually consists of 9 or 10 vertical bands ranging from black through the greys to white. If you find it difficult to distinguish between a CB and GS, simply refer to what you see as a bar pattern.

bar pattern Any test pattern consisting of graduated density or color vertical bars, including color bar patterns and grey scales.

"character generator produced" Refers to letters and numerals produced by an electronic character generator. This type of lettering often has a "computerized" look.

circular pattern Any test pattern which consists primarily of a large central circle, similar to the bulk of the patterns shown in this guide.

color pattern Any test pattern which displays color in addition to B&W.

contrast test A section of a test pattern (usually shading wedges or bars) used to measure the difference between dark and light.

custom pattern Any unique test pattern which is not of, or a modification of a standard pattern type.

electronic pattern Any test pattern not projected from a card, light box, slide or monoscope tube, but by a purely electronic means. Common electronic patterns include some forms of dot, bar, grid line and rainbow patterns.

fleshtone slide A slide which solely, or in addition to another pattern, displays a color photo of a person (usually a girl!) for overall color performance measurement and adjustment purposes.

grey scale A pattern or portion of a pattern where grey density is displayed in steps from white through the greys to black.

grid lines Linear spaced vertical and horizontal lines, usually used by superimposing over a mechanically produced pattern to aid in vertical and horizontal linearity adjustments.

IDed pattern A test pattern which includes identification of the station of origin.

modified pattern A change in an otherwise standardized test pattern, usually to include station call letters, location, etc.



multifurst pattern A not very common pattern consisting of various line groups, with each having a wide white and black bar as a representation of 100% modulation; followed by ten groups of three white and four black representing up to 1000 lines in 100 line steps.

negative picture or reverse polarity A video image displayed in negative of the transmission standards. Black becomes white, red becomes green, etc.

rainbow pattern A special type of color pattern, usually produced by electronic means, which displays the visible light spectrum from left to right on the screen. If electronically produced, this pattern is not visible on B&W television receivers. The rainbow pattern is usually used over a mechanically produced pattern.

resolution test A portion of a test pattern which allows measurement of the number of lines per frame.

resolution wedge The wedge portion of some test patterns composed of lines which range in spacing from thick to fine, permitting resolution measurement.

test grid A test pattern composed, at least in part of grid lines to aid in vertical and horizontal linearity adjustments.

test tone An audio test signal usually transmitted in conjunction with a video test pattern.

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The test pattern guide that I have presented was prepared with several objectives in mind. The first and most obvious was to acquaint WTFDA members with the correct names and abbreviations for the test patterns most commonly seen in this hemisphere. However, it was also my intention to arm members with tools to describe uncommon patterns they may have observed, in a manner that can be commonly understood by all. This is especially important when reports of unidentified stations are submitted to the CCI column editor. He must first be able to interpret what the reporter was trying to say, before there is any hope of the mystery station being identified.

Now that all members have this common ground for naming test patterns, it is not inconceivable that we may be able to compose a list revealing what stations use what test patterns. This would of course take a good deal of time and effort to prepare and would require constant updating. But perhaps more importantly, it would require the work and cooperation of a large portion of the TV-DXers that make up our membership. You can start on this right now by pulling out your log or station list and recording the pattern types used by the stations you are acquainted with. If you would be interested in actively taking part in a committee to prepare or update a list of the type we have described, I would suggest that you write Headquarters at your nearest convenience.

The potential of a station-test pattern list goes without saying. It could also become one of the best tools the meteor scatter DXing TV-DXer could own. In short, this is something that should receive serious consideration at your end.

In closing, I would like to give my thanks to DXers Bill Heusmann and Jerry Pulice, whose photos were used in addition to those of the editor to make this guide possible.

Morrie S. Goldman WA9RAQ



# MEXICAN TV STATION LIST

Compiled and annotated by Glenn Hauser

Sources: Medios Publicitarios Mexicanos (equivalent to Spot Radio), November 1970, primary; Foreign Broadcast Information Service, January 1971, secondary; World Radio-TV Handbook, 1971, tertiary. Inevitably, there are contradictions among the sources. I have tried to choose the most reliable data in each instance. Some offsets near the border are given in TV Factbook. If none is indicated, the offset is not known. Powers in general are ERP expressed in kilowatts. Mexico has three "networks". Cadena Canal 2, which relays XEW-2, is known to be live-interconnected. The other two are not known to be interconnected; these groups may be affiliated from the standpoint of sales only. They are Televisoras de Provincia (here abbreviated TP), sort of a "second network" of Telesistema Mexicano, which also operates Cadena Canal 2; and Telecadena Mexicana or Televisión Independiente de México (here abbreviated TIM). Key stations of TIM are XHTM-8, XET-6, XHP-3 and XHFM-2. Some other Mexico City stations have relays; these also appear in the network column. Schedules are given in CST. WRTVH says all XEW relays operate 1500-0100. Stations claiming color are noted. It is doubtful this list is complete, but we hope it will be of some help this season.

Ch.	Off.	Call	Location	Net	Power	Comments/Schedule
	+	XHIA	Torreón Coah	TIM	20	
	0	XEPM	Ciudad Juárez Chih	XEW	40	
	-	XHCH	Chihuahua Chih	TIM	5.48	
		XEW	México DF	XEW	100	also 0700-1230
		XHAP	Acapulco Gro	XEW	1.2	
		XEWO	Guadalajara Jal	XEW	15	1430-2430
		XHI	Ciudad Obregón Son	TP	72	1600-2300
	+	XHFA	Nogales Son	TIM	8	1800-2300
	0	XEFE	Nuevo Laredo Tams	TP	60	1800-2400
		XHFM	Veracruz Ver	TIM	14.2	1630-2400
3	0	XHBC	Mexicali BCN	TP	100	1730-0230
	-	XHJMA	Hidalgo del Parral Chih	TIM	13.5	
	+	XEFB	Monterrey NL	TP	100	1200-2400; color
		XHP	Puebla Pue	TIM	30	1645-2330
		XEZ	El Zamorano Gro	XEW	100	also 0700-1230
		XHQ	Culiacán Sin	TP	24	
		XHCV	Coatzacoalcas Ver	XEW	18	
		XHY	Mérida Yuc	TP	120	1500(Sun 0930)-2400; color
4	0	XELN	Torreón Coah	TP	4	
	+	XHIT	Chihuahua Chih	TP	43	1600-2400; has xlters in TX
		XHTV	México DF		100	0700-1230, 1500-0100
		XHG	Guadalajara Jal	TP	15	1430-2330
		XHAF	Tepic Nay	TIM		projected for 1970
		XHBS	Los Mochis Sin	XEW	110	WRTVH gives same call for a 100kw stn in Ciudad Obregón
		XHD	Tampico Tams	XEW	15	
5	+	XHAQ	Mexicali BCN	TIM	2.975	
	+	XHAE	Saltillo Coah	XEW	8	
		XHCC	Colima Col	TIM	1	
	0	XEJ	Ciudad Juárez Chih	TP	37.3	1700-2400
	-	XHFI	Chihuahua Chih	XEW	20	
		XHGC	México DF		100	
6	0	XETV	Tijuana BCN	ABC	100	0900-0100; color
		XEHL	Guadalajara Jal	TP	6	1500-2400; color
	0	XET	Monterrey NL	TIM	80	1200-2400; ant is 4428' aat
		XHTI	Puebla Pue	TIM		projected for 1970
		XHZ	El Zamorano Gro	XHTV	100	



Ch.	Off.	Call	Location	Net	Power	Comments/Schedule
6	-	XEWH	Hermosillo Son	XEW	1.6	1600-2400
		XHAJ	Las Lajas Ver	XHGC	100	0700-1230, 1500-0100
7	-	XHAD	Saltillo Coah	TIM	10.62	
		XHBZ	Colima Col	XEW		FBIS says ch 10; WRTVH, 9
		XHAA	Tapachula Chis	XEW	4.4	1500-2400
		XEX	Paso de Cortés Méx?	XHTV	325	not listed in MPM
		XHBN	Oaxaca Oax	XEW	0.4	
		XHBP	Tehuantepec Oax	TIM		projected for 1970
		XHBT	Culiacán Sin	XEW	6.8	
		XHMZ	Mazatlán Sin	TP	8.5	
	-	XHTN	Nogales Son	TIM		projected for 1970
	0	XHAB	Matamoros Tams	XEW		FBIS: XELD 2.9kw here
		XHGO	Tampico Tams	TP	50	1520-2400; Sun. 1000-1300, 1600-2400
8		XHTX	Tuxtla Gutiérrez Chis	XEW	8.15	also 1100-1530
	0	XHBU	Ciudad Jiménez Chih	XEW	0.5	
		XHTM	México DF	TIM	316	1200-2400
	0	XEUS	Hermosillo Son	ed.	1.6	2000-2300
		XHAH	Las Lajas Ver	XEW	325	also Córdoba y Orizaba
		XHBQ	Zacatecas Zac	XEW		
9	+	XHBW	Monclova Coah	XEW		
		XEQ	Altzomoni Méx?	XEW	325	
		XHTQ	Querétaro Gro	TIM		
		XHTP	Mérida Yuc	XEW	120	color
10		XHK	La Paz BCS	TP	7	
		XHA	Durango Dur	XEW	0.425	
		XHL	León Gto	TP	150	
		XHKW	Morelia Mich	XEW	30	
		XHCB	Tepic Nay	XEW		WRTVH says XHGB ch 9, 0.65kw FBIS says ch 13
	+	XHX	Monterrey NL	XEW	329	1200-2400
		XHEK	Ciudad Obregón Son	TIM		
	0	XNTH	Hermosillo Son	TIM	2.7	
		XHAI	Las Lajas Ver	XHTV	325	0700-1230, 1500-0100
11	+	XHO	Torreón Coah	XEW	12	
		XELPN	México DF	ed.	5	
	-	XHTK	Ciudad Victoria Tams	XEW	2.4	
	0	XHBR	Nuevo Laredo Tams	XEW	40	1800-2400
12	0	XEWT	Tijuana BCN	TP	66	1800-0130
		XHAN	Campeche Cam	XEW	20	
		XHAK	Chilpancingo Gro	XEW	2	see Hermosillo
	0	XHAW	Monterrey NL	TIM	99.75	
		XHCG	Los Mochis Sin	TIM	2	
		XHOW	Mazatlán Sin	XEW	34	1000-2400
	0	XHAK	Hermosillo Son	TP		MPM & FBIS give same call for Chilpancingo
13		XHAG	Aguascalientes Ags	XEW	0.075	
		XHDT	México DF		326	
		XHBL	Culiacán Sin	TIM		
		XHLL	Villahermosa Tab	TP	7	
		XHST	Mérida Yuc	TIM	54	
20	+	XHBB	Ciudad Juárez Chih	TIM		projected for 1970
23	0	XHS	Ensenada BCN	TP	1	1800-0200

Previous listings of a ch 16 in México DF and ch 34 in El Zamorano no longer appear.  
We hope to have a listing of Mexican FM stations prepared in the near future.



# AROUND THE CLUBS 1971

MWDXC (MIDWEST DX CLUB) GAVE OUR MAP/LIST PROJECTS A PLUG IN THEIR APRIL ISSUE. THIS IS A FAST-GROWING YOUNG CLUB OF 125 MEMBERS, ADDING 15-20 NEW MEMBERS MONTHLY. SOUNDS LIKE THE GROWTH RATE WE HAD A COUPLE YEARS AGO IN OUR "INFANCY." ALTHOUGH THE CLUB WAS FOUNDED ON AN IDEA AROUSED AT THE 1967 ANARC CONVENTION JUST AS WTFDA WAS, THEY TOOK A LITTLE LONGER TO START THEIR FAST GROWTH AS WE EXPERIENCED RIGHT FROM THE OFFSET. MWDXC (WITH WHOM WE EXCHANGE REGULARLY) OFTEN HAS ARTICLES NEVER SEEN ANYWHERE ELSE IN DX PUBLICATIONS, DRAWN FROM NEWSWIRE, NON-DX PUBLICATIONS, AS WELL AS OTHER CLUBS AND THE USUAL SOURCES. ITS NO WONDER THEY ARE EXPERIENCING SUCH GREAT GROWTH. THEIR APRIL ISSUE WAS ALMOST AS LARGE AS OURS, BUT AT LOWER COST TO MEMBERS OF \$3/YEAR, (\$5 FIRST CLASS). FOR FURTHER INFORMATION, WRITE HQ AT 6636 DAVIS ST., MORTON GROVE, ILL. 60053. (ALL-BAND CLUB).

MWDXC ALSO REPORTS THAT NEW JERSEY'S EDUCATIONAL NETWORK WAS TO DEBUT IN MARCH WITH THE OPENING OF THE FIRST STATION TRENTON, CH. 52 WITH 12 HOURS WEEKLY OF PROGRAMMING NJ-ORIENTED. THIS STATION WILL PUT A PRIME SIGNAL INTO PHILADELPHIA, ALTHO ABOUT 1 OCTOBER CAMDEN-CH. 23 WILL OPEN NEARER PHILLY. NEW BRUNSWICK-58 AND MONTCLAIR STATE COLLEGE-50 WILL AUGMENT THE COVERAGE LATER. (FROM TOM SUNSTRON/NNRC, AS REPRINTED IN MWDXC JOURNAL).

RADIO TODAY SUBSCRIBERS HAVE PROBABLY ALL GOTTEN THE WORD BY NOW BUT HERE IT IS ANYHOW: IT HAS CEASED PUBLICATION. S9 WILL TAKE OVER THE MAILING LIST FOR UNEXPIRED SUBSCRIPTIONS ON A ONE FOR ONE BASIS; THOSE INTERESTED IN HAM RADIO CAN HAVE ONE ISSUE OF 73 FOR EACH 2 ISSUES OF RADIO TODAY, IF THEY SO INFORM THE PUBLISHER. WHILE NO CASH REFUND IS OFFERED, THIS IS STILL A MORE EQUITABLE THAN THE UNDERHANDED METHODS USED BY PE, S&E.. RE MY PERSONAL QUARREL WITH S&E OVER MY \$10, THEY WROTE ON 8 FEB THAT MY REFUND WAS BEING PROCESSED AND WOULD BE RECEIVED IN A FEW DAYS. SEVENTY DAYS LATER NO WORD WAS RECEIVED SO THE BETTER BUSINESS BUREAU WAS CONTACTED.

## FM MAPS:

THE FM STATION ATLAS HAS BEEN PUBLISHED, AND PAID UP DXERS HAVE RECEIVED THEIRS ALREADY OR WILL SOON. THE SIZE WAS REDUCED TO  $5\frac{1}{2} \times 8\frac{1}{2}$  INCHES FOR COMPACTNESS, (MORE EASILY FITS IN YOUR GLOVE COMPARTMENT), BUT OTHERWISE IT IS THE SAME MAPS, REDUCED BY THE PRINTER. THEY WERE PRINTED BY THE OFFSET PROCESS, BY THE WAY. SEND REMITTANCES TO: BRUCE ELVING

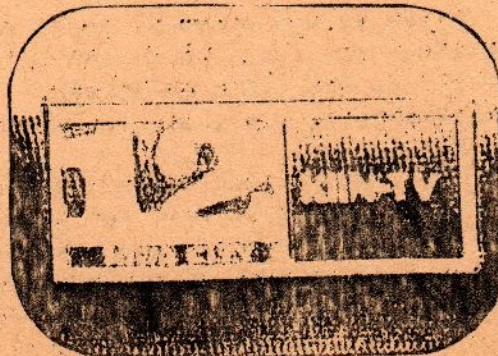
3000 N. OAKLAND AVE.  
MILWAUKEE, WI 53204

PRICE STILL  
ONLY \$2.00.

## BRIDGED-TX

THE ARTICLE APPEARING IN THE MARCH VUD ABOUT CONSTRUCTION OF THE BRIDGED-T FILTER, THE EDITOR REMARKED THAT A MORE STRENUOUS POINT SHOULD BE MADE FOR CAUTION INSIDE A TV SET. THE HIGH-VOLTAGE CIRCUITS FEEDING THE PICTURE TUBE SIDE CAP HAVE 15-25,000 VOLTS! ANYTHING IN THE "HOTBOX" MAY BE GUILTY AND WIRES LEADING TO IT AND THE CRT SIDE-CAP, SO BEWARE. BE SURE THE RECEIVER IS OFF AND UNPLUGGED WHEN WORKING ON THE CHASSIS AREA TO AVOID MAJOR RISK, BUT LARGE CAPACITORS CAN HOLD A BIG CHARGE EVEN THOUGH UNPLUGGED.

PHOTOS COUTESY MORRIE GOLDMAN, CHICAGO:  
WKBW-7 IN BUFFALO, N.Y. KJIN-12 IN IOWA CITY, IA.





THIS IS UNUSUAL FOR WTFDA BUT A PLEA APPEARED IN THE CIDX MESSENGER RECENTLY AND WE THINK IT IS NOTEWORTHY FOR WTFDAERS AND PARTICULARLY CANADIANS. CIDX HAS BEGUN A FUND FOR A QAV IN CANADA, ALBERT MADDER. HE IS A DXER LIVING ON PENSION, BUT WITHOUT A RECEIVER ON WHICH TO DX. TO QUOTE AL: "...I HAVE NO FUNDS AND I HAVE BEEN WITHOUT A RECEIVER FOR 7 MONTHS SINCE THE TORONTO RADIO CLUB TOOK IT BACK...I HAD IT ON LOAN FOR 2 YEARS. HERE IS THE STORY: I AM A VET, WORLD WAR 2, DISABLED 1939-45, FROM DIEPPES, FRANCE. I GET A PENSION OF \$200/MONTH; THIS HAS TO KEEP THE HOUSE GOING, AND TAXES AND FOOD. TAXES ARE \$300/YEAR. THE (WIFE) CAN'T WORK FOR HEALTH REASONS. I HAVE MY DAUGHTERS' TWO CHILDREN (AGES 5 AND 6), BECAUSE THE MOTHERS ARE BOTH IN JAIL FOR OVERDOSE OF PILLS. THURSDAY MY 18 YEAR OLD BOY RAN AWAY FROM HOME BECAUSE OF NO MONEY OR FOOD; HE WAS IN THE 11TH GRADE. I JUST CAME OUT OF THE VETERANS HOSPITAL: KIDNEY STONES; ARTHRITIS IN THE LEGS, ARM AND LOWER BACK; HAVING TROUBLE WITH MY LEFT LUNG AND AM RECEIVING TREATMENT FOR THAT. SO YOU SEE, I CAN'T WORK EITHER FULL OR PART-TIME, AND A RADIO WOULD BE SUCH A GREAT HELP TO PASS THE TIME. I HAVE TRIED EVERYPLACE I KNOW, AND OTHERS HAVE TRIED, TOO. I HOPE THAT SOMEONE CAN HELP ME GET A RECEIVER. I WILL TAKE OUT \$5/MO FROM MY VET'S PENSION TO HELP PAY IT BACK....." CIDX KNOWS OF AMERICANS WHO HAVE OFFERED TO DONATE RECEIVERS BUT DUE TO PROBLEMS WITH IMPORT DUTIES IT IS IMPOSSIBLE TO SHIP ACROSS THE BORDER TO CANADA. THEREFORE CIDX HAS STARTED AN ALBERT MADDER FUND TO SOLICIT DONATIONS SO A RECEIVER CAN BE OBTAINED FOR ALBERT. IF ANY OF OUR CANADIAN MEMBERS CAN HELP WITH A RECEIVER (SHORTWAVE), OR ANY MEMBER ANYWHERE CAN PROVIDE MONEY GIFTS TO BUY AL A RECEIVER, CONTACT THE ALBERT MADDER FUND, 169 GRANDVIEW AVE., WINNIPEG, MANITOBA, CANADA. (THIS IS THE HQ OF CANADIAN INTERNATIONAL DX CLUB). I WAS ONE OF THOSE WHO OFFERED AL A RECEIVER SOME TIME AGO, BUT IMPORT DUTIES PREVENTED MY SHIPPING IT TO HIM.....FSD.O)

CIDX HAS RECOVERED FROM ITS FINANCIAL AND PUBLISHING DIFFICULTIES AND THE MESSENGER IS LOOKING LIKE OLD TIMES AGAIN. (MEMBERSHIP \$5/YEAR, OR 15¢ FOR A SAMPLE.) NASWA AND NMRC ARE REPORTED ALSO TO HAVE HAD TEMPORARY DIFFICULTIES IN 1970, BUT EVERYTHING IS BACK TO NORMAL. THIS IS AN INHERENT PROBLEM THAT CAN OCCUR IN ANY DX CLUB WHICH RELIES ON VOLUNTEER HELP. (MWDXCLUB ALSO HAD PUBLISHING PROBLEMS BUT THESE HAVE APPARENTLY BEEN RESOLVED.) ANY CLUB--AND THAT MEANS ALL OF THEM--CAN HAVE A CRISIS AT ANY TIME DUE TO SICKNESS ON THE PART OF A KEY STAFF MEMBER--NOTABLY THE PUBLISHER. OR FINANCIAL PROBLEMS MAY ARISE--SUCH AS WTFDA HAD FOR AWHILE LAST SPRING. OR A PUBLISHER OR PRESIDENT MAY QUIT SUDDENLY OF NECESSITY, SUCH AS NMRCs DID 3½ YEARS AGO RIGHT AFTER CHANGING FORMAT AND NAME TO WTFDA. IN A LARGE CLUB SUCH AS OURS WHERE PUBLISHING CAN'T BE DONE BY ONE PERSON ALONE ANYHOW, IF THE VOLUNTEER LABOR FORCE SUDDENLY SHRINKS, PUBLICATION IS DELAYED. THIS OCCASIONALLY HAPPENS TO US AND EXPLAINS LATE RECEIPT OF VUDs SOME MONTHS--OTHER THAN THE USUAL POSTAL MISHANDLING. SO BE PATIENT; WE TRY HARDER.

CIDX IS ALSO SOLICITING SIGNATURES FOR A PETITION TO SEND ELECTRON MAGAZINE WHICH RECENTLY ANNOUNCE THEY ARE DROPPING THE HAM AND SHORTWAVE DX COLUMNS FROM THEIR MAGAZINE. ELECTRON IS CANADA'S ELECTRONICS MAGAZINE, AND HAS SOME READERSHIP IN THE USA AS WELL. AMBROSE MAXIM HAS BEEN A SORT OF UNOFFICIAL LIASON MAN BETWEEN ELECTRON AND STATESIDE DX CLUBS HE BELONGS TO, INCLUDING WTFDA.

ANARC NEWSLETTER SUBSCRIPTIONS ARE AVAILABLE TO ANY INDIVIDUAL NOW AT A COST OF \$2/YEAR. SEND REMITTANCES TO: WENDELL CRAIGHEAD, 2110 W. 74TH TERR., PRAIRIE VILLAGE, KANSAS 66208. (NEWSLETTERS ARE SENT FIRST CLASS, ABOUT 4 PAGES PER MONTH.)

VOTING IS NOW UNDERWAY TO SELECT THE 1971 CONVENTION SITE FOR ANARC. THE IRCA HAS VOLUNTEERED TO HAVE A JOINT ANARC/IRCA CONVENTION, BUT THE SITE IS NOT BEEN SELECTED YET: EITHER SAN DIEGO OR TOLEDO. THE ONLY OTHER OFFER FOR THE ANARC CONVENTION IS FOR INDIANAPOLIS. DATES WILL BE ANNOUNCED IN THE VUD WHEN THE SITE IS CHOSEN.

ELEMENTARY ELECTRONICS HAS TAKEN A SURVEY AND DECIDED THAT A MARKET EXISTS FOR SWL DX COLUMNS. (SO WHAT ELSE IS NEW? WHY DID THEY DISCONTINUE SCIENCE & ELECTRONICS IF THERE IS A MARKET? (THE NEWSLETTER ALSO STATES "COMMUNICATIONS WORLD WILL CONTINUE TO BE THE ONLY NATIONAL PUBLICATION COMPLETELY DEDICATED TO THE LISTENING HOBBY." NO COMMENT.) EE WILL PROMOTE CLUBS STRONGLY IN AN UPCOMING ISSUE, SPOTLIGHTING INDIVIDUAL CLUBS IN THE NEXT 6 ISSUES. (GUILTY CONSCIENCE?) THE QUOTED STATEMENT ABOVE ALSO APPEARED VERBATIM IN THE MWDXC SO IT MUST BE A RELEASE FROM THE PUBLISHER. APPARENTLY NO ONE HAS HEARD OF COMMUNICATIONS HANDBOOK.



# BOB'S TECK NOTES

BOB's TECK NOTES

May 1971

Page One

## SUMMER TIME TROPO

The warm weather tropo period is upon us. It began nearly a month ago. Depending upon where you live in the U.S./Canada, and when warm weather finally stuck for the spring, you began to notice that the 100-200 milers which had been virtually all snow and noise all winter began to look better (on the average) and you began to note some 200-300 mile breaks along the way.

Several weeks ago (depending on when you read this) the annual springtime tropo session along the southern extremes of the U.S. and throughout the southern mid west came and went. Last year the annual springtime big tropo hit the mid west around the end of April, and not a few of us had 24-72 hours of 300-800 mile VHF and UHF tropo to keep us at the dials.

Each year, during May, there are several very decent breaks in tropo in the mid west and along the south and east coasts. Some last only a few hours (ducting) while others last for an evening, or a day or more. The exact progostication as to WHEN these breaks will occur is impossible; dependent as they are upon the formation of weather fronts and slow moving high pressure areas, internally laden with moisture. But one thing is almost certain; these breaks will and do occur virtually every year. And usually within a week or so, one way of the other, from year to year.

The only difference between years is (A) the exact region which they affect, (B) the time of day that they move into and out of any given region, and (C) how widespread they are.

Wide spread tropo sessions are a cinch to spot in the making. Even if you don't care to get hung up in weather maps and understanding weather's affects on DX. Simp,y watch your TV set or listen on your FM receiver; keep track of normal conditions and be smart enough to recognize the materializing of better than normal conditions.

The hit and miss DX'er has a problem .... he only watches the dials carefully when he KNOWS something is up. And as a consequence, he stumbles from big opening to big opening, passing over days when conditions "seem" normal. Unfortunately, stumbling from big opening to big opening gets you in on only 25% or so of the DX. The really good stuff occurs for brief periods, in only one direction, and possibly only affecting one group of DX frequencies, such as FM only, UHF only, high band only, etc.

There is no possible substitute for being an orderly, well documented DX'er. And this means that you check conditions at least three times each day, every day, in all four major directions on your compass. You check first thing in the morning, you check again around 6-7 PM, and you check again around 10 PM. You have already picked out stations that are on the furthest extremes of your receiving capabilities. This may be a 100mile UHF'er, or a 400 mile FM station. It depends, obviously, on how good your receiving installation is.

The checking process should be a system, and it should take you not over ten minutes to complete a sweep of VHF, FM and UHF in each of four directions. If you are merely checking, and not looking for new stations, it works this way:

- (1) Check your most distant VHF, FM and UHF stations to the north. Then do the same thing



to the east, south and west. These furthest-normally-received stations will quickly tell you if conditions in any quadrant are normal, down or up. Once you have checked all four directions, then you can go back and spend more time in one quadrant if it appears warranted.

Don't make the mistake of stumbling in and finding the dials full of stations, and merely sitting in that direction DXing. Before you get hung up in one direction, even if conditions are obviously UP, check all four directions. You may have a good opening east, for example, which is interesting. But at the same time, you may also have one heck of a super opening west. Which you may pass over entirely for hours because you started off in the direction where the antenna happened to be sitting when you turned the equipment on.

Now this is all pretty basic to many DX'ers. And what follows is also. But it is well worth repeating here again at the start of this DXing season because many of us forget our good habits during the winter and have to spend several weeks re-acquiring them each spring.

If you are fairly new in DXing, you may very easily get hung up on the glamour of receiving distant signals. Sure that NBC News is coming from a station 500 miles away. So what? It's the same network fed NBC News you receive locally, and there is no point in sitting down and watching it just because it is coming 500 miles to your receiver. Don't get hung up in programs! Your channel or tuning dial should never stay in one position for more than 30 seconds, until you have convinced yourself that:

(A) You have uncovered all of the DX that there is to uncover in that particular opening;

(B) Conditions are sufficiently stable that new stations are not going to pop in unexpectedly

Keep the dial moving, and the antenna rotating until you feel certain that you have the entire opening figured out. Then relax if you want to, for a few minutes, and then go back and start spinning the dial and rotating the antenna to be sure conditions haven't changed in the interim period.

Be prepared at station break time. Conditions change constantly, and one minute one station may be dominating a channel or frequency, while a few minutes later it has turned around into another dominant station. Just before station break time (say 26-27 after and 56-57 after the hour) make one last quick sweep of the dials. Pin down the most likely channels where you can catch an i. d. and then sit on that one (or those ones). There is no point in sitting on a dial position loaded with 4-5 stations, none of which are dominant and where all you are receiving is a jumble of this audio and that video, if you could be sitting on a dial position with one loud/clear dominant DX station. Clear out the easy ones first (the single dominant station channels) and then go after the jumbled channels. Often getting one positive id gives you enough information as to WHERE the DX is centered from to begin to make some tentative id's on the jumbled channels. Start with good, solid id's and id information, and you will find the tougher channels suddenly start to fall into place. Until you fit the first piece into the puzzle, the entire picture is confusing.

Finally, know about the chances for repeats and continuations. A late evening tropo opening that seems to be building, or holding steady, as stations sign off for the night, will probably be as good or slightly better at sun-up. An opening that starts off in an early morning (sun up) period has only a 50 % chance of making it again that evening. An early evening tropo session (not duct associated) has a 90 % chance of getting better as the evening wears on!



Conducted by  
David T. Janowiak

TECHNI/CORNER  
May

3661 South 46 Street  
Greenfield, Wisc. 53220

Editors Note: Bill Lipis, WTFDA member in California, sent some interesting info recently about TV audio. Bill's material is greatly appreciated, and he agreed to my editing and use of it in the Techni/Corner.

### POOR TV SOUND - WHY?

It was mentioned in recent VUDs that home tv lacks true hi-fi sound. The January and July 1969 issues of DB Sound Engineering magazine contained several interesting articles on the professional audio man's view of tv audio. Several viewpoints that were expressed regarding tv audio may be of interest to the DXer.

The FCC requires that tv transmitters be capable of 50 to 15,000 hertz audio with a maximum harmonic distortion of 3.5% and a signal-to-noise ratio of at least 55db.

The limited audio quality isn't due to the transmitters though (limiters and compressors aside), but rather the material that is being fed into them. Television audio comes from optical tracks on film, magnetic sound on film or tape, and "live" sound from the studios. Optical soundtracks have limited bandwidth (8000 hertz on 35mm and 6000 hertz on 16mm), suffer from distortion, and have poor transient response. Since the audio portion of 2" magnetic video tape only occupies a thin outer edge of the tape, it is the first to suffer when the tape curls under stresses and strains. So, we are down to the "live" sound of the small-town tv station!

Also, the audio portion of network programs is sent around on 5000 hertz inter-city AT&T lines! On top of this, CBS uses audio tones for signalling local stations, with no attempt to suppress their reception by the general public. NBC displays a blank square in the upper right hand corner of the screen, while ABC uses signalling tones that are suppressed by restricting the frequency range of the aural program material.

As bad as tv audio quality may seem, most limitations are still within your home receiver's 3" speaker and single stage audio driver. Network originations on Hollywood and NYC stations will be 15000 hertz quality; however, the lower quality (5000 hertz) lines branch out from these tv centers. Most major market tv stations and all video syndication services (i.e. Hollywood Video Center for the Steve Allen Show, etc.) use professional recording studio multi-track consoles and tape machines of the latest solid-state design. But "hidden" boom and lavalier mikes, and the non-"recording-studio" acoustics of a tv studio, only add to the mixers problem (not to mention PA systems for the studio audience and movement of cameras, etc.). However, tv audio mixer people don't cut corners in taping a show just because it's going to be fed through a 3" speaker. Their attitude is usually, "why should one listener in ten thousand with a good home sound system be penalized?"

Early in tv's history Otto Schade of RCA established (guessed) that the 525-line 4.25mc system could produce pictures approximating the same subjective quality as projected 35mm movies. Hardly any of us, however, has ever seen a ghost-free 4.25mc picture; because we can't see the tv studio monitor, we have no idea how good the system could be.

A better comparison to the average home tv set would be super 8mm film. To get more into the "philosophy of audio", some would assert that there is an "audio-visual mix". That is, since we have a tiny, fuzzy little picture we also have "pocket radio" audio.

As audio quality improves, there is an increasing discontinuity between audio and visual signals, as one author points out. Listening to big hi-fi audio while watching a tiny, fuzzy screen can be somewhat distracting. So, in a MacLuhan sense, if we are to have better audio we must also improve the visual portion so as to make the "audio-visual mix" proportional.

Local stations still have much room in which to improve their audio systems as anyone listening to a small-market station with a good speaker system knows. Such listening can net interesting distractions to the visual programming such as cross-talk, wobbling



cartridge alignment, mike clicks, and feed through of high level high frequencies from tape machines being rewound. None of these problems would be noticed through the average home tv set with its severely limited high frequency range.

Set manufacturers are not without blame as viewers can't really judge that their present sets are deficient since they have never seen or heard good tv, so can't demand improvements. A parallel exists on the video side: The general viewer never missed the dc restorer and the lack of a proper gray-scale rendition in his tv picture.

Stereo tv audio may be a good thing for the general tv viewer as the manufacturer may have to spend a few more dollars on a better audio system. In a purely audio sense, though, the big, widely-separated stereo sound will not match the small screen, unless we get a new wide video screen. Personally, I think stereo tv parallels quad-FM. That is, we really have only a dozen or so truly hi-fi stereo FM stations in the country, but instead of getting more high quality stations, we must have two more channels pushed through the air. Hopefully, with all these earth-shaking "breakthroughs", the consumer will reap the more practical things as good video and hi-fi sound.

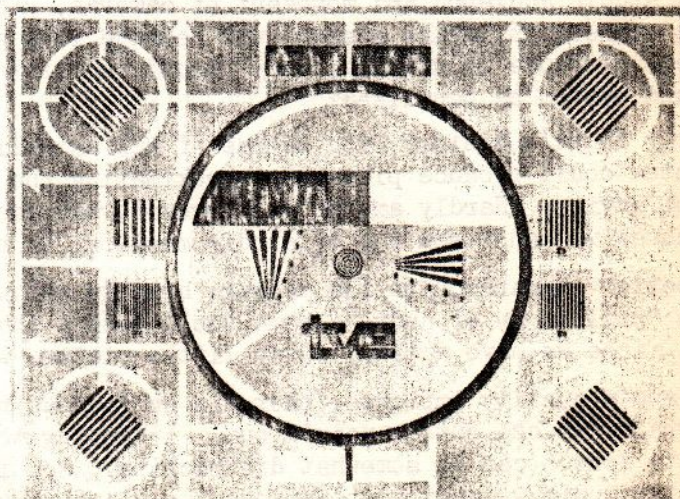
EDITORS NOTE: Bill's parallels in the last few paragraphs are well taken. People see and hear their neighbors equipment then judge their own. This often accounts, for example, for belief that their color TV is great, which it might be, based on the neighbor's poorly aligned, never-maintained receiver with rabbit ears for antenna. But great compared to how it could be -- or in most cases should be?

Bill's statement about few truly hi-fi stereo FM stations in the country also seems quite true. Barely acceptable stereo is about the most you can hope for. Now stereo buffs who can't settle for anything but the best realize that for the present ultimate in 2-channel stereo, the LP disc is the leader, with the stereo tape reproduction fairly close. FM stereo is a distant third.

Much talk is heard now about stereo TV. Whether this is the next gimmick that will grab the "keep up with the Joneses" type remains to be seen. The color TV fad is now commonplace. Video tape recorders would logically seem to be the next consumer biggie, though. With quad-stereo making its run, we can't have too much forced on the public at once. Witness the Crosley and Henry J autos, which were about five years too soon to capitalize on the now common two car family, with the compact for work and the sedan for "Sunday driving".

PHOTO OF TVE (TELEVISION ESPANA)  
IS THE NEW TEST CARD USED BY THE  
SPANISH TV NETS. MAY ALSO BE SEEN  
ON EUROPE'S MOST POWERFUL LOW-  
BANDER, CHANNEL E3 IN CANARY ISLANDS,  
OFFICIALLY PART OF SPAIN.

FROM THE EBU REVIEW OF THE EUROPEAN  
BROADCASTING UNION. SENT TO WTFDA BY  
STEW MACKENZIE, PUBLISHER OF THE  
ASWLC, (AMERICAN SWL CLUB) IN CALIF.





# STATISTICS

## ADDITIONS AND REVISIONS

Glenn Hauser, editor  
PSC Box 42309  
Kelly AFB TX 78241  
M A Y 1 9 7 1

Ch	Call	Location	Prop	Miles	DXer, Location	Old Record
2	KUTV	Salt Lake City UT	T	175	Matthew Wall, Twin Falls ID	new
6	KSBY	San Luis Obispo CA	(Es)	1415	Robert Grace, Franklin TX 77856	Shorey 1295
9	KOET	Ogden UT	(T)	150	Matthew Wall, Twin Falls ID	(KVOG) Walter 20
	CKLW	Windsor Ont		490	Dave Egan, Valleyfield PQ	Harris 380
11	KBYU	Provo UT		175	Matthew Wall, Twin Falls ID	new
13	KTVR	La Grande OR		35	Matthew Wall, Baker OR	new
29	WUTV	Buffalo NY		275	Roger Brown, East Lansing MI	Rosenberg/Lewis 55
40	WURD	Indianapolis IN		225	Roger Brown, East Lansing MI	new
45	WBFF	Baltimore MD		15	Tom Yingling, Dundalk MD	new
46	KNCT	Belton TX		70	Robert Grace, Franklin TX	new

### TV RANK

DXer, Location	Stations	States	Provinces	Countries	As of date
Gary Olson, Deerfield area IL	281	--	-	-	6 December
Bill Heusmann, Steger IL	241	37	6	5	8 April
Morrie Goldman, Chicago IL	238	39	5	4	19 February
*Fred McCormack, Des Lacs ND	212	38	6	3	11 November
Mark Lewis, Downsview Ont	207	36	7	2	7 December
Jerry Pulice, Staten Island NY	153	33+DC	3	3	5 December
Ronald LeBlanc, Marrero LA	150	30	1	6	13 December
Robert Grace, Franklin TX	149	30	2	4	6 April
Joe Kureth, Southern Pines NC	133	25+DC	4	4	10 February
Pat Dyer, San Antonio TX	127	34	2	5	14 April
Dave Egan, Valleyfield PQ	126	31	4	3	12 March
Paul Luchter, Oceanside NY	121	25+DC	3	2	11 February
Bill Heusmann, Des Moines IA	118	26	1	5	8 April
Fred Nordquist, North Syracuse NY	99	18	2	2	1 February
Thomas Yingling, Baltimore MD	67	20+DC	1	3	9 March

### FM RANK

Bruce Elving, Duluth MN	927	39+DC	3	2	5 February
*John Ebeling, Bloomington MN	564	37	4	3	13 November
Andy Bolin, Charleston IL	338	16	1	2	3 February
Fred Nordquist, North Syracuse NY	200	21	2	2	1 February
Peter Hobday, Potsdam NY	104	6+DC	2	2	21 January
Bill Heusmann, Des Moines IA	86	12	0	1	8 April
Pat Dyer, San Antonio TX	71	9	0	1	14 April
Thomas Yingling, Baltimore MD	24	8	0	1	9 March

### CHANNEL 14 TVDX RECORDS

KCSM	San Mateo CA	30	Randy Miltier, Campbell CA	
WOOK	Washington DC	190	Jerry Pulice, Staten Island NY	now WFAN
WABW	Pelham GA	860	Don Ruland, San Antonio TX	
WJJY	Jacksonville IL	610	Mark Lewis, Downsview Ont	
WFIE	Evansville IN	575	Robert Cooper, Oklahoma City OK	was ch 62
KMEG	Sioux City IA	485	Robert Cooper, Oklahoma City OK	
WJZB	Worcester MA	435	Dennis Smith, Little Creek VA	now off
WCMU	Mount Pleasant MI	285	Robert Seybold, Dunkirk NY	
WMJB	Oxford OH	370	Bill Draeb, Kewaunee WI	
KLPR	Oklahoma City OK	70	Glenn Hauser, Enid OK	now off
WEBA	Allendale SC	490	Dick Clark, Fort Lauderdale FL	

With another DX "season" getting underway, there should be lots of new records set.  
Please keep your editor informed of these and of changes in totals. Good DX! 73/Glenn



# MOBILE PHONES

A VHF RADIO  
SPECIAL FEATURE  
BY GLENN HAUSER

in the 30-50 MHz band

Next to pagers, perhaps, mobile telephone stations are the most often DXed in this VHF radio band. This information may help you to identify this DX. It's drawn from the September 1970 edition of "National Mobile Telephone Service Area Listings," published by AT&T in cooperation with the Independent Telephone Association. Try the Mobile office of your local phone company for a more recent, free copy. If this fails, write directly to AT&T, Marketing and Rate Plans Dept., 195 Broadway, New York, NY.

The overwhelming majority of mobile phone operations are in the 150 MHz band, but there remain a few in the "low" band of interest to skip DXers. This booklet shows which channels are in use in each locality, but no call letters, power, or other transmitter information. Each pair of channels (43 MHz for mobile transmit, 35 MHz for base transmit) has a telephone exchange prefix beginning with Z. On this band the pairs are exactly 8 MHz apart. Both sides of the conversation may be heard on the base frequency.

<u>Channel</u>	<u>Base Transmit</u>	<u>Mobile Transmit</u>
ZA	35.42	43.42
ZB	35.54	43.54
ZF	35.30	43.30
ZH	35.34	43.34
ZL	35.66	43.66
ZM	35.38	43.38
ZO	35.26	43.26
ZR	35.50	43.50
ZW	35.62	43.62
ZY	35.46	43.46

Note that alphabetical order does not correspond to frequency order of channels. Below we give, in frequency order, the localities listed for each channel:

- 35.26 (ZO): OREGON: Bend, Eugene, Portland, Roseburg, Salem; WASHINGTON: Bellingham, Centralia, Seattle.
- 35.30 (ZF): none listed at present.
- 35.34 (ZH): LOUISIANA: Larose; SOUTH CAROLINA: Greenwood, Verdery.
- 35.38 (ZM): ARIZONA: Tucson; CALIFORNIA: Bakersfield, El Centro, Fresno, Los Angeles, Modesto, Newhall, Sacramento, Salinas, San Diego, Ventura; UTAH: Moab.
- 35.42 (ZA): MICHIGAN: Detroit; MINNESOTA: Duluth; NEW YORK: Buffalo; OHIO: Cincinnati, Cleveland, Columbus, Geneva, Ironton, Lima, Lorain, Mansfield, Toledo, Youngstown; PENNSYLVANIA: Pittsburgh; WISCONSIN: Eau Claire, Green Bay, Madison Milwaukee, (Superior=Duluth), Wausau; ONTARIO: Toronto.
- 35.46 (ZY): CALIFORNIA: Los Angeles, Oakland, San Diego; OREGON: Glide; Lyons (2-way dial service without operator access). WASHINGTON: Langley (2-way dial service with operator access).
- 35.50 (ZR): MICHIGAN: Detroit; NEW JERSEY: Atlantic City; NEW YORK: New York; OHIO: Akron, Lorain, Steubenville; PENNSYLVANIA: Philadelphia, Uniontown; WISCONSIN: Milwaukee.
- 35.54 (ZB): IOWA: Jefferson, West Branch; MINNESOTA: Ely, Fergus Falls, International Falls, Two Harbors.
- 35.62 (ZW): TEXAS: Alpine; WASHINGTON: Langley (2-way dial service w/operator access).
- 35.66 (ZL): CONNECTICUT: New Haven, New London; DELAWARE: Wilmington; DISTRICT OF COLUMBIA: Washington; MARYLAND: Baltimore; NEW JERSEY: New Brunswick, Trenton; NEW YORK: Albany, Buffalo, Johnstown, New York, Poughkeepsie, Rochester, Syracuse, Utica; PENNSYLVANIA: Pittsburgh; RHODE ISLAND: Providence.

It is possible that when two or more nearby localities are shown for the same channel, a single transmitter may serve both. For reception reporting, the booklet gives the name of each phone company involved. Unless otherwise specified, all these channels are manual service with operator access. Prefixes beginning with Y- or J- are in the 150 MHz band, while those beginning with Q- are in the 450 MHz band. The booklet carries full details on operations on all three bands.

73 de Glenn



# VHF RADIO

Pat Dyer  
327 Solar Drive  
San Antonio, Texas 78227  
Deadline: 12th of month

MAY 1971

The South American F2 I touted so much last month sort of fizzled out on us all this time. Some spotty Es began to show up anyway.

x Hank Holbrook, 7211 Chestnut Street, Chevy Chase, MD 20015 with more QSLed DX. GMT used.

8-24: 1350, KKB 238 42.02 Meridian, MS (Dpt of Public Safety)  
2-14: 2042, KOK 344 35.22 Boise, ID (pager)  
2057, KMD 342 35.22 Fresno, CA (pager, 250 w)  
2-15: 1729, KGA 807 35.22 Baltimore, MD (pager, 575 w)

Glenn Hauser, PSC Box 42309, Kelly AFB, TX 78241 is still using the Allied A-2586 with an oblique dipole cut for 50-MHz. GMT used.

3-13: 1630, KCC 482 1804, KGD 273 4-8: 2332, KLF 527  
1759, KCC 266 1818, KGC 223

Glenn has found out a good deal about KLF 527 in Honolulu. The Hawaiian Telephone Company says it's for their 'private page' service, mostly transmits F3 mode tones with ID's about twice an hour. Seven transmitters are used with 330 watts output each. They've been received in the west and midwest of the mainland.

Now, my loggings again: Allied A-2586 with built-in whip and 30-ft indoor random wire for 30-50; hi-band, Wards model 62-1 with 2-ft whip; 50-MHz, Swan 250 with 3-element horizontal Cushcraft Yagi at 20 feet. F2 unless noted; BS-backscatter; 50 Es deleted; CST; new.

3-13: 1030, KCC 482	1549, WB5AEH (BS)	18: 1415, 50.345 har.
1120, KIM 905 (Es)	1558, W6ABN (BS)	1440, 50.405 har.
1135, KIG 300 (Es)	1600, K5AGI (BS)	1453, SDGE
1142, KCC 266	1658, KCD 658	21: 1342, KFL 936 (Es?)
1153, KGC 223	1700, KCD 346	2150, KHB 41 (tr)
1154, Scranton	KCD 244	27: 0220, KHB 41 (tr)
1200, KGE 831	1716, KDR 298	28: 0825, KHB 41 (tr)
KGD 273	14:0045, KHB 41 (tr)	1552, KFL 936 (Es?)
KGC 524	1152, KOE 257 (Es)	31: 1345, 47-Spanish
KGE 450	1235, 47-Spanish	4-2: 1320, 45-Spanish
1201, KGD 214	1312, KOG 634	4: 1450, 45-Spanish
1230, KEE 873	1325, KIM 905 (Es)	7: 1610, 45-Spanish
1250, 46-Spanish	1330, KCC 482	8: 0050, KHB 41 (tr)
1400, KCA 378	KMB 305	9: 1255, KOE 257 (Es)
1500, KEJ 451	1430, KLR 503	1318, Long Bc (Es)
KCA 695	16:0020, KHB 41 (tr)	11: 1440, KFL 936 (Es?)
1501, KCF 596	1415, 45-Spanish	12: 0345, KHB 41 (tr)
1502, KOA 748	17:0020, KHB 41 (tr)	(only Spanish 45-MHz
1507, KOG 634	18:1410, 46-Spanish	or more noted above)

K5AGI 50.1/	Slidell, LA	KCD 346 33.90	Tolland, CT-f
KCA 378 33 /	New Haven, CT-f	KCD 658 33.70	Westminster, MA-f
KCA 695 33.78	Manchester, NH-f	KCF 596 33.86	Brookfield, CT-f
KCC 266 35.58	Springfield, MA	KDR 298 33.86	Somerville, MA-f
KCC 482 35.22	Concord, NH	KEE 873 33.86	Salem, NJ-f
KCD 244 33.70	Falmouth, MA-f	KEJ 451 33.78	Toms River, NJ-cf



KFL 527	35.22	Honolulu, HA	KLR 503	33.02	Boston, MA-h
KGC 223	35.22	Philadelphia, PA	KMB 305	35.22	San Francisco, CA
KGC 524	33.78	Dover, DE-vf	KOA 748	33.90	Seattle, WA-f
KGD 214	33.90	York, PA-cf	KOE 257	43.58	Phoenix, AZ
KGD 273	33.98	Bel Air, MD-f	KOG 634	33.82	Kent, WA-f
KGE 450	33.98	Allentown, PA-f	SDGE	50.155	(ship harmonic)
KGE 831	33.78	Wilmington, DE-cf	WB5AEH	50.1/	Metairie, LA
KHB 41	162.55	C. Christi, TX-w	W6ABN	50.1/	Fullerton, CA
KIG 300	43.58	Atlanta, GA	-	35.58	Long Beach, CA
KIM 905	35.22	Charlotte, NC	-	35.58	Scranton, PA

c-county, f-fire, h-hospital, mp-mobile phone, v-volunteer, w-weather; other 35 and 43 MHz are pagers. A2 tone ID's by: KFL 936 and KMB 305.

Some 50-MHz F2 backscatter crept thru on March 13th. I have information that AZ experienced direct F2 into Argentina at the same time while also getting BS. The 27-day repeat cycle (a solar rotation) did not provide me with anything on April 9th.

A few words for the uninitiated on backscatter. This type of mode can occur with Es as well as F2 layer propagation.

To get backscatter the MUF must be high enough to provide a direct F2 or Es path to some distant point. Once the signal has reached that point a very tiny fraction of it is reflected by the ground back in the general direction it came from. Thus on 50-MHz it is possible to get signals by F2-BS from CA or FL by aiming to the south from TX. The total path length the signal may have to travel may range to 8 or 9 thousand miles plus. Signals always have a characteristic flutter or hollow sound due to the multiple paths followed. The strengths may be 30 or 40 db down from what a direct F2 signal would be.

Es-BS, due to the lower layer height, will not provide as great a range in distances. Also, due to the higher density of neutral atoms in the E-region vs. the F-layer, the more frequent electron collisions with them gives rise to higher absorption and thus Es-BS is weaker.

It has been suggested that I might give some of the slogans pagers use as an aid to IDing. With the summer Es in gear by the time you read this, here are some.

KAD 931	Pocket Phone, Kansas City	KAQ 606	Air Call, Denver
KOE 257	Air Call, Phoenix	KSC 644	Air Call, Chicago
KGC 223	Contact, Philadelphia	KCC 266	Airphone Company
Air Page,	Long Beach	KOA 796	Radio Pocket Page, Portland

Most of the other pagers simply "Radio Page(-ing)" before or after the town name. Nearly all do give call letters but these may be hard to pick out as they are not always read as individual numbers (e.g., KIG three-hundred, KIF six-fifty) and the tape loops do get worn. One can become proficient enough to recognize the voices on the pagers and make an ID that way.

So, again I hope that with the coming Es more members will give these paging stations a go and send in some reports.



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

# EASTERN TV DX

Deadline: May 14

Mail to the Eastern DX column has picked up in the last few weeks, but little DX of any consequence has been reported. If things continue this way, it could be a long, dry summer for DXer's. Conditions here in Kansas City have also been quite poor despite a new Zenith color set, a new RCA antenna, and the rotor I mentioned in an earlier column. I thought it would be a great year. Well, maybe soon? Glenn Hauser has sent some interesting observations concerning this column (the first ever received) and I would like to hear from others concerning the content published each month. This column is for WTFDA members and I would like it to provide the information desired by the readers. The main point is the need for more information concerning reception--especially VAFI ratings. I will make an attempt to include more distances, etc. (when possible) so please send more data.

Thomas J. Yingling, Jr., 221 Pinewood Road, Baltimore, Maryland 21222 (EST)  
2-6 T 0200 WNEW-5 New York, NY 2-29 T WTAF-29 Philadelphia, PA 0330  
0200 WCAU-10 Philadelphia, PA WKBS-48 Philadelphia, PA 0335  
2-27 G 2015 WBFF-45 Baltimore, MD Total now 58 stations  
Tom reports that he was the third confirmed viewer of WBFF-45 (1.5 megawatts; 1,250 feet above sea level) and caught their test signal within the first 15 minutes. Reports that station was to begin regular telecasting on April 11. Varies recently received from WKY-4, KIII-3, WTOP-9, WBAL-11, and KATC-3.

Jerry Pulice, 143 Gibson Ave., Staten Island, New York 10308 (EST)  
2-6 T 1925 WMAR-2 Baltimore, MD 160 miles VAFI 1102  
(all local stations, except WXTV-41, off due to power failure; 1925-2150)  
3-30 G 1751 WNJT-52 Trenton, NJ new local (programming noted on April 5)  
4-7 M 1546 UNID-2 retma test pattern WDCN-2?  
Jerry reports that NYC signals continue to drop as the aluminum facing is put on the new World Trade towers in Manhattan. Power failure gave Jerry his first "open" channel 2 in five years! Jerry would like to have phone numbers of other area DXer's for "early warning system." His is 212 984-7325

Rick Stein, 456 Barrymore Place, North Brunswick, New Jersey 08902  
In reference to the above report of problem reception in New York City due to construction, several of the stations will use UHF translators until new transmitters and antennas can be installed. Rick reports the following are (or soon will be) in operation to serve New York City:  
WCBS-2 on channel 53 WNBC-4 on channel 57 WNEW-5 on channel 64  
WABC-7 on channel 66 WOR-9 on channel 71 WPIX-11 on channel 73  
WNET-13 on channel 75 WNYC-31 on channel 79  
(DXer's in the New York area should be on the lookout for these as they could provide some rare DX. dp)

David Swanson, Box 331, Margarita, Canal Zone (EST)  
1-8 Es 1830 WIFM-3 Mayaguez, Puerto Rico 1055 miles  
Just guessing you'll be the right editor for this report since I'm on Eastern Standard Time here. (guess so, dp) Antenna is hanging from ceiling light on first floor room. Waiting for stuff to arrive from Allied. Have ordered Winegard SC-1000 antenna. Use Sony Trinitron and Zenith 17" (1965). Total is now 5 stations. (How many are UHF? dp)



Ronald J. Le Blanc, 2524 Arizona Drive, Marrero, Louisiana 70072

1-12 Tr	2230 WSB-2	Atlanta, GA	406 miles		
1-14 Es	1739 UNID-3	Pennsylvania			
	1800 UNID-2	New York state			
	1810 WBAY-2	Green Bay, WI	1006 miles		
1-21	1730 UNID-2,3	Spanish (also 1-22, 23)		1-24 UNID-2	Spanish (also 1-25)
1-26	1715 YSR-2	San Salvador	1132 miles		
	1730 TGV-3	Guatemala	1102		
1-27	1800 UNID-2,3	Spanish			
2-17 Tr	2130 W70AU-70	Biloxi, MS	77	VAFI 2335N	Station #159
3-26	2400 KHOU-11	Houston, TX	321	3455R	
3-27	2300 KATV-7	Little Rock, AK	350	4444R	
	2335 KTHV-11	Little Rock, AK	350	3453R	
	2400 KTVT-11	Dallas, TX	485	3453R	
	2445 WSFA-12	Montgomery, AL	289	4453R	
	2455 WBAP-5	Dallas, TX	485	4454R	
	0100 KTBS-3	Shreveport, LA	289	4453R	
	0105 KTVE-10	Ed Dorado, AK	285	4443R	
	0110 WBRC-6	Birmingham, AL	320	5554R	
	0115 KAUZ-6	Wichita Falls, TX	570	3443N	#160
	0130 KBLK-13	Lubbock, TX	741	3454N	#161
	0145 KNOE-8	Monroe, LA	213	4554R	
	0155 KTUL-8	Tulsa, OK	555	3453R	
	0205 KTRK-13	Houston, TX	321	4554R	
4-8	2130 KHOU-11	Houston, TX	321	3254R	
	KERA-13	Dallas, TX	485	1342R	
	KTVT-11	Dallas, TX	485	3254R	
	KSLA-12	Shreveport, LA	289	5554R	
	KNOE-8	Monroe, LA	213	Through local WVUE(5 mi)	
	KTBS-3	Shreveport, LA	289	4453R	
	KWTX-10	Waco, TX	441	3354R	
	KTRK-13	Houston, TX	321	3355R	
	KZTV-10	Corpus Christi, TX	485	2113R	
	XHX-10	Monterrey, NL	700	2244R	
	KPRC-2	Houston, TX	321	2245R	
	WBAP-5	Dallas, TX	485	3354R	
4-11	1900 W70AU-70	Biloxi, MS	77	3455R	WWL-4 translator
	2100 KHTV-39	Houston, TX	321	4455R	
	2131 KHFI-42	Austin, TX	460	3455R	
	2145 KHOU-11	Houston, TX	321	4455R	
	2215 WTOG-44	St. Petersburg, FL	488	4455R	
	2300 KSLA-12	Shreveport, LA	289	4443R	
	2330 KLRN-9	San Antonio, TX	510	4452R	
	2400 KTBS-3	Shreveport, LA	289	4453R	
	2405 KFDM-6	Beaumont, TX	244	5553R	
	2415 KTVT-11	Dallas, TX	485	5554R	
	2430 KWTX-10	Waco, TX	441	5554R	
	2445 KTBC-7	Austin, TX	460	5553R	
	2455 KDFW-4	Dallas, TX	485	5555R	
	0100 KTRK-13	Houston, TX	321	4455R	
	0101 KRGV-5	Weslaco, TX	558	4555R	
	0105 KPRC-2	Houston, TX	321	4455R	
	0115 KBIM-10	Roswell, NM	855	3455N	#162

Other closer stations logged during the period include: WEAR-3, WEIQ-42, WDAM-7, WTOK-11, WALA-10, WAPT-16, KALB-5, KPLC-7, WJTV-12, KLNI-15, WLBT-3, WLOX-13, KATC-3, WBRZ-2, KLFY-10, and WMAA-29.

(Glad to see that someone has had some luck. Keep it up! dp)



# CENTRAL TV DX

Roger H. Brown  
1617 Linden St.  
E. Lansing, Mi. 48823

MAY 1971

Next Deadline: May 15

FOR TV-DX ENTHUSIASTS IN WI, IL, IN, MI, OH, PA AND EASTERN CANADIAN PROVINCES

At this writing, the Central region is slowly seeing a return to better DXing conditions. No DXer in the area will say other than, "IT'S ABOUT TIME!" Two events highlighted the first three months of 1971 in this part of the country. The first: a fairly good Es opening on 1-14...the second: the fairly good tropo opening on 3-13/14 from Wi and Mi to Pa. There has been some recounting of both of these events here...there is more this month.

Don't know why these events keep coming at mid-month...too late for most reporters to make the current deadline! Now...it's happened again! After a long (30 days) period of slow warming and dry (little humidity) weather...tropo again began booming in late on the 17th with rather stable weather over the Iowa, Wisconsin, Illinois, Michigan area... more humidity and moderate (60's-70's) temperatures. Since it happened too late for reports...I'll recount my loggings...then we'll have full details next month.

No Es here this spring...but HOPEFULLY...in the next 10 days! More next month.

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

1-14 Es 1730 WEDU-3 Tampa, Fla. (1050 miles)

"This is the only thing of any distance seen or heard of this year. The tropo never got any further than Cleveland (less than 100 miles RB) and even then they're weak. Equipment is B&W TV (make? RB) with Wineguard CW-1000 antenna, 20 feet above ground. Antenna on a pole at side of house, turned by Alliance Tennarotor." (I'm sure things have improved John...hope to hear from you next month. RB)

Jim Hayes, 9 Henry Street, Wilkes-Barre, Pa. 18702 EST

1-14 Es 1630 BBRZ-2 Baton Rouge 5555R (1115)  
1700 WDIQ-2 Dozier, Al 4421R (920)  
WEDU-3 Tampa, Fla. 5554R (945)  
1715 KATC-3 Lafayette, La. 4433R (1160)

1-14 (cont) Es 1745 Pensacola, Fla.  
5545R (935)  
1800 KDFW-4 Dallas, Tx. 5545R  
(1230)  
WESH-2 Daytona Beach 2242R  
(905) w/interference complaints!

"This June-July type opening just about reached channel 5 at times. Kind of a farewell opening since nothing has been seen on TV since then."

Gary Olson, 1203 Kenton Rd., Deerfield, IL. 60015 CST

3-13 Tr A.M. WLFI-18 Lafayette, In.; KDUB-40 Dubuque, Ia. "These and many others to 250 miles exceptionally strong in morning. Reception (in No. Ill.) declined in afternoon and was almost gone by evening."

"Persistent unseasonably cold wx seems to be preventing any spring DX from coming in." (a further note on 4-17-18 per phone call to Gary...he notes fair to good tropo East and NE both evenings...to Detroit (WKBD-50, WTVS-56, WXON-62, 240 mi on 4-18) but nothing noted West...but wasn't looking.)



William J. Draeb, Ellis St., R.R.#2, Kewaunee, Wi. 54216 CST (2 reports)

- 2-14 Tr 0800 KDUB-40 Dubuque, Ia. (210)  
 2-23 Tr 1830 KDUB-40; 1907 WUCM-19 University Center, Mi. (180), WCMU-14 Mt. Pleasant, Mi. (140), WKNX-25 Saginaw, Mi. (190), WKBD-50 Detroit (260) 1913 WXON-62 Detroit  
 2-24 Tr 1610 KDUB-40; 1830 WCMU-14, WUCM-19 WKNX-25; 2110 WKBD-50, WXON-62.  
 2-25 Tr 1630 WCMU-14, WUCM-19, WKNX-25 1825 WMKG-54 Muskegon, Mi. (100) (thought they'd forfeited their License. Hmmm.)
- 3-13 Tr 0830 WEEK-25, WMBD-31 Peoria (270) KDUB-40; 0837 WICD-15 Danville (290), WLFI-18 Lafayette, In. (270) 0930 WIRL-19 Peoria. 1540 WANE-15, WPTA-21, WKJG-33 So. Bend (200); 1930 WKBD-50, WTVS-56, WXON-62 Detroit, WAKR-23 Akron (380); 1940 WJAN-17 Canton, Oh. (400); 1945 WKBF-61, WVIZ-25 Cleveland (350), WDHO-24 Toledo (270); 1947 WUAB-43 Lorain, Oh. (340); 1956 WGTE-30 Toledo; 2005 WIMA-35 Lima (300) 2010 WSEE-35 Erie (400); 2025 WQLN-54 Erie; 2031 WKBN-27 Youngstown (380); 2035 WJET-24 Erie, WFMJ-21, WYTV-33 Y'town; 2040 WPGH-53 Pittsburgh (460)

"Lots of fog 3-13. Have ordered new BTX-11a convertor...not in yet. New dish works well especially on higher channels. A few days after I put it up, received an exceptional picture on W78AJ (Sheboygan, repeating WBAY-2). They were repeating some of WBBM-2, as well as some auroral interference!" (above report received too late for last column. RB)

- 3-21 Tr W78AJ Sheboygan, W70AO Fond du Lac (in nearly every day)  
 3-30 Tr 1928 WCAE-50 St. John, In (180) 2018 W70AJ 2132 KDUB-40  
 4-4 MS KPRC-2 Houston, Tx
- 4-7 Tr W72AN: W72AA (WLUC), W75AE (WLUC) W77AA (WFRV) all Iron Mt. all new  
 4-8 Tr W72AJ (WLUC), W74AN (WWTW), W76AI (WLUC) all Escanaba, MI., all new.

On April 3, I bought a new TV...a Zenith B&W 22" chassis, no.14N22. Also, a DXC-2 post-amp from Cadco. The BTX11a hasn't come yet, so am using old BTU-2S and the DXC-2. Hope it will be different after I get the BTX-11a. (hope so too Bill. By the way, all distances given in your report were looked up hastily by myself...please pardon errors. RB)

Roger H. Brown, 1617 Linden St., E. Lansing, Mi. 48823 EST

- 3-20 Tr 2030 WMBD-31 Peoria, Il. 3205N (300)  
 3-25 Tr 1730 WTVO-17 Rockford, Il 2244R (200) WJAN-17 Canton 3344R (190) 2045 WXXW-20 Chicago 2255R (190) 2307 WSEE-35 Erie 4405R (225) near snowfree on a tropo burst.  
 3-26 Tr all evening KFIZ-34 Fond du Lac, Wi. 3335R (220), WTVO-17  
 4-6 Tr 0025 WKEF-22 Dayton 3332R (200) plus stations to 120 miles overloading convertor.  
 4-7 Tr 0745 WSEE-35 Erie 3445R (225) 2315 KFIZ-34 Fond du Lac 3335R (220)  
 4-13 Tr 1930 WURD-40 Indy 4425R (220) with deep, heavy fading.  
 4-14 Au 1800-2000 through ch 5 here... strong but no IDs.
- 4-15/16 all evening until 0200...Tr WMBD-31, WFYI-20, WURD-40, WSEE-35, WJET-24, WLKY-32 Louisville (310) WUTV-29 Buffalo (280) WPGH-53 (280) all about 3345R and steady.  
 4-17 Tr improved all day with So. Bend, Chicago Us good copy. 2030 WURD-40 4425R. 2245 WLFI-18 3344R (175), WICD-15 Danville (240) 4443R. WFYI-20 (220) 4445R. 2310 WAND-17 Decatur, Il. 4444N (300) w/lcl spot in ABC nx 2345 KFIZ-34 4445R (220)



Brown, cont.

4-18 Tr 0035 WLKY-32 Louisville 4455R (310)  
 0043 WDRB-41 Louisville 3315N (310)  
 end of "Cinema 41", SSB and call  
 slide S/Off before T/Off. Been on  
 the air 6 weeks.  
 1000 WJJY-14 Jacksonville, IL 3325R  
 (340)  
 1015 WICS-20 Springfield, IL 2225N  
 (330) with Sunday Morning Movie...  
 same as on WICD-15.  
 1200 WTVO-17, WCEE-23, both 4455R  
 1300 WKOW-27 Madison 4455R (240)

1850 KDUB-40 Dubuque, Ia (Wi)  
 2215N (310). At 2315 during late Nx  
 they were 4455!  
 2100 WEEK-25 Peoria, IL 3331N (300)  
 2300 WXOW-19 LaCrosse, WI 2441N (335)  
 WIRL-19 Peoria, IL 2341N (300)  
 (good old directional dish...)  
 2350 WKYT-27 Lexington, Ky. 3322R (310)  
 By 2330, stations were piled up pretty  
 heavily here! Looked for KFVD-21 and  
 others over 340 miles, but no sign...  
 not even light CCI. Only checked VHF  
 once...saw WREX-13 Rockford, at 1800.

Hope to hear lots more next month. I imagine (hope) there'll be lots of reports of skip so, we should be full. I will try to expand the column to include much more information, but would appreciate that at least that part of reports dealing with stations received, times, VAFI, distances (PLEASE include from now on, if you have time!) be in orderly fashion...if not, I'll edit as much as I have to.

A note or two: WUHQ-41 Battle Creek, MI. should be on in a couple of months. This should be an easy catch for Midwesterners, they plan to run something like 3 megawatts at 1000 feet plus AAT. Programming will be ABC. They've planned a start for months but have had many antenna problems. Your editor is most happy they have not been on, as I had a crack at WURD-40 (early...2300...S/off, much CW and Gospel programming), KDUB-40 and new WDRB-41. WUAB-43 had an all night auction 4-17/18...hope somebody caught it! 73s for now...Rog.

Bill Heusmann

1527 24th St.  
 Des Moines, IA  
 50311

Deep in the mid-Winter slump, we at  
 least have a little MS, that good  
 old standby, to challenge us:

Stu Grade, 2828 S. Cornelia, Sioux City, IA 51106 (CST)

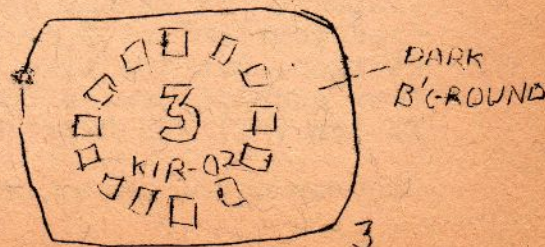
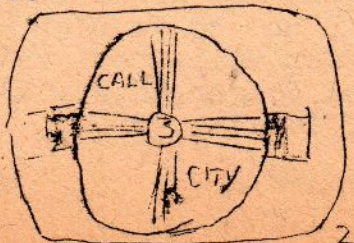
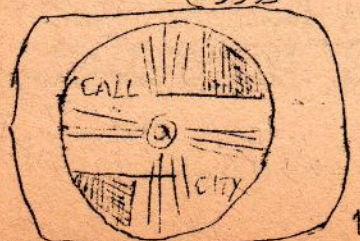
Fri. March 5 0645 MS, Ch. 2. Clocks and dials being scanned by a camera. Looked like the local public service time-temperature channels broadcast by CATV companies. Audio consisted of chimes.

Les Prus, 1615 Pierre, Manhattan, KS 66502 (CST)

Sun. March 21 0609 MS, ch. 4 to east. WLW type tp (sketch #1). Likely WLWC, Columbus. Can anyone confirm or deny?

Mon. March 29 {0531} MS, ch. 3 to east. Test pattern as in sketch #2. Center  
 Mon. April 5 {0537} '3' is white on black. Call looked like WSIA. This is almost certainly WCIA, but can anyone check on WSIL?

Mon. April 5 {0542} MS, ch. 3 to east. Slide as in sketch #3. Not positive  
 {0545} about call.  
 {0539}





Look at our growing list of members indicates there must be quite a few DX fans out there in the world. Joining the ranks lately are:

Eric and Margaret Nelson, 284 Bonanza Dr.,  
FAYETTEVILLE, N.C. 28303

Mike Dorner, Box 73057, Metairie, La. 70003

Alon W. Goss, 8200 Roberts Dr., Dunwood, Ga. 30043

Dick Stubblebine, 7402 E. 87th St., Kansas City, Mo. 64138

Harry Hein, 8655 S. Tripp, Chicago, Ill. 60652

Hank Ward, 753 Kingston Rd., Lexington, Ky. 40505

A goodly number of renewals too:

Ray Bell

John Robertson

Verrell Tallet

Dennis Smith

Roger Winsor

Fred Nordquist

Pat Dyer

And a few quick address adjustments include Glen Hauser to PSC Box 42309, Kelly AFB, Texas; Bob Cooper firmly entrenched at 2609 Chaucer Dr., Okla. City, Okla 73120; Fred McCormack settled at P.O. Box 611, Watertown, S.D. 57201; and last but not least Bruce Metzner to 104 S. Brooks, Apt. 101, Madison, Wis.

Another addition from the other side of the world is A. Papaefthychiou of the island of Cyprus. He comes to us via the encouragement of Roger Bunney. His interest in TV DX started back in 1965 and since the beginning he's snared most of the European and Middle East as well as many African stations via various modes of propagation. This new member is interested in the interdigital preamps being built by various of our members -- so, I hope you veterans will give him a little assistance!

Speaking of preamps our DX verie signer from WJBK-TV, Rod Luoma, says he's working on a low band IPA too. Rod says "hope it's all that (it's) claimed to be. No one else has commented even though I read that several guys have built them!" (Rod, why not drop a card to Dave Janowiak -- his low-band model is pretty hot!)

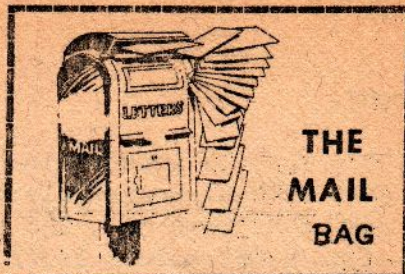
Welcome back -- to Stu Grade and Todd Schumann -- former WTFDAers who have been away from the clan for awhile. According to the latest word Todd is developing a greater interest in DXing on TV. Stu has been active on all bands and has finally made it to the status of a senior in industrial Engineering at Iowa State U.

Frank Aden reports the addition of some new equipment including a 17-element antenna and rotor. Besides that, his Hoffman TV set is all repaired for a great season of skip in an area where there's lots of open channels - Boise, Idaho. Good luck to you (and everyone else for that matter - hi) on the upcoming DX season.

A husband and wife team is now active in our midst. Eric and Margaret Nelson write "...have been working in this area for sometime and have received many hours of enjoyment out of it (DXing). It is not unusual to see us sitting in front of the "one eyed monster" at 3 or 4 A.M. hoping to pick up some distant station. But the time has been well spent as we have verifications from such places as Toronto; Bangor, Maine; Hartford, Conn.; Buffalo, NY (on VHF) and Charleston, S.C.:

WASHINGTON, D.C. AND ATLANTA, GA (UHF).

73, GARY, (MAILBAG).





# WESTERN TV DX

May 1971

Dennis Park Smith  
Music Department  
Chico State College  
Chico, California 95926  
Deadlines: 12th of each month

There were lots of reports last month—five, in fact. The problem was in mail forwarding, but this time it was my fault rather than the post office's. And, there are seven reports on hand for this latest month. Western DXers have been at their consistently great enthusiasm throughout this so-called 'slow' season; I hope none of this enthusiastic momentum has been slowed by my mistake.

This item deserves top billing. Glen Neal works at KFDO-TV 8 Elk City OK on Friday and Saturday nights. Whenever he suspects a good tropo night on those days, he puts an id slide on after sign-off, the clearest id they have, for about 30 minutes with music on the audio. Glen, perhaps it would be useful for some high-band MS logging, too; about what times is it on? Thanks very much for the information.

Es openings so far through early April have been only fair, scattered here and there, with a little Mexico and southern California identified. Lots of MS has been logged. Es dates: February- 2, 7, 12, 13. March- 3, 6, 30, 31. April- 8.

Stu Grade, 2828 So. Cornelia, Sioux City, Iowa 51106 (-through 6 March) (CST)  
Recently rejoined WTFDA after 1½-year hiatus. Equipment is 1968 Zenith 23" color and Knight V-U-FM antenna 20' high. DX has been almost nonexistent lately. March:  
4 Tr 0650 KMNE- 7 Bassett NE (fair w/Nez (4)Tr 1050 KLINE- 3 Lexington NE (ETV pgm)  
ETV TP parallel to KUON-12 & KHAS- 5 Hastings NE (NBC, KORNqrm)  
KXNE-19; 0942 over KETV) 5 Tr 0850 KHCL- 8 Albion NE (TP)  
0655 Unid- 9 (Almost certainly KPNE- 0855 KESD- 8 Brookings SD (TP, then  
North Platte NE ETV, same tone joined KUSD-2; unable to reach  
as KMNE-7; ant.SW, audio only) new KTSD-10 Pierre SD)  
0941 KHCL- 8 Albion NE (fair w/ TP) 6 Tr 0930 KQTV 2 St Joseph MO (deep 73s  
KHOL-13 Kearney NE (TPoverKSOO) fading; ABC programs, id) & DX.

Bob Cooper, Jr., 2609 Chaucer Drive, Oklahoma City, Oklahoma 73120 (Feb thru 7 Mar) (CST)

The only DXing gear of any type is that installed at plant, a large Channel-Master VHF array at 30 feet. Still nothing at home installation yet.

Feb 7 Es 1555-2105 in and out entire period with XEW-2 XHCH-2 XEZ-3 and several unid SS channel 2's.

Feb 12 Es 2005 to after 2150, XHBC-3 XHFA-2 (new, Ch-2 number 53), KNXT 2 unid channel 3.

Mar 3 Es 1300-1330, weak, channel 2, NE, no ids.

Mar 6 Es 1815-1845, weak, channel 2, NE, no ids.

The first report from the DXing team:

(March)

Matthew and Bradford Wall, 25776 Walker Street, San Bernardino, California 92404 (PST)

Equipment: Magnavox VHF-UHF 21", 20-element stacked conical 50' high, fixed E-W.

6 GW 0130 KECC- 9 El Centro CA

20 GW 1155 KPBS-15 San Diego CA

9 Tr 0120 XEWT 6 Tijuana BCN

1830 KCST 39 San Diego CA

A few minor trop openings, only San Diego stations coming through. KECC-9 is in almost every night very weak after KHJ-9 sign-off. Very weak unid signal on or near ch. 45. Looking forward to season's first skip, unless we've already missed it!

(Thanks for your first report, Matthew and Bradford. I assume your conical is a 2-bay, 10 prongs per bay, right? And you probably mean either or both XETV 6 or XEWT 12 from Tijuana? Hope to hear from you again as the season opens up. dps)

Randy Miltier, 882 Pine Avenue, San José, California 95125 (Winter thru March) (PST)

Only skip to date was noted on 3-30 by Bruce Bacon, a TV-DXer trainee who will join the club soon. Bruce reports heavy skip on ch 2 and 4 1100 to 1145, Mike Douglas show on ch 2; no ids. Bars were seen here on ch 2 on 3-31 @ 1900; nothing broke thru.

KEMO-20 San Francisco is having financial problems and will go off the air soon; in fact, I couldn't find it on the tube tonight so maybe it's already off.

Local KPMP 98.5 San Jose is now KOME-FM; format is underground. Good DX.



Don Ruland, 2714 Stetson Lane, Houston, Texas 77043

(January thru March) (CST)

As of March 6, 1971, a 35' mast with 23-element Gavin VHF antenna and JFD 15-el. UHF antenna with Alliance rotor are in use along with my 1968 Zenith color set—so I am now in position to take TV-DXing more seriously for the first time in 11 years! All underlined stations are new; no loggings under 300 miles are listed unless new.

J11 Tr 2200 WAPT 16 Jackson MS (360mi) (14)(Tr) WWUE 8 New Orleans LA (330mi)  
 (Rcvd on GE 12" color w/ 27 Tr Btw KACB-3 San Angelo TX (310)  
 UHF loop at back of set) 0530- WWL-4 New Orleans LA (330)  
 12 Tr EarlyAM KTVL 10 El Dorado AR (290) 1000 KOSA-7 Odessa TX (420)  
 M9 MS 0545 WLW-D 2 Dayton OH KSWO 7 Lawton OK (360)  
 10 Tr Btw KWTV 9 Oklahoma City (410) WWUE 8 New Orleans LA (330)  
 0600- KTVL 10 El Dorado AR KWS-8 Roswell NM (580)  
 0900. KXII 12 Ardmore OK (320) KWTV 9 Oklahoma City (410)  
 Mid- KXIX 19 Victoria TX KRBC-9 Abilene TX (310)  
 eve. KAMU 15 College Station TX KTXS-12 Sweetwater TX (340)  
 13 Tr Btw KGHT-4 Harlingen TX (290) KTVH 12 Hutchinson KS (590)  
 0600- KRGV-5 Weslaco TX (300) KLBK-13 Lubbock TX (450) (TP  
 0900 KGNS-8 Laredo TX (280) image seen "under" local KTRK)  
KTUL-8 Tulsa OK (450) KSEL-28 Lubbock(450, longest UHF)  
 14 Tr Btw WDSU-6 New Orleans (330) 31 Tr EarlyAM KWTV 9 Oklahoma City (410)  
 0530- KTAL-6 Shreveport (220) KXII 12 Ardmore OK (320)  
 0900 WTVW 7 Evansville(730, longest Tr) KFDX-3 Wichita Falls TX (tent.)  
WSIX-8 Nashville TN (630) 2200-15, mystery "TV-18" ant. ENE.

Log now stands at 59 VHF and 7 UHF. Looking forward to some E-skip, with low-band VHF being relatively open here except for local KPRC-2—but it can be pretty well weakened in several antenna directions. 73's.

Les Prus, 1615 Pierre, Manhattan, Kansas 66502

(Feb, Mar, to 7 Apr) (CST)

F3 Tr 1515 KCTV 6 Tulsa OK 2234 215 (3)(Tr) (1515) KWTV 9 Oklahoma City 4334 260

Otherwise, February was a bad month. What was interesting about Feb 3 was Wichita stations (100 mi S) were very poor while Okla. City (260 mi S) was rather strong. I think this was ducting (first time I've experienced it), duration 1 hour.

M13 Tr 2330 KTEW 2 Tulsa OK 4443 215 (13)(Tr) (2330) KTUL-8 Tulsa OK 4455 215  
KARD-3 Wichita KS 5555 100 KAKE-10 Wichita KS 5455 100  
KOTV 6 Tulsa OK 5050 215 KTVH 12 Hutchinson KS 3241 100  
KOAM-7 Pittsburg KS 4455 1 14 Tr 0130 KYTW 3 Springfield MO 3344 220

There was a north-south cold front associated with this tropo. The front didn't reach up into Nebraska, unfortunately for Marv. I also had tropo to the east (not as strong as to the south) and Kansas City 4,5,9 were blocking the Okla. City stations. KOTV 6 audio on 87.75 MHz was nonexistent as local KSDB-FM 88.1 was broadcasting.

The only DX since then has been MS; it looks like the random burst rate has been increasing during the last few weeks.

M21 MS 0555 WLW-D 2 Dayton OH 33-5 650 A3 MS 0551 WSYR-3 Syracuse (wedge)(1100mi)  
 (20-sec. burst) 5 MS 0545 unid-3 (see CCI)  
 0609 WLW-C 4 Columbus OH 2 0608 unid-3 (NBC Today)(20sec burst)  
 29 MS 0446 unid-6 IHTP (my first on 6, 0612 unid-3 (NBC Today, Biblical cartoon) (85-sec. SUPER burst!))  
 plagued by CATVqrm, wx dial) 6 MS 0537&0544 WLW-D 2 Dayton OH (650mi)  
 0531 unid-3 (see CCI) 73.

Glen R. Neal, 1005 N. 5th, Sayre, Oklahoma 73662

(8 Feb - 7 Apr) (CST)

Plenty of DX in February if anyone was at home to catch the signals.

Feb 8 Tr 1000 KFDA-10 KGNC-4 KVII-7 Amarillo TX (5555R120), 2200+ KWTX-10 Waco TX (3443R300). MS: the Aurigids shower (Feb 5-10) didn't produce much, at least no ids.

Feb 9 Tr 0900+ KOKH-25 Okla. City OK (3535L125) KFDW-12 Clovis NM. (3344R220).

Feb 10 Tr 0700+ Not much time to DX but did id these translators: K7ØBD (KGNC-4) K72CD (KVII-7) K74GJ (KFDA-10) Clarendon TX (3445N75) with K7ØBD the stronger.

Feb 11 Tr 0530-0900 K76AU (KFDO-8) K78CM (KGNC-4) K8ØAT (KVII-7) Wheeler County TX (4445N45), K79## (KGNC-4) Cheyenne OK (3445N30). K76AU was the strongest. VHF good W, SE & E. MS noted very good @ 2130+.

Feb 13 Es about 2000-2200. I was informed of a session I missed.

From W & SW, a pretty good one: KNXT 2 and XHBC-3 noted.

Feb 14 Tr 2000+ One of the better nights for tropo: stations E & SE within 200mi 5554. KSAT-12 San Antonio TX (3432R425) KTBC-7 Austin TX (3441R365). No UHF.



Feb 15 Tr Very good morning but no time to DX much. KERA-13 Dallas TX (4544R435) VHF's to 200 miles 5555, many unid translators noted.

Feb 17 Tr 0730+ The best this month. Once more, I had no time to DX. Every winter night I decide to get up early and DX, but every winter morning the bed seems more logical! However, noted KGLD 11 KUPK-13 Garden City KS (5555R185,175) + chs 70,72,74, 76,77,78,80,81,82,83! Two 76's were clashing with 20-kHz separation. PM tropo also very good. MS: two super-bursts around 1410 through ch 13!

Feb 22 MS A big surprise: @ about 1915 a 4-second burst from the west brought in KTVK 3 KPHO-5 KOOL-10 Phoenix AZ (5513 RNN 720)! I was setting on ch 10-KFDA (almost snowfree itself) and pow! I definitely got KTVK 3 & KOOL-10 ided, as both the network and offset fit. No other stations fit the description at all. No time to check ch 5 but I'm sure it was in with the rest. Also, 0-offset 2 noted, KOAI Flagstaff, no doubt. Tr 2200+ VHF very good, + K76AU K78CM K80AT good with unids.

Feb 23 Tr 0045 Strange VHF translator reception: K07FX (1 watt!) (This is xmtr power; ERP may be slightly more. dps) (KOCO-5) Fargo OK (2142N75), noted beating against KVII-7. I would estimate its "offset" as + or - 80 kHz. I have noticed this of almost all translators; hardly any are "on channel." In fact, it is possible to see as many as 10 beats per line, so it's not unusual to see vertical CCI bars instead of the more usual horizontal bars. AM & PM Tr very good also.

Feb 24 Tr in AM very good on VHF, to 150 mi. noise-free.

Feb 25 Tr AM reception perfect in all directions to 200 miles. Tr 2000-0045 very strong to SW improving by the hour: WFAA-8 KTVT 11 Dallas TX (5555R235); around 0000 noted KDTV 39 Dallas building to grade-A level; @ 0015 a surprise- 10-kHz CCI on ch 39. Strange to see CCI on UHF in these parts! Turned out to be KHTV 39 Houston TX (3331N460), my most distant UHF so far. Noted also KHFI-42 Austin TX (4545N365) building to almost noise-free at times. Bill Draeb's UHF offset list shows KHTV Houston to be -10 kHz, so KDTV Dallas must be 0 offset.

Mar 1 Tr 0550-1000 With heavy fog from Okla. City to Amarillo, translators poured in: K71BG (KFDA-10) K73AU (KGNC-4) K75AV (KSWO 7) Wellington TX (3344N45), K72CB (KFDA 10) K74BF (KVII-7) Higgins TX (3323N65), K76AU K78CM K80AT excellent, K79# (KGNC-4) K81# (KVII-7) Cheyenne OK (3443N30), K80AU (KFDA-10) K82AZ (KGNC-4) Memphis TX (3443 N70), + unid chs 70 & 83. VHF also wild: K07FX in again, this time w/ K10FR (KWTN 9) K12GA (WKY-4) Fargo OK (2341 RNN 75) (all 1 watt). PM Tr K06DF Pampa (KFDA-10) 100 watts.

Mar 3 Tr AM & PM good. Wheeler Cty xlters seem to be in here all the time. Es 2057-2103 Vy poor signal fr SE, about 2 kHz offset. Cuba? Poor at best & gone quickly.

Mar 4 With a good cold front finally through, the tropo gave up.

Plenty of tropo DX this month in this area for anyone able to stay awake, but I saw hardly any E-skip. MS was very good at times, but followed a random nature. No other form of reception was noted. With my present antenna system I am able to get at least a vertical sync bar from K76AU, 45 mi SW of here, almost all the time. However, as Bob Cooper suggested, I am sure that 100+mi translators would be a daily event with a 7-foot dish 50 feet up.

In most of March following, there wasn't much DX in quantity, but rather in quality. I can't report accurately because of lack of monitoring. From what I've heard from others in this area, however, there were two very good tropo sessions in March, both of which I caught the tail-ends of.

Mar 10-14 MS: The Bootids minor shower passed here without making much of a dent. Nothing was ided, and the MS really wasn't noted much above average.

Mar 12 With warm weather all week, the tropo was suddenly intense this AM, even better in late PM, and peaked on the AM of 13th. I missed most of it; noted, however: 1030 KOED-11 Tulsa OK (5554R230) KOED-12 Joplin MO (4443N320). 2200+ Pat Gilbreath of KFDO-TV reported seeing KTRK 13 Houston TX @ 450 mi.

Mar 13 Arose 1030: KTUL-8 Tulsa OK (5551N230), local 14-mi ch 8 in complete loss. All stations to 250 miles noise-free.

Mar 14 Tr 2100 K77AC K80AU K82AZ Memphis TX (3355 RNN 60). VHF dead.

Mar 24 Tr 1900+ First noticed a new ch-2 translator in operation somewhere SW to S of here. The CATV radiation here in Sayre just happens to be 0 offset. K02?? was beating against it, producing about 2 cycles of CCI per line; this would place their offset @ about  $\pm 30$  kHz, right? Two black bars could be seen rolling horizontally, instead of the more vertical bars associated with -10, 0, and +10 CCI.

Mar 27 Tr 1000 arose. This was the peak in tropo this month, a complete surprise. Between 1000 & 1200, seen: WLBZ-2 Baton Rouge LA (4454R600) with WAFB-9 also good.



WLBZ was surprisingly strong; after all other 300+mi signals had completely faded, it was still in strong until about 1230. Also: KATC 3 KLFY-10 Lafayette LA (4553R565) KTBS-3 KTAL-6 KSLA-12 Shreveport LA (4553R375), unid ch 7 w/-10 offset, WFAA-8 Dallas (4540R250) KWTX-10 Waco TX (5554R310) KERA-13 Dallas (4544R250) KDTV 39 Dallas good @ 1000 with custom CBs. Hope Bob Cooper caught this one! (Nope, no UHF lately. dps)

Apr 2 MS 0611 WLBT 3 Jackson MS (4534R575) w/ TP and high-pitched tone. Noted again @ 0614. Noted MS very good Apr 1, 2 & 3.

Apr 3 The unid ch 2 translator (K02??) still in, now down to one cycle/line. Would this be  $\pm 15$  kHz CCI? If so, why does 20-kHz offset CCI appear to make larger horizontal lines than does 10-kHz CCI? Further investigation into this subject of co-channel interference and another article on it would be in order....

Apr 5 Tr 0615 K06DF Pampa fair @ 60 mi. They come in here almost every day. They are 0-offset and relay programs of KFDDA-10 Amarillo TX. This would be a nice catch for some of you alert DXers on the coasts this summer, via Es! (or why not MS?)

Not one single day of Es was seen by me or anyone else in this area during all of March and so far in April. Last year had at least one day of Es during March. At this time, I have exactly 250 TV stations received. 5555s to all from western Okla.

Pat Dyer, 327 Solar Drive, San Antonio, Texas 78227 (8 Feb - 8 Apr) (CST)

Receiver: 1968 RCA color GJ721W. Antenna: Wards 11-el. hi-low VHF, 15' up, fix-aimed SE.

F14 Tr 0200 KHOU-11 Houston TX	Mi: 185	20 Tr 0045 KTRK-13 Houston TX	185
0233 KTRK-13 Houston	185	25 Tr 2225 KHFI-42 Austin TX	85
16 Tr 0030 KGBT- 4 Harlingen TX	215	M1 Tr 0124 KRGV- 5 Weslaco TX	215
19 Tr 0007 KRGV- 5 Weslaco TX	215		

The big Es splurge sort of ran out in mid February. Feb 12 MUF was into the FM band and did reach 145 MHz between Las Vegas and parts of Texas. As usual, I was busy on 50 MHz and didn't check out the TV.

This area is in midst of a serious drought since October. The dry weather, along with the noisy power lines it causes, hasn't helped out the trop at all.

M12 Tr 0005 KRGV- 5 Weslaco TX	215	21 Tr 2245 KHFI-42 Austin	85
14 Tr 0045 KRGV- 5 Weslaco	215	22 Tr 0010 KRGV- 5 Weslaco	215
0050 KHOU-11 Houston TX	185	0105 KHOU-11 Houston	185
KHFI-42 Austin TX	85	23 Tr 0005 KRGV- 5 Weslaco	215
KTRK-13 Houston	185	KGBT- 4 Harlingen	215
0055 unid 8 Mexico	?	26 Tr 2155 KOSA- 7 Odessa TX	270
unid 10 Mexico	?	27 Tr 0025 KTRK-13 Houston	185
0100 KPRC- 2 Houston	185	0040 KGBT- 4 Harlingen	215
0220 WFAA- 8 Dallas TX	240	0130 KHOU-11 Houston	185
16 Tr 0005 KRGV- 5 Weslaco	215	31 Tr 0000 KHOU-11 Houston	185
0010 KGBT- 4 Harlingen	215	KTRK-13 Houston	185
17 Tr 2100 KUHT 8 Houston	185	KHFI-42 Austin	85
2159 KPRC- 2 Houston	185		

March is usually the low month for Es and this year was no exception. 50-MHz Es did occur on March 13 and 14, the latter day being better. Some good trop days were noted in March but the yearly best stuff in this part of the country comes in April. I'm sure by the next column I should corner a few Es ID's to spice up my log with. 73 WA5IYX/5.

The traveller returns, to the San Antonio area:

Glenn Hauser, PSC Box 42309, Kelly AFB, Texas 78241 (Feb thru 8 Apr) (CST)

Rather inconsiderately, USAF decided to send me here temporarily before I could really get settled in Georgia. Consequently, I have been hesitant to arm myself with a full quota of DX equipment for this season, as I had originally planned. So far I have an AV12E, a VHF IPA Twin-Pak, and a 22-element VHF antenna. At first, however, I had only rabbit ears for antenna.

F18 Tr 2300 KZTV 10 Corpus Christi (Griffin)	Mar	(435 mi on 'ears)
19 Tr 0645 KGNS- 8 Laredo TX (TP)	14 Tr 0800 KNOE- 8 Monroe LA (1st school pgm)	
0655 KTBC- 7 Austin TX	18 Tr 0645 KHOU-11 Houston (0730 Capt Kang)	
20 Tr 0759 KIII 3 Corpus Christi TX (id)	0648 KWTX-10 Waco TX (IDslidew/STIs)	
	Es 1703	- 2 Signs of skip

The other Houston and Corpus stations have also been seen a few times. 73.

Best of DX to all

Dennis