

**KOMU-TV**  
Columbia

**WMBD-TV 31**  
WDEF

**WOLO-TV**  
columbia 26

**WVBT**

# VHF-UHF DIGEST

**40**  
abc

**10**  
abc

**18**  
abc

**27**  
abc

**13**  
abc

**WTVT**

**KVRL-TV HOUSTON**

**23**

**20**  
MONTGOMERY

**44**

**WCOV-TV Channel 44**

**Wink TV**  
NOV. 1975



**19**  
METROPOLITAN TELEVISION

**WFSU-TV**

**3**

**TV 35**  
W.S.W. WRET-TV  
CHARLOTTE

**KGNS tv 8 in Laredo**

**13**  
macon.ga.

**WBNS-TV**

**WTAP-TV**  
parkersburg  
marietta

**TV 25**  
EVANSVILLE

**10**

**WXIA-TV**  
ELEVEN/ATLANTA

**WTEB**  
WDCB/CH. 28

**WHTZ-TV**  
"Hester's Memory" (1975) Cold War thriller about a scientist who sends himself on a terrifying odyssey into the past. David McCallum, Susan Strasberg. (2 hrs.)

**CHAS-TV 27 SEP 74** wyea-tv 38  
VANCOUVER, B.C. columbus.ga.

**WUTR tv 20**  
Utica, N.Y.

**WCWB-TV**  
**41**

**WVMA-TV**  
Lynchburg

**WLIQ**  
LIMA, PA.

**KOLR**  
CHANNEL 10

**WTVK 26**  
KNOXVILLE, TENNESSEE

**WTVV CHANNEL 9**

**WVTE-TV**  
6  
KROKVILLE

**WVBC-TV 50**

**WHO-TV 13**

**10**  
KLFY-TV

**38**  
WLOS-TV

**13**

**KODE-TV 12**  
LAFAYETTE, LA.  
KTVV  
NHC-AUSTIN

**KSLA TV 12**  
Son of Loco Legos  
J. Comber/E. Sisman

**WAAY-TV 31**

**32**  
WLKWT

**WHT**



# publishers' notes...

WTFDA HEADQUARTERS, P.O. BOX 163, DEERFIELD, IL 60015 USA

ONE MOMENT PLEASE...due to an unexpected surge of orders and a low inventory, we temporarily ran out of supply of the publication "Beyond Shortwave." Another printing is currently in work, and all outstanding orders should be shipped within the next thirty days.

1976 WTFDA CONVENTION...as of this writing we have received only one bid to host the 1976 WTFDA Convention. While we only need one location, we are extending the deadline another month, to December 15, for submitting any additional bids. Please notify Don Ruland (4448 68th Place, Kenosha, WI 53140) if you would like to host the convention. Be sure to include a brief summary indicating the type of facilities, activities, timing, etc. you would arrange.

NEW STATISTICS EDITOR NEEDED...after several years of faithful service to our club, Glenn Hauser has elected to give another member the opportunity to edit the TV portion of the "Statistics" column. See Glenn's comments on page 10 of this issue and then contact Don Ruland if you would like the job.

DX DIALOGUE...still another way to sell DXing and the WTFDA to potential hobbyists appears on pages 29-31 this month. Member Clarke Ingram's interview on radio station KKA (Pittsburgh) provides some most interesting reading.



# WTFDA MAILBOX



John Zondlo  
6617 Maryland  
Hammond, IN 46323

Greetings. Plenty of new members this time around so here goes:

John Anderson	Box 186	Lowe Farm, MB ROG 1EO
Edward W. Cadmus III	123 Somerset #1	New Brunswick, NJ 08901
Bob Curole	P.O. Box 594	Golden Meadow, LA 70357
Eric Engelberg	9824 Watts Branch Dr.	Rockville, MD 20850
Werner Homann	04 Michael Brink St., 1740 Mindalore Kriegers- dorp (sic)	Transvaal, S. Africa
Bob Jacoby	1755 Purdue, #105	Los Angeles, CA 90025
William H. Johnson	5595 Clarendon Hills Rd., Apt. 201	Clarendon Hills, IL 60514
Richard A. Krzemien	1 S. 445 School Ave.	Lombard, IL 60148
John Kubinsky	330 Nadona Ave.	Johnstown, PA 15904
Andrew Mahoney	R.R. 53, Box 400	Terre Haute, IN 47805
Mike Maloney	1500 S. Elm	Bartlesville, OK 74003
Billy J. Montgomery, Jr.	Box 20304	Bergstrom AFB, TX 78743
Roderick O'Connor	U.S.C.G. Base	Southwest Harbor, ME 04679
Arthur Prutzman	302 Wyoming Ave.	Kingston, PA 18704
Stewart W. Reed	818 Steele Blvd.	Baton Rouge, LA 70806
John R. Sally	29926 Truman Ave.	Wickliffe, OH 44092
Todd E. Schumann	2606 W. 105th St.	Chicago, IL 60655
Carl E. Shands	432 S. Spring Ave.	Tyler, TX 75701
Ralph Strobel	2510 E. McGalliard Rd.	Muncie, IN 47303
Martin J. Theil	12 Princeton Dr. E.	Holiday, FL 33589
Richard Turcsany	7 Cayer Circle	Shelton, CT 06484

Renewals: Jim Alexander, Roger Bortree, Mike Bugaj, Richard Clark, Gregg Calkin, J. Combs, J. Dyer, Ron Fenton, Jack E. Finzel, Robert E. Fischer, Marvin David Grimshaw, Michael Hogan, Greg Kelley, Nick Lombardi, Joe Longmoore, Mark Lucas, R. Lundblade, L. McCown, Victor K. Melis, Jimmy Morris, Dan Myers, Walter Patton, Royal Randall, Marv Robbins, David Shapiro, L. Weil, M. Wimer, Ron Wing, Roger Winsor, Steven C. Wiseblood.

New Address: Mark Lewis - Apt. 1008, 180 Cherry Hill Circle - London, ON  
N6H 2M2

Manitoba's JOHN ANDERSON is wondering if anyone in the WTFDA has ever used rhombic antennas for TV or FM DX. John's present antenna is a 25 element VHF "Dumont", mounted on a mast 40' high, using an Alliance Tenna-Rotor.

EDWARD W. CADMUS III DXs with a Realtone 2517. He is also a member of NRC.

FM, TV, SW, and BCB are among the DXing interests of ERIC ENGELBERG. Eric's gear includes a Lloyds 9N11 8 band, Sky Buddy by Halicrafters 4 band, and a Sharp 2K-31A portable TV.

I can only hope that I printed WERNER HOMANN's address correctly..... it has to be the longest address I've ever seen. Werner is employed as a technician, and his current DX interests include TV and FM.

WILLIAM H. JOHNSON is a 26 year old banker who DXs TV with a color TV, a B&W portable, and a radio with TV audio.

College student RICHARD A. KRZEMIEN is also a member of NASWA, ASWLC, and ANDEX. Richard pursues TV DX with a 10" G.E. color TV.

Primarily a shortwave DXer, JOHN KUBINSKY's gear includes a Panasonic 8 band receiver.

Terre Haute's ANDREW MAHONEY is interested in FM DXing, and found out about the club thru the ANARC newsletter.

MIKE MALONEY was referred to WTFDA by Richard Allen. Mike is mainly interested in FM DXing, and he uses a Sony 7055 receiver coupled to a 7 element LPDA of his own design. The best catch for Mike so far this year is KMCR in Phoenix.



Air traffic controller BILLY J. MONTGOMERY, JR. is stationed with the Air Force at Bergstrom AFB, just outside of Austin. Billy's DX gear includes a Grundig Satellite 6000 portable.

This seems to be serviceman's month in WTFDA, as Coast Guard member ROD O'CONNOR joins the ranks. Rod's shack features a Panasonic RP888 receiver and a Sharp 12" TV. He also has access to government radio equipment located in the Communications Building on the base.

TV, SW, and MW are the DX interests of STEWART W. REED. He is also a member of NASWA and pursues DX with a Sears 16" B&W set and a 50' tower topped off by Jerrold Vip 307 and JuP4 antennas.

Joining us from the beautiful city of Muncie, Indiana, is RALPH STROBEL. Ralph is an Assistant Professor of Music at my alma mater, Ball State University. His DX equipment includes a Heathkit AJ1510 receiver and a Winegard antenna.

The shack of MARTIN J. THEIL features an RCA 16" TV, a Hallicrafters S-38 receiver, and a rabbit ears antenna.

From the state of Connecticut comes new member RICHARD TURCSANY. His best TV DX catch is WPHL 17 Philadelphia, which he received on his Magnavox B&W portable.

#### Tidbits.....

Member J.L. Best of San Diego writes, "My primary goal at this time is to improve and make consistent my reception of television and FM from Los Angeles and other points within--say--150 miles of here. I live on a high plateau where reception conditions are exceptionally good. I am using a 7 foot parabolic with preamplifier for UHF and a top-of-the line Channel Master VHF antenna. ...I am especially interested in improving my reception of low-power transmitters between 88 and 92 mHz (FM)." He is presently planning to experiment with traps to eliminate harmonics and side-band splatter on TV.

Chuck Herman (317 N. River Rd., Fox River Grove, IL 60021) would like to correspond with club members who are interested in exchanging ideas on VHF-UHF utility DXing.

Kenneth D. Bird (4160 S. 4000 W. #113, Granger, UT 84120) would like to hear from members in the Salt Lake area who could help him in setting up for TV-FM-UHF DXing.

Mark Lewis, a charter member of WTFDA, has just moved from Downsview to London, Ontario (Note new address on 1st page of Mailbox). Mark is completing his final year at the Faculty of Law at the University of Western Ontario in London. His legal "specialties" include Broadcasting and Communications Law, Income Taxation, and Corporate-Commercial law. He hopes to be admitted to the Bar in February '78. As far as DX gear goes, Mark has a Delhi 5' dish for UHF, an Archer FM-6 antenna for FM, a Heathkit AJ-15 tuner, a G.E. 20" color TV with detent UHF tuning, an outboard Jerrold VHF Varactor Diode CATV "converter" tuner, and a Juliet portable radio for 30-50 and 110-175 mhz reception. Mark's apartment in London is on the tenth floor, so DX conditions should be interesting, if he ever finds the time to DX, that is.

DX conditions here have been unbelievably bad during September, with only a few good openings here and there. If you have any news to share with the members of WTFDA, please drop a line this way. See ya.....jz





# FCC NEWS - DATA

Dave Pomeroy  
KTWU-Channel 11  
Signal Hill  
Topeka, Kansas  
66604

November 1975

## AUTHORIZED STARTS

- \*KHIN-36 Red Oak, IA Sept 5
- \*WLPB-27 Baton Rouge, LA Aug 29
- \*WEAO-49 Akron, OH Sept 4
- \*KBIN-32 Council Bluffs, IA Aug 21
- \*WJWJ-16 Beaufort, SC Aug 21
- \*WRJA-27 Sumpter, SC Aug 28
- KDTV-60 San Francisco Aug 7
- KMXN-23 Albuquerque, NM Aug 6
- \*WAPB-27 Annapolis, MD July 14
- \* non-commercial PTV station

## CP's GRANTED

- \*Monroe, LA (13) 316kw 1777AAT
- \*Pierre, SD (4) 100kw 1280AAT
- \*El Paso, TX(7) 302kw 743AAT
- \*Fayetteville, AK 297.5kw 1349AAT
- \*Fresno, CA (18) 513kw 2223AAT
- \*St. Cloud, MN (25) 575kw 560AAT

## APPLICATIONS

- New Haven, CT (59) 1627kw 756AAT
- Philadelphia (57) 1815kw 1176AAT
- \*Reno, NV (5) 31.05kw 2002AAT
- \*Boynton Beach, FL (42) 44kw 496AAT
- Philadelphia (57) 652kw 286.3AAT
- San Juan, PR (18) 1080kw 1160AAT
- St. Louis, MO (24) 1142kw 962AAT
- \*Salinas, CA (67) 14.8kw 2100AAT
- Gallup, NM (5) 100kw 200AAT

## NEW CALL LETTERS

- \*KYIN Mason City, IA
- KPRY-TV Pierre, SD
- \*KCO5 El Paso, TX
- KDOG-TV Houston, TX was KVRL-TV
- WPFO-TV Pittsburgh, PA
- WCCB Charlotte, NC was WCCB-TV
- KLMN Ft. Smith, AK
- KTVJ Joplin, MO was KUHI-TV
- \*WEAO Akron, OH
- WOWT Omaha, NE was WOW-TV
- \*KTIN Ft. Dodge, IA
- WXAT-TV Atlanta, GA was WHAE-TV

## ADDITIONAL TV APPLICATIONS

- St. Cloud, MN (41) 1000kw 800AAT
- Dallas, TX (27) 500kw 1670.3 AAT
- West Point, VA (46) 525kw 480AAT
- Memphis, TN (14) 10.3kw 215AAT
- Abilene, TX (15) 1430kw 1978AAT
- St. Louis, MO(40) 62.1kw 372AAT

## TRANSLATORS DELETED

- K58AB Lockhaven, PA
- K07GH Geraldine, MT

STATION OFF THE AIR(Unofficial)  
KCND-12 Pembina, ND

## FROM THE READERS...

September 1975 issue of the Maryland Center for Public Broadcasting "Network News" says that record reception of new WAPB-22 is held by "hobbyist who received channel 22 in Buffalo, NY during unusual weather conditions."...WLPB-27, first station to be authorized to the new Louisiana Educ. Television Authority was scheduled for the first day of operation on September 2... WAE0-49 in Akron, OH began operation as satellite of WNEO in Alliance; both are PBS...Iowa Educational Broadcasting Network now has six transmitters on air with addition of KHIN-36 and KBIN-32 (both seen here testing, dp) which went on the air at 4pm on September 7...KCND-12 in Pembina, ND has been closed and that channel put to use as CKND-TV in Winnipeg, Manitoba; KCND was ABC--CKND is independent...The FCC has said it will discontinue authorizing new UHF "translator-boosters", only 9 are authorized and no new applications have been received for many years...WGPR-62 in Detroit should be on the air by now as nation's first black-owned television station... WSWB-35 in Orlando, FL is reported to be in financial trouble, station sold, will probably remain on the air...Iowa ETV network and KVPD-21 in Ft. Dodge are attempting to switch channel 21 (NBC) to non-commercial PTV use; KVPD would return to old, shorter tower near Ft. Dodge and move to channel 50. (This may not be the case, however, as Bob Seybold has reported viewing channel 46 from Ft. Dodge which Iowa had CP for and planned to activate this fall. Bob saw Iowa channel 46 on September 8...Plan for statewide Kansas Public Television Network has been prepared and will be submitted to state legislature in January. Plan calls for 7 transmitters including existing KPTS-8 and KTWU-11 as well as 11 UHF translators...Thanks this month to Frank Hostetter, Bruce Elving, Robert Baker, Fred McCormack, Ken Simon, and Morrie Goldman.

EDITOR'S NOTE: I will try to get back on a monthly schedule so please send me your local station news...Construction of new 1,608 foot tower for Orlando stations WDBO-6, WFTV-9, and WMFE-24 has begun near Bithlo, FL...WXXW-20 in Chicago is off the air and will be until further notice (I was in the WTTW/WXXW facility in early October and was told that WXXW would probably not return; use of ITV service by too few schools was given as reason...and finally, first two stations in South Carolina's "second network" are on the air; WJWJ-16 and WRJA-27; both have local production facilities.



# FCC FM NEWS

Bruce Elving, Editor

18 1/2 E. Fifth Street/Duluth MN 55805

## New Construction Permits

AK Kodiak \*100.1 3000; 3<sup>1</sup>/<sub>2</sub> 5, 20 miles  
AR Fort Chaffee K224AG 92.7 (temporary  
translator of KFFM-AM Ft. Smith AR; CBS.  
A quicker-than-usual action resulting in  
what I consider to be a dangerous precedent—  
rebroadcasting AM stations on FM)  
CA Bishop K221AD 92.1 [KSRN Reno 104.5] \$  
m I (not deleted as I previously thought)  
GA Chatsworth 99.3K640 h,v; 583<sup>1</sup>/<sub>2</sub> 15, 45 m  
HI Waialua and Wahtana K217 \*91.38 [KTUH  
\*90.3 Honolulu HI translator], rc  
IA Pella 103.3 58770; 33<sup>1</sup>/<sub>2</sub> 28, 78 m.  
TX San Antonio \*91.78 140; 120<sup>1</sup>/<sub>2</sub> 4, 18 m.  
WA Seattle K277AA 103.3 \$ [KIXI-FM 95.7  
Seattle WA translator; first commercial FM  
translator granted on non-class A spot]  
WV Williamson 96.5 14200; 823<sup>1</sup>/<sub>2</sub> 33, 74: An  
initial decision, subject to reversal.

## On the Air and DX Ready!

AL Jacksonville WJLS-FM \*91.9 10 watts  
CO Breckenridge KLG7 102.3 3000 h,v; \*230<sup>1</sup>/<sub>2</sub>  
has stereo and SCA. CO Oak Creek KFNU  
103.9 165 watts h,v; 1030<sup>1</sup>/<sub>2</sub>. DE Rehoboth  
Beach WLRB 92.7 3000 h,v; 300<sup>1</sup>/<sub>2</sub>. \$, m, but  
poor quality; music dubbed from cassette.  
FL Cape Coral WRCC 103.9 3000 h,v; 300<sup>1</sup>/<sub>2</sub>  
GA Savannah WNCJ \*88.5 10 watts  
IN Indianapolis WJEL \*89.1 10 watts h, v  
LA Natchitoches KNMD \*91.7 10  
MA Franklin WGAO \*91.3 10  
TX Kerrville KPFM 94.3 3000 h,v; 105<sup>1</sup>/<sub>2</sub>  
VA Kilmarnock WKRI 101.7 1900 h,v; 235<sup>1</sup>/<sub>2</sub>  
WA Near Bay KRNK-FM \*90.1 10 (Calls, too

## On air with Changes (Selected)

AL Tusculum WYNA-FM 100.3 100000 h,v; 245<sup>1</sup>/<sub>2</sub>  
DC Washington WGAY-FM 99.5 17000 h,v; 770<sup>1</sup>/<sub>2</sub>  
GA Waycross WAYX-FM 102.5 100000 h,v; 200<sup>1</sup>/<sub>2</sub>  
IL Ottawa WOLI 95.3 (having moved from 98.3  
with 3000 h,v; 185<sup>1</sup>/<sub>2</sub>; still monophonic.  
KS Topeka KTOP-FM 100.3 5300 h,v; 260<sup>1</sup>/<sub>2</sub>  
MI Birmingham WJHE 94.7 10000 h,v; 950<sup>1</sup>/<sub>2</sub>  
MI Marquette WMMR \*90.1 100000 h,v; 970<sup>1</sup>/<sub>2</sub>  
soon \$; telemetry SCA "birds chirping."  
MI Sault Ste. Marie WSMH 99.5 (from 92.7),  
26500 h,v; 275<sup>1</sup>/<sub>2</sub>. \$, kr (not m), UPI Audio  
MN Rochester KWKK 96.7 3000 h,v; 295<sup>1</sup>/<sub>2</sub>. \$, r  
NY Fulton WKFH 104.7 50000 h,v; 310<sup>1</sup>/<sub>2</sub>. \$, r  
NY Utica WTLB-FM 107.3 3500; 500<sup>1</sup>/<sub>2</sub>: said to  
be much better in Syracuse now.  
OH Zanesville WHIZ-FM 102.5 20000 h,v; 490<sup>1</sup>/<sub>2</sub>  
OK Bethany KGOY 104.9 1800 h,v; 255<sup>1</sup>/<sub>2</sub>  
OK Tulsa KKUL 103.3 100000 h,v; 195<sup>1</sup>/<sub>2</sub>  
OR Roseburg KR5B 103.1 2750 h,v; 310<sup>1</sup>/<sub>2</sub>  
VA Roanoke WVRW-FM \*89.1 100000 h,v; 1970<sup>1</sup>/<sub>2</sub>  
WI Delafield WHAD \*90.7 79000 h,v; 700<sup>1</sup>/<sub>2</sub>: and  
WHRM Wausau was to have moved from \*91.9 to  
\*90.9 with vertical.

## Deletions

NC Chapel Hill \*89.3 (no calls)  
OK Stillwater KOAS \*90.9  
**Changes in Facilities**  
AL Birmingham WQEZ 96.5 890<sup>1</sup>/<sub>2</sub> (50000 h,v)  
WENN-FM 107.7 69000 h,v; 660<sup>1</sup>/<sub>2</sub>  
AL Denoplis WNAH 106.3 190<sup>1</sup>/<sub>2</sub> (3000 h,v)

AZ Phoenix KNCR apparently drastically  
reducing power to 180 watts; 1510<sup>1</sup>/<sub>2</sub>, from  
100000 watts. [25000 h,v; 155<sup>1</sup>/<sub>2</sub>, 18, 61 mi  
CA El Centro KNEU from 98.5 to 107.5/  
CA Sacramento KNOD 106.5 50000 h,v; 120<sup>1</sup>/<sub>2</sub>  
CA Salinas KBEZ 102.5 adds v  
CO Pueblo KPUB-FM 99.9 68000 h,v (2000<sup>1</sup>/<sub>2</sub>)  
KQZA-FM 100.7 640<sup>1</sup>/<sub>2</sub> (100000 h,v) \$  
DC Washington WPFM \*89.3 22700; 643<sup>1</sup>/<sub>2</sub> 32, 75  
FL Port Charlotte WEEJ 100.1 190<sup>1</sup>/<sub>2</sub> (30000 h,v)  
HI Wailuku KAOI 95.1 1230<sup>1</sup>/<sub>2</sub> (100000 h,v) \$  
IA Ottumwa KLEE-FM 97.7 adds v [515<sup>1</sup>/<sub>2</sub>]  
LA Hammond WFGI 103.3 100000 h, 50000v, /  
LA Springhill KTKC 92.7 175<sup>1</sup>/<sub>2</sub>, 3000 h, v  
ME Bangor 92.9 49600 h,v; 315<sup>1</sup>/<sub>2</sub>; 28, 76 m.  
ME Skowhegan WPOS apparently staying on  
105.1 and not moving to 106.7.  
ME Westbrook 100.9 890 h,v; 508<sup>1</sup>/<sub>2</sub>; 15, 45  
MD Leonardtown 97.7 237<sup>1</sup>/<sub>2</sub> (3000 h,v) 13, 45  
MI Detroit WRBX 99.5 5200 h,v; 870<sup>1</sup>/<sub>2</sub>, with  
coverage reduced to 28 and 67 miles.  
MN Duluth KAQH-FM 94.9 400<sup>1</sup>/<sub>2</sub> (25000), and  
delete vertical; to be stereo. [100000 h,v  
MN Minneapolis-St. Paul WJAL 93.7 430<sup>1</sup>/<sub>2</sub>/  
MO Mountain Grove 92.7 3000 h,v; 300<sup>1</sup>/<sub>2</sub>  
NY New York WCB5-FM 101.1 3600 h,v; 1420<sup>1</sup>/<sub>2</sub>  
OH Cincinnati WAIF \*88.3 1600; 390<sup>1</sup>/<sub>2</sub> 15, 46  
PA Ebensburg WYQY 99.1 50000 h,v; 500<sup>1</sup>/<sub>2</sub>  
PA Philadelphia WKDU \*91.7 30 h,v; 220<sup>1</sup>/<sub>2</sub>,  
4, 17 mi (10 watt transmitter, but exact  
power, height given, as it shares time  
with 179-watt WPTT; WKDU on from 10 p. m.  
to 2 p. m.; all day Sat. and Sunday).  
TX Beaumont KWIC 107.7 340<sup>1</sup>/<sub>2</sub>; adds v  
TX El Paso KAMA-FM 93.1 30000 h,v; 1190<sup>1</sup>/<sub>2</sub>  
VA Big Stone Gap WLSO-FM 93.5 120 h,v; 1210<sup>1</sup>/<sub>2</sub>  
VA Bellingham KERI 104.3 51000 h,v; 2300<sup>1</sup>/<sub>2</sub>  
VA Clarkburg WFDX-FM 104.9 2500 h,v; 230<sup>1</sup>/<sub>2</sub>  
WV Fairmont WFGM 97.9 47000 h,v; 520<sup>1</sup>/<sub>2</sub>  
WI Kenosha WLP-FM 95.1 45000 h,v; 255<sup>1</sup>/<sub>2</sub>  
WI Wausau WIFC 95.5 1080<sup>1</sup>/<sub>2</sub> 100000 h

## Vertical Polarization Confirmed

AR Arkadelphia 100.9; CA Fresno 105.9; CA  
Modesto KITA 102.3, Spanish; CA San Luis  
Obispo KZDZ 93.3; CA Santa Paula 96.7; CA  
South Lake Tahoe 100.1; HI Honolulu KEKI  
93.9; KY Morganfield WMSK-FM 95.3; MA  
Greenfield WHAI-FM 98.3 at -240<sup>1</sup>/<sub>2</sub> (not 240<sup>1</sup>/<sub>2</sub>)  
as FCC news release erroneously reported!  
MS Fulton 101.7; MS Quitman 98.3; MO Cabool  
106.3; MO Portageville WMS-FM 106.3;  
MO Albuquerque \*91.5; TX Pleasanton KBOP-  
FM 98.3; UT Logan KUSU \*91.5; VA Fredericksburg  
WVFA-FM 101.5; VA Lexington WLLR  
\*91.5; WI Madison WORT \*89.7.

## Stereo added

IL Ishpeming  
CA Dinuba KLTa 98.9, m WLPD-FM 92.3  
FL Lehigh Acres WYAK-FM 107.1  
IN Seymour WJCD-FM 93.7  
IN Terre Haute WPER 102.7 rg (from k)  
MA Springfield WTCC \*90.7 (but still on  
\*90.9. MO Kansas City KCUK \*89.3, c.  
SC Hilton Head Island WHHR 106.3, m.  
TX Wichita Falls KRID 92.9, m  
WI La Crosse WLXR 104.9, k [V too at:  
WI Milwaukee WVCY 107.7, automated gospel

## Call Letters Assigned

AL Union Springs 100.9 WQSI <sup>UT Manti</sup> 107.7  
CA Carlsbad 95.9 KKOS (KARL) \*90.7 KSMK  
CA Fresno 101.9 KFRY (KARM-FM), \$, r, CBS  
CA Mt. Shasta 95.3 KEDY (from m)  
CA Sacramento 96.9 KR01 (was KEZS), (r /  
FL Titusville \*89.9 WP10  
GA Brunswick 100.7 WSB1-FM (W616-FM)  
FL St. Petersburg 99.5 WQYK-FM (WQYK)  
FL Tallahassee 103.1 WJZS <sup>NE Wayne</sup>  
GA Douglas 99.5 WDMG-FM 104.9 KTCI-  
GA Hazlehurst 93.5 WVOH-FM <sup>FM</sup>  
GA Vidalia 97.7 WTCQ (WVOP-FM) <sup>Format?</sup>  
IL Chicago 107.5 WCGI (WNU5) <sup>IN Henderson-</sup>  
IL East Moline 101.3 WCKO <sup>ILX 94.1</sup>  
IN Bedford 105.5 WBIF <sup>ILX KTZV (KLVM)</sup>  
HI Honolulu 93.9 KEKI <sup>OH Cleveland</sup>  
IN Huntington 100.9 WBOC <sup>\*89.3 WCSB</sup>  
MN St. Cloud 104.7 KCLD-FM (KFAH-FM)  
NE Lincoln 102.7 KF0R-FM (KHKS) <sup>TX Gates-</sup>  
NV Las Vegas 93.1 KUDC (KEEC) <sup>ville</sup>  
ND Grand Forks \*89.3 KFJM-FM <sup>98.3 KMCS</sup>  
OH Toledo \*91.3 WGTG-FM <sup>UT Gunnison</sup>  
PA Du Bois 107.3 \$ WDBA <sup>\*91.7 KGVH</sup>  
PA Pittsburgh 93.7 WJ01 (WKO1)  
SC Georgetown 97.7 WGMG (WJNH-FM)  
WA Seattle 94.1 KEUT (KOL-FM) <sup>no m</sup>  
CANADA, Ontario Guelph 106.1 CKLA-FM-FM  
(from CJOY-FM); Thunder Bay 94.3 CJSO-FM  
FM (CKPR-FM). Knowledge of Canadian  
call changes is haphazard; Guelph's  
change was made known through a mailing  
wrapper to a VUD reporter and CJSO's  
change by means of random tuning-in.  
**Formats/Networks**  
AR Paragould KH16 104.9 m [country.  
CA Gilroy KFAT 94.5 prog. rock and /  
CA Lancaster KOTE 106.3 UPI Audio  
CA Los Angeles KLVE 107.5 r (not m)  
CA Monterey KNAV 96.9 r (from mc)  
CA Oxnard KDAK 98.3 gm; CA Salinas KBEZ  
93.3 r (from mr); CA San Diego KOZM  
103.7 k (r report earlier in error)  
CA San Fernando KVMF 94.3 r (from m)  
CA San Luis Obispo KCBX \*90.1 rc  
KZDZ 99.3 r, \$  
FL St. Petersburg WKES 101.5 gc, \$  
FL Tampa WUSF \*89.7 cr; \$, [ -FM.  
IL Sullivan WFWA 106.3 k (from rm), ABC/  
IL Urbana WUWC 103.9 m (from rjc)  
IN Evansville WWHI 105.3 g (from gk)  
IN Franklin WECI \*89.3 r  
IN Greenfield WSMJ 99.5 UPI Audio  
IN Indianapolis WICR \*88.7 r  
WFSM 95.5 m (from mc)  
IN Kokomo WKMO 93.5 k (from m; still \$)  
IN Portland WPGM-FM 100.9 r (monophonic)  
IN South Bend WNDU-FM 92.9 r (from mr)  
IN Terre Haute WISU \*89.7 rc; WTHI-FM  
99.9 NBC (from ABC-E); WBOQ 107.5 drops  
ABC-Contemporary. IN Vincennes WUVB  
\*91.1 m (from mc); IN Washington WMLL  
106.5 m (from mr); IA Ames KLFM 104.1  
drops ABC-FM; now more upbeat MOR.  
MI Cheboygan WCBY-FM 105.1 ABC-Info\*on



MI Detroit WJR-FM 96.3 drops CBS [SCA]  
 MI Iron Mountain WJMR 103.9 AP Audio; no  
 MI Ironwood WIMI 99.7 expects to be on air  
 by Nov. 1, '75 with \$ "hit parade," and  
 SCA program relay (talk); transmitter in  
 Montreal WI; 50000 h.v; 560', 35, 92 mi.  
 MI Ishpeming WMOJ 107.1 r  
 MI Marquette WDMJ-FM EI networks (ABC's)  
 NY Buffalo WGRQ 96.9 drops ABC-FM; there  
 is no ABC-FM in Buffalo now! WYSL-FM  
 there, 103.3, ABC-Contemporary.  
 NY De Pew WBLK 93.7 AP Audio  
 NY Canandaigua WFIC 102.3 k (mono)  
 PA Danville WPGM-FM 96.7 AP Audio  
 PA Philadelphia WNGK 102.9 m, not just m.  
 SC Sumter WMPR \*88.1 c (on air), \$, SCA TB.  
 WI Green Bay WIXX 101.1 ABC-FM; delete CBS  
 listing; seemingly carries CBS only Sundays  
 WI Marshfield WDLB-FM 106.5 ABC-1 (was  
 ABC-Contemporary). WI Menominee WWMF 92.1  
 rg (from mg). WI New London WLIH 93.5 m;  
 no UPI Audio heard on that station.  
 WI Oconto WOCO-FM 107.1 m (separate music  
 from AM affiliate. Lousy 3 1/2 hrs mono  
 background music tapes daytime; r nights.)  
 WI Portage WPPR-FM 100.1 ABC-E. (music)  
 WI Ripon WWCW-FM 95.9 m; drops SCA (was)  
 PR Bayamon WYXX 100.7 Latin (not yet on)  
 PR Carolina WOLA 107.7 no longer English

PR Cidra WBRQ 97.7 L (no longer m)  
 PR Hormigueros WBOZ 92.1 Latin music  
 PR Mayaguez WORA-FM 97.5 no longer Engl.  
 PR Ponce WZAR 101.9 English; \$, rock  
 PR San Juan WSRA 93.7 English and Span-  
 ish; \$; m; expects to be on in Oct. '75.  
 PR San Juan WORS-FM 99.9 Latin  
 WIAC-FM 102.5 isn't English  
 WKQA-FM 104.7 rock  
 PR Utuado WUPR-FM 104.1 gm (from Latin)  
 MEXICO Ciudad Acuna XHPE 99.7 (but still  
 on 90.5) Latin, Spanish, monophonic.  
 Ciudad Juarez XHTO now on 104.3 Latin,  
 Spanish, no English, still stereo.  
 Mexico City XEX-FM 101.7 now all Spanish  
 Latin; no English; still \$. "Jazz FM,"  
 an all-jazz station mentioned in Bill-  
 board, but no calls or frequency given.  
 Any idea which station this is? It is,  
 according to the article, in Mexico City.  
**New transmitters installed; any of these stations now stereo**  
 IN Angola WUKI 100.1 | UT Logan KOSU-  
 OH Gahanna WCVU 104.9 | FM \*91.5  
 WV Beckley WBBK 99.5  
**SCA (67 kHz) Activities**  
 AZ Flagstaff KAFF-FM 92.9 adds SCA  
 IL Aurora WAUR 107.9 no SCA heard; drop  
 IL Mattoon WLBH-FM 96.9 music [listing]  
 IL Skokie-Chicago WCLR 101.9 heard with  
 readings from Book of Mormon 11 to 11:05  
 weeknights; change listing to Y for talk  
 WI Richland Center WRCC-FM 100.9 no SCA  
 heard; drop listing.

from X (slow-scan TV).  
 IN Fort Wayne WMEF 97.3 adds SCA  
 IA Twin Lakes KTLB 105.5 adds SCA  
 KY Catlettsburg WCAK 92.7 adds SCA  
 KY Morehead WNKY \*90.3 delete listing as  
 only a low frequency tone heard.  
 LA New Orleans WEZB 97.1 adds SCA  
 MD Baltimore WEAH \*88.9 adds SCA.  
 MI East Lansing WKAR-FM \*90.5 talking  
 books and news for the blind.  
 MI Grand Rapids WGSB \*91.3 no SCA heard;  
 drop listing.  
 MI Petoskey WJML-FM 98.9 no SCA heard;  
 drop listing. (Was supposed to have had  
 background music.)  
 MO Kansas City KMBR 99.7 talk, including  
 religious programs and program relay.  
 MT Butte KBON-FM 94.1 add SCA.  
 NY New York WQVO-FM 97.9 Physician's  
 Radio Network.  
 PA Pittsburgh WQVE 102.5 adds SCA.  
 WI Green Bay WJZZ-FM 98.3 music  
 WI Janesville WJVL 99.9 farm news (UPI  
 Audio news on main channel)  
 WI Madison WZEE ("2-104") 104.1 music  
 WI Milwaukee WISN-FM 97.3 tells me the  
 SCA used only as a backup for the studio-  
 to-transmitter link for the AM station; it  
 is used so infrequently that listing for  
 SCA should be dropped. When used, it is  
 only on a few minutes at a time until the  
 problem is corrected with the STL.

**Members' Reports and Comments  
 Contributions Invited**

A fall drive through eastern Wisconsin and upper Michigan with receiver and SCA adapter provided much of the regional information in this month's column. One of the surprises of the trip was hearing the one-watt W288AA 105.5 Iron Mountain MI (WRVM 102.7 Suring WI translator) at 33 mi, with clear (near-primary) quality reception at 12 miles. Better coverage than I've ever heard from any 10-watt educational station, or even the 10-watt W269AA 101.7 Grand Rapids MN (copied only up to 20 miles). W288AA must either have its transmitting antenna extremely high, or else they are fudging mightily on that one watt (like 100 watts?). Of course, I was fudging somewhat myself, using the Antennacraft AFM auto FM amplifier, which gives a mighty boost to mobile FM reception in the hinterland, but which must be disconnected near town because of local station overload. FM translator W269AA does carry local commercials (a 30" blurb at :40 each hour) on its own, with tone activation at KEZZ 94.3 Aitkin for this automated break-away, legal under FCC rules. Said translator thus nets its owner a reported \$750 profit monthly.

Little KLCC \*90.3 Eugene OR collected \$11,000 in a marathon to provide more power and a greater outreach, but a WTFDA member from Bend OR says "they already have a good signal here; I just do not think it is going to make any major difference for them." [But most Bendians probably don't have sophisticated receiving gear, so a boost at KLCC might be a blessing to j-s-c buffs in town with small FM radios.] Now that the FCC is publishing FM application cut-off dates, a flurry of last-minute applications against existing applications has occurred. This procedure undoubtedly will increase the number of hearings for new FM facilities and will slow down the rate of new station grants until the hearings are resolved. In Portland OR, three recent applications were filed for 103.3, against the two already on file for the channel, reputed to be the last commercial FM channel in any major market in the country. KABL-FM 98.1 San Francisco is good in the car all the way to Lake Tahoe, while KNAI 99.7, ex-KNBR-FM, is now NBC's NIS (all news) and still [fradulently?] keeps the stereo pilot on!

A tunable SCA adapter and experimentation with a radio teletype or fax machine will involve Dexter Al Ellis, 19 McClure Ave., Branford, Ont., Canada, who will offer information on these projects in exchange for a Canadian or U. S. stamp (10¢ or higher value, unused, I presume). Al editorializes (and I agree with him):

I have meant to write to club headquarters about putting a few technical articles in the WVD to help create interest in members who have little interest in bragging about stations they feel they MAY HAVE HEARD. This business of errors in calls and frequencies is, to me, a form of ego busting and bragging. None of it will add anything to our knowledge. . . Maybe my standards are too high, but that is the way I fish as well as do other things.



FEDERAL COMMUNICATIONS COMMISSION FREQUENCY MODULATION

In Iowa, KXEL-FM 105.7 Waterloo is temporarily transmitting with 30,000 watts at 80 feet—no wonder KSGM-FM Ste. Genevieve MO came through so well during recent tropo from the south.



The ad to the left was in the Champaign News-Gazette for WIAI Danville IL. WMBJ 102.1 Danville is r in afternoons for the after-school crowd, calling selves "concept 102."

A couple of readers asked when the next edition FM Atlas will be ready. I would guess in about six months—March or April, 1976. Sales of the 1975 edition are such that the date could be earlier. I am revising many of the maps, putting on call letters as well as frequencies and am including metric scales of "distances"; despite what one VUD reader said after reading my comments of last month: "I am sorry to see you are on the bandwagon for the latest hoax—the metric push. This is just as wasteful and stupid as

megahertz instead of megacycle and will cost us all a fortune for conversion. Give us miles, pounds, inches, etc. and stay American!"

During late September major flooding in PA and neighboring states resulted in a few stations staying on the air all night instead of signing off at midnight; this included WRAC-FM 102.7 Williamsport PA. WQSU \*88.9 Selinsgrove PA noted back on air Sept. 15 after a summer recess. WYMS \*88.9 Milwauke operated during the summer from 4 to 8 or 9 p. m. M-F. They sign on now at 8 a. m. and run until 8 some nights; 9 other nights, silent on weekends.

WRIU \*91.1 Kingston RI is fighting a petition that seeks to deny it an increase in power filed by WTEV" TV" New Bedford MA. WRIU filed for an increase from 10 to 3000 watts; the WRIU manager claims WTEV has filed nine similar complaints in the past against Rhode Island (and MA) stations and has lost every case. Such problems the FCC sees as ones of receiver design and not the radio station's fault. WBXL \*90.5 Baldwinsville NY on 9 am to 5 pm during the school week.

So-called "quad" broadcasting is assailed by the FCC, which denied permission to an FM station to use the Sansui quad enhancer for stereophonic discs, saying matrixing can only be done when a station is playing special four-channel encoded records or tapes. WIQB 102.9 Ann Arbor MI thus was one of the first FM stations to take out its pseudo-quad equipment in the wake of this ruling. I will continue to not publicize so-called quad broadcasting, since this latest action only proves what I have believed right along—that most matrixing is not true quad. In fact, the FCC found out that when the Sansui matrixing equipment was in use a station lost much of its stereo separation, thus affecting people having two-channel stereo FM receiving equipment.

KTLB 105.5 Twin Lakes IA \$ now on the air 6 a. m. to midnight daily. WEBR (AM) and WREZ (FM) to be bought by local ETV outfit; WREZ probably will convert to \$ and give little WBFO \*88.7 some much-needed competition. Buffalo's WYSL-FM currently IDs as "music radio, Y103," and sometimes as "Whistle musicradio" as well as "contemporary musicradio"; whatever happened to good old call letters? KRAB 107.7 Seattle heard with mono jazz; what happened to their Stereo?

From club headquarters comes rejoicing over WVVX-FM 103.1 Highland Park IL adding Deerfield to its official identifications, "especially since it is a great progressive rock station—6 a. m. on. They are not stereo (unfortunately) but have limited commercials with good progressive music segued into 15-25 minute blocks. WVVX-FM is one of only three such stations in the entire area (WJKL Elgin is fulltime progressive, WXRT Chicago, evening only). It is a good example of one problem with your FM Atlas. A person trying to find a progressive rock station could never do it because you group progressive rockers with bubble gum rockers, oldie-but-goodie rockers and garbage (pop-rock) stations and there is a tremendous difference." Which brings me to ANNOUNCE: I am gonna list all progressive rock stations (using the abbreviation in the program: format column of "p"). When you are writing anyway to me, why not jot down the p-rock stations you regularly hear and send the information in? Defining what exactly is p-rock might be a problem (especially to my ears, which are not exactly tuned to rock), but I'll leave that to you for the moment. WYXE 92.1 Sun Prairie WI uses a color "ID," "Blue 92"—ugh!

From FL comes word WXTR 98.5 Crystal River not yet on air, while WDGM 106.7 Leesburg is off the air. When last heard in May it was all religious, no stereo. During skip one of the AFR outlets in Puerto Rico on 90.5 was heard in Florida—not in stereo but had "American top 40" program, but since there was no ID he couldn't tell which station he heard. WMRT \*88.3 Marietta OH expects to have been testing in October. Off the air (or not yet on) in PR are WZOL 92.1 Luquillo, WXYX 100.7 Bayamon and WCAD 105.7 San Juan.

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# STATISTICS

NOVEMBER 1975

Glenn Hauser, editor  
1312 West Oak Ave.  
Enid, Oklahoma 73701

Next: 98+ MHz FM DX Records

Ch	Call	Location	Miles	DXer, Location	Primary	
77	K77CD	CA Hollister	145	Jim Pizzi, Orcutt CA	KTEH-54	
	K77BC	GA Porterville	40	Dennis Smith, Wasco CA	KL YD-17	
	W77AA	MI Iron Mountain	100	Bill Draeb, Kewaunee WI	WFRV-5	
	K77BW	MN Grand Portage	265	Bill Draeb, Kewaunee WI	WDSE-8	
	K77CE	MN International Falls	380	Fred McCormack, Des Lacs ND	WIRT-13	
	K77CF	MN Saint James	350	Bill Draeb, Kewaunee WI	KSTP-5	
	K77CI	MN Willmar	375	Fred McCormack, Des Lacs ND	WTCN-11	
	K77BO	NE Inman & O'Neill	425	Fred McCormack, Des Lacs ND	KTIV-4	
	K77BI	OK Alva	100	Robert Cooper, Oklahoma City OK	WKY-4	
	K77AQ	TX Memphis etc	195	Robert Cooper, Arwadia OK	KVII-7	
78	W78AC	IL LaSalle	30	Bill Eckberg, Walnut IL	WTVH-19	
	K78AW	IA Carroll	80	Stu Grade, Sioux City IA	KRNT-8	
	K78CR	IA Keosauqua	470	Robert Cooper, Oklahoma City OK	KHQA-7	
	K78AK	MN Cass Lake	330	Fred McCormack, Des Lacs ND	KDAL-3	
	K78CU	MN Silver Bay	270	Bill Draeb, Kewaunee WI	WDIO-10	
	K78BX	MO Marceline	385	Robert Cooper, Oklahoma City OK	KMBC-9	
	K78CO	NE Fairbury	320	Robert Cooper, Oklahoma City OK	KHNE-29	
	K78BK	OK Seiling etc	70	Glen Neal, Sayre OK	KOCO-5	
	K78BI	TX Darrrouzett etc	85	Glen Neal, Sayre OK	KGNC-4	
	K78AZ	TX Matador	250	Richard N. Allen, nr Billings OK	KGBD-11	
	K78AP	TX Miami	170	Robert Cooper, Oklahoma City OK	KVII-7	
	K78CM	TX Shamrock	155	Robert Cooper, Oklahoma City OK	KGNC-4	
	W78AJ	WI Sheboygan	185	Paul E. Petosky, Munising MI	WBAY-2	
	79	K79BU	CA Porterville	45	Stan Wigh, Kingsburg CA	KQED-9
W79AE		FL Immokalee	80	Dick Clark, Fort Lauderdale FL	WPLG-10	
K79BL		IA Iowa City	100	Marvin Shults, Toulon IL	WOC-6	
W79AE		MI Detroit	200	Robert Seybold, Dunkirk NY	WTVS-56	
K79BK		MN Fairmont	345	Bill Draeb, Kewaunee WI	KROC-10	
K79AQ		MN Grand Portage	265	Gary Olson, Desfield IL	KDAL-3	
K79AH		MN International Falls	380	Bill Draeb, Kewaunee WI	KDAL-3	
K79AZ		OK Alva	100	Fred McCormack, Des Lacs ND	KWTV-9	
K79BA		OK Cheyenne & Reydon	115	Robert Cooper, Oklahoma City OK	KGNC-4	
W79AC		PA Clarks Summit	200	Robert Cooper, Oklahoma City OK	WBRE-28	
W79AB		PA Palmerton	60	Robert Seybold, Dunkirk NY	WDAU-22	
K79BT		TX Hunt etc	70	Steve West, Havertown PA	KENS-5	
K79BP		TX Knippa & Uvalde	65	Glenn Hauser, Von Ormy TX	KENS-5	
W79AV		VT N Bennington etc	310	Glenn Hauser, Von Ormy TX	WVTA-41	
CITY-	ON Toronto	430	Robert Seybold, Dunkirk NY			
			Don Ruland, Kenosha WI			
80	K80CC	CA Hollister	145	Jim Pizzi, Orcutt CA	KQED-9	
	K80CN	CA Mariposa etc	140	Dennis Smith, Wasco CA	KQED-9	
	K80AW	IA Dubuque	605	Robert Cooper, Oklahoma City OK	KHQA-7	
	K80CK	MN Bemidji	315	Fred McCormack, Des Lacs ND	KTHI-11	
	K80CP	NE Beatrice	330	Robert Cooper, Oklahoma City OK	KUON-12	
	W80AK	NY Springville	105	Tony Ward, Guelph Ont	WNED-17	
	K80BT	OK Seiling etc	85	Robert Cooper, Oklahoma City OK	KWTV-9	
	W80AM	PA Honesdale	215	Robert Cooper, Oklahoma City OK	WVLA-44	
	K80AY	TX Booker etc	175	Robert Seybold, Dunkirk NY	KFDA-10	
	K80BD	TX Matador	230	Robert Cooper, Oklahoma City OK	KVII-7	
	K80AU	TX Memphis etc	65	Glen Neal, Sayre OK	KFDA-10	
	K80AJ	TX San Saba	130	Glenn Hauser, Von Ormy TX	KFDA-10	
	K80AS	TX Texhoma etc	145	Glen Neal, Sayre OK	KVII-7	
	K80AT	TX Gruver	40	Glen Neal, Sayre OK	WLUK-11	
	W80AC	WI Rhinelander	125	Bill Draeb, Kewaunee WI		
	81	W81AZ	CA San Luis Obispo	25	Jim Pizzi, Orcutt CA	KQED-9
		K81AE	MN Saint James	350	Bill Draeb, Kewaunee WI	WTCN-11
		W81AJ	NY Cattaraugus etc	105	Tony Ward, Guelph Ont	WNED-17
W81AI		NY Franklinville	40	Paul Traska, Buffalo NY	WNED-17	
K81AN		OK Alva	100	Robert Cooper, Oklahoma City OK	KOCO-5	
K81AR		OK Cheyenne etc	135	Robert Cooper, Arcadia OK	KVII-7	



82	K82BM	CA Coalinga	100	Dennis Smith, Sequoia Crest CA	KQED-9
	K82AF	MN Cass Lake	330	Fred McCormack, Des Lacs ND	WDSM-6
	K82AQ	MN Grand Portage	265	Bill Draeb, Kewaunee WI	WDSM-6
	K82AJ	MN International Falls	380	Fred McCormack, Des Lacs ND	WDSM-6
	W82AP	NY Limestone	135	Tony Ward, Guelph Ont	WNED-17
	K82BB	OK Seiling etc	70	Glen Neal, Sayre OK	WKY-4
	W82AI	PA Minersville	70	Steve West, Havertown PA	WNEP-16
	K82BK	TX Hunt etc	70	Glenn Hauser, Von Ormy TX	KSAT-12
	K82AZ	TX Memphis etc	195	Robert Cooper, Arcadia OK	KGNC-4
	K82AK	TX Miami	185	Robert Cooper, Arcadia OK	KFDA-10
83	K83BJ	CA Gonzales	130	Jim Pizzi, Orcutt CA	KQED-9
	W83AB	MI Detroit	200	Robert Seybold, Dunkirk NY	WTVS-56
	W83AN	MI Stephenson	80	Paul E. Petosky, Munising MI	WLUC-11
	W83AS	MI White Pine	190	Bill Draeb, Kewaunee WI	WLUC-6
	(USAF)	NM Holloman AFB	105	Glenn Hauser, South Baldy Mtn NM	KELP-13
	W83AA	PA Palmerton	60	Steve West, Havertown PA	WNEP-16
	K83BO	TX Knippa & Uvalde	65	Glenn Hauser, Von Ormy TX	KSAT-12
	K83AQ	TX Matador etc	115	Glen Neal, Sayre OK	KLEK-13
	W83AH	WI La Crosse	185	Bill Draeb, Kewaunee WI	KROC-10

## TV: In Mexico, Each Channel Is Kept a Class Apart

By JOHN LEONARD

Nobody paid much attention last week to "An Evening of Mexican Television" at Alice Tully Hall, even though a swarm of media heavies — presidents, vice presidents, news and entertainment executives from all three networks — were on hand, in black tie, for the ceremonies and a dinner-dance afterward in the Empire Room of the Waldorf-Astoria.

Perhaps parochialism accounts for the lack of coverage. To many United States citizens, Mexico and Canada are lacrosse and Mounties; news of what's going on in either place is not nearly so compelling as the latest datum on cleanliness in revolutionary China. Nevertheless, it was a mistake. The evening, sponsored by the International Council of the National Academy of Television Arts and Sciences, was billed as a "Salute to Televisa." Televisa is the conglomerate that runs all four commercial TV channels in Mexico. (The other two channels are government-owned.) And the men who run Televisa are up to some sinister things.

Two of those men, Emilio Azcárraga and Miguel Alemán, president and vice president, respectively, of the network, were in town to accept the academy salute. Their New York public relations agency, Ruder & Finn, arranged a lunch at Lutèce, of which Mr. Alemán used to be a part-owner, and they talked about the Mexican way of TV programming. By comparison, the North American, European and Soviet ways of programming are naive.

Mexico got its first commercial TV channel in 1960, its second in 1961 and its third in 1962. They competed, there weren't enough advertising pesos to go around, and in 1968 the three channels merged. A fourth channel began color transmission in 1968, and by 1973 it, too, had been gobbled up, under the benign eye of Luis Echeverría. "My boss," said Mr.

Azcárraga, "is the President of the Republic, Mexico, and he isn't ready yet to do things your way. We must stabilize and educate."

With four channels, three plants in Mexico City and 43 repeater stations scattered across the country, Televisa offers 394 hours of programming a week to approximately 4 million TV sets and a potential audience of 25 million people. Most of these programs are emphatically not from the United States. Of the 20 top-rated shows on Mexican TV last July, only three originated here—"Planet of the Apes" (rated ninth), "World of Disney" (11th) and "The Six Million Dollar Man" (20th). "Kojak" ended up 30th, and "M\*A\*S\*H" didn't make the top 50.

What was everybody watching? In a given week, they were watching the usual five soccer games, two football games, one baseball game, a boxing match, the Miss Universe Pageant, many soap operas and "Plaza Sesamo," Televisa's version of "Sesame Street." More than half of what they could have watched was what Televisa calls "content programming" (210 hours of news, culture, education, public participation) as distinguished from "entertainment programming" (sports, drama, musicals, comedies, quiz shows, movies). That is, if anyone switched channels.

The extraordinary thing about Televisa's programming is that the four channels deliberately refuse to compete with one another. Each channel goes after a specific socio-economic class, according to statistical niceties deter-

mined by an adjunct Institute for Investigations and Communications. The institute seems to have been cloned from cells of A.C. Nielsen, George Gallup and Herman Kahn. It counts, measures and establishes "cultural profiles," "frames of reference" and "codes of behavior" for every shard of the fragmented Mexico. Televisa's own literature shamelessly congratulates the network for its sociological scrupulousness.

Thus, in the words of a sumptuous brochure entitled "What Is Televisa?," Channel 2—with the most powerful signal of the four channels—defines its target as "the traditional Mexican middle class." The "mode of expression" for its programming is therefore "sentimental, light, respectful of deeply ingrained national traits and traditions, love of the provinces decided support for the political Establishment."

Channel 4 is aimed at the lumpen, "the mass urban public," which requires "fast, picaresque, light, broadly based, romantic" programs to encourage "the inter-dynamics of the indicated groups." Channel 5 seeks "the youthful middle class at all social levels including university students," and its mode of expression is described as "dynamic, not too articulate, essentially images and music, modern and trendy, very 'now.'"

Whereas, on Channel 8, Televisa goes after the disaffected upper crust, "sophisticated, permeated by a certain nostalgia, with a distinct preference for a finer type of entertainment." So there are "high-toned" offerings and to academic groups and to

those viewers of broad political spectra who feel themselves critics of society and of the Establishment."

Boggles the mind, as Henry Luce or Wolcott Gibbs should have said. Mr. Azcárraga rejects any suggestion that such programming might tend to ghettoize Mexican society, each according to his class and channel. On the contrary, he says, everybody watches the programs designed for the class above him, to find out what it takes to make it. Mr. Azcárraga is, for instance, proud of Televisa's "co-optation" of the already existing "soap-opera" circuits for the transmission of messages which will serve to raise the socio-economic and cultural levels of the viewer. The "pedagogic capsules" in these programs, as Televisa calls them, have enabled 200,000 people to pass the Board of Education's high-school equivalency test. The Government is so impressed that it has asked Televisa to slow down on the capsules because there isn't enough room in college for any more test-passers.

Which is precisely the problem. Most of the programming sounds like "Plaza Sesamo." With an officially sanctioned monopoly and a think tank to pin down the wings of every coded behavior, Televisa would appear to be a perfect marriage of the techniques of advertising and the designs of government. No wonder, then, that the media heavies saluted in silence. Their ability to manipulate was being flattered, and maybe they were coy.

New York Times,

Oct. 4, 1975

via

Adam Gaffin.

Brooklyn NY

**Let's face it:** Your editor has exhausted his enthusiasm and energy for another climb up the ladder of channels. I'll continue with FM records thru 107 MHz, but bequeath to an as yet unchosen successor the TV records. No TV revisions have been published since June 1974, to simplify the changeover. I suggest adoption of metric distances in the future; combined Es/tr/MS listings per ch. and that must be taken to measure distances accurately, and to weed out/investigate questionable claims.







# FM SCOREBOARD

NOVEMBER '75  
COMPILED BY  
CLARKE INGRAM

DXer, Location	S T A T I O N S		POLITICAL UNITS			AV DIS Tr MS	YB	As of:				
	Total	89-92	Es	MS	AU				US	CN	MX	FO
Andy Bolin, Charleston IL	1356	177	402			44+	6	4	2	57	70	*Jul 4
Bruce Elving, Adolph MN	1211	94	521	6		42+	3	1	0	47	48	*Feb 25
Pat Dyer, San Antonio TX	912	98	701	13		38+	2	6	3	50	70	Oct 12
John Ebeling, Bloomington MN	796	101	357	13	66	42+	4	4	0	49	52	*Jan 19
Robert Seybold, Dunkirk NY	781	82	306	0		41	4	5	0	50	60	Nov 5
Ron LeBlanc, Martero LA	733	107	351	2		39+	2	5	4	51	71	Jul 9
Fred Nordquist, N. Syracuse NY	697	87	243	14	10	38+	3	0	2	44	69	Jun 3
Fred McCormack, Des Lacs ND	631	83	437	20	65	42+	5	2	0	50	65	Jun 6
Peter Sawatzky, Waterloo ON	607	65	218	48	2	37+	4	0	1	43	71	Sep 22
Roger Winsor, Valparaiso IN	607	102	89								66	Mar 21
Joseph Fela, S. Plainfield NJ	566	122	172	2	9	36+	2	0	2	41	41	Jun 22
Michael Dalton, Clearwater FL	530	119	156	1	0	33	1	8	5	50	62	Jun 22
Glenn Hauser, Enid OK	520	30	276	41		39	4	5	1	49	75	May 29
Sheldon Remington, Hamden CT	500	91	126	6		36+	2	0	1	40	70	*Jun 23
Danny Buntin, Stillwater OK	485	60	227	0		42+	3	2	0	48	74	*Oct 1
Greg Kelley, Staunton VA	480	58	3	0		21	2	0	1	24	73	*Sep 2
Glenn Hauser, Stillwater OK	415	98	164	20		37+	2	5	1	46	73	*Jul 13
R.J. Steinberger, Hudson MA	366	60	106	7	6	31+	2	0	0	34	58	Oct 6
Steve Wiseblood, Santa Maria CA	351	44	208	9	0	18	3	4	0	25	71	Oct 11
Earle Lyons, Belleair Bluffs FL	289	59	0	0		24	1	4	4	33	74	Apr 22
Wayne Ebeling, Bloomington MN	205	41	66	1		23	0	0	0	23	72	*Nov 20
Dennis Smith, Wasco CA	202	25	41	1		8	0	1	0	9	52	*Apr 17
Joseph Smith, Johnson City NY	200	26	1	3	0	13+	1	0	0	15	71	Jun 14
Gil Morgan, Santa Ana CA	176	42	52	4		16	0	1	1	18	69	*Oct 1
Dale Connolly, Van Nuys CA	140	26	7	2		5	0	1	1	7	72	*Oct 5
Jim Alexander, New Hartford NY	125	20	23	1		16	3	0	1	20	74	Jun 9
Frank Wheeler, Erie PA	122	15	0	0		4	1	0	0	5	64	Oct 2
William Dickerman, Williamsport PA	113	8	3			12+	1	0	0	14	71	Jul 14
Fred Hendricks, Decatur IL	101	17	17	0		13	0	0	0	13	70	*Aug 24
Scott Sampson, Orion IL	83	12	3	0	0	5	0	0	0	5	73	*Nov 29
Ken Simon, West Palm Beach FL	75	41	38	0		14	1	1	3	19	66	*Sep 16
Michael Hogan, E. Chicago IN	38	9	0	0		4	0	0	0	4	72	*Aug 1

NOTES AND COMMENTS: One new contributor this time, William Dickerman, welcome! A reminder to all Scoreboard contributors to check the dates of their reports; if your date has an asterisk (\*) you have not contributed during 1975, and this Scoreboard will be your last unless you do so before 1976 is upon us! A complete description of the Scoreboards will be run soon; we may print information sheets and make them available to all new members who write. The average distances are slowly trickling in; it would be appreciated if all members would take the time to compute them, as they are one significant measure of a DXer's accomplishments, despite what others have stated. Any comments or suggestions you might have concerning this column are always appreciated. Until the January VUD, best of DX and 73. ---CWI



# EASTERN TVDX

Bill Thompson  
1907 Seneca Street  
Buffalo, NY 14210

November 1975

Deadline: 10th

Although somewhat better than last year, this year's Fall tropo season really hasn't amounted to much. In many areas of the East, the remnants of Hurricane Eloise kept conditions down during the last part of September—and to make things worse, much damage occurred in the same areas. Those very nasty antenna-bending winds and torrential rains eventually did move up the Eastern Seaboard and finally disperse, but not before wreaking havoc on the Northeast as well. This troublesome weather system was at least followed by some slightly improved conditions—for a while. Cold weather (and much scattered rain) blankets the Northeast as of mid-October, but there's still time for some good openings to occur. Perhaps we'll have some more interesting loggings to report next time, and hopefully it will be something to match up to the really long-haul ducting that was reported for August and early September.

Ken Simon 528 Pilgrim Road West Palm Beach, Florida 33405 (EDT)

August

- 9 Es 2225 unID-2 "WUND????"
- 2235 WFSB-3 Hartford CT 3312R
- 2330 WJBK-2 Detroit MI
- 10 0005 WBAY-2 Green Bay WI 3111R
- 13 Tr 1450 WVAN-9 Savannah GA? T

"Replaced my old AR22 rotor with an Alliance...my wife is happier as it doesn't click..." Ken also sends along details of stations monitored along the way during his 6,500 mile round trip via auto to eastern Canada and the tiny French island of St. Pierre, which is just off the Newfoundland coast. Mostly locals and semilocals were observed with a 9" AC/DC portable and monopole whip antenna. Space doesn't permit a full listing of all the stations Ken noted along the way, but he did see some DX:

August

23 Passing thru Statesboro GA:

- Es 1330 KNOP-2 N Platte NE
- unID-2 EBS, MUF ch 5
- 1400 unID-3 10 CCI o/WSAV-3
- 1415 unID-3 PBS, over WSAV-3

24 North of Fayetteville NC:

- Tr 0705 WSLs-10 Roanoke VA
- unID-10 hvy QRM over WSLs
- WITN-7 Washington NC o/WDBA
- "wx note: hvy a.m. ground fog noted."

Richard Turcsany 7 Cayer Circle Shelton, Connecticut 06484 (EDT)

"Great skip on 8/23. Log now 74, 20 states."

August

- 8 Tr 2045 WCDC-19 N Adams MA (105)
- 9 0645 WBOC-16 Salisbury MD (300)
- 0700 WEAU-13 Eau Claire WI (965)
- (Quite a haul! -bt)
- 0800 WSMW-27 Worcester MA (110)
- 0900 WDCA-20 Washington (300)
- 0910 WETA-26 Washington (300)
- Es 2250 unID-2 S.W. "covering WQBS"
- 11 Tr 0900 WMHT-17 Schenectady (120)
- Es 2100 unID-4 "?? relaying WHIZ-18 Zanesville OH"
- Tr 2115 WHDN-53 Norwich CT (70)
- 2245 "Philly V's 6, 10, 12"
- 20 1030 WAPP-22 Annapolis MD (260)
- 23 Es 0830 WBBM-2 Chicago IL (863)
- 0930 KTVI-2 St Louis MO (955)
- 1000 WJBE-2 Nashville TN (700)
- WEJA? 4 "??"
- 1030 WLAC-5 Nashville TN (700)

September

- 1 Tr 0450 WICZ-40 Binghamton (225)
- "had Jerry Lewis telethon, El-mira-Binghamton phone numbers"
- 1429 unID-3 "Ice cream commercial, audio only during WFSB EBS test"
- 1953 WSKG-46 Binghamton (225)

"Last minute news: WBTE-68 Newark NJ is back on the air after 9 months. They were off since January, and began (resumed) broadcasting September 29 at 4:30 p.m. EDT. They say that they are remodeling and enlarging the studios on Eagle Rock Avenue. All reports go to 416 Eagle Rock Avenue, West Orange NJ 07052." Equipment includes a 1970 Magnavox B/W portable with indoor bowtie antenna. (What kind of antenna are you using for VHF, Richard? -bt)







Paul D. Traska (continued)

October		10 Tr 2345		WNPE-16 Watertown NY		R
10 Tr 1120	WUCM-19 Bay City MI	R		WUTR-20 Utica NY		R
	WEYI-25 Saginaw MI	R	11	0031 WJAN-17 Canton OH		R
	WUHQ-41 Battle Creek MI	R		0032 "All Youngstown U's with such signals, my GMA-Ub had WYTV-33 on 50 & 51"		R
1230	WKBS-48 Philadelphia PA	R		0033 WHIZ-18 Zanesville OH		R
2045	Ft Wayne U's "good signals"			0034 WTAP-15 Parkersburg WV		R
2046	Toledo U's			0046 CITY-79 Toronto Ont		R
2050	WLIO-35 Lima OH	R		0200 WTRF-7 Wheeling WV		R
2235	W60##-60 Findley Lake	R		0227 WQED-13 Pittsburgh PA		R
2240	WPBO-42 Portsmouth OH	R		0259 CFCE-12 Montreal PQ		R
2243	W56AR-56 Silver Creek	R		0300 WBNS-10 Columbus OH		R
	W56##-56 Kennedy NY	R				
2245	W64##-64 Sherman NY	R				

Equipment: 1968 Philco, 1972 RCA, 1975 Sharp. Antennas: 34-element Channel Master @ 40', 7' Finco dish & GMA-Ub @ 50'. Log Total: 543.

Bill Thompson 1907 Seneca Street Buffalo, New York 14210 (EDT)

September		8 Tr 1900		WBGU-57 BowlingGreen(300)		
28 Tr 1958	WEAO-49 Akron OH (185)			2115	Detroit U's fair-to-weak	
2030	Detroit & Toledo U's vy strong; snowfree all eve.		10	1656	WTVN-6 Columbus OH (290)	
	WBGU-57 BowlingGreen(300)			1900	WBNS-10 Columbus OH (290)	
2100	WOSU-34 Columbus OH (290)				Detroit U's like locals	
	CKGN1-22 Cottam Ont (205)				CBET-9 Windsor Ont (220)	
	WNPE-16 Watertown NY(165)				CKGN1-22 Cottam Ont (205)	
29	0110 WNNY-7 Watertown o/WKWB				WOSU-34 Columbus OH (290)	
30	1900 CKGN1-22 Cottam Ont (205)			2200	CCI hvy on lcl from CKGN29	
	2030 Detroit U's like locals (WGPR-62 s/off @ 2150)				Toledo U's vy strong	
	2200 WFLD-32, WSNS-44 tentative				WBGU-57 BowlingGreen(300)	
2310	WEYI-25 Saginaw MI (255)				WLIO-35 Lima o/WSWB (300)	
	CKNX-8, CPPI-10 vy strong				WEAO-49 Akron OH (185)	

October

4 Tr 2330	Detroit U's, CKGN1-22 Ont very strong; cx building			2250	WOUC-44 Cambridge OH(250)	
	WKAR-23 E Lansing MI(280)			2259	WPBO-42 Portsmouth (350)	
	WDHO-24 Toledo o/WJBT				WOUB-20 Athens OH (260)	
2340	WKJG-33 Ft Wayne IN (345)			2300	WHIZ-18 Zanesville (265)	
2358	WLIO-35 Lima OH (300)				W64##-64 Sherman NY(WNED)	
	CBET-9 Windsor Ont (220)			2308	WNPE-16 Watertown NY(165)	
5	0030 WPTA-21, WANE-15 Ft Wayne			2311	WDRB-41 Louisville? T	
	0040 CKGN1-22 Cottam Ont (205)				hvy 20 CCI on 41; 2 stns	
	WUHQ-41 Battle Creek(310)			2347	W60##-60 Findley Lake NY	
	0054 WCDC-19 Adams MA (300)		11	0032	WPHI-17 Philadelphia(270)	
	0119 CKGN29-29 OilSprings(165)			0034	WJAN-17 Canton OH (185)	
	0130 CKGN2-2 Bancroft Ont(155)			0130	WKYT-27 Lexington KY T	
	1830 Toledo & Detroit U's fair			0155	WTRF-7 Wheeling WV (210)	
	2155 Akron U's fair to good			0224	WTVQ-62 Lexington KY(475)	
				0234	WLEX-18 Lexington KY(475)	

Fall tropo didn't live up to my expectations; hardly anything beyond 300 miles. Did miss a couple of good morning openings though. WEAO-49 is satellite of WNBO-45, seems to be low power. WGPR-62 really gets out well!

Tony Ward RR4 Guelph, Ontario N1H 6J1 519/824-1918 (EDT)

"It's been a busy month for me & I don't mean DX. A new course to teach, PhD writing & sundry other activities have pushed DX to background apiece. System is superb with trop scatter 100% of time to 340 mile WNDU-16 but my daily checks show little tropo for the month. Just as well, I haven't time for a super opening!!"

September

9 Tr 2300	WMTV-15 Madison WI (455)		11 Tr 0030	WDCA-20 Washington DC		
	WHA-21 Madison WI (455)			0045	WBFB-45 Baltimore MD"weak"	
	* WFLD-32, WXXW-20? 10kc			0100	WPHI-17 Philadelphia PA	
	WXON but not logged"		18	0100	"Snowfree to 300 miles"	
2330	WMTV-36 Milwaukee WI(390)		19	0900	"Snowfree to 300 miles S. & S.W. as far as WKPC-15"	
11	0000 WLYH-15, WCDC-19,			0935	WHMB-40 Indianapolis IN?	
	WSBA-43? CCI on WUAB,				"had to leave before ID"	
	not logged				"Total now 257"	

"Target date for CN Tower is November & new UHF locals in Kitchener not awaited with joy here!"



# CENTRAL TV-DX

William J. Draeb  
Ellis St. R.R.#2  
Kewaunee, Wis.  
54216

Deadline: 12th

For the most part the past month was kind of dull. Not much in the way of tropo dx with the exception of 10-5 and 10-7. The tropo of 10-5 was particularly interesting as I saw my first tropo ever (in 22 yrs.) from Texas.

John F. Combs: Oberlin College, Box 627, Oberlin, Oh. 44074 EDI

8-31 Tr At Chattanooga, Tn.: First stop on way to Oberlin. At the DAYS INN, just North of the Georgia border, viewed WCLP-18 xltrs on 71 & 65, plus weak signals from WAGA-5, WATE-6, WHNT-19, WAAY-31 & WMSL-48.

9-1 Tr Atop Lookout Mountain, Tn.: (elevation 2400 ft. ASL). My TV doesn't work on batteries, but I was fortunate to find a woman operating a gift shop on the top of the mountain who was kind enough to let me "borrow" some electricity. Between 0930 and 1015 I logged the Chattanooga locals 3, 9 & 12 (45 & 61 not on), plus Atlanta 2, 5, 11, 17, 30, 46 like locals, Knoxville 6, 10, 26 also local quality, Huntsville 19, 31, 48 fair. (Distances 105, 100, & 80 miles resp.). Also in was WSPA-7 Spartanburg, S.C. (165mi.) weakly, plus a 10 khz offset on WHNT-19, which could have been WNOK-19.

9-1 & 9-2 Tr At Monroe, Oh. (30 mi. N. of Cincinnati) Arrived late afternoon. Using my TV I was only able to view the area stations plus a few weak fringe signals. BUT--in the evening some fantastic tropo was seen, with distances of up to 280 mi. on built in antennas. Monroe is in a rather elevated area, which helped, but I guess I just stumbled on to a rather unusual opening. Over 50 stations were logged in the late evening of the 1st, and morning of the 2nd. Because of this large volume of loggings, I have omitted times and locations; below is what was viewed:

WLWD-2 Oh. (25)	WJRT-12 Mi. (250)	WKSO-29 Ky. (160)
WJBK-2 Mi. T	WSPD-13 Oh. (160)	Unided-30 PBS
WSAZ-3 W.Va. (130)	WZZM-13 Mi. (260)	WLKY-32 Ky. (115)
WLWC-4 Oh. (90)	WMUB-14 Oh. (25)	WKJG-33 In. (120)
WTTV-4 In. (125)	WANE-15 In. (120)	WOSU-34 Oh. (90)
WLWT-5 Oh. (30)	WKTR-16 Oh. (25)	WNIT-34 Tent.
WTWN-6 Oh. (90)	WNDU-16 In. (180)	WLIO-35 Oh. (90)
WJTM-6 Mi. (230)	WLEX-18 Ky. (100)	Unided-35 PBS
WHIO-7 Oh. (25)	WLFX-18 In. (155)	WKMR-38 Ky. (100)
WTRF-7 W.Va. (205)	WXIX-19 Oh. (30)	WUHQ-41 Mi. (205)
WJW-8 Oh. (205)	WPTA-21 In. (120)	WUAB-43 Oh. (190)
WOTV-8 Mi. (260)	WKEF-22 Oh. (25)	WOUC-44 Oh. (155)
WCPO-9 Oh. (30)	WSBT-22 In. (180)	WSNS-44 Il. (245)
WENS-10 Oh. (90)	WAKR-23 Oh. (185)	WKLE-46 Ky. (100)
WILX-10 Mi. (200)	WDHO-24 Oh. (160)	WMSH-46 In. (180)
WHAS-11 Ky. (115)	WVIZ-25 Oh. (205)	WCET-48 Oh. (30)
WTOL-11 Oh. (160)	WKXN-25 Mi. (280)	WIPB-49 In. (80)
WKRC-12 Oh. (30)	WSJV-28 In. (180)	WKBD-50 Mi. (220)
		WBGU-57 Oh. (90)

Remainder is from Oberlin, except for the 3rd; these loggings made in Amherst, 8mi. N. of Oberlin, so countable in my totals here. Locals here on 3, 5, 8, 23, 25, 43.

9-3 Tr 0850 WJBK-2 Detroit (in usually)

WVJ-4 " (95)

WVYZ-7 " (95)

WTRF-7 Wheeling (120)

0851 WSTV-9 Steubenville (105)

WENS-10 Columbus (100)

WTOL-11 Toledo (in usually)

0852 WBOY-12 Clarksburg (175)

WSPD-13 Toledo (in usually)

0853 WLIO-35 Lima (110)

WTTV-33 Youngstown (85)

0854 WKBN-27 " "

WDHO-24 Toledo (80)

9-3 Tr 0855 WHIZ-18 Zanesville (95)

WTAP-15 Parkersburg (150)

0857 WILX-10 Jackson (135)

0859 WUCM-19 Bay City (185)

0919 WKBD-50 Detroit (95)

0949 WKNX-25 Saginaw (175)

1003 WFMJ-21 Youngstown (80)

9-5 Tr 1125 CKGN-6 Paris, Ont. (125)

9-7 Tr 2029 CKCO-2 Wiarnton Tent.

2030 CKGN-22 Cottam (not sure

of xmtr location) (I'm

not either--wd)

CFPL-10 London (130) (local quality)



CENTRAL TV-DX

Nov. 1975

Combs; continued---

9-7 Tr	2346	WJAN-17	Canton, Oh.(55)	9-10 Tr	2324	WKBD-50	Detroit(95)
	2350	WKBD-50	Detroit(95)			WTVS-56	" "
			Detroit V's		2328	CKLW-9	Windsor(95)
			"			(now CHET--wd)	
9-10 Tr	0737	CKGN-6	Paris(125)		2347	WNEO-45	Alliance(65)
	0740	WDAU-22	Scranton(340)		2350	CHCH-11	Hamilton(185)
		WNEP-16	" Tent.		2355	CKGN-29	Oil Springs
		(Not NBC--had to be				WSEB-35	Erie(Tent.)
		them).(I would say so--wd)		9-14 Tr	0747	Youngstown U's	(80)
	0742	Youngstown U's		9-15 Tr	0830	"	" "
	0743	WTAJ-10	Altoona(215)	9-16 Tr	2305	CFPL-10	London(130)
	0745	WVIC-11	Pittsburgh(130)	9-17 Tr	2340	Detroit U's	(95)
		CKCO-13	Kitchener(180)	9-28 Tr	1919	CFPL-10	London(130)
		(like a local)				CKCO-13	Kitchener(180)
	0748	KDKA-2	Pittsburgh(130)			CKGN-22	Cottam(4+2.08 N
	2322	WVED-17	Buffalo(230)			82.45 W--wd)	
		Youngstown U's(85)			1920	CKGN-29	Oil Springs(42.
		CKGN-22	Cottam, Ont.			47 N 82.07 W--wd)	
		CKCO-13	Kitchener(180)		2305	WJAN-17	Canton(55)
	2323	CFPL-10	London(130)	9-29 Tr	1932	WXON-20	Detroit(95)
		WUTV-29	Buffalo(230)			CKGN-22	Cottam
						" -29	Oil Springs
					1933	WGPR-62	Detroit(95)
						WKBD-50	" "

Thanks for the report John and welcome to the Central Dx Column. Hope to hear from you again soon.--wd

"It looks like my reports now come under your column. I've been blessed with some really fine tropo since I've been here in Oberlin, as well as some pretty fantastic DX on the way up. WDAU-22 logging on the 10th was indeed very surprising. I've left 16 as tentative since it was never in long enough to get any positive info, however, I did notice that it was not NBC, thereby ruling out South Bend. All the tropo was in from that direction(East) anyway.

I am on the 2nd floor of a dorm here, so I have about a 20-ft. height advantage. Still only using the built-in antennas on the set. Log is at 44, with  $\frac{1}{2}$  of those on UHF. Keep up the good work with the coulmn, Bill(I'll try--wd)...73's to all." John

Frank Wheeler: 6589 Wattsburg Road, Erie, Pa. 16509 EDT

"Not much to report on. Can't imagine where I was when Seybold got those fantastic catches on Aug. 8-9. I was away in the evening but home during the day. Hope to do better from now on as I bought an Archer Servo-Rotor to use with a new Archer VU-160 VHF-UHF-FM antenna. Works good on FM but not much of a chance to try it for TV as reception hasn't been good for TV-DX. I did pick up CITY-TV 79 and WPSX-3 50% better than old antenna without a rotor. I'm anxious to try it when tropo and skip are coming in good. Now for my small report (before rotor and new antenna).

8-3 Es	1630	KWGN-2	Denver, Co.(1292)	4433.	"Maybe I can do a little
8-4 Es	1701	WLWZ-2	Bangor, Me.(589)	2322.	better with my new rotor
9-2 Tr	2000	WITI-6	Milwaukee, Wi.(405)	1222.	and antenna." (I'm sure you

Paul Gaines: 15920 Puritan St., Detroit, Mi. 48227 EDT

9-29 Tr	1145	WGPR-62	Mi. 5555(34)	10-6 Tr	0928	WFYI-20	In. 2543(230)
10-5	0215	CFPL-10	On. 4553(105)		0932	WPTA-21	In. 1532(130)
	0218	CHCH-11	On. 2555(170)		0933	WSBT-22	In. 1031(160)
	0226	WLWC-4	Oh. 1522(")		0950	WSJV-28	In. 1532 "
	0304	CFTO-9	On. 1552(205)		0951	WKJG-33	In. 2533(130)
	0325	WLWD-2	Oh. 1032(190)		0952	WNIT-34	In. 2544(160)
	0412	WENS-10	Oh. 1533(170)		0954	WILL-38	In. 1532(290)
10-6 Tr	0204	WRTV-6	In. 1022(230)		1007	WICD-15	Il. (305)1022
	0209	WLWT-5	Oh. (235)		1015	WFIE-14	In. 1322(375)
	0211	WCPO-9	Oh. 1522(")	10-7 Tr	0855	WFLB-32	Il. 1532(225)
	0214	WKRC-12	Oh. 1222(")		0856	WGVC-35	Mi. 4533(115)
	0904	CKCO-13	On. 3542(140)		0916	WFYI-20	In. 1132(230)
	0914	WNDU-16	In. 1543(160)		0924	WKOW-27	Wi. 1322(315)
		WANE-15	In. (130)		2209	Youngstown U's	3543(150)
	0916	WAND-17	Il. 1533(340)		2210	WJAN-17	Oh. 2542(145)
	0920	WLFI-18	In. 1522(220)		2213	WAKR-23	Oh. 3542(120)
	0927	WICS-20	Il. 1422(375)		2219	WUUC-44	Oh. 2522(180)







CENTRAL TV-DX

Nov. 1975

Gould; continued---

- 10-5 Tr 0200 KMBC-9 Mo. 3522(458)  
0930 Springfield V & U's,  
then a call from Bill(me)  
saying UHF band is open to  
Houston!(that's right, my  
first tropo ever from Tx.)  
As of 0940, not a trace of  
activity from Texas here.  
(Actually, at 0930 they  
faded out for good here;--  
I first noted ch.26 at  
0746, they lasted one min-  
ute and faded out till 0818  
when they returned and were  
in until 0930--wd.)
- Tr 2143 Zero beat cci w/WCIU  
to SW; rapid qsb. Only other  
activity is KOLR-10 snowfree  
(in and out).
- 10-8 Tr 0630 WUTV-29 N.Y. 3525(404)
- 10-10 Tr 0520 Unid-36; WXIX-19 Cin-  
cinnati. Either a translator,  
or image, or mixed signal.  
The ch.36 station contained  
audio, (both video & audio weak)  
but signal strength to the S.  
is tremendous. Ch.32 Louis-  
ville appears at several places  
on the dial, but no audio app-  
ears.  
Tr 0700 WKKB-11 Alpena, Mi.  
5542(337)  
Signals very high from N.Lower  
Michigan to St. Louis.(Bill,  
WKKB is on air, and is CBS)(I  
know, I saw them this morning  
(10-17)---wd)
- Log total now at: 526

Clarke W. Ingram; 5201 Colewood Drive, Pittsburgh, Pa. 15236 EDT

- 9-3 Tr 0230 WRTV-6 Indianapolis, In.(330) SURPRISED! Was watching delayed  
ABC "Wide World of Entertainment on WTAE-4, at end of program  
checked band as I usually do, and caught their modified IHTP!  
Photographed for the Test Pattern Guide as well.
- 0330 WITI-6 Milwaukee, Wi.(460) zero beat to WRTV-6, in with ID after  
WRTV sign off, very weak and unstable. But it was there!  
Stayed up all night, but nothing in until:
- 0605 WHIO-7 Dayton, Oh.(230) Seen here before, but never snowfree!  
ID 3/4 CB with large "7" logo.
- 0630 All VHF locals and semilocals on except WQED-13, which sort of  
hinders DXing...
- 0830 WTVM-7 Evansville, In.(440) Strong zero-beat ABC station to WTRF  
-7, thought it was WLS until I heard weak "TVW" audio over WTRF.  
0920 Call from Tim O'Malley (still atop one of Pittsburgh's highest  
hills), who's pulling in all sorts of things. Since he can iden-  
tify none of it, I decide to join him. What he's receiving makes  
my dx look like zilch! At Tim's we log:
- 1000 WLOS-13 Asheville, N.C.(360) 13 is the only open VHF channel.  
This logged on rabbit ears!
- 1100 WSVN-47 Norton, Va.(280) on a crummy \$2.00 UHF bowtie from Radio  
Shack, no less.
- 1130 I have classes at Duquesne University at 1200, so I depart. It's  
just as well, since all the VHF channels are cluttered, and UHF  
is a mess what with Youngstown, Erie, Cleveland, etc. One can't  
do much with a cheap UHF bowtie, and an inaccurate UHF tuner,  
either.(You said it--wd) So ends the best tropo opening ever  
seen in Pittsburgh---and my best catch on low band at that (WITI  
-6 at 460mi.). I wish I had been better prepared for it, but I  
was caught somewhat off guard. My kingdom for a UHF parabolic  
dish! (That would sure help--wd). On to more mundane DX:
- 9-4 Tr 0550 WTOL-11 Toledo, Oh.(120) with IHTP.  
0555 CHCH-11 Hamilton, On.(230) weak ID 3/4 CB w/logo.  
0600 WOMK-13 Huntington, W.Va.(190) new call (never saw as WHTN),  
modified RETMA with call over grey scales.  
0615 WCHS-8 Charleston, W.Va.(150) with wedge-TP.  
0645 WTAP-15 Parkersburg, W.Va.(Oh.)(120) ID RETMA, weak.  
WHIZ-18 Zanesville, Oh.(120) ID full CB.
- 9-5 Tr 0545 WTVR-6 Richmond, Va.(250) with unid RETMA before 0600 sign on.  
0615 WDBJ-7 Roanoke, Va.(220) audio only, 1000 Hz test tone, then SSB  
and sign on.
- 9-16 Tr 0930 Another call from Tim; at his QTH I receive:  
1000 WLVA-13 Va. Lynchburg(220) ad mentioning Lynchburg appliance  
store.  
WXEX-8 Petersburg, Va.(260) ID as Petersburg-Richmond, slogan  
as "The Big Eight".
- 1100 Same situation as on 9-3, so I decide to leave.



CENTRAL TV-DX

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Ingram; continued---

- 9-17 Tr 1030 CKCO-13 Kitchener, On.(210) 13 once again, the only open VHF channel.
- WNXP-16 Scranton, Pa.(230) with computer-type logo, (WQEX-16 off the air for the summer.)
- 9-23 Ms 0205 WITI-6 Milwaukee, Wi.(460) with sign off news slide. This logging prompts me to ask a question: has anyone ever logged a station via MS while receiving them on weak tropo? It's possible...(I know it is, I've done it several times--wd)
- 9-29 Ms 0521 KYW-3 Philadelphia, Pa.(255) custom TP with large 3 to right, seen also while in Atlantic City. The distance is a little short, but it was definitely MS.
- 0548 WSB-2 Atlanta, Ga.(520) ID full CB with large logo, digital time keyed at top.
- 9-30 Ms 0549 WCBS-2 New York, N.Y.(320) relog of their CBS tp.
- 0555 KMOX-4 St. Louis, Mo.(560) ID 3/4 CB with large "4" superimposed over middle.

Tr 0556 WRC-4 Washington, D.C.(190) ID 3/4 CB and RCA tp.

10-2 Ms 0543 WCBS-2 New York, N.Y.(320)

0548 KMOX-4 St. Louis, Mo.(560)

10-10 Es 1030 Strong 10 khz cci to KDKA-2, lasting until 2200 when it abruptly disappeared. This was apparently a weak stationary Es cloud, appearing off-season to produce reception of a single station. Checked every 15 min. but signal never changed. Probably not tropo as no other channels were affected. (Even if nothing is lined, it's still nice to see an off-season opening, just to know it's there, hi.)(I missed out on that one--wd)

That's Pittsburgh DX through October 13. I was totally surprised by the super tropo opening on September 3... I wonder how I might have fared with the Archer V-180 antenna I will be purchasing in the near future. With KDKA-2, WTAE-4, and WIBC-11 all signing on at 0600 EDT, I am growing desperate. Can anyone recommend some adjacent channel traps and amplifiers?

Congratulations on 600-plus stations, Bill; since you'll probably have a long column(they've been getting shorter--wd)this month, and since I am already late in reporting, I will forego my usual wordiness this time. If any one has any test pattern photos, I hope they submit them soon.

Rod Louma: 38540 Five Mile, Livonia, Mi. 48154 EDT

- |  |  |
|--|--|
| 10-7 Tr 1030 <u>WISN-12</u> Milwaukee, Wi.   | 10-10 Tr 0922 <u>WCET-48</u> Cincinnati, Oh. |
| <u>WGVC-35</u> Grand Rapids, Mi.             | 0930 <u>WOUB-20</u> Athens, Oh.              |
| 10-8 Tr 0005 <u>W4GAB</u> Brocton, N.Y.      | 0940 <u>WUCM-19</u> Bay City, Mi.            |
| 0035 <u>WJAN-17</u> Canton, Oh.              | 0950 <u>WOUC-44</u> Cambridge, Oh.           |
| <u>WSEE-35</u> Erie, Pa.                     | 1000 <u>WCMU-14</u> Mt. Pleasant, Mi.        |
| 0040 Youngstown U's                          | 1025 <u>WMBD-31</u> Peoria, Il.              |
| South Bend U's                               | <u>WSJV-28</u> S.Bend, In.                   |
| Fort Wayne U's                               | <u>WCIU-26</u> Chicago, Il.                  |
| 0045 <u>WYTV-29</u> Buffalo, N.Y.            | 1030 <u>WYIT-34</u> S.Bend, In.              |
| 0855 <u>WEAO-49</u> Akron, Oh.               | 1035 <u>WTVP-47</u> Peoria, Il.              |
| 0955 <u>WPGH-53</u> Pittsburgh, Pa.          | 1050 <u>WLKY-32</u> Louisville, Ky.          |
| 10-10 Tr 0840 <u>WKRC-12</u> Cincinnati, Oh. | 1100 <u>WKPC-15</u> " "                      |
| 0920 <u>WKIX-19</u> " "                      | 1105 <u>WKMT-68</u> " "                      |
| 0922 <u>WHUB-14</u> Oxford, Oh.              | 1120 <u>WPGH-53</u> Pittsburgh, Pa.          |
| <u>WOET-16</u> Kettering, Oh.                | 1125 <u>WQLN-54</u> Erie, Pa.                |
| <u>WOSU-34</u> Columbus, Oh.                 |  |
| <u>WPEO-42</u> Portsmouth, Oh.               |  |

Log total now at: 282

"10-10(this Friday morning) was quite interesting in that two relatively narrow paths were open, one about due South about 15 degrees wide and the other WSW of the same or narrower width. I guess it would be a classic case of a narrow duct(two, actually). I'd sure like to try a CMA-Ub preamp but I'm afraid the locals would mess it up. Oh, yes WCPR-62 has been on the air for over a month now (programming began on Sept. 29). Several FM stations are locating their antennas on 62's tower(WHNE 94.7 is on and WAEX 99.5 is moving)."



Peter Odrisko; 1932 New York Ave., Whiting, In. 46394 (219)-659-2974 CDT

"The Chicagoland area experienced some fairly good UHF tropo openings last month. However, because of my work schedule, I undoubtedly missed a few. All things considered I can't complain because it's always a good feeling to log new stations. I never displayed much interest in the translators until Bill Draeb called my attention to W78AJ. I gave it a try and got it (my first). On August 27th WDRB-41 Louisville, Ky. was an unusual "break" since anyone in our area can appreciate fighting WUHQ-41 Battle Creek, Mi. The strength of their signal simply overwhelms all others. Now if I can only get WVUT-22 through WSBT-22 (its not easy--wd). It's been done so I know it's just a matter of time. My equipment remains the same--still no VHF antennas. UHF has been pretty good to me and I've really taken a liking to it. Doing UHF tropo has made me aware that the sophisticated dx-er employs techniques to enable him to make the most of his time and efforts. I venture to say if the government were to use its resources and man power the Weather Bureau could issue fairly accurate TV-DX tropospheric expectation reports. Wouldn't that be something? All stations listed are new. Log now 147."

8-17 Tr 1930 W78AJ Sheboygan, Wi.(150)	9-2 Tr 1900 WQLN-54 Erie(370)
8-27 Tr 0600 WKBN-27 Youngstown(350)	2230 WPGH-53 Pittsburgh(400)
9-1 Tr 1830 WQPR-62 Detroit(235)	2313 WSEE-35 Erie(370)
(snowfree)	9-16 Tr 0900 KRIN-32 Waterloo(255)
1900 WKMJ-68 Louisville(280)	10-7 Tr 1900 W72AJ Escanaba(265)
2000 WKGB-53 Bowling Green(360)	(New record)
2120 WTVQ-62 Lexington(310)	1930 W76AI Escanaba(265)
2200 WDRB-41 Louisville(280)	W55AE Manistique(282)
2300 CKGN-29 Oil Springs(")	(new xltor)

"About 2 weeks ago I received a phone call from the Compass newspaper which has a circulation of about 1/2 million daily. They asked if they could send out a photographer and a reporter to interview me. Well, I never knew it would bring such a response. The phone hasn't stopped ringing. It's been 3 days and I'm still getting calls. People stop me on the street. I've tried to answer their questions as best I can, however, I've encouraged all of them to join WFFDA. I wouldn't be surprised if we get some new members." (Thanks for sending me a copy of the article Peter;--it's very interesting and I'm sure the club will acquire some new members because of it--wd)

William J. Draeb; Ellis St. R.R.#2, Kewaunee, Wi. 54216 (414)-388-2350 CDT

9-17 Tr 2003 WKYT-27 Lexington(473)	10-2 Tr 1842 KHIN-36 Red Oak Tent.
2113 WMUL-33 Huntington(498)	10-4 Tr 0630 KPLR-11 St. Louis T
WOSU-34 Columbus(395)	0656 KMTC-27 Springfield(589)
WPBO-42 Portsmouth(461)	2339 KTSB-27 Topeka(560)
9-18 Tr 2117 Cleveland U's(355)	KBMA-41 Kansas City(525)
WOSU-34 Columbus(395)	10-5 Tr 0635 KHQA-7 Hannibal(382)
WKYT-27 Lexington(473)	0648 KCBJ-17 Columbia(450)
Indianapolis U's(336)	WICS-20 Springfield(325)
2143 KHIN-36 Red Oak Tent.	KMTC-27 (Mo.)
9-24 Tr 0745 KINL-30 St. Louis(432)	WKYT-27 Lexington(473)
0803 WLKY-32 Louisville(437)	WAKR-23 Akron(380)
WDRB-41 "	0700 KINL-30 St. Louis(432)
1941 WKYT-27 Lexington(473)	0718 WJET-24 Erie(405)
WOSU-34 Columbus(395)	0727 Youngstown U's(420)
9-25 Tr 2018 KINL-30 St. Louis(432)	0736 WRDU-28 Durham T
9-26 Tr 1930 "	0740 KTVJ-16 Joplin(633)
WKYT-27 Lexington(473)	0746 KVRB-26 Houston(1118)
Cleveland U's(355)	(in from 0746-0747 and 0818-0930)
9-27 Tr 0635 CHLAT-3-9 Wawa(276)	0753 WTVK-26 Knoxville(626)
CHLAT-4-11 Marathon(301)	0815 KFPW-40 Ft. Smith T
CKNC-9 Sudbury(350)	0947 WKYT-27 Lexington(473)
9-28 Tr 0110 "	1856 KHIN-36 Red Oak T
CKNC-1-7 Elliot Lake(270)	Cleveland U's(355)
CKNX-8 Wingham(307)	10-7 Tr 0656 WMUB-14 Oxford(365)
0135 CFPST-3-12 Elliot Lake(270)	WCKX-19 Cincinnati(400)
CFPOT-1-12 Kapuskasing T	KINL-30 St. Louis(432)
0141 CFPST-1-13 Sudbury(350)	WICS-20 Springfield(325)
0715 Youngstown U's(420)	0715 WFMJ-21 Youngstown(420)
WJET-24 Erie(405)	0721 WKMU-21 Murray T
9-29 Tr 0147 CHLAT-3-9 Wawa(276)	



**CENTRAL TV-DX**

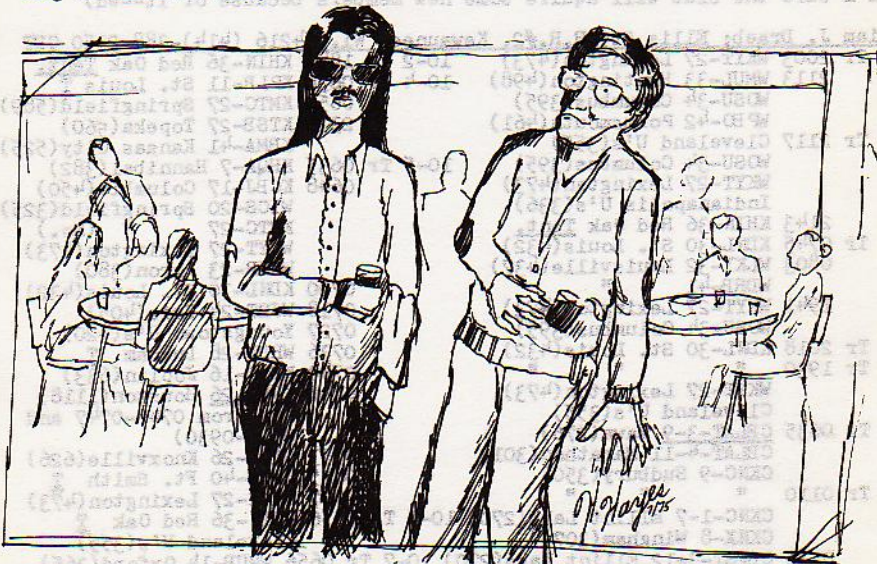
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Draeb; continued---

- 10-7 Tr 0731 KVLH-26 Houston T(again??)
- 0732 KMTC-27 Springfield(589)
- 0744 WTUU-30 Bloomington(376)
- 0748 WFYI-20 Indianapolis(336)
- WKGB-53 Bowling Green(530)
- 0755 W56AB Darlington, WI.(179)
- W67AC " " "
- W69AB " " "
- (ch.67 was much weaker than the other two)
- 0830 WCET-48 Cincinnati(400)
- WIPB-49 Muncie(319)
- WKON-52 Owenton(437)
- WCWN-54 Covington(407)
- WSVN-47 Norton T
- 0845 Youngstown U's(420)
- 10-8 Tr 0235 CBFST-3-12 Elliot Lake(270)
- Unid-12 same direction.
- CBFST-1-13 Sudbury(350)
- CHLAT-4-11 Marathon(301)
- 1848 KHIN-36 Red Oak T
- 10-11 Tr 2017 Cleveland U's(355)
- WKEF-22 Dayton(368)

- 10-12 Tr 0600 CBLAT-1-8 Manitowadge (368)
- 0615 CBLAT-13 Geraldton T
- CBFST-3-12 Elliot(270)
- CKNC-1-7 " "
- KEYC-12 Mankayto T
- 0821 KINL-30 St. Louis(432)
- 1107 WKYT-27 Lexington(473)
- 1237 WKSO-29 Somerset(538)
- (full color bars)
- 1845 WTUQ-62 Lexington(473)
- 10-14 Tr 0115 CBLAT-1-8 Manitowadge (stronger than Wawa, Marathon or Kapuskasing)
- CHLAT-3-9 Wawa(276)
- 0147 CBLAT-4-11 Marathon
- 0155 CBFOT-1-12 Kapuskasing (417)
- 10-16 Tr 1903 WKYT-27 Lexington(473)
- WOSU-34 Columbus(395)
- 1906 WMUL-33 Huntington (498)
- 1909 WKSO-29 Somerset T
- Cleveland U's(355)
- KINL-30 St. Louis(432)
- 10-17 Tr 0556 WKEB-11 Alpena(205)
- (full color bars with lot of info on; could n't read most of it.)
- 10-18 Tr 1458 W55AE Manistique(121)
- (crummy signal)
- 1820 WKYT-27 Lexington(473)
- 10-19 Tr 0400 CBFOT-1-12 Kapuskasing
- CBLAT-3-9 Wawa Tent.

" As of today(10-19) it looks like tropo dx has taken a vacation. Nothing much going on;--weather not cooperating, e.i. mostly cloudy,cold , highs in the upper 40's during day. Could use a little Indian Summer to liven up things. On the other hand, the Orionids meteor shower has gotten under way. I noted a few high-band bursts in the short time I've watched." Log total now at:625



...yep, I connected the CM-11C1, A-145, TV-300-HP, CM-5230, 13 element yagi, HQ-3 separator, DH-7500 bandpass and a 7' dish, now if I can just find a TV that won't blow out!



# WESTERN TV DX

Dennis Park Smith  
50 Manzanita Way  
-- Paradise, California 95969  
Telephone 916 877-2975  
Deadlines: 10th of each month

November 1975

Some old business first: three letters from mid-June couldn't find me through my summer adventures until now, so they follow immediately below. It only further shows how this summer was, here, with resulting deterioration of the column.

One letter is from Bradford E. Wall, 25776 Walker Street, San Bernardino, California 92404. Yes, Brad, I remember your reports from the late 1960's and how, even then, some of those were delayed by my forwarding problems. Anyway, Brad mentions a note about the California DX Club, which has published monthly bulletins since October 1974. Various regional and state-wide DX clubs are active here and there, and this one may be of interest to those in this part of the country. It is a general-coverage club, with articles of interest to followers of short wave, BCB, and TV/FM DXing. Membership is \$3.00 per year, and a sample bulletin could be sent. Write to Bradford at his address.

The other two letters are, unfortunately, reports of May/early June DX from Jim Pizzi and Bob Cooper. For these, change the following in the Es chart for May and early June (in the September column): Add May 24 aft, 1 reporter, ch 2. Add 1 reporter for May dates 9 aft, 9 eve, 10 eve, 13 aft, 15 am, 15 eve, 20 am, 20 eve, 22 am, 23 am, 24 am, 24 aft, 25 am, 27 am, 27 aft, 28 eve, 30 eve, 31 am, 31 eve, Jun 1 am, 1 eve, 2 am, 2 eve, 4 am, 4 eve, 5 aft, 9 am. Add 2 reporters for May dates 19 aft, 22 aft, 22 eve, 26 eve, 27eve. Now to those reports themselves.

Jim Pizzi, 300 Park, Orcutt, California 93454

(2 Feb - 9 Jun)

(PDT)

March:	23 Es 0830 KATU 2 OR tent.	1631 unId 5
1 tr 2307 K55AP(KCET 28) GA	0832 unId 3 north	2300 Span.2 s.s.e.
S.Barbara? 4555	0833 unId 4 north	
5 tr 1900 K57??(KEYT 3)2055	26 Es 1930 KDFW 4 Dallas TX	June:
K63??(KCOY12)3455	1959 KTEW 2 Tulsa OK	4 Es 1130 KNOP-2 N.Platte NE
K69??(KSBY 6)3455	2001 unId 3 "Grim"	2229 KATU 2 Portland OR
all CampRoberts-	2005 KCET 2 Grt Bend KS	2236 KOMO-4 Seattle WA
BradleyCA,100W.	2016 KMID-2 Midland TX	5 Es 1430 KWAB 4 BigSpringTX
9 Es 1430 KMID-2 Midland TX	2030 unId 4 "The News"	1440 KMID-2 Midland TX
19 Es 1700 unId 2 (on cable)	27 Es 1000 KMID-2 Midland TX	2 Es 0900 WKY -4 OK City OK
20 Es 1115 unId 2 (east)	1001 un. 2 resol.chart	KDIX-2 DickinsonND
21 Es 1031 KNOP-2 N.Platte NE	1130 KDIX-2 DickinsonND	KAMR 4 Amarillo TX
22 Es 1135 east 2 weak	1615 KNOP-2 N.Platte NE	(new call)
1750 unids 2 & 3	1628 unId 6 2/CGI-KSBY	1130 KMID-2 Midland TX
2302 KTVQ 2 Billings MT	1630 KWGN 2 Denver CO	Present log total 154.

Bob Cooper, Jr, Route 5 Box 782, Guthrie, Oklahoma 73044

(7 May - 8 Jun)

(CDT)

Es began late here, and what there has been of it (there has been some, all right) has been at best "un-interesting." Since this is my 25th year of watching Es, perhaps the "thrill" is beginning to wear off! Tropo had some interesting moments during this report period; mid-month was above average for a May here with some really outstanding signals if not distance.

May 9: Es tune-in 1830 chs 2 and 3.  
May 10: Es t/in 1828 ch 2.  
May 11: tropo t/in 0945 KVUE 24 KTVV 36 TX.  
May 12: tropo t/in 0808 KCBJ-17 MO.  
May 13: Es t/in 1630 chs 2 and 3.  
May 15: tropo 0700 KVUE 24 KTVV 36 TX; Es 0712 ch 2 s.e., apparently ran thru most of day; Es t/in 1630 thru to 2230-2200 KXSOI-3 CJIC-2.  
May 16: tropo t/in 0650 KCBJ-17 KDNL-30 MO WIGS 20 IL WAND-17 IN, t/in 2245 KMEG 14 IA KMNE 7 KHNE 29 KXNE 19 NE KCBJ-17 MO KVFD-21 IA KRIN-32 KDIN 11 WHO-13 IA KGIN 11 KTVV 36 KVUE 24 TX WKOW-27 WMTV 15 WEAU-13 WI, etc.  
May 17: tropo t/in 0950 KDNL-30 KCBJ-17 MO WIGS 20 IL, t/in 2045 KCBJ-17 KDNL-30 MO KIDZ-24 KVUE 24 TX, 2201 KRIN-32 KVRL 26 (that's some spread) WPNE 38 NE(tent)WDXR-29 etc  
May 18: tropo t/in 0845 KDNL-30 MO, t/in 2045 weak ch.16 CGI, t/in 2125 KDNL-30 MO WIGS 20 IL KCBJ-17 MO.  
May 19: tropo 0700 KDNL-30 MO; Es t/in 1721 chs 2,3, t/in 1810 KXW-2 DF KEZ-3 Qro.  
May 20: Es t/in 1615 weak s.e, 1830 WUND-2 NC WTAR-3 VA, 1943 WGBD-2 SC, 2000 WKYC-3 WJBK-2 MI.



May 21: tropo t/in 0715 WFIE-14 IN KCBJ-17 MO WIGS 20 IL KVUE 24 TX WEHT 25 WDNL-30 MO KTVV 36 TX KHNE 29 NE KMEG 14 IA KXNE 19 NE, 0750 KPOB-15 MO WKMU-21 KY (Es ch.2 east, at this time) WKMA-35 KY KEDT 16 K19AA KS KVRL 26 (again some spread from Corpus Christi TX north to Sioux City IA & Evanston IL), t/in 1600 KDNL-30 KPOB-15 MO, t/in 1920 KDNL-30 MO KRIN-32 KVUE 24 KTVV 36 KNCT 46 TX, t/in 2035 KCBJ-17 KTVI 2 (450 mi) MO thru KTEW 2 OK WVUT 22 WHLA 31, t/in 2130 WIIL 33 IN WKY-32 KY, t/in 2234 WKEF-22. The signals within 500 mi (six of them) were all individually capable of overloading front end of converter and combined they created worst case of cross- and inner-mod. ever seen here. Signals very stable with KDNL-30 (450 mi) typically over +30 dBmV into converter for hours on end.

May 22: tropo t/in 0755 WIGS 20 IL KCBJ-17 MO WICD 15 IL KDNL-30 MO KRIN 32 KHNE 29 NE KVRL 26 LA (spread still there) KMEG 14 IA WAPT 16 MS KLAA 14 WRBT-33 IA KTRK-13 KHTV 39 TX WHBQ-13 WMTV 15 WI WCEE-23 WEEK-25 IL (open from Houston TX north to southern WI), Es t/in 1612 chs 2,3 but heavy weather here prevented any low-band DXing. Also tropo KDNL 30 MO weakly. Es continued on & off, with heavy thunder, through evening.

May 23: tropo t/in 0655 KCBJ-17 MO.

May 24: Es t/in 0930 chs 2-6 thru 1030+, WMAR-2 MD WPBT 2 FL noted.

Es t/in 1935 ch 2 noted.

May 25: Es t/in 1002 ch 2 noted; tropo t/in 2145 KIDZ-24 KVUE 24 KTVV 36 KNCT 46 TX KHNE-29 NE (later on LS).

May 26: tropo t/in 0905 KDNL-30 MO; Es chs 2-3 edging up to 6 at peak—noted KORK-3 NV KTVU 2 KCRA-3 CA XETV 6 (tent.) BGN XHFA-2 KNKT 2 CA XEWB-6 Son (#611).

May 27: Es t/in 2015 ch 2 weakly, favoring vertical polarization, east, in/out 30 minutes. First clear favoritism of season—indicates tilted layer (which means high MUF potential). Openings this far in May have been basically horizontal in flavor, as caught here. Without vertical "flipping" the MUF is just not going to rise.

May 28: Es t/in 1700 WPBT-2 FL, Es past 2200 with WSAV-3 GA WSB-2 at 2030, WGR-2 WSYR-2 NY at 2100, MUF never above ch 5 here.

May 30: Es t/in 1845 WPBT 2 WEDU 3 FL, Es in & out past 2300.

May 31: Es t/in 0740 WFSX-3 KDKA-2 PA, 0900 WGR-2 WSYR-3 NY, 0927 CKGN-2 Ont, 1100 WWAY-3 NC, t/in 2227 ch 2 Es, direction unknown.

June 1: Es t/in 0845 WGBD-2 SC, t/in 1130 KDKA-2 PA, t/in 2100 WUND-2 NC.

June 2: Es t/in chs 2-3, t/in 1935 ch 2, 2000 KUTV 2 w/booming signal, MUF to ch 5. Also tropo KEDT 16 at this time. Es t/in 2107 KIVI-6 ID, tropo KIDZ-24 KTVV 36 KVUE 24 TX. Es past 2230 here.

June 3: tropo t/in 0702 KVUE 24 KTVV 36 KTRK-13 KEDT 16 KHOU-11 TX KVRL-26 KHTV 39 TX KLAA-14 LA WMAA 29 MS WAPT 16, 0800 KTVT 13 Laredo TX (#612, 572 mi), t/in 2120 KHTV 39 KTVV 36 KVRL 26 KIDZ 24 KVUE 24 TX KEDT 16 WAPT 16 WMAA 29 MS KHNE 29 NE WMAO 23 MS WMAW 14 MS KLAA 14 LA. 73.

Now to some more recent DX. These reports involve August DX (from letters received a month ago and this time, too) and September DX. This will catch things up with the Western TV-DX column.

Es-wise, more reports have added to the chart for August, but there has been no Es reported for any date in September. After 16 Aug, there were no more sporadic-E sightings except on 23 Aug. However, Fred McCormack noted strong Es 15-eve (weak or non-existent from other reporters) and on 16 eve, 21, 22 and what he noted as aurora-induced Es on 26th. I wonder if the other dates noted were aurora-induced Es, as no other more southerly locations were heard from then. In more usual Es, southern locations report the better activity. In tropo DX, DXers in Oklahoma and Kansas caught some worthwhile distance on 31 Aug/3 Sep. Dave Pomeroy and Bob Cooper's reports were in last month's column and Richard Allen's in this issue. Richard's most-distant was at the same time as Bob's most-distant noted, on 3 Sep at 0500 CST. Richard then noted WAKR-23 Ohio at 910 miles, as did Bob with WAKR-23, and WFMJ-21 from Ohio at 975 miles.

	aft eve		am aft		eve eve		am aft		eve eve		am aft		eve eve		midn+ am		aft eve	
Sporadic-E August:	1	1	2	2	2	5	6	6	6	8	3	3	9	9	9	9		
Number of reporters	2	4	3	2	2	6	3	1	1	4	3	4	1	2	1	6		
MUF at least(ch/MHz)	1079-106	4	5	2	985	941	4	2	983-941	1071	5	1079	1077	1065				

am	eve	am	aft	am	-aft	eve	eve	midn+	am	eve	am	am	aft	eve	eve	(AuEs)		
10	10	11	12	13	14	14	15	16	16	16	21	22	23	23	26	Sept:	nil	17
1	1	1	1	1	2	4	3	1	5	1	1	1	3	2	3	0	1	
4	2	2	969	4	1079-947	108+	1079-1043	108+	2	2	3	6	3	3	2			3



Pat Dyer, 5315 Silvertip Drive, San Antonio, Texas 78228 (5 Aug - 8 Sep) (GST)

Equipment: 1971 model 9-inch black-and-white Penncrest with an Archer V-100 and 8-bay bow-tie UHF array at 20 feet with rotor	
5 Es 1645 WCCO-?4 MN T1110	1915 unIds 2 0955 WUFT ?5 FL 975
1653 KSTP-?5 MN T1110	2055 unIds 2-6 1139 (MUF 107.9)
1658 KDAL- 3 MN 1250	2113 KDIX- 2 ND 1225 1359 WBAY- 2 WI 1190
1659 KTCA- 2 MN 1110	KORK-?3 NV T1050 WISC- 3 WI 1065
1715 unIds 2-6	2128 KTWO- 2 WY 1015 1459 CKCO1-2 Ont 1410
1758 KDLO- 3 SD 1070	2145 KID - 3 ID 1215 1500 CKPR- 2 Ont 1400
1759 KUSD- 2 SD 920	2204 WLW-D 2 OH 1075 1525 f/out
KGFE 2 ND 1240	2300 KNXT ?2 CA T1190 1630 unIds 2-4, WJBK- 2 MI 1225
1813 KPLO-?6 SD T 955	2335 unIds 2,3 0000-15 unId 2 WJW -?4 MI T1225
1822 KORN-?5 SD T1055	0115-19 unId 3 1703 WTVN-?6 OH T1135
1833 KFYR-?5 ND T1200	0840-45 unIds 2,3 1758 KGLO- 3 IA 985
1859 KDIX- 2 ND 1225	1115-25 unIds 2,3 1759 KID - 3 ID 1215
KLNE 3 NE 785	1450 WCBF 2 SC 1120 1800 KUTV 2 UT 1080
1928 KRMA-?6 CO T 810	1528 WCSC-?5 SC T1120 1857 KPLO- 6 SD 955
1930 KOTA-?3 SD T1040	1628 WSAV- 3 GA 1050 2025 KNBC ?4 CA T1190
(MUF to 98.5)	1638 WCIV 4 SC 1120 1759 WPBT 2 FL 1150
2055 KORK- 3 NV 1050	1810 WTVJ ?4 FL T1150 2032 KOAI 2 AZ 855
2059 KTWO- 2 WY 1015	1823 XHBC-?3 BCN T1015 2050 f/out
2120 KOAI ?2 AZ T 855	1846 KVOA-?4 AZ T 750 tr 2237 WRBT?33 LA T 450
2125 KAYT ?3 CA T1270	1928 XETV 6 BCN 1100 2259 KPILC- 7 LA 325
2129 KNXT 2 CA 1190	1948 (MUF 106.5) 15 ms levels good 0830-1000, but nothing Ided
2220 f/out	2159 KORK- 3 NV 1050 tr 2155 KPILC- 7 LA 325
6 Es 0710 unId 2	KNXT 2 CA 1190 16 tr 0020 WRBT?33 LA T 450
0828 KNOP- 2 NE 815	KNBC ?4 CA T1190 16 Es 0850 unIds 2-4, WOAY-?4 WV T1150
0829 KTVS 3 CO 815	2200 KOAI 2 AZ 855 0859 WLW-D 2 OH 1075
0859 KTWO- 2 WY 1015	2245 f/out 0905 WTVN-?6 OH T1135
0907 KTVQ 2 MT 1245	2245 f/out 0920 (MUF 106.3) 1059 KUSD- 2 SD 920
0928 KFYR-?5 ND T1200	10 Es 2120 unId 2 north, brf. 1205 KFYR-?5 ND T1200
0959 KOTA- 3 SD 1040	11 ms 0524:05 WEAR-3 FL 685 1210 KGFE ?2 ND T1240
1055 KUTV 2 UT 1080	12 Es 1120-25 unId 2 soon out
1107 KCPX-?4 UT T1080	12 Es 1630 unIds 2-4, XHBC-?3 BCN T1015
KSL -?5 UT T1080	1635 KNXT ?2 CA T1190 tr 2240 KOCO-?5 OK T 420
1111 (MUF to 94.1)	1640 XHQA-?5 BCN T1015 17 tr 2342 WAFB- 9 LA 450
1153 KVVU ?5 NV T1040	1655 (MUF 104.3) 1910 KTVK 3 AZ 835 19 tr 0015 KPILC- 7 LA 325
1159 KORK- 3 NV 1050	1928 KVOA-?4 AZ T 750 2259 WGN0?26 LA T 510
1208 KOAI 2 AZ 855	1929 KORK- 3 NV 1050 2358 KPILC- 7 LA 325
1229 KNXT ?2 CA T1190	2055 KVVU ?5 NV T1040 23 Es 1029 CJIG- 2 Ont 1405
KNBC ?4 CA T1190	2112 KVIE ?6 CA T1405 1059 WBAY- 2 WI 1190
KTVK 3 AZ 835	2130 KNXT ?2 CA T1190 1115 KGLO-?3 IA T 985
1245 KPHO-?5 AZ T 835	(2E?) 2145 KTVU 2 CA 1460 1120 WOI -?5 IA T 880
1250 f/out	Es 2230 f/out 1200 f/out
1325 unId 2 brief	13 tr 0000 KKAS- 5 TX 240 1230 unIds 2,3
1510-17 unIds 2-4 brief	ms 1129 WLW-D 2 OH 1075 1259 KID - 3 ID 1215
2005 unId 2 brief	Es 1700 Cuba? 2 1340 f/out
8 Es 0900 unIds 2-4	1708 WEDU ?3 FL T 985 1816 unId 2 brief
WOAY-?4 WV T1150	1714 WPBT 2 FL 1150 1900 unIds 2,3
0929 WAVE- 3 KY 950	1717 WTVJ ?4 FL T1150 1902 WPMY-?2 NC T1175
0950 KMOX-?4 MO T 790	1740 f/out 1907 WSB -?2 GA T 880
0959 KTVI 2 MO 790	1920-25 XHBC?3BCN T1015 2002 KDIX-?2 ND T1225
1025 KWGN 2 CO 810	ms 2250:10 KTWO-2 WY 1015 2113 WBAY- 2 WI 1190
KOA -?4 CO T 810	tr 2335 KPILC-?7 LA 325 2200 f/out
1105 KDIX- 2 ND 1225	2342 KLFY-10 LA 325
1125 KLNE ?3 NE T 785	2356 KRGV- 5 TX 225
1159 KOTA- 3 SD 1040	14 tr 0000 KALB- 5 LA 385
1200 KTWO- 2 WY 1015	Es 0905 unIds 2,4 0029 KLTV 7 TX 280
1245 KUTV ?2 UT T1080	WJXT ?4 FL T1015 (teletthon)
KCPX-?4 UT T1080	0928 WESH -2 FL 1055 0050 KFDM- 6 TX 275
KSL -?5 UT T1080	(vstrong&sharpMUF)
1254 (MUF to 94.1)	
1359 KID - 3 ID 1215	
1400 KORK- 3 NV 1050	
KVVU ?5 NV T1040	
1505 f/out	



Comments for August: The Es season has come to a decisive end, with Aug 23 being the last day of any. A good August total, anyway.

I didn't have the luck I hoped for with the Perseid Meteor Shower. The levels seemed down from the previous years. With the Lewis telethon on Labor Day I tried for some needed Ch 4,5 meteors but no luck there (or even on 2 & 3 where all likely would be re-logs anyway). With the superimposed town/phone numbers I figured it a good chance. Maybe somebody will hold one during the major showers one of these days. September:

11 tr 2228 KPIC-77 LA T 325 19 tr 0031 XHX-710 NL T 275 KCBP?11 TX T 340  
 18 tr 1023 KETS 2 AR 510 0034 KRGV- 5 TX 225 0915 KMCC 28 TX 340  
 1043 KARK-74 AR T 510 2358 KPIC-77 LA T 325 0920 WGN0?26 LA T 515  
 -in until apx 1400 with 30 tr 0730 KPIC-77 LA T 325 08 tr 0025 XHFW-79 Tamp T 505  
 some scdt traces at 1700 KXTX?39 TX T 250 XHX-710 XET-?6 NL T275

Comments for September: TV DX has been a far cry from the summer or spring levels. Sep 30 had best tropo of period. The duct into Arkansas on 18th was very limited but lasted long into day. 73, WA5IYX.

Richard Noel Allen, Billings, Oklahoma 74630

(14 Aug - 30 Sep) (CST)

Receivers: Sony KV1212 and Sony TV115

Antennas: 11-element VHF log at 15 feet and 44-el. UHF log above 25 feet

(14) Es	1750 KNXT	2 CA	1190	0501 KOLR	10 MO	245	2129 KBMA-41 MO	250
	1808 KNBC	4 CA	1190	0510 KMBC- 9 MO		250	2132 KDNL-30 MO	445
	1809 XHBC- 3 BCN		1060	0512 KOMU- 8 MO		335	2 tr 0512 KTHV 11 AR	295
	1836 KTLA	5 CA	1190	0519 WDKR-29 KY	N 490		0536 KATV 7 AR	
	1836 XETV	6 BCN	1120	0522 WIGS 20 IL		500	(CGI: KOAM- & KSWO-)	
	MUF: 108 MHz +			0525 WFIE-14 IN?	T 565		0542 KDNL-30 MO	445
	1837 unId	5 Mexico		(sync bars)			0548 KFPW-40 AR	190
	1911 unId	5sw(Bewitched)		0525 WIGD 15 IL	565		0556 WMAO 23 MS?	T 465
	1911 KORK- 3 NV		980	0527 WNDU-16 IN?(tp)	610		1932 KOZK 21 MO	245
	1912 KOAI- 2 AZ		810	0530 WRAU-19 IL	520		1950 WIGS 20 IL	500
	1923 XHBC- 3 BCN		1060	0534 WSNB-44 IL	600		2112 KDNL-30 MO	445
	1933 KVVU	5 NV	980	0544 KDNL-30 MO	445		2130 WAND 17 IL	530
	1955 unId	4 Mex.Net	2	0546 WEEK-25 IL	520		2132 WIGD 15 IL	565
	2006 KORK- 3 NV		980	0556 n.e. 22(CBS-EDT)			2134 KCPT 19 MO	250
	2016 KTVK	3 AZ	855	(WSPT- or WDAU-?)			3 tr 0434 WNDU-16 IN?	T 610
15 Es	1740 unId	3 (CBS)		0559 KCBJ-17 MO	335		0500 WAKR-23 OH	N 910
16 Es	0939 WCBD- 2 SC		1030	0615 KVFD-21 IA	400		0503 n.e. 31 sync bars	
	0939 WSAV- 3 GA		980	0615 WKMU 21 KY	525		0516 n.e. 26 sync bars	
	0939 unId	4 s.e.(NBC)		0634 KIDZ 24 TX	180		0516 WIGS 20 IL	500
	0955 unId	5 east(CBS)Ø		0638 WILL 38 IN	585		0541 KDNL-30 MO	445
	1004 WWAY- 3 NC		1110	0655 WLKY-32 KY	N 650		0543 WIGD 15 IL	565
	1004 WCBI- 4 MS? (ABC)			0658 KXNE 19 NE	385		2115 Only UHF stn noted	
	1043 WBTW 3 NC?	T 940		0658 K18AA 18 KS	160		was KTVJ 16 MO 180	
	1059 WPMY- 2 NC		1000	0700 KHNE 29 NE	290	4 tr	0510 KBMA-41 MO	250
	1200 WPSX- 3 PA		1070	0701 KMEG 14 IA	420		0540 KTVJ 16 & KTSB 27	
	1204 east	3 (cartoons)		0708 WCEE-23 IL	630		w/weak signals	
	tr 2100 KTVJ	16 MO	180	0721 KYNE 26 NE	345		2100 KTVJ 16, KCPT 19 &	
	(formerly KUHI-TV)			0725 K34AA 34 KS	165		KTSB 27w/weak sigs	
23 Es	1201 WPMY- 2 NC		1000	0725 K71BO 71 KS	N 160	5 tr	0542 KTVJ 16 w/weak sig	
	1201 unId	3 east		0728 K75CH 75 KS	N 180	6 tr	0520 KMTC 27 MO	245
	1237 WUND- 2 NC		1180	0733 K7ØEK 70 KS	55		CGI: KTSB27after0530	
	1258,1303 3, unIds, east			0733 KTWU 11 KS	190		0541 KGIN 11 NE	310
	1827 WMAR- 2 MD?	T1160		0748 KFPW-40 AR	N 190		0549 KHGI 13 NE	310
	(CBS, + offset)			1023 KCPT 19 MO	250		0551 KGLD 11 KS	205
	1839 WPMY- 2 NC		1000	1038 KBMA-41 MO	250		0551 KAYS- 7 KS	200
	(Atl.Braves bb)			1038 KTSB 27 KS	190		0551 KUPK-13 KS	205
	1917 unId	3 east(CBS)		1039 KTVJ 16 MO	180	7 tr	0900 KMTC 27 MO	245
	1955 WMAR- 2 MD?	T1160		1041 KMTC 27 MO	245		0900 KTVJ 16 MO	180
24 ??	1146 CKCO- 2 Ont		1020	1735 KMTC 27 MO	245		0902 KFPW-40 AR	190
	(apx 20 sec.)			1750 KCBJ 17 MO	335		0904 KXTX 39 TX	255
	(May be long MS burst. dps)			1906 KOMU- 8 MO	335		0904 KIDZ 24 TX	180
30 tr	2234 KHNE 29 NE		290	1906 KRGG 13 MO	320		CGI: KVUE 24 TX	
	2236 KAYS- 7 KS		200	1906 KDNL-30 MO	445		0908 WAPT 16 MS	505
	2333 KOME 8 KS		285	1925 WIGS 20 IL	500		CGI: KTVJ 16 MO	
	2337 KHGI 13 NE		310	1926 KOZK 21 MO	245		0917 KLA4 14 LA	N 410
	2339 KGIN 11 NE		310	1943 KCPT 19 MO	250		0941 KTHV 11 AR	295
51 tr	0401 KCCI- 8 IA		420	2002 KTSB 27 KS	190			
	0405 KKAS 5 TX		255	2021 KMTC 27 MO	245			
	0412 KFSM 5 AR		190	2033 WEEK-25 IL	520			
	0458 WMBD-31 IL		520	2036 KDNL-30 MO	445			



(Richard Allen's comments:) First week of September produced some exciting tropo, especially the opening on Labor Day. I did no DXing during remainder of month. Between Sept 13 and 22, I vacationed in Ontario, visiting Toronto, Kingston, Stratford, London, Owen Sound, Sudbury, Sault Ste. Marie and Thunder Bay, as well as many other points of interest. I only wished that I could have stayed longer. Good DX and 73s.

Glenn Hauser, 1312 West Oak Avenue, Enid, Oklahoma 73701		(2-31 Aug) (CST)	
2 Es 2050 KID-3 ID	2012 KNBC 4 CA	1731 KBCI 2 ID	1830 (MUF107.9)
2100 unId 4	(area FMs in)	1744 XHBC-3 BCN	1929 K06?? UT?
5 Es 1715 CKPR-2 Ont	2012 KTLL 5 CA	(MUF107.9, WA, AZ	(KSL-5 Id)
1715 KDAL?3 MN	2028 KNXT 2 CA	1758 XETV?6 BCN	1930 unIds 2&4
1715 CHFD?4 Ont	2029 KCRA-3 CA	1802 XEZ -3 Qro	(xltrs)?UT
(MUF 94.3)	2048 XHBC-3 BCN	(net-2)	1930 KSL-?5 UT
1726 CJTV?4 Man	2245 unId 6	1845 KXLF?4 MT	2030 unId 3
1738 KGFE?2 ND	0451 KMBC-9 MO	1915 KORK-3 NV	16 Es 0843 WCIV 4 SC
1748 KDIX?2 ND	0500 WQWT 6 NE	1916 KSBY-6 CA	0846 WECT?6 NC
1800 CKCK-2Sask	(vari5555exWOW)	1922 KTLL 5 CA	0900 WWAY-3 NC
1802 KSM?2 MT	0500 WHO-13 IA	1925 KETP 3 CA	0926 WAGA-5 GA
1825 CKOS-3Sask	0516 KCCI 8 IA	2013 KNKT 2 CA	(Atl.FMs in)
1855 CKBI?5Sask	0535 KQTV 2 MO	(2130 out)	0929 WCSC-5 SC
2020 unId 2	0544 KETV 7 NE	2040 unId 6	1025 KCPX-4 UT
6 Es 0725 WLWD 2 OH	0924 WOI -5 IA	13 MS 0101 unId 8	(MUF94.4areaFMs)
8 tr 0715 KETV 7 NE	Es 1645 WCIX 6 FL	0424 WAVE-3(IN)	1029 KSL -5 UT
0715 KMBC 9 MO	(MUF 91.3)	0424 unId 8	1029 KQTV 2 UT
0715 KMEG14 IA	1659 WEDU 3 FL	14 Es 1629 WWAY-3 NC	1051 WBTY 3 NC
Es 0935 CKPR-2 Ont	2030 WSB-?2 GA	1630 CBWFT?3Man	1058 WUNC-4 NC
1059 KRTV 3 MT	2047 WMAR?2 MD	1640 WUND-2 NC	1058 WPMY-2 NC
1100 KTVQ?2 MT	2049 unId 4	1640 WCSC 5 SC	1151 KGFE 2 ND
1100 KXLF?4 MT	11 MS 0448 WLWD 2 OH	1641 WJBF?6(SC)	(out 1330)
1115 KID -3 ID	0516 WKZO-3 MI	1641 WCB2 2 SC	23 Es 0958 WPSX-3 PA
1117 KPVI 6 ID	12 MS 0459 KATC 3 LA	1641 WCIV 4 SC	0959 KDKA-2 PA
(MUF 98.3)	Es 1630 XHJMA3Chih	1642 WSAV-3 GA	1000 WLWC 4 PA
1217 KBCI 2 ID	Parral(net-5)	1648 WUNC-4 NC	1015 WTAE 4 OH
1228 KUTV 2 UT	1632 KDAL?3 MN	1651 WRAL-5 NC	1029 WLWD 2 OH
1229 KORK-3 NV	1632 CKPR-2 Ont	(MUF 104.7)	1039 WDTV 5 WV
1229 KCPX-4 UT	1633 CHFD?4 Ont	1729 KORK-3 NV	1055 WSAZ-3 WV
1229 KSL -5 UT	1638 XHIA-2Coah	1730 KVUU 5 NV	1055 WWSA?3 VA
1303 XETV 6 BCN	(net-5)	1753 CKPR?2 Ont	1058 WOAY 4 WV
1350 mostly out	1644 KGFE?2 ND	1756 KNKT 2 CA	1059 WPMY-2 NC
2000 KTVU 2 CA	1703 XHBS-4 Sin	1756 KOAI 2 AZ	1159 WTAR-3 VA
2000 KRON-4 CA	1708 XEHL-6 Jal	1759 KNBC 4 CA	1200 WJSK-2 TN
2000 KPIX 5 CA	(net-5)	1759 KTLL 5 CA	21 tr 0859 KGIN-11 NE
2000 KSBY-6 CA	1728 KIVI?6 ID	1829 XETV 6 BCN	0859 KHGI-13 NE



## Fred McCormack, Des Lacs, North Dakota 58733

(Aug - Sept)

(CDT)

2 Es0959	WNGE-2 TN 4434R1120	2341	KTVI 2 MO 4433 865	MS0623	WSAZ-3 WV	1175
	1030 KACB-3 TX 3333*1155	10 Es0005	(MUF 104.3 to AL,GA)	tr0629	KSTP-5 MN 1035	460
	1100 KWGN 2 CO 3333* 605		1100 WTTV 4 IN 4434 975	Es1050	unIds ch 2,3 west	
	1130 KAMR 4 TX 3435 890		1131 WAVE-3(IN)3333 1035	23 tr0010	KELO-11 SD 2142 395	
	1158 KENW-3 NM 3344 970		1225 WNGE 2 TN 3444 1120		0840 KMEG 14 IA 3444 460	
	1428 KREH-2 WA 3333 740		1228 WTHO 2 IN 3335 925		0925 KESD- 8 SD 4543 350	
*2 Es1930	unIds ch 2, 3	*12 Es1900	unIds ch 2,3 west		1029	KTIV 4 IA 0241 460
tr2159	WKON-27 WI 2135N450	15 Es2053	WSAZ-3 WV 4434 1175	24 tr0035	WIRT 13 MN 3335 460	
	2200 WHWG-28 WI 3345 260		2200 KTVO 3(MO)4034 690		0125 WFCN-11 MN 3554 460	
*8 Es0959	CKGN-2 Ont 3333 925		2201 KTVI 2 MO 4423 865		0150 KCMT 7 MN 4443 330	
	1000 CKCO-2 Ont1332N775		2329 KBCI 2 ID 3133 775		MS0545 WSYR- 3 NY 1275	
	1029 WTTG 5 DC 3034N1160		2345 KVDO 3 OR 4533 1050		0630 WITI 6 WI 750	
	(MUF 95.1 to s.e.us.)		2357 KATU 2 OR 5543 1020		tr0855 KCMT- 7 MN 3443 330	
	1129 KMID-2 TX 2232 1065		2358 KAID 4 ID 3034 775	25 MS0605	WRTV 6 IN 955	
8 Es2128	WAVE-3(IN)4444 1035	16 Es0027-59	(MUF 107.9 to OR)	26 MS0600	WRTV 6 IN 955	
	2129 KORK-3 NV 3434 1075		0105 KING-5 WA 3244 970		0629 KARD-3 KS 750	
	2159 WEAR-3(AL)3434 1415		0109 KOMO-4 WA 3434 970		AE2310 unId Fr.Canada ch.2	
	2200 WHAB 2 MS 3432 1220		0125 (MUF 104.3 to OR)	28 tr0903	CBKST11Sask3342N355	
	2201 WREC-3 TN 3334 1075	MS0618	WITI-6 WI N 750	31 tr0635	KPLO- 6 SD 2235 320	
	2222 KTVV 3 MO 4322 860	Es0959	KATC-3 LA 2332 1335		0800 KOTA- 3 SD 3444 295	
	(MUF 107.1 to AR,LA)		1200 KFDH-6 TX 4434 1305		0820 KTSB 27 KS 3335N695	
	2330 KORA-3 CA 3335 1200		(MUF 107.3 to TX)		0917 KMEG 14 IA 3545 460	
	2331 KOTI 2 OR 3334 1065		1329 KBTX-3 TX 3233 1240	31 tr0029	CKND- 9 Man3433N230	
9 Es0915	KVVU 5 NV 3444 1085		2357 KOTI 2 OR 3234 1065		0228 KABY- 9 SD 2134 230	
	1000 KTVU 2 CA 4422 1265	21 tr0024	KPSD-13 SD 2035N220		1210 KDLO- 3 SD 2333 310	
	(MUF 107.9 CA, NV, UT)		Eagle Butte		2017 KDSD-16 SD 3335T600	
	1228 KUTV 2 UT 3333 725	0110	CKCK2-6Sask1035 200		2147 KRIN-32 IA 3335T600	
	1230 KORK-3 NV 5545 1075		Willow Bunch	16 tr0924	CFQC- 8Sask3443N355	
	(MUF 101.1 to CA)	Es1055	WSB -2 GA 3124 1330		0935 CBKST11Sask3444 355	
	1300 KSEY-6 CA 4333N1330		1228 WBRZ-2 LA 3434 1340	17 tr0117	CKOS1-13Sask3145N260	
	2229 KENW-3 NM 3335 970	22 MS0611	WITI-6 WI 750		AEO142 unId 3 west.Canada	

(\* - Fargo, ND DX, indoor antennas) (17 tr CKOS1-13 is in Norquay, Sask.)

It appears the DX season here is about over. E Skip went dead in the middle of August. September was very disappointing as a tropo month. Even though the openings have been sparse, it was an enjoyable season with a number of good loggings here. 73.

## Steven C. Wiseblood, 707 Loma Way, Santa Maria, California 93454

(August)

(PDT)

5 Es 2032	unids 203, s.e.	1130	CKCK- 2 Sask 1335	2028	KDFW 4 TX	1349
6 Es 1143	XHGH- 2 Chih 948	1143	KDIX- 2 MD 1234	2034	XHGH- 2 Chih 948	
8 Es 1100	KTVQ 2 MT 975	1202	CFAC- 2 Alta 1160	2200	XHI - 2 Son 846	
	1130 KTHO- 2 WY(MUFch5)	1212	KRTV 3 MT 990	2202	XHBS- 4 Sin 1094	
	1133 KDUH? 4 NE 1040	1230	KXLY- 4 WA'XL' 899		(Canal 2 Televisa)	
	1150 unId 6(OCCL-KSBY)	1415	MUF 107.7	14 Es 1750	MUF 94.7	
	1200 KOCO- 5 OK 1281	1426	KING- 5 WA 879	1835	KDFW 4 TX 1349	
	1245 MUF @ 96.9	1426	KOMO- 4 WA 879	1853	KMID- 2 TX 1066	
	1257 KMID- 2 TX 1066	1802	XEPM- 2 Chih 826	1912	XEJ - 5 Chih 826	
	(in until 1700)	1802	KDBC 4 TX 829	1915	XEPM- 2 Chih 826	
	1258 KACB- 3 TX 1168	1810	XEJ - 5 Chih 926	16 tr 0920	KNTV 11 CA5555 165	
	1322 KDBC 4 TX 829	12 Es 1604	KMID- 2 'Big-2'0566	26 tr 0924	KSBW- 8 " 5555 135	
	1513 XEJ ? 5 Chih 826		1607 unids 4-5	1037	KMST 46 " 1245 135	
	1857 KCKT 2 'KSN' 1205		1625 KNOP- 2 NE 1138	1114	KNTV 11 5555 165	
	2000 KWGN 2 CO 905		1635 KDUH? 4 NE 1040	1128	KTVU 2 3544 230	
	2003 KNOP- 2 NE 1139		1635 KOA ? 4 CO 905	27 tr 1025	KTVU 11 5555 165	
	2007 KAMR 4 TX 1046		1635 KWGN? 2 CO 905	1100	KTVU 2 2444 230	
	2012 KTXT 5 TX 1057		1636 KTHO- 2 WY 935	1102	KGO - 7 2545 228	
	(movie reviews)		1652 KAMR 4 TX 1046	1105	KSBW- 8 2534 228	
	2030 KWAB 4 TX(ads)1094		1658 KWAB 4 TX 1094	30 tr 0853	KTVU 2 4555 230	
	2050 KMID- 2 TX 1066		1717 XHCG? 4 DF 1645		0915 KRON- 4 2444 228	
	(*see note below)		(Canal 5 Televisa)		0917 KPIX 5 0444 228	
	2140 KDBC 4 TX 829		1724 MUF @ 96.9		0924 KNTV 11 4555 165	
9 Es 0932	unids 2-4		1758 KTVQ 2 MT 975		0926 KGO - 7 4555 230	
	1000 CBUT 2 BC 1000		2006 KMID- 2 TX 1066			
	1100 KFBB 5 MT 990		2009 KDFW 4 TX 1329	(27 tr 1109	KQED 9 2534 228	

(\* - 8 Aug KMID-2: double images; 2100 pre-empt Johnny Carson Show for live coverage of fire across street from KMID-TV studios.)

Best of DX to all

Dennis



# DX DIALOGUE

A RECORD OF  
THE EVENTS  
OF THE MORN  
OF APRIL 11

KDKA'S PERRY MARSHALL WASN'T EXPECTING A DISCUSSION OF TV-DX by Clarke Ingram

AT APPROXIMATELY 3:20 A.M. on the morning of April 11, 1975, a discussion of television on 50,000-watt KDKA-1020's all-night talk show evolved into a reference to a reception of KMOX-TV from a far distant site. "I think it's called 'ionization of the atmosphere'," remarked the caller. "That's weird," commented host Perry Marshall. At 3:54 A.M. your inspired Scoreboard editor finally broke through a mass of callers, and the following transpired.

- PERRY: It's six minutes to four. (Answering phone) Good morning, this is Perry.
- CLARKE: Hi, Perry, how are you?
- PERRY: Hi, good.
- CLARKE: There was a guy who called in about twenty minutes ago who was talking about getting distant TV stations, you know, off the atmosphere...
- PERRY: Yeah, right.
- CLARKE: ...and this inspired me, at the ungodly hour of four A.M., to call you and tell you that---believe it or not---there is an organization dedicated to receiving these kinds of signals. Strangely enough.
- PERRY: How can you be dedicated to doing that?
- CLARKE: It's easy. You sit up at four A.M. and watch your television set....
- PERRY: (Laughs)
- CLARKE: ...watching the snow.
- PERRY: Yeah, but how do you know what channel?
- CLARKE: Uh...I'll explain.
- PERRY: Okay, yeah.
- CLARKE: The organization is called the Worldwide TV-FM DX Association, and I'd better make an explanation here that any type of signals you receive like this, distant, is called DX...
- PERRY: Okay.
- CLARKE: The person who receives it is the DXer...
- PERRY: Uh-huh.
- CLARKE: And the hobby is called DXing.
- PERRY: Okay.
- CLARKE: That'll make it a lot easier. Now, how this happens is, sometimes for some reason that nobody knows, this little patch in the ionosphere, in the E layer, becomes charged, okay?
- PERRY: Uh-huh.
- CLARKE: When this happens, the TV signal or the FM signal bounces off it, and reflects back down onto the earth---somewhere else.
- PERRY: Uh-huh.
- CLARKE: And this happens a lot more than you'd think. What happens is, in this case, you have to sort of turn to the lower channels, you know, because that's where it happens first, and it builds up. And this does happen quite a bit, more than you'd think. See, that's just one way it happens. But...how do you know what channel? It's... well, you start low, on channel 2, and it usually doesn't happen there too often because KDKA is pretty strong.
- PERRY: Right.
- CLARKE: It won't break through there, so you tune up to channel 3, and, you know, whatever comes through you watch. Now what am I doing at four A.M., because this doesn't happen much at four A.M.? Let me explain for a minute.
- PERRY: What do you mean, it doesn't happen at four A.M.?
- CLARKE: It does not usually---this kind of thing usually doesn't happen at four A.M. There's another kind that does. It's called meteor scatter. What happens is, these meteors come down through the atmosphere and do the same thing, okay? They produce a little burst on your set.

(continued)



PERRY: Uh-huh.

CLARKE: And that's what I've been doing for the past two hours, sitting here watching bursts on my set. I haven't gotten anything yet I can identify.

PERRY: (Chuckles.) You're sitting there watching a blank screen?

CLARKE: Well, yeah, most of the time that's what you see, just snow, and it gets---you know, you start seeing things on the screen.

PERRY: (Laughs.)

CLARKE: It really gets pretty tough, you know---you sit up all night and do this. Well, what else can you do at four A.M.? Nobody's on the air---and that's why I'm not getting anything, I guess. I got some stations tonight, nothing important. Columbus, Ohio---that doesn't happen the same way. There are a lot of ways this can happen.

PERRY: But---suppose there's a West Coast station. Now, it's only one o'clock in the morning there, and there's a lot of television activity going on. Isn't it possible for you to pick up, pull in some of the West Coast stations?

CLARKE: Okay. The West Coast is about 2500-3000 miles away.

PERRY: Right.

CLARKE: And that's a little bit too far for this to work.

PERRY: I see.

CLARKE: What happens, though, is that occasionally---every once in two years or so, or whatever---it will happen that there are two patches that are both charged, okay, and this signal will bounce off one patch, bounce back down onto the earth, bounce up onto the other patch, and end up right in your set. That'll happen---but not very often.

PERRY: Do you receive the signal on the channel on which it was telecast?

CLARKE: Yes, definitely. You know, it surprises me that the other guy was talking about getting KMOX on channel 6 or 7, and it happens to be on channel 4.

PERRY: Uh-huh.

CLARKE: Wonder how in the world he did that.

PERRY: I don't know.

CLARKE: Well, that's how it happens, and, you know, the stations usually come from, maybe, 500 to 1500 miles away. Now that's just with this type, you know, of reception. There are a lot of---billions of other types that I'm not going to go into.

PERRY: Now let's see. A television signal is unlike an AM radio signal...

CLARKE: That's right.

PERRY: ...as it does not follow the curvature of the earth, right?

CLARKE: That's right.

PERRY: That goes right off into space.

CLARKE: Uh-huh.

PERRY: ...and...uh...How far does it travel before it dissipates? Do you know that?

CLARKE: Probably about seventy-five to 100 miles. It depends a lot on your antenna, and a bunch of other things; how high your antenna is, how sensitive it is.

PERRY: Uh-huh.

CLARKE: It usually---what happens is that, actually, it grazes the earth and goes off the other side. After that point, you can't pick it up anymore.

PERRY: Uh-huh.

CLARKE: And that's how it happens. It happens a lot more than you'd think. Particularly during the summer, you know, you pick it up quite a bit.

PERRY: Uh-huh.

CLARKE: And it's just something that...You know, we have 300 members and I imagine that most of them are up at this hour, doing the same thing.

PERRY: (Laughs.) All the DXers are up at four o'clock in the morning watching blank television screens?

CLARKE: Yeah, we have a nice little organization, and we have about 300 members...

PERRY: (Laughs.)

CLARKE: Well, that's...

(continued)



PERRY: I can't think of anything less worthwhile---in my mind!  
 CLARKE: Oh, don't say that, you'll have 299 more call in tonight.  
 PERRY: (Laughs.) Okay, I welcome all the DXers.  
 CLARKE: One other thing, though.  
 PERRY: Yes.  
 CLARKE: I was wondering if your listeners might be interested and if I might give them an address to write to for more information. Could I do that?  
 PERRY: Is it a private home address?  
 CLARKE: No, it's an organization, it's a post office box.  
 PERRY: Yeah, sure.  
 CLARKE: The address is the Worldwide TV-FM DX Association, Post Office Box 163, Deerfield, Illinois, 60015, and...  
 PERRY: Let's do it again. Worldwide TV-FM DX Association...  
 CLARKE: Post Office Box 163, Deerfield, Illinois, 60015. I happen to have a nice little column in this publication we have called the VHF-UHF Digest, in which we list all the stations we've gotten, and that takes a few pages...  
 PERRY: (Chuckles.)  
 CLARKE: I handle the Scoreboards, and I'm second to last in totals, you know.  
 PERRY: Okay, we have to pause for the news.  
 CLARKE: Well, thanks, and for the sake of KDKA-TV, may KMOX invade channel 4 and obliterate it forever.  
 PERRY: (Laughs.) Thank you very much...I think!  
 CLARKE: WTAE is going to hate me. Goodbye.  
 PERRY: Goodbye. (Hangs up.) We have to break for the news. ---CWI

CONFUSED by some abbreviations in the VUD? Use this handy reference list.

PROGRAMMING INFORMATION

ID - identification  
 EE - English  
 FF - French  
 SS - Spanish  
 cx - conditions  
 mx - music  
 nx - news  
 wx - weather  
 SSB - Star Spangled Banner  
 ATB - America the Beautiful

DX COLUMN NOTATION

All columns use 24-hour time, with 0000 = midnight and 1200 = noon.  
 (For example, 1351 = 1:51 P.M.)  
 R - relog, N - new, T - tentative  
 //- parallel to (same program as...)  
 f/in(out) - fade in (out)      §=  
 t/in(out) - tune in (out)      stereo  
 s/on(off) - sign on (off)  
 Time zones are abbreviated; for an example, Eastern Standard Time is EST.

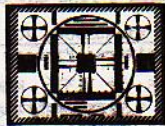
CWI

TYPES OF TEST PATTERNS

TP - test pattern  
 CB - color bars  
 GS - grey scale  
 IHPT - indian head pattern  
 RETMA - resolution pattern  
 (see sketches to right)



IHPT



RETMA

TYPES OF PROPAGATION

Es - sporadic E (E-skip)  
 Tr - tropospheric bending  
 MS - meteor scatter  
 LS - lightning scatter  
 AS - aircraft scatter  
 Au - auroral reception  
 GW - groundwave (local)  
 TE - transequatorial

MISCELLANEOUS ABBREVIATIONS

CCI - co-channel interference  
 CP - construction permit  
 dB - decibels (measure of gain)  
 MUF - maximum usable frequency  
 QRM - interference  
 QSL - verification  
 QTH - location  
 STL - studio-transmitter link  
 VUD - VHF-UHF Digest  
 xltr - translator  
 xmtr - transmitter

For further explanations, see Beyond Shortwave and FM Atlas.



# WESTERN FM DX

Steven C. Wiseblood  
707 Loma Way  
Santa Maria CA  
93454

Deadline 10<sup>th</sup>

Fred McCormack, Des Lacs ND 58733 (CDT) (1-30 September)

1	Tr	0612	KIOV	104.7	SD	Sioux Falls	C&W	395
		1632	KROC	106.9	MN	Rochester	RR	520
		1653	KLSS	106.1	IA	Mason City	RR	530
		2119	KBCM	95.5	IA	Sioux City	C&W	460
		2135	KMIT	102.3	SD	Mitchell	RR	350
		2258	KPFM	107.9	IA	Waterloo	RR	600
		2302	KTOP	104.5	IA	Cedar Rapids	gospel	645
2	Tr	0428	WYOO	101.3	MN	Richfield, "Super U-100"		160
17	Tr	0800	WCCO	102.9	MN	Minneapolis		460



Frank Aden, JR., 1575 NW Ithaca Ave., Bend OR 97701 (PDT) (May-June 1975)

Receiver: Sony St 80f, Realistic QTA 750. Antenna: Winegard SC 650 @ 35ft, rotor.

5/26	Es	1645	KNFM	92.3	TX	Midland	MoR	
		1647	KBIM	94.9	NM	Roswell	MoR, nx	
		1653	KUNM	90.1	NM	Albuquerque	RR	
		1700	KHPM	96.3	NM	Albuquerque	C&W	
6/22	Es	1435	KSJN	91.1	MN	St. Paul	Cl	
	Es	1440	KELO	92.5	SD	Sioux Falls	MoR	
	Es	1441	WCAL	89.3	MN	Northfield	Cl	
	Tr	1448	KONA	105.3	WA	Kennewick	MoR	
	Tr	1450	KMBI	107.9	WA	Spokane	gospel	
	Es	1530	KKDA	92.9	ND	Grand Forks	RR	
	Es	1600	C---	97.7	SK	Regina	CBC-French network	

Tonight and Every Night



Plays Favorites!

I hope to improve my FM situation here, so it is possible I will have a few more tropo reports to send in. Logwise I have not had the success on FM in Bend that I had in Boise 3 years ago. KBND radio is trying to get the PCC to open another FM frequency here (94.9)

FM DX Tropo and extended groundwave is weird here, I can get almost all FM stations in the Seattle-Tacoma area, central Washington and Spokane about 70-90% of the time. Yet I have never heard anything from Cal. or Nevada. I can get Boise area stations without too much trouble since they all uped power. The mountains really must be affecting DX to the south. Maybe this new location will be better. 73's, Frank.

Editors Note: Does anyone out there in our DXing audience know the calls of 97.7 Regina?

Pat Dyer 5315 Silvertip Drive, San Antonio TX 78228 (CST) (Sep 8- Oct 8)

Equipment: Allied 426; Hallicrafters SX-62 with International Crystal SAX-1 Preamp; Archer V-100 antenna @ 20ft w/rotor.

9-18	Tr	1113	KOOI	106.5	TX	Jacksonville	ad	260
		1200	KPFM	94.3	TX	Kerrville	C&W, ad	50

A very meager report this period. There hasn't been any FM Es since Aug. 16 (in fact, none as high as 50-MHz since Aug 23). Sep 18 tropo ducting on TV was into Arkansas but couldn't find any out-of-state on FM, and stumbled on the new semi-local. 73, Pat

Steven Wiseblood, 707 Loma Way, Santa Maria CA 93454 (PDT) (Sep 11- Oct 15)

Receivers: Pioneer SM-Q300B, Symphonic P1513. Antenna: Finco FM-4G & Rotor @ 15ft.

10-15	Tr	1336	KFMB	100.7	CA	San Diego	Hits/Top 40 Format	230
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Not a very exciting month for DX here, last year there was a good amount of Es in late October, we'll see what happens this year. I hope you'll like the one-column format while it lasts, as soon as larger reports come in I'll have to switch back to the two-column format as a space saving device. I would like all Western-FM DXers to send in at least one report next year, it may be too late for any good Es openings in the two remaining months of this year.

- LOS ANGELES
- ① KNKT (CBS)
- ② KNBC (NBC)
- ③ KTLA (Ind.)
- ④ KABC-TV (ABC)
- ⑤ KHJ-TV (Ind.)
- ⑥ KTTV-TV (Ind.)
- ⑦ KCOP (Ind.)
- ⑧ KNWY-TV (Ind.)
- ⑨ KCET (PBS)
- ⑩ KNEX (Ind.)
- ⑪ KLKA-TV (Ind.)
- ⑫ KBSC-TV (Ind.)

- LOS ANGELES (Cont'd)
- ⑬ KLCZ (PBS)
- ⑭ KVST (PBS)
- GLENDALE
- ⑮ KNOF-TV (Ind.)
- HUNTINGTON BEACH
- ⑯ KOCE-TV (PBS)
- SANTA BARBARA
- ⑰ KEYT (ABC)

- SANTA MARIA
- ⑱ KCOV-TV (CBS)
- SAN BERNARDINO
- ⑲ KVCR-TV (PBS)
- PALM SPRINGS
- ⑳ KNIR-TV (NBC)
- ㉑ KPML-TV (ABC)

WAVE-TV 3





November is upon us and it's time to start dropping hints about that 16-channel synthesized scanner you want for Christmas!

Anyway, let's finish up the series on PSB verifications, and take a look at some miscellaneous news.

## PUBLIC SERVICE QSL's (Part III)

**Verification Request.** As in reports to other stations, request a verification if the information you supply is correct. Of course, you know it's correct, but it sounds better to say it this way. It's best to include a statement that your report doesn't violate the 1934 Communications Act, and that the verification won't be used for legal or commercial purposes. Without these assurances, many stations won't verify a correct report, especially if agency personnel are unfamiliar with DXing.

If you're sending a tentative report, make sure you say so, and explain why you think it was the station--town names, highway numbers, partial call sign, etc.

**Addresses.** If you don't know the exact address for mailing your reports, it's best to send them to Radio Communications Supervisor, Agency, Location. Remember to enclose return postage--either a stamp or a self-addressed, stamped envelope. Ninety-nine per cent of the time, this will get your report to the right person.

**How To Increase Your Returns.** Now that you have an idea of what to put in your report, what else can you do to keep those QSL's rolling in?

First, you can include an information sheet explaining UHF/VHF DXing and verifications with each report. These sheets are most useful when reporting to small municipal and county agencies that don't get many reports, and aren't familiar with SWling.

Stamped, self-addressed prepared QSL cards are a must for good returns. You fill in all known information and include the card with your report; an agency representative fills in missing information, signs the card and drops it in the mail.

These prepared cards can be as plain or fancy as desired, but should contain the basic information shown on the example below:

### VERIFICATION OF RECEPTION

This card is verification of reception by \_\_\_\_\_

Of RADIO STATION (call letters) \_\_\_\_\_

Agency \_\_\_\_\_ Location \_\_\_\_\_

Date \_\_\_\_\_ Time \_\_\_\_\_

Frequency \_\_\_\_\_ MHz Power \_\_\_\_\_ watts

SIGNATURE \_\_\_\_\_

Title \_\_\_\_\_

Both cards and information sheets can be easily produced by local printers using low-cost methods.

Following these suggestions won't guarantee 100% return, but you'll be pleasantly surprised by the results.



TEXAS PRIVATE UTILITY STATIONS (Part II)

Continued from October is this listing of electric cooperatives (EC's) in Texas:

47.70	KKB879	Farmers EC	Greenville
	WPJ76	Southwest Texas EC	Eldorado
47.76	KKD307	Cap Rock EC	Stanton
	KRI964	Fayette EC	La Grange
	KKZ754	JAC EC	Bluegrove
47.78	KKH597	Kimble EC	Junction
	KKE919	Mid-South EC	Navasota
47.82	KKB490	Navarro EC	Corsicana
47.84	KKC840	Lighthouse EC	Floydada
47.86	KKA260	Brazos Elec. Pwr. Coop	Waco
	KKD718	DeWitt Co. EC	Cuero
	KKC751	Magic Valley EC	Mercedes
47.88		---Emergency and Working Frequency---	
47.92	KKA251	Gate City EC	Childress
47.94	KKC910	Nueces EC	Robstown
47.98	KKC756	Denton Co EC	Denton
	KKK729	Midwest EC	Roby
	KKB503	New Era EC	Athens
48.00	KKC668	Bluebonnet EC	Giddings
		"	Brenham
	KKC657	"	San Marcos
	KRL823	"	Lockhart
	KKC972	Pedernales EC	Johnson City
	KKC657	"	San Marcos
	KKC973	"	Brenham
	KCO774	"	Marble Falls
	KTS372	"	Lake Travis

PEOPLE

Wanted: Police Radio Codes being used in cities, counties and states. Contact Chuck Hermann, Jr., 317 North River Road, Fox River Grove, IL 60021.

PUBLICATIONS

The October issue of "CB Magazine" carried a fine review of the new SBE "Optiscan" scanner. The issue also includes a run-down on all the synthesized scanners on the market.

The issue is available for \$1.50 from CB Magazine, 531 North Ann Arbor, Oklahoma City, OK 73127.

EQUIPMENT

If you live within 30 miles or so of a National Weather Service 24-hour weather radio station, you might be interested in the new Weatheralert TA-3 weather radio. Whenever severe weather threatens, the NWS station transmits a special tone (anyone remember what the tone frequency is?) which activates tone-operated squelches on specially-equipped monitor receivers and causes a siren to sound on the TA-3. The product literature says the TA-3 is dual conversion and crystal-controlled. If desired, you can purchase a DC adapter and an external antenna kit to extend coverage.

For more information, write to Weatheralert, 639 South Dearborn, Chicago, IL 60605. 60605.

Since I won't have another column until January, Merry Christmas and Happy New Year!!!

73, Perry





# VHF UTILITY DX

Pat Dyer  
5315 Silvertip Drive  
San Antonio, TX 78228  
Deadline: 12th of month

## NOVEMBER 1975

Hank Holbrook, 7211 Chestnut St., Chevy Chase, MD 20015 QSLed, GMT

<u>6-15:</u> 1927, N427BN	134	vic NYC (Braniff; 727-200; Den-NY; 25 watts)
<u>7-5:</u> 1652, N19983	122.1	ov Ches. Bay (Louis E. Roman; Cessna 172)
<u>9:</u> 0134, KSL 425	37.24	Arkadelphia, AR (sheriff; 200 watts)
<u>26:</u> 2306, N5847L	119.7	Bal., MD (Hop Flt., Inc.; Amer. Traveler AA5)
<u>8-9:</u> 1232, KVF 855	156.80	Lewes, DE (Marine Op.; Diamond St. Tele.)
<u>13:</u> 1555, N56965	128.7	40 mi s Dover, DE (Empire Aero Services, Inc.; Piper Cherokee PA-28-235; 1-e, 4-s)
<u>21:</u> 2149, N42623	134.0	vic Waterloo, DE (Ben F. McAuley; Cessna Skyland 182L; 1-engine, 4-seat; 7000 feet)
<u>24:</u> 1604, N5743J	134.0	50 mi n Salisbury, MD (Clark Aviation Corp.; Cessna TP-206; 1-engine, 4-seat; 10 watts)

Now, my loggings. Allied A-2586, Hallicrafters SX-62, Hammarlund SP-600-JX10 (with ICM BAX-1 tuned preamp); 30' long-wires at 12', run ne-sw and nw-se; peak F2 MUF noted, bs-backscatter; GMT; ms-meteor

<u>9-13:</u> 2113, 40.000	<u>22:</u> 1710, 35.58 bs	<u>31:</u> 1620, KQC 884 (Es)
<u>14:</u> 1725, 32.000	<u>23:</u> 1835, 35.22 bs	<u>1715,</u> 32.000
<u>15:</u> 1710, KMA 829 (Es)	<u>24:</u> 1600, 32.000	<u>1720,</u> 35.22 bs
<u>1742,</u> 32.000	<u>1617,</u> 35.58 bs	<u>4:</u> 1625, 32.000
<u>16:</u> 1559, KQD 313 (Es)	<u>25:</u> 1700, 35.22 bs	<u>5:</u> 1605, 32.000
<u>1625,</u> KQD 600 (Es)	<u>26:</u> 1955, 37.000	<u>6:</u> 2120, 37.000
<u>1628,</u> KQC 877 (Es)	<u>27:</u> 2018, 45.80	<u>7:</u> 1928, 37.000
<u>1843,</u> 32.000	<u>28:</u> 1730, 35.58 bs	<u>8:</u> 1906, 40.000
<u>17:</u> 1900, 37.15	<u>1754,</u> KIF 651 (Es)	<u>9:</u> 1758, Los Ang (Es)
<u>18:</u> 2101, 37.000	<u>2118,</u> KKI 445 bs	<u>2012,</u> 40.000
<u>19:</u> 1835, 37.000	<u>2202,</u> 33.42	<u>10:</u> 0347, KMA 829 (Es)
<u>20:</u> 1737, 32.000	<u>29:</u> 1642, OK City ms	<u>1638,</u> 35.62 bs
<u>1810,</u> 35.58 bs	<u>2155,</u> 37.000	<u>2115,</u> 33.000
<u>21:</u> 1820, 32.000	<u>30:</u> 2000, 37.000	<u>11:</u> 2310, 35.22 bs
<u>1900,</u> 35.58 bs	<u>10-11:</u> 1905, 32.000	<u>12:</u> 2025, 35.78
<u>22:</u> 1700, 32.96	<u>21:</u> 1840, 35.22 bs	

KKI 445 35.58 Houston, TX	KQD 313 35.50 Dayton, OH
KIF 651 35.58 Ft. Lauderdale, FL	KQD 600 35.22 Mansfield, OH
KMA 829 35.58 San Diego, CA	- 35.38 Los Angeles, CA-mp
KQC 877 35.58 Cincinnati, OH	- 35.58 OK City, OK *
KQC 884 35.58 Detroit, MI	

mp-mobile phone; rest are tone (A2) pagers, except \* voice

Solar flux/A-Index for Sept 1975 -

<u>1:</u> 86/7;	<u>21:</u> 86/6;	<u>31:</u> 86/3;	<u>4:</u> 91/6;	<u>5:</u> 93/4;	<u>6:</u> 94/12;	<u>7:</u> 90/8;	<u>8:</u> 87/6;
<u>9:</u> 83/14;	<u>10:</u> 81/22;	<u>11:</u> 80/18;	<u>12:</u> 79/15;	<u>13:</u> 74/18;	<u>14:</u> 73/12;	<u>15:</u> 73/6;	<u>16:</u> 73/6;
<u>17:</u> 74/11;	<u>18:</u> 76/11;	<u>19:</u> 76/8;	<u>20:</u> 76/5;	<u>21:</u> 76/5;	<u>22:</u> 75/3;	<u>23:</u> 76/2;	<u>24:</u> 76/2;
<u>25:</u> 76/4;	<u>26:</u> 76/8;	<u>27:</u> 75/15;	<u>28:</u> 76/10;	<u>29:</u> 76/5;	<u>30:</u> 76/2	avg: 79.6	

These are as broadcast by WWV, and thus the A-Index is for Boulder and not Fredericksburg (VA) as mistakenly indicated in prior reports on this.

The first two weeks of October saw the passage of a large (but simple and therefore not active) Cycle 21 spot on the solar northern hemisphere. However, Cycle 20 groups still predominate, so the minimum has not come.



# 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.

Channel	Base Transmit	Mobile Transmit
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



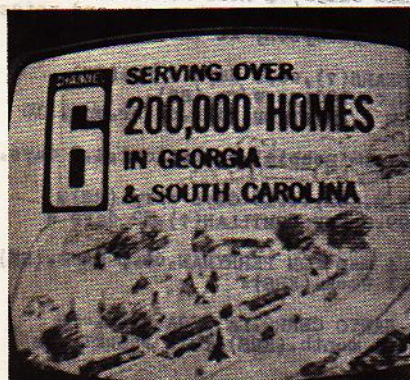
# PHOTO-NEWS

Jim Alexander  
Canisius College  
Box 2 - Bosc Hall  
Buffalo NY 14208

November, 1975

HOMES 3 HUNDRED  
Last month 212

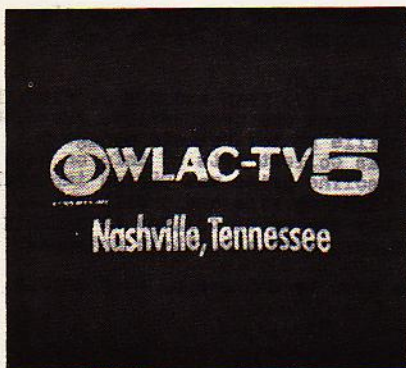
In addition to the new address for school (see above), your editor will have a new home address as well. As of now, please send all materials to the Buffalo address until further notice. Mail that reaches New Hartford is being held rather than forwarded; if you send anything there, it may be a while before it reaches me. Now, the photos:



WJBF- 6 Augusta, Ga.  
Es 30 June '75 1929 CST



WAKR- 23 Akron, Oh  
120 mile tropo (PG)



WLAC - 5 Nashville, Tn  
475 mile tropo (PG)



WKNO - 10 Memphis, Tn  
365 mile tropo (RL)

My thanks to this month's contributors:

- GH = Glenn Hauser, Enid, Oklahoma
- PG = Paul Gaines, Detroit, Michigan
- RL = Ron Le Blanc, Marrero, Louisiana

73, Jim



# TV QSL CORNER

KENNETH R. SIMON  
528 Pilgrim Road  
West Palm Beach, Fla. 33409

- AL WCIG** ch 7 CHEAHA STATE PARK (c/o APTN 2101 Magnolia Ave., Birmingham 35205).L-AL RENFRO,eng.mgr.1 week.(KRS).
- FL WEDU** ch 3 TAMPA,L-ORBRA W.HARRELL,ce.16 days.(SS).
- MA WCVE** ch 5 BOSTON (5 TV Place,Needham 02192).L-ROSS B.KAUFMAN,ce.1 week(SS).NOW:Letter addressed to Scott says Dr.Mr.Thompson and notes Deerfield,ILL as Scott's QTH!!! (Bill Thompson, is this a mess up with one of your QSL requests?)
- ME WLBZ** ch 2 BANGOR 04401.C-BRUCE K.SEARS(?),ce.8 days w/rp.(SS).
- MT KTVQ** ch 2 BILLINGS-L-J.R.MIDDLETON,ce.10days w/rp.(SS).
- NM KENW** ch 3 PORTALES 88130.L-LAWRENCE R.AHLSTROM, dir.of br.eng. 10 days.(SS).
- SD KOTA** ch 3 RAPID CITY 57701.Foruletter-'Bobbie',receptionist.8 days w/rp.(SS).
- TX KBTX** ch 3 Box 3730 BRYAN 77801.L-W.B.Cox,ce.16 days w/rp.(SS);
- KENS** ch 5 Box TV5 SAN ANTONIO 78299.C-ROY McMILLAN(?).32 days w BASE.(SS).
- KRGV** ch 5 Box 626 WESLACO 78596.L & map-TOM PERRYMAN,ce.5 days.(SS).
- VA WDBJ** ch 7 ROANOKE-C-J.E.NEWMAN,ce.1 week.(KRS).

DOMINICAN REPUBLIC--Colorvision ch 2 SANTO CERRO,LA VEGA prov.-L- in SPANISH-MANUEL A.QUIROZ,dir.gen. 1 month.(KRS).This report was sent via regular mail by me...

Left out...COFS.

**CA KCRA** ch 3 SACRAMENTO.L.1 week.(RLB) (NICE DOUBLE HOP!!!)

If feels like I've been doing this column forever (except when I'm struck by occasional fits of sloth).If anyone would like to take the column over, drop me a line.

PERSONAL NOTES HAVING NOTHING TO DO WITH QSLs:

THANKS for the hospitality to DAVE (DJ the DJ) EGAN and TOM J. YINGLING. Sorry I missed you to Larry Vogt, Bill Grant and Greg Kelley. put 6,500 miles on the car and got hit in Greenville SC too but did manage to DX some fair tropo and E skip as well as collect lots of info on test patterns for Clarke Ingram. Highest gasoline price was 98¢ an imperial gallon on Newfoundland.NEXT YEAR...I think my wife and I will fly... John Combs even hits great tropos on his way up to college at OBERLIN He logged over 50 station from MONROE,OHIO with a built-in antenna. VHF's to 260 miles/UHF's to 280 miles. If you every get to the Montreal area drop by and see DJ at FORTIERS Digco...etc.etc.etc.

73s

SS is Scott Sampson  
KRS is me

## VAFI (A recap of what it means and how it's used.)

Video (V)	Audio (A)	Fading (F)	Interference (I)
No signal 0	No signal 0	Auroral flutter 0	Loss of signal 0
Just detectable 1	Just detectable 1	Deep to fast 1	Extreme 1
Heavy snow 2	Poor 2	Slow deep 2	Heavy 2
Moderate snow 3	Fair 3	Moderate 3	Moderate 3
Light snow 4	Good 4	Light 4	Light 4
Snow free 5	Excellent 5	None 5	None 5

VAFI is a system for detailed reporting of signal quality in a minimum of space. A typical DX column VAFI report would be similar to the following: 4334N540. The first four numbers read directly off the chart above. "N" indicates the station is a new logging. "R" for relog and "T" for tentative are alternates. The last numbers indicate mileage from DXer to DX station.



# FM QSL CORNER

Greg Kelley-Editor  
108 Archer Street  
Staunton, Va. 24401

- MN Minneapolis WAYL 93.7-ltr & cm. LARRY ROBERTS-dir of ops. (SS)
- NY Hyde Park WHVM 97.7-ltr from DAVID GROOL (?) ce. (SS)  
Kingston WBPM 94.3-ltr from RICHARD A. HYATT-## c ops. (SS)  
New York-WRVR 106.7-QSL card...no v/s. (SS)
- PA Jenkintown WIBF 103.9-ltr & cm from DOUGLAS HENSON, m. (TY)  
Lebanon-WUFM 100.1-QSL card from Bill Zehring, ce (TY)  
Pittsburgh-WQED-89.3-ltr-T. KNIGHT, ass't ce. (TY)  
" KDKA 92.9-ltr & QSL card, cm. DOW JONES, eng. supervisor. (TY)  
" WPEZ 94.5-ltr, cm from WWSW-AM. PHILLIP J. ASHEAR, studio ops. (TY)  
Somerset-WWSC-ltr from HAROLD P. SHOWMAN, ce. (TY)
- RI Providence WHIM 94.1-scravls verie on reception rpt. CARROLL PHILBROOK, ce (BE)
- SC AIKEN WLOW 95.9-QSL card, ltr. JOHN C. COX, eng. (BE) my rpt most distant.  
CAYCE WZLD 96.7-ltr from WILLIAM D. HUNT. (BE) Hunt wants to hear from  
other FM DXers in the area.  
Georgetown WINH 97.7-ltr from H.R. FOGEL, p & gm (BE)
- TX Ft. Worth-WBUY 93.9-ltr from JAMES SCHUMACHER, ce. (BE) my rpt most distant.  
Kingsville KPUP 97.7-ltr from R.T. WHITAKER, ce. (BE)  
Mineral Wells KMWT 95.9-ltr from RALPH E. HARBUS, ce. (BE) 1st skip rpt.  
New Braunfels KNBT 92.1-ltr from KELCY O'NEILL, ce (BE) feels my rpt most  
(distant.)
- VT Springfield WCFR 93.5-ltr from FRANK P. ZEZZA, m. (BE) my rpt most distant.
- VA Grundy WMJD 97.7-ltr from RHONDA LOONEY-ssecretary. (BE) "I feel reasonably  
safe to say that you did pick up WMJD".  
Norfolk WPAR 95.7-ltr from JOHN B. ZAUN, ce (SS)  
" WTGM 89.5-ltr from JACK STIVERS, m (BE) is thrilled with rpt.  
Tappahnock WRAR 105.5-paper QSL & bs-no v/s. (TY)

Contributors for this month: SS-Steve Sprachman, Seaford, Ny. BE-Bruce Elving-Adolph, Mn. TY-Tom Yingling, Baltimore, Md.

My grandparents had a visitor last week...KEN SIMON!! Ken was on vacation though the NE and stopped in to see me. But I was gone and back in Staunton. Maybe better luck next time.

If anyone is interested, I've got a few items for sale: Heathkit GD-600-\$2  
Channel Master UHF converter-Model 6709..\$10. Rebrandt TV Ghost Eliminator  
sell for \$3. If anyones interested...let me know.

Guess early in October I'll be in New England so look for a story on the trip, plus a ~~PA~~ report from a mountaintop in central Pa, where my uncle lives.

so until next month...73s and all that.....

*Greg*



# WORLDWIDE TV-FM DX ASSOCIATION



SERVING THE  
VHF-UHF DX  
ENTHUSIAST

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