

# VHF-UHF DIGEST

$E_s$  - IN  
DEPTH

1972  
DECEMBER

# **publishers' notes...**

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

**"HELP" RESPONSE...** Expect to see some art work in the VUD during the coming months. Member, Jim Hayes and Les Prus' sister Wanda, have both volunteered their services. You'll have a first look at Wanda's talent in this issue, a cartoon and the mailbox in the heading opposite this page. Right now we are in need of ideas for cartoons and covers. Your help is again requested! Paul Traska has offered to help us out with typing and Don Ruland is preparing a master list of names of those who have inquired about WTFDA and not joined. Eventually, we hope to make a mailing of new club info sheets. Continued help in all the categories is still requested.

**LOST VUD's?...** It happens every month... First a post card saying that a VUD was never received, then later in the month, we get a post card from the same member saying his third class VUD had finally arrived. As more and more members are discovering, third class mail is very slow and very unreliable. Third class issues are sometimes received over a month after the mailing date. When it's time to rejoin, consider the merits of first class mail!

**1973 CONVENTION...** This is the last call for those who wish to volunteer to host the 1973 WTFDA convention. All offers must be received at Hq not later than December 20th. We hope to have a confirmed host in time for January.

**SHACK PHOTOS...** Another reminder about our DX den photo feature. Why not send us a photo of you at the controls! Photos should be clear, of high contrast; not larger than 3"x5", and not smaller than 2 1/2" square. Send all photos, with a complete description, to: Kenneth B. Simon, 528 Pilegrim Road, West Palm Beach, FL 33405.

**SPORADIC E IN DEPTH...** Pat Dyer begins a three part series on E<sub>s</sub> in this issue, looking at the technical side of propagation study. Pat also has an interesting VHF column this month.

**ADJACENT CHANNEL REJECTION...** This problem has hounded DXers for years. Bob Cooper sheds some light on the subject in this month's "Bob's Tek Notes".

**73 in 1973...** In conjunction with "World DX Friendship Year", SPEEDX (a ANARC member club) is offering a special rubber stamp. "73 in 1973" is the stamp slogan. Profits from stamp sales will go to the SPEEDX Handicapped Aid Program (HAP). Make check or money orders (\$1.10 per stamp, postpaid) payable to "Genda" and send orders to Gene Moser, HAP Chairman, 6805 Woodland Court, Coloma, MI 49038. Gene will also be happy to send you more information on the program itself.

**VUD BOXERS...** Orders are now being filled on these deluxe cases for VUD storage. Each boxer is constructed of sturdy card board and finished to look like a cloth covered binding. They're also perfect for club bulletins of similar size. \$1.25 each, from Hq.

**DECEMBER DX...** Many VHF DXers seem to forget that the DX action doesn't stop in the fall. December traditionally brings the return of some E<sub>s</sub>, and most always shows a good deal of meteor scatter action. Here's a review of what showers to look for: Geminids (December 10-14), peaking at 70 bursts per hour; Ursids (December 22), may peak at 165 bursts per hour in the early AM; Quadrantids (January 1-4), 45 bursts per hour is expected as the normal peak, but this year may be higher, due to a secondary peak. Is your alarm clock ready?

Seasons greetings and a happy new year to all! 73, Gary and Morrie

Terry Colgan  
P.O. Box 18268  
Serna Station  
San Antonio, TX 78218

# WTFDA MAILBOX



Welcome to the Mailbox! After an absence of three months, including a column lost in the mail, one that didn't get written because of a lack of material, and one that didn't make it through a bout with the flu, here it is! Anyway, on to the latest Club news.

Let's begin by welcoming these new members:

Preston H. Brown  
Ray Cannon  
Craig B. Clements  
Barry Cobb  
Jeff Curtis  
Jack L. Davies  
R. Davis  
William O. Dickerman  
Dennis Glowienka  
Rob Harrington  
John D. Hathaway  
Blair Hawver  
Charles O. Kettle  
John M. Kusch II  
Steve Mattox  
David W. McLaren  
Morton D. Meehan  
Gil Morgano  
William Oakley  
George Pelich  
John L. Robinson  
David Rosenstock  
W. T. Ryan  
Mike Scheel  
Saul Schwartz  
David F. Simon  
David Singer  
Eric S. Strahan  
James Sullivan  
Edward Tison  
James S. Woodson  
Paul L. Zorn

Lexington, VA  
Farmville, NC  
Ellensburg, WA  
Cincinnati, OH  
Toledo, OH  
Munich, Germany  
Bellaire, TX  
Williamsport, PA  
Waterford, WI  
Englewood, CO  
Champaign, IL  
Newark, NY  
Altamonte Spr., FL  
Malmstrom AFB, MT  
State College, MS  
Waconda, IL  
Yucca Valley, CA  
Santa Ana, CA  
Herrin, IL  
Lawrence, MA  
Fort Worth, TX  
Chicago, IL  
Victoria, BC Canada  
Davenport, IA  
Pittsburgh, PA  
Buffalo, NY  
Richmond, VA  
Fort Huachuca, AZ  
Alhambra, CA  
Winder, CA  
Covington, VA  
Forrest, IL

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thru Commo. World  
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thru Commo. World  
thru Bruce Elving  
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sponsor unknown  
sponsor unknown  
sponsor unknown  
thru 1972 Commo. Hdbk.  
Welcome back!!  
sponsor unknown  
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thru Commo. World  
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sponsor unknown  
sponsor unknown  
thru Stereo Magazine  
thru 1972 Commo. Hdbk.  
sponsor unknown  
thru QST  
thru FM Atlas

Paul Traska, Buffalo TV DXer, sends some tips late night viewers might want to file away. Binghamton, NY, channel 12 (the old WNEB) is now WBNG and is CBS. Buffalo's channel 4 (WBEN) has Dick Cavett weekdays (except Monday) at 11:30 pm EST. Channel 2 (WGR) has Johnny Carson at the same time, while WKBA (channel 7) runs a movie. At 11:00 pm EST, WUTV (channel 29) has a weekday movie, while WNEB (channel 17) is off the air. (Thanks, Paul, keep the information coming. -tc)

Dave Pomeroy reports little DX from his new QTH in Topeka, KS, since KTWJ is "behind the biggest hill in Topeka." Dave reports it should be great for summer skip since channels 2-6 are open for all practical purposes.

Saul Schwartz does most of his listening on the VHF-radio bands around Pittsburgh with some interest in FM and TV. Saul is also a member of CIDXC. (welcome! Hope to see your reports regularly in Pat Dyer's column. -tc)

Paul Zorn started in radio in 1923 and has been an active listener for the last 20 years. At present, Paul is working on 4-channel stereo systems.

Boise, ID member, Frank Aden, sends word that KBBM, 92.3 MHz, in Boise is anxious to receive reception reports to Clinton Tinsley, Engineer, KBBM, 9400 Farview, Boise, ID 83704. An SASE is a necessity, and a prepared card would be appreciated.

Jerry Pulice reports working the midnight to 8:00 am shift at WOR, thus interfering with his DXing. He is able to DX from the 83rd floor even though he has a "slight" problem with stray RF and adjacent channel CCI.

Best wishes for the upcoming holidays!

73, Terry

# FCC FM NEWS

Bruce F. Elving, Editor  
1646 North Prospect Avenue - Apt. 414  
Milwaukee WI 53202

The FCC has really been active in granting FM facilities and changes. This, plus a lot of very welcome reader response should make for an information-packed and, hopefully, interesting column.

## New Construction Permits

Apache Junction AZ 107.1 3000 h,v; -115'  
Santa Rosa CA 99.3 135 h,v; 1100'  
Montrose CO 100.1 K261AA 10 [to repeat  
KREX-FM Grand Junction]  
Hartford CT \*88.3 10  
Emmett ID 101.7 790; -500'  
Keokuk IA 95.3 2850 h,v; -  
Oak Grove LA 96.7 3000 300'  
Bay City MI \*91.3 10  
Mount Pleasant MI \*91.5 10  
Jackson MS WFXM 95.5 100,000; 1060' [not  
deleted as reported in September; sale of  
construction permit recently approved]  
Springfield MO \*91.1 5800 h,v; 265'  
Lincoln NE 106.3 2900 h,v; 145'  
Morehead City NC 95.9 3000 h,v; 280'  
Rockingham NC \*91.1 10  
Lorain OH 104.9 3000 h,v; 300'  
Wilington OH 102.3 3000 h,v; 300'  
Manning SC 92.1 3000 h,v; 160'  
Escalante UT 95.3 K237AD \$ 10 [KSL-FM]  
Moyton UT 105.5 K288AD \$ 10 [KSL-FM]  
Oak City UT 107.1 K296AA \$ 10 [KALL-FM]  
Vernal UT 99.3 K257AA \$ 10 [KALL-FM]  
103.9 K280AA \$ 10 [KSL-FM]  
Windy Ridge [Wayne County] UT  
105.5 K288AF \$ 10 [KSL-FM]  
Petersburg VA WPVA-FM 95.3 3000 h,v; 240'  
South Salem VA 95.9 W240AA \$ 1 [WPVR]  
Quebradillas PR 98.3 3000 h,v; -81'

## On the Air and DX Ready!

Chico CA KPAY-FM 95.15 6000; 1170'  
New Britain CT WFCS \*90.1 10  
Athens GA WUGG \*90.5 3200; 145'  
Glasgow KY WVO 105.5 1000 h,v; 480'  
Brunswick ME WBOS \*91.9 10  
Crookston MN KUCM \*91.7 10 - Thanks to  
John Ebeling, who read about this in the  
Minneapolis Star. The Star also reported  
that the U. of MN is giving up its appli-  
cation for \*91.7 rather than fight KSJN  
\*91.1, which would have to change fre-  
quencies. Instead, the U. of MN hopes to  
buy a commercial FM in Minneapolis or  
St. Paul, and establish an educational net-  
work throughout the state.  
Morris MN KUHM \*89.7 [That's KUHM!]  
Cleveland MS WCLD-FM 103.9 power to  
1000 h,v; 300'  
Butte MT KBOW-FM 94.1 27500; 1840'  
Auburn NY WDNW \*88.9 [Calls, too] 10;  
Stereo, too, reports Allen Rockford.  
WDM is on Mon. thru Fri. 5 pm to 10 pm;  
after Jan. 1 longer hours are planned.  
Garden City NY WNPC \*90.3 390 h,v; 115',  
shares time with WBAU \*90.3 Garden City.  
Gahanna OH WCVO 104.9 3000 h,v; 300' with  
gospel programming  
Stout Falls SD KAUR \*89.1 10  
Lebanon TN WLCH \*88.7 10

Memphis TN WLYX \*89.3 10 h,v, reports  
John Haralson, Memphis [one of the few  
10-watters known to have vertical  
polarization].  
Corsicana TX KCIR 107.9 25000 h,v; 520'  
Hampden Sydney [near Farmville] VA  
\*WHS \*91.7 10  
Ellensburg WA KALE-FM 95.3 1400; -145'  
Longview WA KLVV \*90.5 10  
Stations Licensed and on the Air with  
New Facilities (selected examples)

Loudonville NY WVCV \*88.3 370; 790'  
Memphis TN WMP5-FM 97.1 100000 h,v; 530'  
Brule WI WWSA \*89.9 38000 h,v; 551'  
Neehan WI WRDE 94.3 2600 h,v; 320' 24  
hrs., Shulke MOR format, has FM Atlas  
ads.

## Back on the Air

Elkhart IN WPEE \*88.1 10000 h,v; 280'  
Returns after several months of in-  
activity; operates 9 am to 9:30 pm EST,  
Monday through Friday; no stereo.  
Athens OH WMOB-FM \*91.3 50000 h,v; 500'  
Monitored in Milwaukee following shut-  
down for tower work.  
Tyler TX KZAK-FM 93.1 4800 380', reports  
Glenn Hauser and Richard Wood. Glenn  
says schedule is 5:30 am to 10 pm.

On the Air, but Expected to Delete by  
December, 1972 or January, 1973

Suring WI \*91.5 WHMD, following move of  
WHWV \*89.3 from Chilton to Green Bay,  
with signal tests to determine if the  
coverages of WHMD and WHWV [calls will  
change to WPIE-FM] overlap. All 9 WI  
state FM network stations now operate  
Sundays 3 more hours (9 am-10:45 pm)  
and one more hour Saturdays (noon 5/0n).

## Still Off the Air

Chicago IL WBEZ \*91.5  
Deletions Montreal PQ CJRM 93.5 - his-  
sing from the 1972 CRIC list.  
Portland IN 100.9 WPGW-FM  
Lamesa TX 100.3 KELE

## Changes in Existing and New Stations

Mobile AL WABB-FM 97.5 to 100,000 h,v;  
450'  
Salinas CA KERR 103.9 3000 h,v; 300'  
San Diego CA KDIG 96.1 28000 h,v; 640'  
San Mateo CA KCSM from \*90.9 to \*91.1,  
power to 14000 (-330') 590'  
Washington DC WHAL-FM 107.3 32000 h,v; ↑  
Jacksonville FL WYFL \*89.1 to 1900; 90'  
Ocala FL WMPG-FM 93.7 to 100,000 h,  
78000 v; 190'  
Manchester GA WFDOR-FM 93.3 61000 h,v; 460'  
Valdosta GA WVV5 \*90.9 to 180 (68')  
Lewiston ID KOZE-FM 96.7 to -631' (780)  
Morton IL WDDO 107.1 to 300' (3000 h,v)

Rockford IL WRUK-FM 97.5 adds V  
Flossmoor IL WHFH \*88.5 10 [not \*89.1,  
reports Russ Brown, St. Joseph MI]  
Urbana IL WPGU 107.1 2950; 235' [Laney  
Bolin, Charleston IL, reports WPGU  
comes in line with its new tower]  
Brazil IN WBCB-FM 97.75 190' (3000 h,v)  
Jamestown KY WJRS-FM from 103.1 to 104.9  
Owensboro KY WQW1-FM 92.5 50000 h,v; 380'  
Paducah KY WPAU-FM 96.9 50000 (340')  
Baltimore MD WLF 101.9 9600 h,v; 960'  
Flint MI WCKC 105.5 adds \$  
Gaylord MI WRRM [calls, too] 106.7,  
570' (50000 h,v)  
Saginaw MI WSAW-FM 98.1 delete \$ [flint,  
Saginaw items from A. R. Vuolo, Ypsilanti]  
Spring Arbor MI WSAE \*89.3 to 203' (1000)  
Aitkin MN KEZZ 94.3 to 190' (3000 h,v)  
Gulfport MS WROA-FM 107.1 1600; 400'  
Omaha NE KFMX 92.3 to 95000 h,v; 1230'  
KGBI 100.7 to 100000 h,v; 470'  
Oswego NY 105.5 to 112' (3000 h,v)  
Rensselaer NY WUGM-FM 103.9 87' (3000 h,v)  
Ashland OH WNCV-FM 101.3 25000 h,v; 390'  
Cincinnati OH WLQA 98.5 15000 h,v; 810'  
Tulsa OK KKUL 103.3 to 195' (100,000)  
Scranton PA WGBI-FM 101.3 5600 h,v (1110')  
Waynesboro PA W4YZ-FM 101.5 3200 h,v (21')  
Darlington SC WBAR-FM 105.5 260' (3000 h,v)  
Chattanooga TN WLCM 106.5 50000 h,v; 1080'  
Houston TX \*88.7 KHUF 20000 (110')  
101.1 KLUL 97000 h,v; 790'

Port Arthur TX KCAM-FM 93.3 25000; 190'  
Richfield UT K221AA from 92.1 to 107.1;  
calls to K229AB [repeats KALL-FM] 3650'  
Salt Lake City UT KSOP-FM 104.3 13000 h,v; ↑  
Newport News VA WGH-FM 97.3 adds V  
Seattle WA KNHC \*89.5 320; 320' [now on]  
K1X1-FM 95.7 100,000 h,v; 1150'  
Parkersburg WV WCEF-FM 99.3 now \$, drops  
country music.

Kenosha WI WLIP-FM 95.1 29000 h,v; 270'  
Madison WI WMA-FM \*88.7 adds V  
San Juan PR WGB5-FM 99.9 32000 h,v; 190'  
Call Letters Assigned

Los Angeles CA 101.1 KRTH [“K-Earth”] (KHU-FM)  
San Francisco CA 106.1 KKEE (was KFNS)  
San Luis Obispo CA 96.1 KUNA (KATY-FM)  
Seaside CA 107.1 KZEN  
Security CO 135.5 WNYD [near Colo. Sprs.]  
Palatka FL 99.9 W1YD (was WHPF-FM)  
Moscow ID 103.9 KRPL-FM; Anderson IN 97.9  
W1LH; Des Moines IA 93.3 K1GA-FM (KYNA)  
Great Bend KS 99.3 K257AB (not K257AA)  
Gardiner ME 104.3 WABK-FM; Bedford MA  
107.9 W4RL (WH1L-FM). Springfield MA  
W4QY (W4RC), drops \$, goes MOR:Bill Grant.  
Cloquet MN 100.9 WKLK-FM; Austin MN 99.9  
KAAL (KAUS-FM); Mooe, Ebeling report.  
Blainstown NJ 106.3 WFMV. Paul Smiths  
NY \*89.1 WPSA. Continues next page-----

Call Letters (Cont'd.)

New York NY 98.7 WXLG (WXR-FM)  
 Cincinnati OH \*90.1 WNSD  
 101.9 WKRG (WKRC-FM)  
 Idabel OK 96.7 kWOG  
 Oklahoma City OK 96.1 KXXY (KOCY-FM)  
 California PA \*91.7 WVCB

Erie PA \*89.1 WENG  
 Orangeburg SC 103.9 WHCE  
 Sumter SC 101.3 WFIG-FM (WMDR)  
 Columbia TN 101.7 WKOM (WYF-FM)  
 Oak City UT 105.5 K288AE [not K288AD;  
 rebroadcasts KSL-FM]  
 Mount Vernon WA \*90.1 KSVR

Olympia WA \*89.3 KAUS [for real!]  
 Parkersburg wv 103.1 WKYG-FM (was  
 WAP-FM; evinces a country format)  
 Dual-City Identification Granted  
 Clearwater FL WQXN 97.9 to Clear-  
 water-Saint Petersburg

COMMENTS FROM READERS

Andy Bolin, Charleston IL, discovers another \$ ten-watter: WESN \*88.1 Bloomington IL. His home-town station, WEIC-FM 92.1 is now 24 hours 6 days/week. The following are now in \$: WDWS-FM 97.5 Champaign IL, WWCN-FM 97.7 Brazil IN, KLAZ 98.5 Little Rock AR ("no silent period"), WHOP-FM 98.7 Hopkinsville KY (24 hours 6 days/week), WMAQ-FM 101.1 Chicago now with chicken rock, WNDH 103.1 Napoleon OH, WTAO104.9 Murphysboro IL ("no silent period"), and WLIS-FM 106.3 Hartford KY, which "puts out a good signal." Andy says, "yes, WBDG \*90.9 and WEDM \*91.1 Indiana-polis exist. I don't know why these two are on adjacent channels. Maybe one reason for WBDG's raised power [320 h,v; 105'] is because WGUC [Cincinnati] gets out so well and could have been causing interference in Indy. From here it is a very rare day that WBDG is heard because of WGUC, whereas, 10w WEDM is heard with any ground wave improvement."

Dennis Moe, writing from Ames IA, says KASI-FM 107.1 there will be 24-hours, rock, for a 6-month period, and KFMQ Lincoln NE is now on 101.9 [100,000 h,v; 180']. An FM Atlas reader in NH sends an article on the new \$ station in Peterborough, WSLR 92.1, 141 watts h,v, transmitter atop Pack Monadnock, Temple NH [1120'], 6 am-Midnight with variety.

WPBC-FM 101.3 Richfield MN has been off since Nov. 2, reports John Ebeling, and expects to return in mid-December as WRAH [FM]. Richard Steinberger, Hudson MA, has heard WSLR [see above] testing and, he along with Bill Grant, noticed that WAQY dropped stereo and went MOR music following its change from WCRX [Springfield MA 102.1]. He would like to know when WLOV 99.9 Cranston RI and WEDK \*91.7 Springfield MA left the air.

Robert Eddy, Newport OH, reports that WKYG-FM 103.1 Parkersburg WV is now 24 hours, and he's heard a rumor that construction is about to begin on a 50 kw station in Parkersburg on 95.1. WCVO 104.9 Gahanna OH, he says, has an excellent signal with its gospel format at 110 miles from Newport. Bruce Rummel, Fleetwood PA, notes that WUHY \*90.9 Philadelphia is \$, while WFDU \*89.1 Teaneck NJ carries Mutual news [sans commercials].

In Idaho news, the FCC told Frank Aden, Jr., that KGVM-FM 99.1 Idaho Falls has been off the air for some time due to a fire and they have no idea when they'll return. Boise State College is interested in applying for FM, and both KEXL 94.1 Caldwell and KBBK 92.3 Boise plan to raise power and move to Deer Point, NE of Boise.

WKOK-FM 94.1 Sunbury PA should be increasing power to 12500 h,v; 875', but Bill Dickerman says they still sound like the same old 4400 watts in Williamsport; they have "solid gold" music Monday nights. WVIA-FM \*89.9 [supplanting the old WUSV] Scranton has a target date of January, 1973. Marv Robbins, Omaha, reports KFMX 92.3 changed from hard rock to taped MOR music. Little KWSC \*91.9 Wayne NE [320; 96'] signs on 6 pm weekdays. Russ Brown says 10-w WVUR \*89.5 Valparaiso IN really gets out now since they worked on their equipment, while WZND 99.3 Zeeland MI seldom gets into St. Joseph. From his Mexican trip, Russ says X\_\_98.1 Monterrey must have the same 30 kw power that XHSRO and XHMG have, with antenna heights of 3000'+, with XET-FM 94.1 with only 5 kw getting out the best — about 100 miles of car stereo. XHOI 92.3 Leon probably has 20000 w, the same as XHLG 98.3 [the latter never IDs or mentions Leon in spots; XHOI loves to give their calls and frequency. XHRO 95.5 Guadalajara does not identify with calls or slogan, either, and there was no \$ on XHRP 94.3 Saltillo. WKFM 103.5 Chicago will change calls to WIOE because "when written in a certain way the E looks like a 4"; disgusting! Finally, Russ found XEBJ-FM Ciudad Victoria, Tamps. to be around 91.7, with 1000 or more, and not 88.8. XHSO 99.9 Leon was not on the air, although listed on the Stereo Rey letterhead, and XHMG Monterrey is on 100.3 instead of their listed 100.5 [even though they announce 100.5].

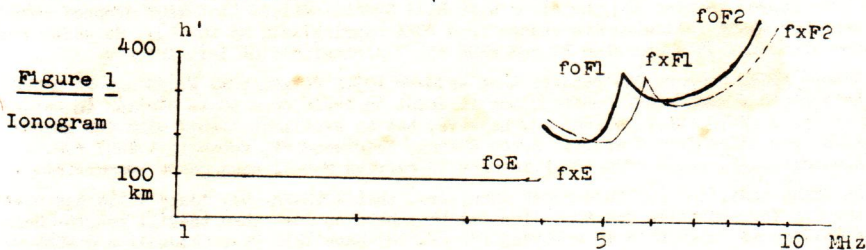
Mike Dörner's semi-annual report on FM radio will be available this month. It will detail new station construction, deletions, channels available, etc. with U.S. outline map. All for only 24¢ in postage from 1409 Hymelia Avenue, Metairie LA 70003.

Bill Grant, Worcester, notes that WCCM-FM 93.7 Lawrence MA is still on low power. Fred McCormack, while in SD, heard KBHE-FM 93.1 Sturgis announcing they're in \$. John Peterman, an engineer at WFNY 92.1 Racine WI, would appreciate comments on their signal. WFNY has all-new Collins stereo equipment and it's "well-maintained." Richard Wood says local WJBO-FM 102.5 has dropped all classical programming [Baton Rouge], while KMIO 101.3 Sinton is \$, 100% Spanish with Latin music. And he's happy with the PR list of Oct. He claims that WKXY 93.3 Paducah KY is off the air, as reported by rival WPAD-FM. Anybody know if any of the following are \$: WCUE-FM Akron, WPLO-FM Atlanta, WKOP-FM Binghamton NY, KGBS-FM Los Angeles, KQBB-FM Council Bluffs, KSKG Salina, or WHVY Springfield MA? 73, 74

# Es in Depth

Probing the ionosphere with controlled radio signals to determine its condition began more or less in the early 1930's. The same basic method used then is currently employed in what are known as vertical incidence (V.I.) ionosondes. These transmitter-receiver installations operate much like a radar set, only the frequency is swept from about 1 to 30 MHz while the pulses are being emitted and (if reflected) received. Pulse duration and sweep times vary with the models, with the fastest sweeps used being about 15 seconds. Peak power outputs (ERP) are on the order of 30 kw.

The displays of the "echoes" are made on a cathode ray tube, usually with provisions for filming the complete sweep (ionogram). This may be done automatically at preset intervals. A somewhat idealized ionogram is shown below in Figure 1.  $h'$ , the vertical scale, is known as the virtual height since the pulse is actually gradually slowed down before reflection and the distance is thus exaggerated on the scope trace. The horizontal scale for frequency may be either linear or logarithmic. The display is what one expects at mid-latitudes on a quiet spring day with a moderate sunspot level.



Now for the terminology lesson. You'll note that the trace is split in two (shown above in different weight for clarity - original ionograms are not always that considerate). This is caused by the earth's magnetic field and is known as birefringence or magneto-ionic splitting. The two rays the signal is split into are called the ordinary (o-ray) and extraordinary (x-ray). In very high geomagnetic latitudes there may even be a third trace called the z-ray. The x-ray is the higher frequency reflected.  $foE$ ,  $fxE$ ,  $foF1$ ,  $fxF1$ ,  $foF2$ , and  $fxF2$  are the so-called critical frequencies for the o and x rays for the various ionospheric layers.

Moving along to our main object of concern, sporadic E. The phenomena were noted in the mid-1930's on ionograms, and it received a variety of names such as abnormal E, night E, et al. The termination of it as Es (E for the layer height it occurred at, and s for sporadic) came in the 1940's. In the late 1930's it was noted that the unexpected DX openings on the then 5-meter ham band matched up very well with these ionosonde observations of Es.

There are two types of Es easily distinguished on ionograms: blanketing and non-blanketing (or transparent). Figures 2 and 3 show the respective varieties (with only the o-ray shown for clarity). Some new terms now come up:  $foEs$ ,  $fxEs$ ,  $fobEs$ , and  $fxbEs$ .  $fobEs$  is the lowest frequency at which a higher layer can be 'seen' thru the Es, and is called the blanketing frequency. Non-blanketing Es is more commonly observed in the equatorial regions.

For reasons to be explained later (Part II), some workers prefer the use of  $fEs$  for the highest Es reflected signal and  $fEs$  for the blanket cut-off.



Figure 2  
Blanketing Es

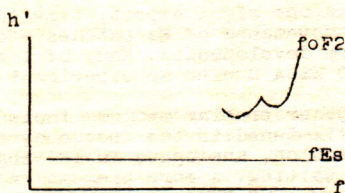


Figure 3  
Non-Blanketing Es

by now you may be wondering why the F-layer traces have the curving shapes. It is not strictly an indication of height changes. The normal E layer, even though it is being penetrated by the pulses, is still slowing down the signal, less so as the frequency rises. Thus the F1 trace appears to lower as the frequency increases (less 'holding back' by the E layer) to a point (usually noted as  $h' \min F1$ ). The rise then noted is due to the signal penetrating deeper into the layer until the critical frequency is reached. The F1 layer then similarly affects the F2 trace causing the curves to it.

In most cases of Es (except the auroral-zone variety) this slowing down effect (group retardation) is virtually absent, indicating a very thin layer of ionization. Note the F1 trace in Figure 2 at fbEs does not appear to fall.

In blanketing Es, fEs traces may extend up to several times the frequency of fbEs. If the fbEs extends above  $f_x F2$  the condition is known as total blanketing. with fbEs lower than  $f_x E$ , and  $h' E$  greater than  $h' E$ , the Es will be essentially transparent.

There are other types of ionospheric probing besides vertical incidence. One popular type is known as backscatter radar, where a narrow beam (on a fixed or swept frequency) is sent out. See Figure 4. The returning echoes are then examined on either a PPI (classical radar screen display) or a range-sector plot. Resolution in angle may be as good as 2 or 3 degrees to half-power points on the antenna array (achieved by using up to a dozen nicely spaced, vertical and/or horizontal spacing, multi-element Yagis). Commonly used frequencies range from the mid h.f. to 50 MHz plus. With vertical stacking, elevation angle scans are possible. Provisions for automatically changing the frequency (in steps) may be used, with Figure 5 illustrating this effect on an Es patch.

Figure 4

Backscatter  
Radar

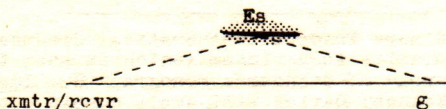
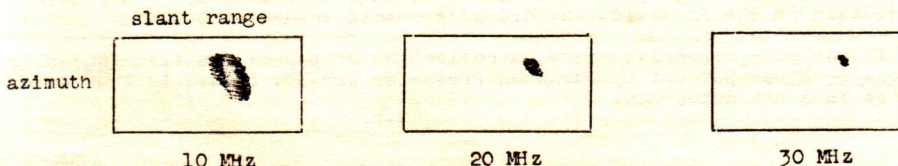


Figure 5



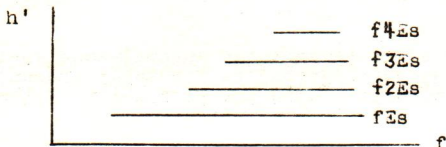
As one might expect, time lapse photography techniques vividly display the movements of Es patches etc., just as those of weather radars show storm developments. Many of the more recently made this way are from the 1970 ESSA Summer Es experiment (May 1970 QJ, p. 31).

Other probing methods include one-way oblique paths where a receiver is fix-tuned to the frequency of a transmitter at a desired distance-direction, analogous to leaving your set on a vacant low-band TV channel and waiting. A more elegant refinement of this is to use a transponder (e.g., 1970 ESSA on 49.6 MHz between Boulder, CO and Seminary, MS) which will send back its own signal if the path is open and it detects an incoming signal.

All of these methods have their high-points and their limitations. Vertical incidence is always plagued by the problem of reflections coming from directions other than straight up (mainly due to tilted layers). Multiple reflections (see Figure 6) occur from the signal literally vibrating between the ground and the ionosphere (E or F regions). Another serious problem is interference on the ionogram due to the signals of other services operating in the h.f. bands (you can easily spot the WWV outlets and KOA on Boulder ionograms).

Figure 6

Multiple Reflections



Backscatter radar suffers from the problem that the distant ground (or water) reflection coefficients vary with the terrain and angle. This produces a high degree of non-uniformity with direction and distance. Cases of the V.I. ionosonde at Stillwater, OK in July 1970 detecting Es when the Boulder h.f. backscatter radar revealed none are good examples.

Using fixed oblique circuits severely limits the amount of data since until Es reaches close enough to the midpoint to 'open' the path, the system is ignorant of its existence.

The possibility of cloud-to-cloud paths (see Mel Wilson's excellent articles in Dec 1970 and Mar 1971 QST) can cause endless perplexions.

And with all that, there often comes about a distinct lack of agreement in what radio methods find vs. rocket probes, the subject of Part II of this series.

For those desiring a more in-depth mathematical discussion on electromagnetic wave behavior in a plasma (which is what the ionosphere amounts to) National Bureau of Standards Monograph 80, Ionospheric Radio Propagation, by Kenneth Davies will amply supply you a few chapters and many other references as well. Government Printing Office sells it at a very bargain price of \$ 2.75.

NBS Circular 582, by Dr. E.K. Smith, though over 15 years old remains a classic in the Es field. The GPO offers this volume at \$ 3.25.

In the more expensive arena, a collection of papers entitled Ionospheric Sporadic E was put out by Pergamon Press for \$15.50. Issued in 1962 some of it is a bit dated now.



# Bob's Tek-Notes

by Robert B. Cooper, Jr.

## ADJACENT CHANNEL SELECTIVITY - PART ONE

The ability of the television receiver to separate (ie. identify) a weak station adjacent (in dial position) to one (or two) strong(er) stations is one of the prime assets of a television receiver for any DX enthusiast.

Morrie Goldman recently discussed the CONRAC AV-12E receiver in this digest, and noted that if such a receiver were carefully (and properly) aligned, it would probably make a very selective receiver for DXing purposes. Morrie's line of thought is correct; unfortunately the AV-12E (and most other receivers) have shortcomings that are design (not alignment) oriented, and re-alignment for DXing purposes (while marginally helpful) is not the answer.

Selectivity in a receiver is determined at several points; and the overall selectivity of the receiver is a combination of ... all of these factors, and, only as good as the weakest of these factors.

### (A) THE TUNER

The first electronics which the antenna-delivered signal "sees" is the TV tuner. The tuner is a combination of two things; a selector that chooses the proper channel, and an amplifier.

The selector depends upon the tuner selectivity to distinguish between the desired signal (ie. the channel you are tuned to) and the non-desired signal(s) from adjacent channels or other portions of the RF spectrum. In effect, the tuner acts as a filter separating the wanted channel from the unwanted channel(s).

The amplifier function of the tuner is quite standard. The antenna-delivered signal(s) are weak; at least some of them, some of the time. The tuner must amplify the signal(s) to the point where they are sufficiently strong to be viewable, all of the time.

The selectivity function of the tuner depends to a large measure on the proper transfer of energy between the antenna downline and the input of the tuner. Transfer of energy is determined by something known in equipment design as match. And match is another way of saying "how much of the energy from the downline actually gets into the tuner". Since there is no such thing as perfect match, all of the energy that the downline delivers to the antenna input never gets into the tuner ... and is lost (forever) to the receiver. The tuner has a match that can be measured (with wideband sweep generating equipment, a detector and return-loss-match bridge) so you can "hang" numbers on the quality of the match, if you have the equipment and know how to do it.

The amplifier function of the tuner also depends to a fair measure on the match, since tuner noise - figure (figure of merit for tuner sensitivity) is very match-conscious. The amplifier seeks to increase the amount of signal present, and to improve the ratio between the noise and the signal; ie. the signal-to-noise ratio. Wide open, most tuners have from 18-24 db of gain on channels 2-13. On UHF channels, most tuners exhibit negative gain (ie. signal is lost), on the order of -6 to -12 db per channel.

The amplifier portion of the tuner has an automatic gain control function, in most quality receivers, which raises or lowers the gain available (18 to 24 db maximum) as the input signal varies up and down. When you are tuned in on a distant, weak signal, the tuner runs "wide-open" and whatever the max-

## BOB'S TEK NOTES

imum gain of the tuner is, that is what you get. On the other hand, when you are tuned to a strong, local station, the automatic gain control function of the tuner lowers the gain of the tuner, to the point where it may be contributing NO gain to the system.

In most tuner automatic gain control systems, there is a design weakness that directly affects the performance of the tuner on the reception of weak, distant signals when those signals are on a channel that is adjacent to a strong, local signal. The tuner derives its automatic gain control by "sampling" the signal present in the receiver, and allowing the amount of signal present to control the gain of the tuner (and i.f.). Unfortunately, in many receivers the strong adjacent channel signals present also cause the signal-sampler to react, and the receiver is "told" that there is a strong signal present and to lower its gain; when in truth the strong signal present is the non-desired local adjacent channel ... and NOT the distant, on-channel weak signal at all.

In this series on adjacent channel selectivity, we will deal first with the problems, and second with possible solutions. And since the tuner is where the signal starts its way into our hearts, let's start with the tuner also.

The tuner selection problem is, as we noted, match-conscious. Every tuner has match problems, regardless of the quality of the (commercial) tuner. Selectivity from brand "X" to brand "Y" tuners may vary ... as a function of design. But both "X" and "Y" will have one thing in common; if they are not matched to the transmission line, neither will function the way it was designed to work in the original laboratory.

The transmission line has a known impedance; either 300 ohms or 75 ohms. The variation from this known impedance, between brand "X" line and brand "Y" line is measurable but inconsequential at this point in the game. The tuner input (always 75 ohms) varies however, as a function of frequency. The nominal 300 ohm input of the TV set is carried from the terminals on the back of the receiver into the tuner of the receiver in a flat, short length of 300 ohm line. At the input to the tuner a 300 ohm to 75 ohm matching transformer is mounted (always) and the input to the tuner itself is 75 ohms; from the tuner-mounted 300 to 75 ohm matching transformer.

As noted, the actual input-impedance of the tuner varies. It is supposed to be 75 ohms; to match the output of the 300 ohm to 75 ohm matching transformer mounted on the tuner. But it is seldom, if ever, 75 ohms. And as a consequence, a good amount of the antenna-supplied energy from the antenna through the matching transformer located on the tuner and to the innards of the tuner is lost because of the poor quality of the match to the tuner innards.

If this mis-match problem was static, on all channels, it could be cured quite easily. Unfortunately, it is not. The match varies on each channel (channel to channel) and in fact it varies within the channel itself. So whatever the solution might be on channel 7, for example, would not work on channel 2, or 6, or 13, or any of the others; except 7. The solution must be adjustable, for each channel you are tuned to, so that you can optimize the performance of the tuner on each channel, as you change channels.

One possible solution is an antenna tuner. The antenna tuner is widely utilized in communications receiving (and transmitting) equipment but to our knowledge has never been employed in a television receiving system. Before this series is complete, we will offer a simple antenna tuner that you can build and try in your own system. The antenna tuner, if mounted right at the tuner innards-input (i.e. just ahead of the actual tuner input) will allow you to tune-out the mis-match of the tuner input and to match the downline to the tuner more exactly. By more accurately matching the downline to the tuner input, we will transfer more of the antenna energy to the tuner (more signal available; better picture); improve the tuner sensitivity (better match, lower noise figure in this case); and allow the tuner (bandpass) filter on the channel we are tuned to, to perform more closely as designed.

This will continue in the next edition of TEK TALK.

*Bob Cooper*

# TECHNI-

# CORNER

Conducted by:

David T. Janowiak  
3661 South 46 Street  
Greenfield, Wisc.  
53220

## THE SHARP TU-95P TV RECEIVER

A strange thing occurred to me lately. I bought a TV set, the first such purchase in about 10 years. The 1962 Zenith B & W with its "top-of-the-line" quality chassis (but minus the Gold-Guard memory tuner) is still purring in the living room, although pix tube isn't too bright. The 1963 Zenith B & W top-of-the-line with memory tuner still serves me well built into the family room/DX den adjacent to the patch panel, amps, traps, rotors, meters, etc.

The living room Zenith, however, doesn't have UHF. "Wouldn't it be nice, said mama, "if we had a small all-channel B & W portable to carry from room to room?"

After a bit of research, determining minimum screen size, choice of tube vs transistor, etc., a Sharp TU-95P tube, a-c only, 12" screen B & W TV was purchased. It listed for \$109 (a meaningless number) and sold "regularly" at a local discount house for \$79. However, when Midland 12" TVs were advertised on sale for \$58.88, but didn't arrive in time for the sale, the Sharp was sold for the same price. I was really sorry about that!

Naturally, I was curious as to the DX-ability (or lack of it) of this receiver. Typically, inexpensive portables are poorly made electrically and mechanically. Sensitivity is usually poor, and sync circuits barely passable, with barrel distortion common. The smaller screen, though, masks alot of "ills".

The sharp was a very pleasant surprise. Considering important DX features only, I would rate it as excellent. (Consumer Reports rated the Sharp overall in the top third.)

Most notable points include (a) sharp picture, (b) good sensitivity, (c) great VHF selectivity, (d) good UHF sensitivity, (e) poor linearity and only fair sync stability, (f) complete literature.

### PICTURE QUALITY

The small screen undoubtedly contributes to the seemingly bright, crisp picture. However, CR found picture sharpness only fair to good.

### SENSITIVITY

The Sharp was not as sensitive to weak, weak VHF signals as the fabled "hot" Zenith. But it wasn't far away, as discovered by attenuating (reducing) the signal of fairly strong, steady tropo signals and comparing the receivers. That the Sharp performed so well made me curious, but the schematic told the tale. Tuner tubes were the same in the Sharp as in the Zenith, which, incidentally, are the same as in some Conracs used by club members. And, 4BZ6 4EJ7 high gain pentodes were used in the Sharp's IF strips, just as in the Zenith. The Sharp uses only two IFs, however, and that probably accounts somewhat for why the Sharp wasn't as sensitive as the Zenith. The choice of such high quality tubes in an inexpensive portable was surprising.

### SELECTIVITY

VHF selectivity was a Sharp trump card. It is at least 10 db better than the Zenith, allowing such reception on rabbit ears as WMAQ-5 (100 miles) between locals 4 and 6 and WLUK-11 (100 miles) between locals WMVS-10 and WISN-12, on days of slightly up tropo. Locals are eight miles away. Some WMAQ-5 signal is always there weakly, whereas the Zenith with ears produces just 4 and 6 slop. (The Zenith's selectivity isn't all that bad either, quite a bit better than the highly touted Conrac as compared recently.) Obviously, the 2-stage IF in the Sharp is peaked (ie, bandwidth compressed) to account for its good VHF selectivity.

The Sharp's ability to sync onto a weak tropo signal, or grab a weak rapidly fading M'S signal, was not nearly as good as the Zenith. This is the one DX feature where a noted difference exists. Conracs and quality Zeniths are usually right there, syncing-in immediately.

To test for sync and AGC reaction, the receivers were compared side by side on M'S. Antenna signal was amplified by a low-noise, FET, 24 db preamp, split by a BT MATV splitter, and fed to the receivers during a highly productive early morning M'S session. Bursts from WCBS-2 produced about the same AGC speed in both receivers. Of course, the Zenith locked-in immediately; the Sharp produced a signal about as fast, but the locked-in signal was delayed somewhat.

During the same test, it was apparent that the Sharp was certainly useable on M'S, with the only weak point being the greater signal needed to lock-in. With good AGC speed, decent sensitivity, but particularly because of the preceding low-noise FET preamp, the Sharp will do well during M'S sessions when run simultaneously with the Zenith. In fact, some random HB M'S has been noted on the Sharp.

#### UHF RESULTS

UHF performance was a mixed bag. A rather "standard" UHF tuner is used. UHF sensitivity, however, was decent, with high translator frequency performance quite good. I suspect a very hot IN32 mixer, so maybe I was just lucky.

NOTE: Consumer Reports similarly found the Sharp a good receiver for VHF and UHF fringe areas.

UHF selectivity is poor. WTTV's (channel 18) two megawatt signal from 3.5 miles away spills over about channel 16½ to 19½. UHF converters produce the expected 17 through 19 masking. Quite probably, UHF preselection is not as sharp as that of converters tried here.

A smooth UHF slide-rule dial is used on the Sharp in contrast to the usual clumsy concentric UHF dials for course and fine tuning. However, calibration is no better than other UHF tuners/converters, and several minutes of spinning the tiny UHF dial would tire anyone.

#### BARREL DISTORTION

The Sharp had it, not so much as other portables, but more than some, as reported by CR. This isn't disturbing usually, but the "compression" at the top of the screen does produce a slightly egg-shaped appearance.

#### LITERATURE

The literature is most complete. Besides the normal fluff, you get a complete parts list with JEDEC numbers and an excellent schematic with test voltages and waveshapes. Both sides of the printed circuit board are shown in phantom photos. (Literature received with my 1962 Zenith consisted of a single pamphlet including schematic; the 1963 Zenith came with almost the same but no schematic.)

#### MECHANICS

I can't really comment on the mechanical aspects of the Sharp. Everything seems solid, although I haven't paid much attention to other receivers, so I can't make an honest comparison.

Most controls are back-panel mounted, making it quite difficult to readjust when necessary. This is typical of most inexpensive portables.

Antenna terminals seem slightly chintzy. An antenna left connected would be fine, but constant removal or switching with 300 ohm closepin-type connector may fatigue the terminals rapidly.

An instant-on feature is included. However, there is no defeat switch. That is, the receiver always has low filament voltage (drawing 4C watts of line power) with the plug in and off selected. The handyman, of course, can add a defeat switch.

#### TOP UP

In short, I'm not trying to sell anyone a Sharp. I just happen to believe it's decent enough to use in a pinch or with the normal DX receiver. When operated behind my home-brew start-of-the-art preamp and LB and HB VHF yagi antenna, the Sharp is 90% as effective as the fabled Zenith top of the line B & W chassis of 1962 to 1965 "behind" these same amps and antenna.

If you're considering a portable B & W for the family, and you feel you can use another receiver for DXing, the Sharp does the job nicely. It's especially nice to have a fairly sensitive and selective portable to haul along to cottages or camping, etc, just in case the kids get obnoxious or rain upsets your living close to nature. It sure beats an old, heavy 1950 vintage receiver hobbling along on dead RF and IF tubes.

#### TUBES AND TRANSISTOR COMPLIMENT

3GA5	VHF RF Amplifier & UHF IF Amp	38HE7	Horizontal Output & Damper
5GS7	VHF Mix. & Osc. & UHF IF Ampl	1X2B	HV Rectifier
4BZ6	1st Picture IF Amplifier	10JY8	Video Amplifier & Sound IF Amp
4EJ7	2nd Picture IF Amplifier	12CN4A	Picture Tube
17BF11	Sound IF Detector & Audio Output	2SC684	UHF Osc.
2Z29	Vertical Osc. & Vertical Output & Sync. Separator		MPS6543, 2SC387A, or T1S18
6GH8A	Horizontal Osc. & Keyed AGC		
or 6LN8			

# STATISTICS

DECEMBER      Deadlines:  
1972            13 December  
                  12 January

Editor:  
Glenn Hauser  
Box 62  
Von Army TX 78073  
  
REPORT !

## TV SCOREBOARD

Note: Next time you report (those asterisked must do so by 12 Feb to remain listed), please include the following additional totals: number of UHF translators received; number of stations received via meteor scatter; number of Mexican estados received; and "lands" will be converted to cover only countries outside the USA, Canada and Mexico.

Dxer.	Location	Stns	UHF	Es	States	Froy	Lands	YB	As of!
	Robert Seybold, Dunkirk NY	591	202		49+DC	8	6	50	10 Nov
	Bill Draet, Kewaunee WI	477	164	138	41+DC	6	3	53	16 Aug
	Robert Cooper, Oklahoma City OK	458	170		40+DC	4	8	69	9 Nov
	Roger Brown, East Lansing MI	377	165	84	41+DC	6	4	57	6 Nov
*	John Parillo, Girard OH	313	69	108	34+DC	5	3	51	2 Jun
*	Gary Olson, Deerfield area IL	312	101				5		20 May
	Don Ruland, Kenosha WI	278	115	33	31	5	2	71	9 Nov
*	Fred Mc Cormack, Des Lacs ND	275	30	168	40+DC	6	3	64	8 Aug
	Ron LeBlanc, Marrero LA	272	60	74	32	3	9	67	29 Oct
	Glenn Hauser, San Antonio area TX	267	66	95	37	1	7	71	14 Nov
	Frank Wheeler, Erie PA	240	40	108	32+DC	9	3	55	11 Nov
	Jerry Pulice, Staten Island NY	228	75	72	34+DC	3	3	62	6 Nov
	J. Joel Rosenberg, Downsview Ont	213	99	60	30	4	2	69	1 Oct
*	Les Prus, Manhattan KS	206	10	116	33+DC	5	3	69	8 Aug
	Tom Yingling, Dundalk MD	200	68	57	33+DC	5	3	70	1 Oct
	Pat Dyer, San Antonio TX	166	11	86	34	2	6	59	10 Nov
	Ron Hade, Rockford IL	154	40	24	28+DC	3	3	70	1 Sep
*	Larry Vogt, Springfield VA	151	62	46	30+DC	2	3	62	15 May
	Dave Egan, Valleyfield PQ	150	7	55	31+DC	5	3	67	8 Sep
*	Dennis Smith, Wasco CA	147	26	89	25	3	3	54	8 Aug
*	Paul Luchter, Oceanside LINY	146	52	57	29+DC	4	2	67	10 Aug
	Al Kopec, Himrod NY	142	15	73	25	6	2	52	25 Aug
	Jim Hayes, Wilkes-Barre PA	125	10	73	26+DC	4	2	69	24 Aug
	Fred Nordquist, North Syracuse NY	116	21	34	23	2	3	69	6 Nov
	Hauser, Calvert-Franklin-Bremond TX	115	54	0	13	0	2	72	9 Nov
*	Joe Kureth, Maryland	82	28	21	20+DC	0	2	65	26 May
	Randy Miltier, Campbell CA	68	19	33	13	2	3		7 Nov
	John Zondlo, Hammond IN	64	20	7	14	2	2	71	12 Sep
	Peter Sawatzky, Waterloo Ont	60	25	5	10	2	2	71	1 Oct
*	Morris Sorensen, Emsdale Ont	51	0	27	14	1	2	66	13 Jun
	Jeffrey Hotchkin, Oneonta NY	42			16				7 Oct
	Ken Simon, Miami FL	37	6	16	10	1	5	67	17 Aug
*	Dennis Smith, Santa Barbara CA	35	12	8	4	0	2	51	8 Aug
	Walter W. Windish, Woodcliff Lake NJ	31	31	0	7	0	1	72	22 Sep
	Ken Simon, Gainesville FL	21	0	0	4	0	1	66	17 Aug
*	Dave Egan, Valleyfield PQ	(vfd) 125			31+DC	4	2	67	1 Aug

## 103 MHz FM DX RECORDS

MHz	Prop	Call	Location	Miles	Dxer.	Location
103.1	Es	KWXY-	Cathedral City CA	1205	Glenn Hauser,	Calgary Alta
	Tr	KROA	Aurora NE	505	Bruce Elving,	Duluth MN
	Au	KJAM-	Madison SD	360	Fred Mc Cormack,	Des Lacs ND
103.3	Es	WESR-	Tasley VA	1485	Fred Mc Cormack,	Des Lacs ND
	Tr	KEEE-	Nacogdoches TX	975	Carlton Howington,	Uniontown OH
	MS	WBTM-	Danville VA	1015	Glenn Hauser,	Enid OK
103.5	Au	WKDA-	Nashville TN	445	Frank Merrill,	Milan MI
	Es	KOA-	Denver CO	1345	Robert Seybold,	Dunkirk NY
	Tr	WSHE	Fort Lauderdale FL	730	Richard Wood,	Baton Rouge LA
103.7	MS	KYSM-	Mankato MN	575	Glenn Hauser,	Enid OK
	Au	KOA-	Denver CO	695	John Ebeling,	Bloomington MN
	Es	KGO-	San Francisco CA	1370	Robert Cooper,	Oklahoma City OK
103.9	Tr	WEZW	Wauwatosa WI	740	Fred Mc Cormack,	Des Lacs ND
	Au	WFU	Bloomington IN	520	John Ebeling,	Bloomington MN
	Es	KGRD	Las Cruces NM	1265	Bruce Elving,	Duluth MN
	Tr	WLEN	Adrian MI	520	Bruce Elving,	Duluth MN

STATISTICS

CHANNEL 2 MS TV DX RECORDS

DECEMBER 1972

Call	Location	Miles	DXgr.	Location	Comments/Logos
KOAI	Flagstaff AZ	785	Robert Cooper,	Oklahoma City OK	
KNXT	Los Angeles CA	955	Gene Webb,	Seattle WA	
KTVU	Oakland CA	575	Doris Johnson,	Longview WA	
KWGN-	Denver CO	1085	Ron LeBlanc,	Marrero LA	was KFEL, KCTO, KTVR
WESH-	Daytona Beach FL	1090	Glenn Hauser,	Enid OK	
WSB-	Atlanta GA	955	Dave Egan,	Valleyfield PQ	
KBOI-	Boise ID	370	Doris Johnson,	Longview WA	
WBMB-	Chicago IL	920	Ghislain Girard,	Arvida PQ	
WTWO	Terre Haute IN	790	Dave Egan,	Valleyfield PQ	
WMT-	Cedar Rapids IA	1240	Morris Foote,	Middleton ID	
KCKT	Great Bend KS	1335	Doris Johnson,	Longview WA	
WBRZ	Baton Rouge LA	1340	Armand Pelland,	Woonsocket RI	
WTWO	Bangor ME	1090	Barney Rauch,	Peoria IL	now WLBZ
WMAR-	Baltimore MD	1165	Glenn Hauser,	Enid OK	
WGBH-	Boston MA	920	John Owen Broomall,	Atlanta GA	
WJBK-	Detroit MI	945	Ed Bourgeois,	Norco LA	
KTCA-	Saint Paul MN	1070	Ghislain Girard,	Arvida PQ	
KFBEQ-	Saint Joseph MO	1225	Jim Grover,	Crossfield Alta	now KQTV
KTVI	Saint Louis MO	945	Dave Egan,	Valleyfield PQ	
KOOK-	Billings MT	995	Ken Neal,	Hamlin TX	
KNOP-	North Platte NE	1155	Doris Johnson,	Longview WA	
KLRJ-	Henderson NV	1385	Barney Rauch,	Peoria IL	now KORK-3
WGR-	Buffalo NY	1100	Glenn Hauser,	Enid OK	
WCBS-	New York NY	1185	Les Prus,	Manhattan KS	was WCBW
WKTV	Utica NY	860	B. J. Bingham,	Festus MO	
WFMY-	Greensboro NC	1000	Glenn Hauser,	Enid OK	
KDIX-	Dickinson ND	1205	William Nieman,	Buffalo NY	
WLND	Dayton OH	1095	Pat Dyer,	Gunbarrel Hill CO	
KVOO-	Tulsa OK	1195	Morris Foote,	Middleton ID	now KTEW
KOTI	Klamath Falls OR	495	Gordon Simkin,	Idaho Falls ID	
KATU	Portland OR	745	Jim Pizzi,	Orcutt CA	
KDKA-	Pittsburgh PA	925	Ed Bourgeois,	Norco LA	
WUSN-	Charleston SC	1050	Glenn Hauser,	Enid OK	now WCBU
KUSD-	Vermillion SD	435	Fred McCormack,	Des Lacs ND	
KPRC-	Houston TX	1120	Bill Draeb,	Kewaunee WI	
KMID-	Midland TX	1215	Ken Moses,	Newton NC	
KUTV	Salt Lake City UT	740	Jim Grover,	Crossfield Alta	
WBAY-	Green Bay WI	1005	Ed Bourgeois,	Norco LA	
KTWC-	Casper WY	850	Doris Johnson,	Longview WA	
CHCT-	Calgary Alta	525	Gordon Simkin,	Idaho Falls ID	now CFAC
			tie	Doris Johnson,	Longview WA
CHBC-	Kelowna BC	305	Doris Johnson,	Longview WA	
"CBUT"	Vancouver BC	890	Robert Cooper,	Fresno CA	
CJIC-	Sault Ste. Marie Ont	785	Robert Berg,	Norfolk VA	
"CBFT"	Montréal PQ	680	Bill Draeb,	Kewaunee WI	
CKCK-	Regina Sask	1235	Ken Neal,	Hamlin TX	



now WLBZ

now KORK-3

was WCBW

now KTEW

now WCBU

KPRC-TV

now CFAC



Have you seen WDIQ, KETS, WTHS/WPBT, KTVN, WUND, WDCN, WSJK, KREM by NS? Report a record!

CHANNEL 70 TV DX RECORDS

K70CL	Fort Dodge IA	530	Fred McCormack,	Des Lacs ND	KRNT-8
K70EK	Arkansas City KS	110	Robert Cooper,	Oklahoma City OK	KTVH 12
K70EN	Manhattan KS	255	Robert Cooper,	Oklahoma City OK	KAKE-10
K70EZ	Bemidji MN (now K72DT)	315	Fred McCormack,	Des Lacs ND	KDAL-3
K70EU	Olivia MN	395	Fred McCormack,	Des Lacs ND	KMSP-9
K70AU	Gulfpport MS	75	Ron LeBlanc,	Marrero LA	WWL-4
K70CI	Columbus ND	70	Fred McCormack,	Des Lacs ND	KXHC-13
WBGU-	Bowling Green OH	260	Ferdinand Dombrowski,	Milwaukee WI	
			tie	Michael Levstein,	Downsvlew Ont
K70AO	Boise City OK	285	Robert Cooper,	Oklahoma City OK	KGNC-4
K70BI	Big Lake TX	300	Glen Neal,	Sayre OK	KOSA-7
K70DA	Childress etc TX	70	Glen Neal,	Sayre OK	KFDX-3
K70DB	Clarendon TX	190	Robert Cooper,	Oklahoma City OK	KGNC-4
K70CF	Higgins-Canadian TX	60	Glen Neal,	Sayre OK	KGNC-4
K70FD	Leakey TX	75	Glenn Hauser,	Von Ormy TX	WQAI-4
K70FK	Mason TX	100	Glenn Hauser,	Von Ormy TX	KSAT-12
K70AO	Fond du Lac WI	145	Harry Hein,	Chicago IL	WISN-12

**KTVH 12** Primary  
*television*  
**10 13 kakeland** KRNT-8  
 KTVH 12  
 KAKE-10  
 KDAL-3  
 KMSP-9  
 WWL-4  
 KXHC-13

now KGNC-4; KFDX-3



Previously published non-DX translator "records" under 25 miles are omitted. 73 de Glenn



# VHF UTILITY DX

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

DECEMBER 1972

...drastic solar events can change things. They sure did (for a while)! The highest US F2 MUF noted since January 1971 appeared October 23. Solar activity at a level much like early August really drove the MUF's up and provided a multitude of solar radio noise bursts in 30-50 Mhz. See later.

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

<u>8-1:</u> 1513, KIG 730	37.26	Crossville, TN (police, 100 w)	/(25 w)
<u>8:</u> 2142, G-ARVG	128.3	39°05'N-74°48'W (BOAC, Speed Bird Flt 500, VC-10)	
<u>13:</u> 2212, N8014U	119.25	s Philipsburg, PA (United Flight 83; 25 w)	
2348, N1810U	119.25	same (United 29; 25 w)	
<u>14:</u> 0038, N8010U	119.25	same (United 15; 25 w)	
<u>19:</u> 2123, N4783L	119.7	MD (Stanley C. Strauss; Piper Cherokee PA-28-180)	
<u>20:</u> 1527, N3454T	119.7	se Friendship Airport, Baltimore, MD (Hop Flight, Inc.; Cessna Cardinal 177; 1-eng, 4-seat; 8w)	
1527, N5454Y	119.7	ov Stevensonville, MD (Safmag Enterprises, Inc.; Piper Aztec PA-28-280; twin-engine, 6-seat)	
<u>26:</u> 1924, N6211Y	119.7	ov Chesapeake Bay Bridge, MD (Maryland State Police; Piper Aztec-23-250G; 2-engine, 6-seat; 5 w)	

Now, my loggings. Allied A-2586 with 30-ft indoor random wire antenna; all are F2 unless noted; bs-backscatter; daily US F2 MUF peak noted if unID 37 or more, other F2 if 40 or more; 50-MHz Es not given; new underlined; CST.

<u>10-13:</u> 1410, 41.5	21: 1447, KCB 526	23: 1335, KOK 418
1500, KGL 706	1500, KDA 383	1339, <u>KED</u> 661
1640, KLF 527	<u>22:</u> 1058, KLR 503	1352, KGB 827
<u>15:</u> 1700, KLF 527	1139, KCC 482	1356, <u>KCE</u> 691
<u>16:</u> 0849, KIN 645 (Es)	1140, KCF 313	1357, <u>KEJ</u> 451
1615, KIY 508 (Es)	1145, KCB 897	1358, KGC 524
1633, OK City (Es)	1208, KCF 801	<u>KEE</u> 873
1641, KAI 927 (Es)	1212, <u>KED</u> 411	1401, KOG 634
1830, KLF 527	1224, KLF 527	1402, KCF 801
KSJ 815 (Es)	1300, KCA 695	1404, KCA 591
2043, KSC 645 (Es)	1304, <u>KCH</u> 677	1415, <u>KCE</u> 763
KFL 880 (Es)	1315, OK City (Es)	1429, <u>KCE</u> <u>358</u>
<u>17:</u> 0002, KFL 936 (Es)	1323, <u>KEE</u> 720	1434, Portland
0129, KAI 927 (Es)	1358, KGC 524	1442, KCD 395
0144, KME 438 (Es)	1359, <u>KEE</u> 873	1445, KOP 303
1116, KSJ 815 (Es)	KGE 831	1458, KLR 503
1543, KIY 508 (Es)	1400, <u>KEJ</u> 451	1500, KCC 907
1559, KIN 645 (Es)	1410, KCG 491	1537, KCD 498
1640, KLF 527	1447, KCA 585	1543, Eugene
2250, KSC 644 (Es)	1501, KCD 244	<u>24:</u> 1049, KLR 503
2255, KSA 775 (Es)	1920, L Beach (Es)	1100, KGA 591
2357, OK City (Es)	<u>23:</u> 1150, <u>KCB</u> <u>281</u>	1143, KCE 681
<u>18:</u> 1100, L Beach (Es)	1155, KCC 482	1152, KCC 482
1157, <u>KMD</u> <u>340</u> (Es)	1205, KFL 936 (bs)	1155, KCC 897
1430, KLF 527	1225, KLF 527	1259, KCA 695
<u>19:</u> 1913, L Beach (Es)	1228, KCB 897	1302, KCG 651
<u>21:</u> 1400, KCD 244	1230, KGE 831	1315, <u>KCF</u> 246
KDB 386	KJY 884	1316, KCF 596
KCA 695	1231, <u>KGC</u> <u>748</u>	1320, KCD 244
1401, KBZ 283	1233, Scranton	KOG 634
1404, <u>KCE</u> <u>763</u>	1237, Wilkes-Barre	1335, KCG 491
1406, KCC 482	1240, KGC 223	1355, 41-Spanish
1417, KCD 353	1245, 37-NY (LI)	1403, KDB 386
1422, KCE 584	41-Spanish	1405, <u>KCD</u> <u>574</u>
KCC 921	1255, 39-NY?	1540, KLF 527
1447, <u>KCD</u> <u>471</u>	1327, KCA 796	<u>25:</u> 1100, KCA 591

WHF UTILITY DX

DECEMBER 1972

25: 1146, KCB 999	28: 1100, KED 944	29: 1323, KGD 951
1155, KGC 482	KEE 720	1356, KCE 691
1200, KCA 695	KEG 253	1400, KGC 524
1223, KCE 287	1116, KOG 634	KCA 695
1229, KCA 378	1129, KCA 378	1413, KGE 347
1232, KCF 246	1137, KCG 651	1417, KCF 313
1300, KJE 934	1150, Portland	30: 1110, 47-Spanish
1400, KCD 574	1158, KCD 498	31: 1540, KOP 303
1402, KCG 634	1200, KCD 346	KOA 796
1440, KLF 527	KCA 695	1558, KCE 681
26: 1016, KCD 498	1203, Eugene	1559, KCC 672
1040, KCD 288	1204, KOA 796	KCA 695
1100, KCA 591	1236, KOP 418	1601, KLF 953
KCA 695	1237, KCD 598	1605, KCF 482
1117, KCC 482	1239, KCD 344	1611, KOP 418
1132, KCB 897	1247, KCE 681	Portland
1159, KCD 344	1300, KBZ 283	1615, 37-US
1200, KCB 844	1401, KCD 244	1617, KMB 305
1206, KCE 816	1402, KCD 472	1644, KCD 344
1207, KLF 527	1434, KCB 999	1647, KEG 253
1219, KCD 580	1450, KCG 825	1658, KCY 582
1231, KCD 455	1456, KCE 584	1659, KCD 244
1242, KCD 574	1457, KCE 280	KCD 353
1330, KCC 825	1515, KCF 617	1704, KFL 936 (bs)
27: 0900, KCA 695	29: 1057, KOA 796	1705, Oakland
0939, KLR 503	1100, KGA 410	1713, KCD 346
1123, KCD 598	KCD 915	1715, KCF 801
1134, KCA 633	1102, Eugene	1717, KCC 705
KCF 246	1110, KCC 482	1725, KCD 457
1146, KCN 575	1117, KLF 527	1726, KCC 493
1600, KGL 706	1123, KGC 223	1728, KCE 527
28: 0917, KCC 482	1126, 45-Spanish	11-1: 2245, KTY 508 (Es)
0929, KCF 569	1129, KGE 831	2: 2017, FMA 829 (Es)
0937, KGC 754	KJY 884	2018, L Beach (Es)
0940, New York	1131, KCF 954	5: 2151, KFL 936 (Es)
0959, KGH 954	1142, KCB 897	2225, KOC 877 (Es)
KEJ 451	1155, Scranton	2228, KBJ 815 (Es)
1000, KCE 526	1200, KGD 273	2248, KSC 645 (Es)
1005, KBS 321	1216, 37-US (NY?)	6: 1244, KBJ 815 (Es)
1024, KCC 957	1230, KGE 450	1246, KQD 313 (Es)
1032, KCE 691	1253, KGB 973	1258, KCC 877 (Es)
1040, 40+ Spanish	1255, KOK 418	1324, KQD 607 (Es)
1045, KGD 390	1300, KGA 361	
1100, KGB 857	KGD 214	

FBI 927 35.34	Denver, CO	KCC 957 33.70	Bethel, CT-f
KBS 321 33.78	Seaside Park, NJ-f	KCD 244 33.70	Falmouth, MA-f
KBZ 283 33.9	Gilford, NH-f	KCD 288 33.90	Hollis, NH-f
KCA 378 33 +	New Haven, CT-f	KCD 344 33.94	Blue Hills, CT-vf
KCA 410 33.9	Wareham, MA-f	KCD 346 33.90	Tolland, CT-f
KCA 585 33 +	Plymouth, MA-f	KCD 353 33.70	Lancaster, MA-f
KCA 591 33.74	Boston, MA-f	KCD 395 33.90	Brooklyn, CT-f
KCA 633 33.90	Middleboro, MA-f	KCD 455 33.90	Montville, CT-f
KCA 695 33.78	Manchester, NH-f	KCD 457 33.90	Nystic, CT-f
KCB 280 33.98	Waterbury, CT-f	KCD 471 33.70	Wells, ME-f
KCB 281 33.90	Bridgewater, MA-f	KCD 472 33.92	Windsor Locks, CT-f
KCC 526 33.70	Kennebunkport, ME-f	KCD 498 33.70	Sandwich, MA-f
KCB 844 33.70	Greenfield, MA-f	KCD 574 33.70	Eastham, MA-f
KCB 897 35.66	Portland, ME	KCD 580 33.86	Trumbull, CT-f
KCB 999 33.78	Burlington, VT-f	KCD 598 33.54	Athol, MA-f
KCC 482 35.22	Concord, NH	KCD 915 33.90	Wareham, MA-f
KCC 493 33.94	Simsbury, CT-f	KCE 287 33.94	Rocky Hill, CT-f
KCC 672 33.94	S Windsor, CT-f	KCA 358 33.54	Greenfield, MA-f
KCC 705 33.70	Holden, MA-f	KCE 526 33.70	Bethlehem, CT-f
KCC 825 33.70	Kennebunk, ME-f	KCE 527 33.70	Woodbury, CT-f
KCC 907 33.70	Blue Hills, ME-f	KCE 584 33.90	Poquonock Br, CT-f
KCC 921 33.90	Old Lyme, CT-f	KCE 681 33.70	Rockland, ME-f



KCE 691	33.86	Weston, CT-vf	KGD 390	33.94	Boyertown, PA-f
KCE 763	33.94	Avon, CT-cf	KGD 951	33.70	Wilmington, DE-f
KCE 816	33.94	Southington, CT-f	KGE 450	33.98	Allentown, PA-cf
KCF 246	33.90	Marshfield, MA-f	KGE 831	33.78	Wilmington, DE-cf
KCF 313	33.66	Andover, MA-f	KGH 347	33.86	Honesdale, PA-f
KCF 569	33 +	Tolland, CT-f	KGL 706	30.86	New York, NY-t
KCF 596	33.86	Brookfield, CT-cf	KIN 645	35.22	Miami, FL
KCF 617	33.7	Middlebury, CT-cf	KIY 508	35.22	Orlando, FL
KCF 801	33.70	East Haven, CT-f	KJE 934	33.90	Rochester, MA-f
KCG 491	33.70	Wallingford, CT-f	KJY 884	33 +	West Chester, PA-cf
KCG 651	33.70	Derby, CT-f	KLF 527	35.22	Honolulu, HA
KCH 677	33.70	Fitchburg, MA-cf	KLH 953	33.90	Belmont, NH-f
KCH 954	33.70	N Branford, CT-f	KLR 503	33.02	Boston, MA-h
KCN 575	33.70	Princeton, MA-f	KMA 829	35 +	San Diego, CA
KCY 582	33.54	Franklin, MA-f	KMB 305	35.22	San Francisco, CA
KDA 383	33.90	Milford, NH-f	KMD 349	35.58	Bakersfield, CA
KDB 386	33.66	Pepperell, MA-f	KME 438	35.22	Orange, CA
KED 411	33.86	Cliffside Park, NJ-f	KOA 796	35.58	Portland, OR
KED 661	33.82	New Market, NJ-f	KOG 634	33.82	Kent, WA-f
KED 944	33.86	E Paterson, NJ-f	KOP 303	35.46	Langley, WA-mp
KEE 720	33.78	Millburn, NJ-f	KQC 877	35 +	Cincinnati, OH
KEE 873	33.86	Salem, NJ-f	KQD 313	35.50	Dayton, OH
KEF 954	33.86	Mahwah Twp, NJ-f	KQD 607	35.50	Grand Rapids, MI
KEG 253	33.82	Fords, NJ-f	KSA 775	42 +	Macomb, IL-sp
KEJ 451	33.78	Toms River, NJ-cf	KSC 644	43.58	Chicago, IL
KFL 880	35.22	Greenville, SC	KSC 645	35.58	Chicago, IL
KGA 361	33.86	Hyattsville, MD-cf	KSJ 815	35.22	Fort Wayne, IN
KGB 827	33.90	Berwyn, PA-f	-	35.26	Eugene, OR-mp
KGB 857	33.70	Harmonville, PA-f	-	35.58	Long Beach, CA
KGB 973	33 +	Claymont, DE-f	-	35 +	New York, NY-mp
KGC 223	35.22	Philadelphia, PA	-	35.46	Oakland, CA-mp
KGC 524	33.78	Dover, DE-sf	-	35.58	Oklahoma City, OK
KGC 748	33.90	Quarryville, PA-f	-	35.26	Portland, OR-mp
KGC 754	33.90	Ephrata, PA-f	-	35.58	Scranton, PA
EGD 214	33.90	York, PA-cf	-	35.22	Wilkes-Barre, PA
KGD 273	33.98	Bel Air, MD-cf			

c-county      h-hospital      p-police      t-transit      (others are  
f-fire      mp-mobile phone      s-state      v-volunteer      pagers)

A2 tone ID's used by: KAI 927, KCB 897, KFL 880, KFL 936, KIN 645, KMA 829, KMB 305, KMD 349, KME 438, KOP 303, KOK 418, KQC 877, KQD 313, KQD 607, KSC 645, and KSJ 815.

During the October 16 evening Es the east coast had several paths open into Argentina on 50-MHz Es-TE links.

A west coast publisher may soon be coming out with an under \$5 book listing the principal VHF Public Safety users in the US. More details when available.

In response to some questions on it, I only list call letters for pagers and mobile phones when they are used in on-the-air ID's. Using KMD 344 here when 'Long Beach' is the only ID ever given seems non-productive.

If the 27-day repeat of late October's F2 activity returns this, unfortunate as it is, will be too late to warn you in time. As the October 23 east-west EUF could have reached the 43-MHz pagers, reports from either coast are earnestly desired.

Also, with some more-reliable meteor showers coming, the opportunity for logging the pagers at very close range exists. Monitoring the 162.4-.55 weather cast could also be rewarding with a good burst.

# WESTERN TV DX

Dennis Park Smith  
 1200 W. Sacramento Ave., #15  
 Chico, California 95926  
 Telephone 916 343-3863  
 Deadlines: 12th of each month

December 1972

Tropo DX was actively observed in October, though Es and MS were not neglected, either. The big activity was in a number of tropo sessions. 24-28 October saw DXers in Kansas monitoring Iowa, Illinois, Minnesota and Michigan up to 650 miles, and reporters in Oklahoma and Texas catching Louisiana, Mississippi, Georgia, Kentucky and Florida to 880 miles; and again on 2, 8, 9 November to 1000 miles on UHF and several hundred on VHF. Some of the surprise Es showed high MUF's, with apparently separate openings in mornings and evenings of the same days involved.

Es dates:	October 16-16		17-17		18 30	
	AM	PM	AM	PM	AM	PM
Number of reporters:	1	3	1	2	1	2
MUF at least (ch/freq):	6	91.5	2	6	2	2

Dave Pomeroy, KTWU Channel 11, Washburn University, Signal Hill, Topeka, Kansas 66604  
 (Home address: 5231 W. 31st Street, Topeka, Kansas 66606) (October) (CDT)

Here is my first DX report from Topeka. It's kind of fun to have every station new for a while. Not much to mention except for a pretty good tropo opening to Wisconsin and Michigan on October 27. Locals here are KTWU 11, WIBW-13, KTSB 27. All stations listed are new. Total is 32.

1 Tr 2300 KCBJ 17 Columbia MO	(26)(Tr) 0800 KDNL-30 St. Louis MO
13 Tr 1245 KMEG 14 Sioux City IA	0801 K34AA 34 Salina KS
24 Tr 2300 KHTL- 4 Superior NE	27 Tr 0800 WMTV 15 Madison WI
KGIN-11 Grand Island NE	0801 KRNT- 8 Des Moines IA
KHQL- 8 Albion NE	0845 WCEE-23 Freeport IL
2330 KLINE- 3 Lexington NE	0859 WKAR-23 East Lansing MI (65Omi)
26 Tr 0700 K18AA 18 Salina KS	1000 WUHQ 41 Battle Creek MI
0705 unId 70 or 71	1108 WHA -21 Madison WI
(Manhattan or Herrington KS)	1110 WPNE 38 Green Bay WI
0715 WIGD 15 Champaign IL	1134 KDUB-40 Dubuque IA

Les Prus, 1615 Pierre Street, Manhattan, Kansas 66502 (1-31 October) (CDT)

Lack of time and equipment problems have plagued me for the last couple of months. My lack of DX during the September tropo openings was discovered to be a broken lead-in wire, which was repaired in early October—alas, too late. Soon after, my rotor control box gave up the ghost, and my conical is now aimed northeast in an attempt to log some MS from MI, WI, MN.

	Miles
6 MS 0055 WTAE- 4 Pittsburgh PA	900 (25)(Tr) 0555 WFAA- 8 Dallas (Id, s/on) 450
0125 WSM - 4 Nashville (Id/bullseye) 570	0600 KTVT 11 Ft. Worth TX 450
14 Tr 0200 KMOX- 4 St. Louis MO (weak) 350	0610 KMTV 9 OK City (Id/wedgeTF) 250
All below w/antenna pointed northeast!	0615 KRNT- 8 DesMoines(" " " ) 230
25 Tr 0315 KMOX- 4 St. Louis MO	350 0658 KWWL- 7 Waterloo IA 330
(Id, movie, s/off later.	MS DX mornings on ch 4 unIds. See
0545 a 1/2 CB, then s/on)	details in CCI column. 73.

Bob Cooper, Jr., 4670 Willard, Oklahoma City, Oklahoma 73105 (1 Oct - 9 Nov) (CDT)

The majority of the fall tropo has been north or east of us this year judging from reports in the Digest and my own observations. The "jet streams" have been out of place most of the year, and apparently the normal tropo patterns have been misshapened (to our disadvantage but to the advantage of others) as well. I am far from re-set up after my move last April, and the slow growth in totals here reflects that. Virtually no summer DXing was done although the little bit of Es logged here when time permitted did net a couple of new ones including a mysterious YSU-TV on channel 3. Glenn Hauser and I feel this one may be a repeater station actually located in Honduras. DX reporting for the period October 1 to November 9 morning includes:

(Underlined time indicates tune-in time)	Miles
2 Tr 0815 KDNL-30 St. Louis MO	458 (8)(Tr) 0557 WTWV 9 Tupelo MS N 540
7 Tr 2100 WKYT-27 Lexington KY	740 0600 WAPI-13 Birmingham AL 625
KDNL-30 St. Louis MO	458 10 Tr 0755 KFDW-12 Clovis NM 320
2115 WHBQ-13 Memphis TN	420 11 Tr 2105 WAPT 16 Jackson MS 473
2200 WMAV 18 Oxford Univ. MS	N 450 2110 KHTV 39 Houston TX 420
2215 WAAY-31 Huntsville AL	623 WRBT 33 Baton Rouge LA 504
2257 WHNT-19 Huntsville AL	623 13 Tr 2130 KDNL-30 St. Louis MO 458
8 Tr 0010 WBMG 42 Birmingham AL	630 16 Es 1836 WESH- 2 Daytona Beach FL

(16)(Es) 1940	WPBT	2	Miami FL		(25)(Tr) 0536	WAFB- 9	Baton Rouge LA	504
17 Tr 0745	WHEQ-13		Memphis TN	420	0545	KFVS-12	Cape Girardeau MO	430
Es 1800,	east, NE				0546	KALB- 5	Alexandria LA	410
2030	WTAR- 3		Norfolk VA		0550	KNOE- 8	Monroe LA	375
	WMAA- 2		Baltimore MD		0556	WJTV 12	Jackson MS	473
2100	WUND- 2		Columbia NC		0610	KHMA 11	Huoma LA	N 570
2102	WWAY- 3		Wilmington NC		0611	KHFI-42	Austin TX	359
19 Tr 2126	WMAH 19		Biloxi MS	N 635	0635	KTVG 6	Dodge City KS	
	WMAA 29		Jackson MS	473	0640	KLNI-15	Lafayette LA	480
	WMAU 17		Bude MS	505	0720	WJSP-28	Columbus GA	749
	WAPT 16		Jackson MS	473	WDCC-15	Cochran CA	N 825	
2135	WMAW 14		Meridian MS	580	0733	WMAU 17	Bude MS	505
	WDHN-18		Dothan AL	760		WMAH 19	Biloxi MS	635
2155	WEIQ 43	(WEIQ 42 Mobile or WGIQ				WMAV 18	Oxford MS	450
	43 Louisville AL, Bob? cps)	N740			0750	WMAA 29	Jackson MS	473
2200	WLOX-13		Biloxi MS	635	Out of town and missed the biggy the 26th.			
2203	WBMG 42		Birmingham AL	630	27 Tr 2100	KHTV 39	Houston TX	420
2227	WHEQ-13		Memphis TN	420	30 MS 0617	WMT - 2	Cedar Rapids IA	
2336	WAAY-31		Huntsville AL	623	Es 2100	weak- 2	(west, probable KNXT CA)	
2350	WHNT-19		Huntsville AL	623	18 Tr	Missed morning session Glenn caught, but...		
2352	WMSL-48		Decatur AL	610	1800	WAPT 16	Jackson MS	473
20 Tr 0021	WJTV 12		Jackson MS	473		WMAA 29	Jackson MS	473
0515	WLOX-13		Biloxi MS	635	1838	WMAO 23	Greenwood MS	N 420
0520	KNOE- 8		Monroe LA	375		( ... for the last Mississippi UHF)		
0557	WJTV 12		Jackson MS	473	1913	WMAV 18	Oxford MS	450
0706	WMAU 17		Bude MS	505		WMAU 17	Bude MS	505
0718	WMAV 18		Oxford MS	450		WMAH 19	Biloxi MS	635
1000	WAPT 16		Jackson MS	473	1920-2000	in/out, peaking 1930 conveniently.		
23 Tr 2140	KHTV 39		Houston TX	420	WXLN 40	Sarasota FL	N1049	
24 Tr 1905	WAPT 16		Jackson MS	473		(UHF state #23)		
1920	KHTV 39		Houston TX	420	1955	WRBT 33	Baton Rouge LA	502
2055	KHNE-29		Hastings NE	345	2026-2040			
	WMAA 29		Jackson MS	473	WTOG 44	St. Petersburg FL	N1021	
2102	WRBT 33		Baton Rouge LA	504	2028	WMAW 14	Meridian MS	580
2107	KVUE 24		Austin TX	359	VHF was very hot for entire evening			
2112	KEDT 16		Corpus Christi TX N 530		period also, but with virtually no			
	(ø offset to KUIH MO & WAPT MS)				chance of any new stations, all			
2120	KVRL 26		Houston TX	420	bird-dogging was done on UHF.			
	KHFI-42		Austin TX	359	2100	WGNO-26	New Orleans LA	575
2125	KNCT 46		Belton TX	340		KVRL 26	Houston TX	420
	KWEX-41		San Antonio TX	420		KHTV 39	Houston TX	420
2139	WGNO-26		New Orleans LA	575	2150	KLNI-15	Lafayette LA	480
2140	WMAH 19		Biloxi MS	630	2202	WJTV 12	Jackson MS	473
2142	KLNI-15		Lafayette LA	480	2 Tr 0005	WLOX-13	Biloxi MS	635
2203	WLOX-13		Biloxi MS	635		to KTRK 13	Houston TX	420
2204	WMAU 17		Bude MS	505	0035	KHOU-11	Houston TX	420
2205	KCBJ 17		Columbia MO	360		KNOE- 8	Monroe LA	375
25 Tr 0510	KCLN-10		Lincoln NE	370		KLFY-10	Lafayette LA	500
	WHO -13		Des Moines IA	471		WVUE 8	New Orleans LA	575
0521	KLFY-10		Lafayette LA	500				73.

Pet Dyer, 5315 Silvertip Drive, San Antonio, Texas 78228 (10 Oct - 10 Nov) (CST)

Receiver: 1971 model Penncrest 9-inch black-and-white

Antennas: 6-el. hi-low VHF Yagi and 8-bay UHF bow-tie at 12 feet

14 Tr 1029	KCTV 8	San Angelo TX	N 180					<u>Miles</u>
16 Es 1805-2015	2-6	unids		(25)(Tr) 2000	KVRL 26	Houston TX	185	
17 Es 1030-1120	2	unids		2340	WBAP- 5	Fort Worth TX	240	
2100	WMT - 2	Cedar Rapids IA	950	26 Tr 0003	KBFI 33	Fort Worth TX	240	
2105	KDLO- 3	Watertown SD	1085		KDFW- 4	Dallas TX	250	
2125	KWGN 2	Denver CO	800	30 Es 1845	unId 2	(likely west)		
	unIds 2-6			NI Tr 2250	KEDT 16	Corpus Christi TX N 135		
Tr 2105	KJAC- 4	Port Arthur TX	280		2353	KVRL 26	Houston TX	185
2320	KDFW- 4	Dallas TX	250	2 Tr 1805	KVRL 26	Houston TX	185	
2335	WBAP- 5	Fort Worth TX	240	8 Tr 2300	unIds 7,8,9,12			
18 Es 1155	unId 2			2359	WFAA- 8	Dallas TX	250	
25 Tr 1710	KNCT 46	Belton TX	135	2 Tr 0030	KDFW- 4	Dallas TX	250	
1759	WFAA- 8	Dallas TX	250		0033	WBAP- 5	Fort Worth TX	240
1930	unIds 16,33,39	(maybe WRBT 33)		0055	KALB- 5	Alexandria LA	385	

(Pat Dyer's comments:)

Probably the best October showing of TV Es here since 1965. Some good trop, but apparently not as wild here as elsewhere (or last year).

Meteor levels Nov 7-9 seemed to be on the rise, and perhaps we'll have a good Leonid event coming. (I see as least I wasn't the only one who responded to the October false-alarm Giacobinids.) 73, WA5IYX.

Glenn Hauser, c/o Box 62, Von Ormy, Texas 78073

(4 Oct - 7 Nov) (CST)

This month I DXed both from Von Ormy, and from a triangle of towns some 150 miles northeast, Calvert, Franklin and Bremond. Spent a week at each doing signal surveys for CADCO...with a 65' crank-up tower, 7' FINCC UHF dish, low and high band VHF log antennas, and an ordinary Magnavox 14" color TV, using a CMA-U amp with the receiver's built-in UHF tuner; and a CDR TR-44 rotor. The Gulf costal tropo season got underway early in October in Von Ormy, and good openings also brought in 800 mile plus UHF DX to Franklin and Calvert. As of 7 November, with a few days to go at Bremond, the combined total was 99 stations, 13 states plus Mexico, no Es, and 52 UHF stations. Of course, totals must be kept separate from distant Von Ormy, but it's interesting to note which triangle catches have not yet made it to Von Ormy—these are underlined. Distances are approximate, subject to revision with return to Von Ormy Statistics HQ.

QTH: Von Ormy.		Miles	22 Tr	2222	K76CL	76 Bryan TX	30
5 Tr	2135 KPLC- 7 Lake Charles LA	320			(//KCEB-6; 2301 KFDMs/off; 2320		
	2305 WGNO-26 New Orleans LA	510			KAUZ & CCI from KRIS relayed;		
	2305 WAFF- 9 Baton Rouge LA	455			2330:30 cut off: timer?)		
6 Tr	0540 KLNI-15 New Iberia LA	405			2304 KEDT 16 Corpus Christi TX	225	
	(key Id o/CB)		23 Tr	0001	KIII 3 Corpus Christi TX	225	
14 Tr	0630 KSEL-28 Lubbock TX	345		0002	KXIX 19 Victoria TX	145	
15 Tr	2233 KEDT 16 Corpus Christi TX	125		0658	K76CL 76 Bryan TX (KCEB only)	30	
	(Beggingsubscriptions; 2236s/off		24 Tr	0752	WRBT 33 Baton Rouge LA	330	
	max 3.2Mw, xmtr 4.8E of Petronilla;				(1655 20CCI w/KBFI; 2343 gray		
	2237 off. 1stday regular programs)				scale CCI to KBFI goes off)		
16 Es	0803 ICR6- 3 western Cuba			0752	KLNI-15 New Iberia LA	290	
	(TF, R. Enciclopedia audio relay;				(still at 1130)		
	0811 0 but diagonal CCI w/KIII(-);			0753	WMAV 18 Oxford Univ. MS	470	
	distorted audio; 0830 TVN-6 Id, open				(1915 documentary //14)		
	ed pgm: Spanish Syllabification;			1000	KHNE-29 Hastings NE	675	
	0855 back to TP&mx; 1111 Cuban NA &				(1854 Advocates; 1929 Neb.ETV Id, no		
	flagwave, brief s/on; 1115 Id,				local Id, "Dateline Nebraska";		
	"Los Muñequitos" cartoons:				2104 0 CCI w/WMAA MS)		
	Andy Panda; 1230 skip gone)			1630	KEDT 16 Corpus Christi TX	225	
0812	ICR2- 2 Cuba				(1655 0 CCI east de WAPT MS)		
	(1157 ICR-2 TP, Cubandrama audio)			1630	KWEX-41 San Antonio TX	150	
0812	ICR6- 6 Cuba (?)				(2350 late s/off, SSB;		
Tr	1029 XET - 6 Monterrey NL	265			0025 still on w/Id, tone)		
	(1030 "Solo para Niños")			1655	WAPT 16 Jackson MS	385	
1045	K72DW 72 Mason TX	105			(1728 wx, 1729 Western Auto,		
1123	KOSA- 7 Odessa TX	285			Id, level w/KEDT TX)		
1123	KMID- 2 Midland TX	290		1725	WBMG 42 Birmingham AL	600	
1710	KATC 3 Lafayette LA	400			(20 CCI east to KBFI;		
	(2017 bulletin: Boggs lost)				2307 CBS; 0013s/off)		
1734	KLNI-15 New Iberia LA	405			1730 WMAV 14 Hrdn MS 465		
	(2003 WBRZ-2 Id, CCI relayed)				1731 WMAA 29 Jksn MS 375		
1739	WRBT 33 Baton Rouge LA	455			(21 04 0 CCI w/KHNE)		
	(2127 solid; 2200 anniversary Id)				1745 KSEL-28 Lubk TX 350		
Es	1758 WUND- 2 Columbia NC	1375			1746 WMAU 17 Bude MS 340		
	(Lawn&Garden Show, UNC TV Net, Id)				(1950 20 CCI de WUG)		
1815	WCBD- 2 Charleston SC	1130			1801 WIK 41 Dmpolis AL?		
	(1900 Id; MUF 91.5MHz at 2030)			1810	KOKH-25 Oklahoma City OK	315	
Tr	1911 WGNO-26 New Orleans LA	510			(1928 Id)		
	(CCI to KVRL; 2003 alm.; 2336 06ff)			1823	KMXN 34 Lubbock TX	350	
1959	WMAU 17 Bude MS	485			(Spanish Nk; 1952 good color)		
2004	KNCT 46 Belton TX	135		1910	KTSB-27 Topeka KS	560	
2006	KBFI-33 Dallas TX	250		1925	KPTS- 8 Hutchinson KS	495	
2210	WAPT 16 Jackson MS	540			(PBS 0 CCI to WFAA, north)		
-QTH:	Calvert TX, 75' ant, 7' UHF dish.			1933	KXII-12 Ardmore OK	215	
20 Tr	0900 KETS 2 Little Rock AR	355		1950	WTGC 17 Atlanta GA	740	
	(all morning)				(2222 Id, WKLS ad, movie)		



(24)(Tr) 1951 WAIC 26 Montgomery AL ? T  
 2148 WYEA 38 Columbus GA 700  
 (2307 "Avengers"; 2356 s/off)  
 2226 WKAB-32 Montgomery AL 615  
 (2305 s/off)  
**WHMA**  
**10TV**  
 2235 WCOV-20 Mtg AL 615  
 (2345 local ads)  
 2316 WHMA 40 Astn AL 655  
 2343 WCFI 33 Tscsla AL ?  
 2346 WHNI-19 Hntv AL 635  
 Anniston



25 Tr 0015 KOGO- 5 Oklahoma City OK 320  
 (nx, Paul Harvey, 0023 FBI; 0035  
 finally s/off; KLN 30, 7087.5 MHz STL)  
 0017 XEPE- 2 Nuevo Laredo Tamps 295  
 (24 Horas report, audio mainly)  
**TV6**  
**WBRC**  
 0031 WBRC-6 Bmhm AL 600  
 (WBRC Editorial)  
 0038 WOAI-4 Sant TX 150  
 (CB, then "Big 4  
 News" slide, mx)  
 0038 KRIS-6 CChr TX 225  
 (TP, no audio)

0550 WJSP-28 Warm Springs GA 710  
 (MIH TP; 0559 s/on;  
 0700 0 CCI de KSEL TX)  
 0557 WAGS-25 Dawson GA 720  
 (HCA TP; 0629 s/on)  
 0558 WDCO-15 Cochran GA (HCA TP) 785  
 0620 WMAH 19 Biloxi MS 455  
 0620 WMAU 17 Bude MS 340  
 0620 WMAA 29 Jackson MS (0644 s/on) 375  
 0648 WETV 30 Atlanta GA 740  
 0648 WGIQ 43 Louisville AL 660  
 (RTMA TP, OC, 0653 CB; 0659 s/on)  
 0649 WCWB 41 Macon GA 775  
 -QTH: Franklin TX, same eqp as Calvert.

28 Tr 1600 KNOE 8 Monroe LA 270  
 (All afternoon, witnessed  
 by Robert Grace)  
 1900 KLN1-15 New Iberia LA 285  
 (early 2118 s/off)  
 1900 WRBT 33 Baton Rouge LA 320  
 2113 WXL1 40 Sarasota FL 880  
 (2300 WDUV promo, s/off  
 w/ SSB last stanza)  
 2115 WTOG 44 Saint Petersburg FL 860  
 (2141 WW II movie; 2217  
 record offer w/WTOG address)  
 2123 KALB- 5 Alexandria LA 235  
 (0007 s/off)  
 2123 KPLC- 7 Lake Charles LA 205  
 2139 WMAU 17 Bude MS 335  
 2140 WMAA 29 Jackson MS 365  
 2304 WGN0-26 New Orleans LA 390

29 Tr 0008 WVUE 8 New Orleans LA 395  
 1009 KHGV- 5 Weslaco TX 340  
 11 Tr 1555 KUHI 16 Joplin MO 435  
 1630 KXIX 19 Victoria TX 150  
 1700 KGTO 36 Fayetteville AR 375  
 (audio Id o/ Nazimovie as Fayettevil-  
 Springdale stn; 1846 0 CCI but prob.

(1)(Tr)(1700) relayed from off-air CBS  
 feed; still in at 1911)  
 1701 KFPW-40 Fort Smith AR 325  
 (Perry Mason; 1729 Id, CBS  
 nx; 1910 still in, 2148)  
 1759 KMTG 27 Springfield MO 470  
 (entire evening's pgm promos;  
 1810 excellent, excessive color  
 in Star Trek, 1840 gone)  
 1912 KSLA-12 Shreveport LA (perfect) 190  
 1950 KTHV 11 Little Rock AR 340  
 (1959 Id)  
 2140 WMAA 29 Jackson MS 365  
 2142 WRBT 33 Baton Rouge LA 320  
 2144 K76CL 76 Bryan TX 25  
 (almost snowfree w/KCCN,  
 relayed CCI: 2330 excellent)  
 2147 WMAU 17 Bude MS 335  
 2 Tr 0551 KLPY 10 Lafayette LA 265  
 (Passe Partout)  
 0558 WJTV 12 Jackson MS (s/on) 365  
 0602 WAFB- 9 Baton Rouge LA 320  
 0602 KFPW-40 Fort Smith AR ? T  
 (CB, 0810 'hoo)  
 0607 KNOE- 8 Monroe LA 270  
 0730 WMAW 14 Meridian MS 465  
 0730 WMAU 17 Bude MS 335  
 0730 WMAA 29 Jackson MS 365  
 0732 WKMA 35 Madisonville KY 670  
 (pgm on desert life; b&w; 0735 //21,  
 23, 53, 0745 strongest; 0749 KTV  
 break but no Id, NIT= Natl Instl TV  
 pgms; 0804 Owensboro Id; 0817 gone)  
 0735 WKZT 23 Elizabethtown KY 760  
 (KTV //21, 35, 53; 0745 fair;  
 0800 0 CCI de Miss. ETV)  
 0735 WKMU 21 Murray KY 600  
 (KTV //35, 23, 53; 0745 fair; 0804  
 Murray/Mayfield Xmr Id; 0817 gone)  
 0735 WKGB 53 Bowling Green KY 705  
 (KTV //35, 23, 21; 0745 good;  
 0817 fade up when others gone;  
 0833 weak & level w/52)  
 0748 WLKY-32 Louisville KY (IN) 785  
 (Id slide, s/on)  
 0751 WFIQ 36 Florence AL 575  
 (Id slide, TT; 0759 AETV s/on  
 after SSB; 0818 still only AL  
 stn; 0900 much stronger)  
 0800 KLN1-15 New Iberia LA 285  
 0800 W0WL-15 Florence AL ? T  
 0800 WMAO 23 Greenwood MS 405  
 0817 WKON 52 Owenton KY 835  
 (//53 KTV, much weaker;  
 0833 both weak, level)  
 -QTH: Bremond TX.  
 4 Tr 0005 K76CL 76 Bryan TX 40  
 5 Tr 1100 WRBT 33 Baton Rouge LA 330  
 1100 WRBT 33 Baton Rouge LA 330  
 7 Tr 0959 KWTW 9 Oklahoma City OK 310  
 Until the next, 73 de Glenn.

Best of DX to all

Dennis

# EASTERN TV DX

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

Information on my move to Topeka has finally reached Eastern TV-DX'ers and reports are coming to me hear at KTWU. Reports from the great skip season are still coming in from June along with recent tropo activity this fall. While some great tropo conditions are reflected in this column (see Bob Seybold's report) Es is not left out and was reported on four October days (16,17,18,22) with three reporters noting E-skip on October 17.

## Jerry Pulice 143 Gibson Avenue Staten Island, New York 10308

"Rotton conditions this fall as far as I'm concerned. There was no tropo season this fall. Nothing like the record-breaking 1971. Anyway, that's the way it is in the extreme east. I now use low and high-band FET pre-amps (with coax relay patch-panel traps or pre-amps connected by push buttons); a 23-inch Zenith set, Finco P-5 dish, a Gavin 1023 VHF, Sony CV-2000 VTR, and GE 18-inch monitor for playback.

7-1	Es	1910	WNEM-5	Saginaw, MI	8-12	Es	2000	KXJB-4	Valley City, ND
7-2	Tr	0945	Virginia,	WashingtonDC			2005	KDAL-3	Duluth, MN
	Es	1030	WESH-2	Daytona BeachFL			2100	KGL0-3	Mason City, IA
	Tr	2100	34-40-46	BinghamtonNY"rare"			2130	KLNE-3	Lexington, NE
		2100	WCMC-40	Wildwood, NJ	8-14		1900	UNID-2	PBS
7-3		0630	WNCT-9	Greenville, NC	8-21	Tr	0630	good in 200+ range	
		0630	WRAL-5	Raleigh, NC	9-1		0625	WBTW-13	Florence, SC
7-10		0630	WBOC-16	Salisbury, MD	9-7		2130	WVEC-13	WITN-7 WYAH-27"good"
		0630	WLYH-15	Lebanon, PA	9-8		0630	WWLP-32	Greenfield, MA
		0630	WTVB-11	Durham, NC			0630	WBOC-16	Salisbury, MD
		0630	WWBT-12	Richmond, VA	9-11		0900	WUHY-35	Philadelphia, PA
		0630	WNCT-9	Greenville, NC	9-16		0615	WNAC-7	Boston, MA"very rare"
		0630	WXEX-8	Petersburg, VA	9-17		0900	opening to Virginia, DC, etc.	
		0630	WAVY-10	Norfolk, VA	9-21		0615	WTOL-11	Toledo, OH
7-14		0540	WBZ-4	Boston, MA	9-23		1900	WICU-12	Erie, PA
		0634	WCVB-5	Boston, MA	9-27		1930	WSYE-18	WENY-36 Elmira, NY
7-20	Ms	0630	WMAQ-5	Chicago, IL			1930	12,34,40,46	Binghamton, NY
		0652	UNID-3	"KIR-90"			1930	WNED-17	WUTV-29 Buffalo, NY
7-21	Tr	0625	WSYR-3	Syracuse, NY			2016	WICU-12	Erie, PA
7-31	Es	1930	KDL0-3	Watertown, SD	9-28		0555	WSYR-3	Syracuse, NY
8-1		1930	UNID-2	"several"			0610	WTOL-11	Toledo, OH
8-4	Au	0130	weak on	channels 2-6			0650	WICU-12	Erie, PA
8-5			"total radio	blackout"			1600	"conditions up to west"	
8-6	Es	2110	UNID-2	PBS				"May 1973 be better than 1972, Jerry"	

## Jeffrey Hotchkin South Side Drive Oneonta, New York 13820

5-27	Es	1200	KXJB-4	Valley City, ND	7-21	Tr	2300	WUTV-29	Buffalo, NY
5-31	Tr	0200	WGR-2	Buffalo, NY			2300	CHCH-11	Hamilton, Ontario
6-2	Es	2130	KUSD-2	Vermillion, SD			2300	CFT0-9	Toronto, Ontario
6-3		1600	WKY-4	Oklahoma City	8-1	Es	1815	WJXT-4	Jacksonville, FL
		2000	WHBF-4	Rock Island, IL			1830	WBRZ-2	Baton Rouge, LA
		2100	KHTL-4	Superior, NE			1900	WEAR-3	Pensacola, FL
		2130	WTVY-4	Dothan, AL	8-14		2300	KTIV-4	Sioux City, IA
6-4		1200	CBWFT-3	Winnipeg, Manitoba			2400	KHTL-4	Superior, NE
7-15		1520	KMTV-3	Omaha, NE	8-16	Tr	1030	16-22-28	Scranton, PA
7-17		2000	KTVI-2	St. Louis, MO			1130	WBEN-4	Buffalo, NY
7-21	Tr	2300	WROC-8	Rochester, NY			1200	CBOT-4	Ottawa, Ontario
		2300	WHEC-10	Rochester, NY	8-21		1030	WMTW-8	Portland, ME
		2300	WOKR-13	Rochester, NY	9-27		PM	Buffalo-Rochester	NY
		2300	WXXI-21	Rochester, NY				(Total now 42 stations from 16 states)	

## Frank Wheeler 6589 Wattsburg Road Erie, Pennsylvania 16509

10-17	Es	1836	WBRZ-2	Baton Rouge, LA	10-27	Tr	0900	WKAR-23	E.Lansing, MI
		2000	KARD-3	Wichita, KS			1030	WJIM-6	Lansing, MI
		2025	KPRC-2	Houston, TX			1130	WNEM-5	Bay City, MI

"Managed to pick up a little skip in October. Have some station information. Channel 13 in Marquette, Michigan will begin operating in the next few months. Also channel 35 in Allendale, MI should be on this month; near Grand Rapids.

EDITORS NOTE: Reports from Paul Traska and Ron LeBlanc received too late for December VUD. Will appear in January. Happy Holidays, dp.

J. Joel Rosenberg 47		Pannahill Road Downsview, Ontario	
6-9	Es	1230 WBAP-5 1230 KDFW-4 2100 KGWG-2	Dallas, TX 4443R1200 Dallas, TX 0433R1197 Denver, CO 4434R1330
6-12		1300 CKCT-2 1630 KDIX-2 1830 WKY-4 1900 KQTV-2	Great Bend, KS 5443R1070 Dickenson, ND R1100 St. Joseph, MO 5033R0900 W. Palm Beach 4434N1200
6-15		1200 WPTV-5 1210 WTVJ-4 1305 WJXT-4	Miami, FL 4433R1250 Jacksonville 2423N1100 Dozier, AL 2152R0900
6-16		2145 WDIQ-2	channel 12
6-17	Au	1915-0300	to channel 12
6-18	Es	1700 UNID	"weak Es"
6-19	Tr	1100 Detroit,	Elmira, Cleve! and UHF's
6-26	Es	2100 UNID's	
6-30		0940 WMAB-2 1230 WEAR-3 1400 WLBT-3 1400 KATC-3 1630 KGWG-2 1645 CKCT-2 2030 KDIX-2 2055 KFDX-3 2055 KTEW-2 2130 KUSD-2 2130 KFYZ-5	State College, MS R0900 Pensacola, FL 5444R0900 Jackson, MS 5033R1000 Lafayette, LA 5543R1100 Denver, CO 4433R Great Bend, KS 4443R Dickenson, ND 4433R Wichita Falls 4434R1225 Tulsa, OK 4434R1100 Vermillion, SD 4043R0900 Bismarck, ND R
7-1	Tr	0930 WGTU-29 0930 WEYI-25	Traverse City 2355N0300 Saginaw, MI 3355R0225
	Es	1600 KARK-4 2030 KNOP-2	Little Rock R N. Platte, NE 5543R
7-2		1330 WBRZ-2 1600 KTHL-4 1600 KARD-3 1730 KHAS-5	Baton Rouge 4544R1100 Superior, NE R Wichita, KS 4533N1100 Hastings, NE 3354N
7-3		1130 KTWQ-2 1230 KFBC-5 1655 WPTV-5 1730 WJXT-4	Casper, WY 5544R1300 Cheyenne, WY 3054R1300 Palm Beach 3344R1200 Jacksonville 3533R
		(also WEDU-3, WEAR-3, WPTV-5, WDIQ-2, KTHL-4)	
7-5	Tr	1825 W72AQ-72 1825 W73AR-73 1825 W81AH-81	Great Valley, NY N118 Arcade, NY N102 Cattaraugus, NY N109
7-8	Es	1830 KGNC-4 1900 WBRZ-2 1930 WDIQ-2 2000 WWL-4	Amarillo, TX Baton Rouge, LA Dozier, AL New Orleans, LA
7-15		1330 KARD-3 1330 WDAF-4 1500 KORN-5	Wichita, KS KCMO-5 Kansas City, MO Mitchell, SD 3454N
7-22	Tr	0830 12-34-40	Binghamton, NY 16-22-28 Scranton, PA 18-36 Elmira, NY WUTR-20 Utica
7-27	Es	1600 UNID-4 1830 KGNC-4	KOA? Denver Amarillo, TX
7-31		1200 WTVY-4	Dothan, AL N
8-1		1300 WMAB-2, WWL-4, WBRZ-2, WEAR-3	
8-3,4,5,8			"strong Aurora with good "displays too."
8-30	Tr	2300 WSBT-22	WNDO-16 South Bend, IN
8-31		0830 WAKR-23	Akron, OH 22-28 Scranton
9-4		0050 CBOFT-9	Ottawa, Ont. 3345N0230
9-6		0145 WITC-11	Pittsburgh, PA WNY5-9
9-6		2245 UHF	tropo to Ohio/Michigan
9-10		2345 CBLT-6	sign-off for last time
9-11	GW	0725 WJAC-6	Johnstown, PA
9-11	GW	0725 CBLT-5	Toronto, Ontario
9-13	Au	1840-2400	to channel 7
	GW	1940 CITY-79	Toronto, Ontario N0005
9-17	Tr	1140 CHNB-4	North Bay, Ont. R0190
9-19		2145 WKBD-50 2145 21-27-33 2145 WNDO-16 2145 WSBT-22 2145 WSJV-28 2300 WKAR-23 2320 WL10-35 2320 WGTE-30 2345 WSWO-26 2355 WLTX-18	WUTR-20 WENY-36 Elmira Youngstown, Ohio South Bend, IN 3355R0375 South Bend, IN 3355R0375 Elkhart, IN 1245R0375 E. Lansing, MI 3454N0260 Lima, OH 3354R Toledo, OH R Springfield, OH 3455N Lexington, KY 3455N0475
9-20		0030 WLKY-32	Louisville, KY 2345N
		0950 WUHQ-41	Battle Creek, MI R0320
		0950 WKMR-38	Morehead, KY
		0950 WKLE-46	Lexington, KY
		0950 WKON-52	Owenton, KY
		0950 WKSQ-29	Somerset, KY
		1000 WOET-16	Dayton, OH
		1000 WKPC-15	Louisville, KY
		1000 WMBU-14	Oxford, OH
		1015 WKBG-53	Bowling Green, KY
		1015 WCVN-54	Covington, KY
		1015 WKMJ-68	Louisville, KY
		1015 WKEF-22	Dayton, OH
		1030 WCET-48	Cincinnati, OH
		1100 WTCI-45	Chattanooga, TN N0680
		1105 WKFA-35	Hazard, KY
		1115 WSWO-26	Springfield, OH
		1115 WOSU-34	Columbus, OH
		1125 WKPI-22	Pikeville, KY
		1300 WLF1-18	Lafayette, IN
		2000 WKYT-27	WKLE-46 Lexington, KY
		2350 WUCM-19	Bay City, MI
9-21		0005 WCMU-14	Mt. Pleasant, MI
9-27	GW	1623 CJOH-6	Deseronto, Ontario N125
		"CTV satellite of CJOH-13 Ottawa"	
	Tr	1940 16-22-28-44	Scranton, PA
		1940 21-27-33	Youngstown, OH
		1940 34-40-46	Binghamton, NY
		1940 WOSU-34	Columbus WSWO-26 OH
9-28		0720 WICZ-40	Binghamton, NY
		0720 16-22-28	Scranton, PA
		0720 WANE-15	Ft. Wayne, IN
10-7		1230 CHNB-4	North Bay, Ontario

"I finally saw some good tropo for the first time all year on September 19-21 with 400 mile plus reception. Watch, in future skip openings, for CBLT in Toronto, Ontario on channel 5 and CJOH-TV Deseronto, Ontario on channel 6, a satellite of channel 13 in Ottawa, Ontario. Our Canadian station (TV-FM) list is ready. (See November VUD) Well, lousy weather has set in, so that's it for tropo this year unless we get a "heat wave." I'd like to see some skip with my new installation. I moved up to the "big leagues" after suffering three years with a 'bomb.' I bought a new 19" RCA portable. With 412 coax for VHF, its pretty hot with all locals excellent plus some stations as far as 200 miles always in. UHF leaves much to be desired. I'll have to redefine what is really tropo."

Thomas J. Yingling (WDX30MY) 221 Pinewood Road Dundalk, Maryland 21222									
5-27 Es	1300	<u>CBWFT-3</u>	Winnipeg, Manitoba 3333N	7-15 Es	1500	<u>KMOX-4</u>	St. Louis, MO	3333R	
6-2	1700	<u>KLNE-3</u>	Lexington, NE	3333N	1530	<u>KORN-5</u>	Mitchell, SD	3333R	
		to	<u>KORN-5</u>	4444N	1545	<u>KAUS-6</u>	Austin, MN	3333R	
	2100	<u>KHPL-6</u>	Hays Center, NE	3333N	7-28 Tr	2300	<u>WBRA-15</u>	Roanoke, VA	2222N
		<u>KAUS-6</u>	Austin, MN	3333R	2300	<u>WBOC-16</u>	Salisbury, MD	4444R	
		<u>WTMJ-4</u>	Milwaukee, WI	3333N	2310	<u>WRFY-27</u>	Roanoke, VA	3333N	
		<u>WITI-6</u>	Milwaukee, MI	3333N	2330	<u>WSVN-47</u>	Norton, VA	3333N	
		<u>KHTL-4</u>	Superior, NE	3333N	7-29	0615	<u>WFMY-2</u>	Greensboro, NC	2222N
		<u>KPLO-6</u>	Reliance, SD	3333R	0620	<u>WHIS-6</u>	Bluefield, WV	2222N	
		<u>KDLO-3</u>	Watertown, SD	3333R	0630	<u>WBIR-10</u>	Knoxville, TN	2113N	
		<u>WOW-6</u>	Omaha, NE	3333R	8-12 Es	1700	<u>KGLQ-3</u>	Mason City, IA	3333N
6-8	2000	<u>WEAR-3</u>	Pensacola, FL	3333N			<u>Sioux City, IA</u>	3333R	
	to	<u>WEDU-3</u>	Tampa, FL	3333R	9-2	1830	<u>WKY-4</u>	Oklahoma City	3333R
	2220	<u>WCIX-6</u>	Miami, FL	3333R	1900	<u>WDSU-6</u>	New Orleans, LA	4444R	
		<u>CMQ-6</u>	Havana, Cuba	3233R	9-11 Tr	1700	<u>WBJA-34</u>	Binghamton, NY	3333N
		<u>KDFW-4</u>	Dallas, TX	2321N	1715	<u>WINR-40</u>	Binghamton, NY	3333R	
					1720	<u>WENY-36</u>	Elmira, NY	3333R	
"MUF up to 94.1mhz in the FM band"					1800	<u>WLVT-39</u>	Allentown, PA	4444R	
6-12	1750	<u>WCCO-4</u>	St. Paul, MN	2333N	1800	<u>WNEP-16</u>	Scranton, PA	3333R	
7-1	1900	<u>WCIA-3</u>	Champaign, IL	3333N	1829	<u>WDAU-22</u>	Scranton, PA	2222R	
	2000	<u>WSIL-3</u>	Harrisburg, IL	3333N	9-17	2100	<u>WNAV-31</u>	New York, NY	3333N
7-2	1630	<u>WKY-4</u>	Oklahoma City, OK	4444R	2120	<u>WUHY-35</u>	Philadelphia	3333N	
	1650	<u>KOTV-6</u>	Tulsa, OK	4444R	2130	<u>WCNC-40</u>	Wildwood, NJ	4444R	
	1700	<u>WATE-6</u>	Knoxville, TN	4444N	2330	<u>WLVT-39</u>	Philadelphia	5555R	
"MUF up to 91.9mhz on the FM band"					2335	<u>WABC-7</u>	New York, NY	3333R	
7-3	1800	<u>WWL-4</u>	New Orleans, LA	4444N	9-18	0029	<u>WOR-9</u>	New York, NY	5555R
	1830	<u>KATC-3</u>	Lafayette, LA	3333R	0030	<u>WTAR-3</u>	Norfolk, VA	3333R	
7-8	1800	<u>KOTV-6</u>	Tulsa, OK	4444R	0130	<u>WTEV-6</u>	New Bedford, MA	2222R	
	1820	<u>KALB-5</u>	Alexandria, LA	2333N	0200	<u>WNHC-8</u>	New Haven, CN	2222N	
	1830	<u>KCEN-6</u>	Temple, TX	4444N	10-6	2000	<u>WNYC-31</u>	New York, NY	3333R
	1845	<u>KTVG-6</u>	Ensign, KS	4444N	2330	<u>WHNB-30</u>	New Britain, CN	2222N	
	1900	<u>KATC-3</u>	Lafayette, LA	3333R			Philadelphia UHF's		
"MUF to 93.1 with new FM skippers"					10-8	2100	<u>WPHL-17</u>	Philadelphia	5555R
7-15	1420	<u>WBAP-5</u>	Ft. Worth, TX	3333N	2330	<u>WNJS-23</u>	Camden, NJ	5555N	
	1450	<u>WFRV-5</u>	Green Bay, WI	3333N			"testing with CBE-TP color bulls eye TP"		
	1500	<u>CKX-5</u>	Brandon, Manitoba	4444N					

"Well, that does it. As you can see, I had a good summer DX season so far. Back on August 9th, I put up a 20-element yagi for FM-DX, and have not seen E-skip on FM since. ...I can't wait to see the next Es opening. 73's for now." Tom

#### David J. Egan 12a Andrew Valleyfield, Quebec (EDT)

8-30 Tr	PM	CKWS-11	Kingston, Ontario	140	8-31 Tr	0535	WNBF-12	Binghamton, NY	240	
		2240	WHEC-10	Rochester, NY	225	0542	WBZ-4	Boston, MA	250	
8-31		2420	WHEC-10	Rochester, NY	225	0558	WJAR-10	Providence, RI	270	
		2420	WOKR-13	Rochester, NY	225	0660	WTOL-11	Toledo, OH	530	
		2420	CFTM-10	Montreal, Quebec		0603	WKBW-7	Buffalo, NY	290	
		0153	WSEE-35	Erie, PA (#150)	370	0604	CFTO-9	Toronto, Ontario	285	
		0258	WUTV-29	Buffalo, NY	290	0609	WHEC-10	Rochester, NY	225	
		0430	WGR-2	Buffalo, NY	290	0609	WNYS-9	Syracuse, NY	175	
						9-1	0955	CKTM-13	Trois-Rivieres	105
									"Totals now 150 with 131 verified"	

#### Steve West 432 Kenmore Road Havertown, Pennsylvania 19083 (EST)

"This is my first report I have sent to you. I have been DX'ing a few years. I have severe interference on VHF because of the Philadelphia stations. I do most of my DX on UHF. I have a five-foot dish and am on a hill. I have average reception of 100-150 miles. New in the area is WNJS-23 in Camden, New Jersey. Well, here's my report:"

9-7 Tr	1000	WGBT-12	Richmond, VA	3335R185	9-14 Tr	0720	WCVE-23	Richmond	5555R185
	1000	WXEX-8	Petersburg, VA	3333R190	9-17	2100	WYAH-27	Portsmouth	3345R230
	1020	WITN-7	Washington, NC	4444N320	10-17 Es	1900	KQTV-2	St. Joseph MO	1040
9-14	0720	WEBA-14	Allendale, SC	3343N590	10-23 Tr	0100	WNBF-12	Binghamton, NY	0160
	to	WOLO-25	Columbia, SC	2125R530	0100	WINR-40	Binghamton, NY	0160	
	0825	WHRO-15	Hampton, VA	4334R220	10-27	1930	WRLP-32	Greenfield, MA	0225
		WNVT-53	Goldvein, VA	5555R155		1930	WSBK-38	Boston, MA	0275
		WNOK-19	Columbia, SC	3323N530		1930	WGBX-44	Boston, MA	0275
		WCWV-57	Richmond, VA	5555R185		1930	WKBG-56	Cambridge, MA	0275

(Thanks for your first reports. Hope to hear from you regularly. dp)



Kenneth R. Simon (WDX41KZ) 528 Pilgrim Road West Palm Beach, Florida 33405 (GMT)  
 9-14 Es 2039 WKAQ-2 Puerto Rico 4021N 9-20 Es 0056 UNID-2 Latin with commercials  
 2040 WIPR-3 Puerto Rico 5425R 9-30 2302 UNID-2 "Spencer's Mountain"  
 9-15 2229 WBAY-2 Green Bay, WI 4021R 10-16 2300 WMAR-2 Baltimore, MD5232R0920  
 2230 KIII-3 Corpus Christi 3224N 10-17 0100 KDKA-2 Pittsburgh 3021R0960  
 2300 WBBM-2 Chicago, IL 5021R 2359 WLWD-2 Dayton, OH 3011R0950  
 2328 WISC-3 Madison, WI 4124N 10-18 0028 WAVE-3 Louisville, KY4221R0880  
 9-19 2200 KDKA-2 Pittsburgh, PA 5021R 10-22 2340 UNID-2 "Anna & the King"  
 2230 TGY-3 Guatemala City 3014R 10-30 Tr 0330 WESH-2 Daytona Beach, FL  
 2300 WSVA-3 Harrisonburg, VA 3021N to WEDU-3 Tampa, FL  
 2300 WSPX-3 Clearfield, PA 3121R 0400 WDBO-6 WFLA-8 and WTVT-13  
 "Cuba has been notoriously missing. Interested in photos of foreign TV. Will trade--  
 need reception date, mode, time and QTH on back, if possible. Lack of audio on channel  
 2 is due to WPBT-2. Some reception of WBBH-20 and WTVX-34; but my UHF was poor."

Robert Seybold Bennett Road Dunkirk, New York

- 9-15 to 10-4 "No E-skip in this period. Good tropo on most days.  
 9-19 Tr "most V's and U's within 350 miles, such as: WJIM-6 WLWC-4 WTVN-6 WBNS-10 WOTV-8  
 WILX-10 WANE-15 WKUG-33 WTVS-56 WXON-62 WKBD-50 WDOH-24 WGTE-30 WHIZ-18  
 9-20 Tr "terrific opening early AM up to 1200; then great again after 1600 to 2400.  
 Total of 183 stations on this day alone, including: WLWD-2 WBBM-2 WMAR-2 WAVE-3  
 WKZO-3 WLWC-4 WLWT-5 WMAQ-5 WFBM-6 WHIO-7 WLS-7 WPBN-7 WDBJ-7 WISH-8 WOTV-8 WCHS-8  
 WMTV-9 WCPD-9 WBNS-10 WHAS-11 WJRT-12 WKRC-12 WDEF-12 Chattanooga, TN (700) WLVI-13  
 WHTN-13 WMUB-14 WCMU-14 WICD-15 WANE-15 WTAP-15 WKPC-15 WNDU-16 WOET-16 Dayton, OH  
 WNEP-16 WNEP-16 WJAN-17 WAND-17 WLF1-18 WLEX-18 WSYE-18 WNPI-18 WCLP-18 Chatsworth,  
 GA (700) WHIZ-18 Zanesville, OH WRAU-19 Peoria, IL WXIX-19 Newport, KY WUCM-19 MI  
 WCOV-20 Montgomery, AL WFYI-20 WOUB-20 WUTR-20 WPTA-21 WSBT-22 WDAU-22 WKEF-22 OH  
 WKPI-22 Pikeville, KY WKAR-23 E.Lansing, MI WKZT-23 WCNY-24 WEEK-25 WKAS-25 WEYI-25  
 WSWO-26 Springfield, OH WTVK-26 Knoxville, TN (600) WKYT-27 WSJV-28 WBRE-28 WKSO-29  
 WGTV-29 KDNL-30 St.Louis WGTE-30 WMBD-31 WGSF-31 WKAB-32 Montgomery, AL WCFT-33 AL  
 WLKY-32 WKJG-33 WOSU-34 WBJA-34 WKHA-35 WKYH-57 Hazard, KY WENY-36 WKMR-38 WNPE-38  
 Green Bay, WI WURD-40 WICZ-40 WDRB-41 WUHQ-41 WLIU-41 Louisville, AL WSNS-44 Chicago  
 WTC1-45 WKLE-46 WTVU-47 WSVN-47 Norton, VA WCET-48 WIPB-49 Muncie, IN WKBD-50 Detroit  
 WKON-52 Owenton, KY WKGB-53 WCVN-54 WTVS-56 WBLG-62 WXON-62 WKMU-68 Louisville, KY  
 WBGU-70 Bowling Green, OH and 7 UHF translators.  
 9-21 Tr "good day again with many V's and U's to 450 miles (IL, OH, MI, WV, VA, PA, NY)  
 9-26 Tr "evening opening continuing all night into the next day--probably best day ever  
 as to number of stations seen--188, a record here." Some of those seen: WCBS-2  
 WBBM-2 WTIC-3 WKZO-3 KYW-3 WNET-4 WBZ-4 CKSO-5 WPTZ-5 WNEW-5 WMAQ-5 CJOH-6 CBOFT-9  
 WCAU-10 WTEN-10 WMUP-10 WPIX-11 WJRT-12 WJZ-13 CJOH-13 WCMU-14 WMUB-14 Oxford, OH  
 WTAP-15 WANE-15 WLYH-15 Lebanon, PA WNDU-16 WNEP-16 WNEP-16 WTVU-17 WPHL-17 WNPI-18  
 WTVT-18 WUCM-19 WCDC-19 WXXW-20 WUTR-20 WHP-21 WSBT-22 WDAU-22 WCEE-23 WKAR-23  
 WCNY-24 WDOH-24 WEYI-25 WCIU-26 WSWO-26 WSMW-27 WTPA-27 WSJV-28 WBRE-28 WTAZ-29  
 WHNB-30 WGTE-30 WGSF-31 WNYC-31 New York City WFLD-32 WRLP-32 WKJG-33 WBJA-34  
 WOSU-34 WLIO-35 WENY-36 WSBK-38 WKMR-38 WURD-40 WHYN-40 WICZ-40 WUHQ-41 WXTV-41  
 WSNS-44 WVIA-44 WSKG-46 WSVN-47 WNUJ-47 WKBS-48 WIPB-49 WKBD-50 WKGB-56 WGBY-57  
 Springfield, MA WXON-62 WBGU-70 + 14 translators.  
 10-3 Tr "good tropo all evening!" WCMU-14 WANE-15 WNDU-16 WUCM-19 WXXW-20 WPTA-21 WSBT-22  
 WKAR-23 WDOH-24 WEYI-25 WCIU-26 WSJV-28 WGTE-30 WFLD-32 WKJG-33 WUHQ-41 WSNS-44 IL  
 WKBD-50 WTVS-56 WXON-62 WBGU-70 also VHF's to 425 miles "The two openings which  
 produced over 180 stations in 24 hours were really amazing here. I never saw the  
 bands so crowded--even UHF with two or more stations on almost every channel. The  
 stations were super with 80% snow-free and all new photographed."  
 10-26, 27 Tr "Tropo opening in evening of the 26th. East very good; then west. Best  
 was Wisconsin with 100% signals from many. Some logged include: WMTV-15 Madison  
 WCMU-14 WNDU-16 WUCM-19 WXXW-20 WHA-21 WKOW-27 WPNE-38 WANE-15 WTVU-17 Rockford, IL  
 WLF1-18 WPTA-21 WSBT-22 WKAR-23 WDOH-24 WCIU-26 WSJV-28 WGTU-29 WGTE-30 WGSF-31  
 WFLD-32 WKJG-33 WLIO-35 Lima, OH WUHQ-41 WSNS-44 WKBD-50 WTVS-56 WXON-62 WBGU-70  
 WNEP-16 WNPI-16 WNEP-18 WSYE-18 WCDC-19 WUTR-20 WDAU-22 WCNY-24 WBRE-28 WRLP-32  
 WBJA-34 WENY-36 WSBK-38 WICZ-40 WHYN-40 WVIA-44 WSKG-46 WVTM-41 WVNY-22 Burlington  
 VT WTVK-33 and translators of WNEB-17 (5 of them!) also translator of WVTM-41 in  
 Mt.Benington, VT CITY-79 Toronto, Ontario also on VHF: WTOM-4 WWTV-9 WMUP-10  
WLUK-11 WOTV-8 WPBN-7 WJRT-12 WZZM-13 WKZO-3 WLUC-6 WISC-3 Madison, WI  
 10-30 Tr "opening to 300-400 miles, east and west in, not intense opening--fair signals.  
 11-10 (EST) 0600 VHF band full (OH, PA, WV,) WQED-13 WDTV-5 WCHS-8 WGAL-8 WDBJ-7 WQEX-16  
WNVT-53 Goldvein, VA WJNL-19 Johnstown, PA WANE-15 WNDU-22 WNEP-16 WHIZ-18 WKAR-23  
 WSBT-22 WEYI-25 WCNY-24 WTAP-15 "opening still there when I left for work at 0930!"

# CENTRAL TV DX

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

December 1972

Next Deadline: December 15

For all TV DXers in Wi, Il, In, Mi, and Oh.

This is your column! Please write!

What an offbeat year for VHF-UHF DXing! I think a look at weather records for 1972 will bear out the relationship between the elements and related tropo...in the Great Lakes region. The spring and summer were progressively colder and wetter than normal. The breaks we did have in the winter-like weather patterns brought fair tropo throughout the summer. September was memorable with several good openings...typical really of fall. Then came October..."traditionally" our best tropo month only this year was a bomb...until...the 25th, 26th and 27th. If you weren't watching you might have missed a really terrific open. I say "might have" because tropo conditions really varied with locations and time.

For instance...on the 25th the Chicago "group" apparently didn't have a great deal of luck when conditions were "up" in Michigan. On the 27th, UHF was open here to the Southwest...but mostly to the East in Chicago...at the same time. I'd love to hear from reporters in other areas to find out ducting situations for them...but I guess we'll have to depend more on the "over" 50 MC column in OST for more details. By the way...if you're not in touch with that column...and you like VHF-UHF DXing...you're missing a lot of good information.

Reports of plus 800 mile tropo have been pretty rare in this column in the past. I guess several of these reports represent a breakthrough! Read on...

John Robertson, 6065 Gardner Line, Crosswell, MI 48422 EST

10-26 Tr 2000 WCET-48 Cincinnati (300)	10-27 Tr 0154 WFLD-32 Chicago, Il (275)
2200 WICD-15 Dansville, Il (350)	0300 WTTI-6 Milwaukee, Wi (275)
2330 WEEK-25 Peoria, Il (400)	11-10 Tr 0140 WHIO-7 Dayton, Oh (235)
2359 KDNL-30 St. Louis, Mo. (500)	0205 KDKA-2 Pittsburg, Pa (225)

UHF on 10-26 very good to the West...the best I've seen. KDNL-30 is the most distant UHF station I have seen. All stations seen on 10-26 are new but I don't know about the others...I don't keep a log.

Ray Tarantino, 8134 San Francisco, Chicago, Il CDT

9-11 Tr 1530 WMVT-36 Milwaukee, Wi (93)	9-19 Tr 2100 WKLE-46 Lexington, Ky (303)
1533 WNDU-16, WSJV-28, WSBT-22 (80)	2201 WSVN-47 Norton, Va. (425)
1600 WPNE-38 Green Bay, Wi (185)	2232 WJAB-43 Lorain, Oh (283)
1604 KFIZ-34 Fon du Lac, Wi (137)	2235 WGTE-30 Toledo, Oh (215)
1611 KDUB-40 Dubuque, Ia (156)	2237 WDHO-24 Toledo, Oh (215)
9-15 Tr 2229 WMTV-15 Madison, Wi (117)	2239 WKBD-50 Detroit, Mi (234)
2235 WICD-15 Dansville, Il (134)	2240 WTVS-56 Detroit, Mi (234)
2309 WRAU-19, WEEK-25, WMBD-31 (153)	2241 WKBF-61 Cleveland, Oh (283)
2321 WICS-20 Springfield, Il (175)	9-20 Tr 1441 WJAB-43 Lorain, Oh
9-16 Tr 0015 KDNL-30 St. Louis, Mo (245)	1530 WDHO-24, WGTE-30
9-18 Tr 2005 WTVF-47 Peoria, Il (153)	2000 WXON-62 Detroit, Mi (234)
plus others to 185 miles	2025 WKBD-50, 2054 WTVS-56
9-19 Tr 1527 WMTV-15 Madison, Wi (117)	2200 WKBF-61 Cleveland, Oh
1538 WHA-21 Madison, Wi (117)	2229 WLIO-35 Lima, Oh (195)
1543 WKOW-27 Madison, Wi (117)	9-21 Tr 1530 WUHQ-41 Battle Creek, Mi (137)
1734 WAND-17 Decatur, Il (156)	1543 WEYI-25 Saginaw, Mi (165)
1800 WTIU-30 Bloomington, In (195)	1547 WDHO-24, WGTE-30 Toledo
1830 WIPB-49 Muncie, In (166)	9-26 Tr 2129 KBMA-41 Kansas City, Mo (408)
1900 WKMR-38 Morehead, Ky (332)	plus tent. KTSB-27 Topeka
1930 WGTU-29 Traverse City, Mi (234)	9-27 Tr 1854 WDHO-24 WGTE-30 Toledo
1940 WKON-52 Owenton, Ky (264)	1856 WJAB-43, WKBF-61 Cleveland
2027 WBLG-62 Lexington, Ky (303)	1931 WVIZ-25 Cleveland (312)

Tarantino (cont.)

10-3 Tr 0653 WGTE-30, WDHO-24 Toledo  
 0656 WLIO-35 Lima, Oh (215)  
 0657 WKJG-33 Ft. Wayne, In (142)  
 0659 WANE-15 Ft. Wayne, In (142)  
 Log totals 59 seen.

Installed new equipment after antenna blew down on 14 July. Now have a 7 foot dish at 45 feet, a 20 element Lafayette LVL Log Periodic all turned by a CDE AR22R. Both antennas fed by .500 coax.

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

10-2 Tr 2000 W78AJ Sheboygan, Wi (90)  
 10-8 Tr 0500 WJBK-2 Detroit, Mi (260)  
 10-26 Tr 0550 tent. KNOW-8 Monroe, La  
tent. WTOK-11 Meridian, Ms  
 0725 WMAA-29 Jackson, Ms (690)  
 0728 WMAV-18 Oxford, Ms (530)  
 0730 WKSQ-29 Somerset, Ky (390)  
 0740 WHNT-19 Huntsville, Al (520)  
 0755 WFIQ-36 Florence, Al. (505)  
 0800 WAAY-31 Huntsville, Al (520)  
 1820 WLIO-35 Lima, Oh (240)  
 1915 KDNL-30 St. Louis, Mo (300)  
 2030 WBRE-28 Scranton, Pa (625)  
 2217 KMTC-27 Springfield, Mo (450)  
 2230 WUTV-29 Buffalo, NY (455)

10-27 Tr 0455 CFTO-9 Toronto, On (435)  
 0500 WFBG-10 Altoona, Pa (495)  
 0510 WNEF-12 Binghamton, NY (615)  
 0525 WKBW-7 Buffalo, NY (455)  
 0530 WHEC-10 Rochester, NY (530)  
 0600 WBRE-28 Scranton, Pa (625)  
 0629 WSYE-18 Elmira, NY (550)  
 0645 WSEL-35 Erie, Pa (410)  
 0645 tent WICZ-40 Binghamton  
 0745 WSKG-46 Binghamton (615)

October was pretty dull 'til the fine opening of the 26th and 27th of October. The communications network developing between some Midwestern DXers helps!

(Gary's comments above reflect increasing use of Ma Bell's direct dial service during and after DX openings. It's getting so that if something is up..somebody calls. It's nice! Makes DXing a lot more interesting! RB)

Don Ruland, 4448 68th Place, Kenosha, Wi 53140 CDT

10-13 MS 0543 WCIV-4 Charleston, SC (810)  
 10-17 Es 1700-1900 Unid ch 2-5 from S-SE  
 10-25 Tr 2205 WKYT-27 Lexington, Ky (360)  
 10-26 Tr 0454 WFBG-10 Altoona, Pa (510)  
 0455 WIIIC-11 Pittsburg, Pa (430)  
 0521 WHFN-13 Huntington, WV (420)  
 0525 WCHS-8 Charleston, WV (430)  
 0527 WTRF-7 Wheeling, WV (420)  
 0536 WSIX-8 Nashville, Tn (450)  
 0541 KNOE-8 Monroe, La (750)  
 0545 WAPI-13 Birmingham, Al (640)  
 0547 WJTV-12 Jackson, Ms (730)  
 0607 KTHV-11 Little Rock, Ar (600)  
 0615 WALA-10 Mobile, Al (815)  
 0650 WBMG-42 Birmingham, Al (640)  
 0700 WHNT-19 Huntsville, Al (550)  
 0722 KDNL-30 St. Louis, Mo (300)  
 0729 WKMA-35 Madisonville, Ky (360)  
 0745 WMAV-18 Oxford, Ms (570)  
 0748 WFIQ-36 Florence, Ms (540)  
 0755 WMSL-48 Decatur, Al (560)  
 0757 WCET-48 Cincinnati (300)  
 0800 WAAY-31 Huntsville, Al (550)  
 0805 WKON-52 Owenton, Ky (330)  
 0808 WMAH-19 Biloxi, Ms (850) the longest tropo for me so far!!  
 WALA-10 longest VHF tropo at 830.

10-26 Tr 1845 WVIZ-25, WUAB-43 Cleveland  
 1900 WXIX-19 Cincinnati, Oh (300)  
 2220 WFMJ-21 Youngstown, Oh (380)  
 2327 WAKR-23 Akron, Oh (340)  
 2340 WUTV-29 Buffalo, NY (460)  
 2349 KMTC-27 Springfield, Mo (470)  
 2359 WICZ-40 Binghamton (620)  
WENY-36 Elmira, NY (570)  
 10-27 Re 0008 WJET-24 Erie, Pa (400)  
 0433 WIIIC-11 Pittsburg, Pa (430)  
 0456 CFTO-9 Toronto, On (430)  
 0500 CKCO-13 Kitchener, On (380)  
 0504 WDAU-22 Scranton, Pa (630)  
 0512 WKBN--27 Youngstown (380)  
WBRE-28 Scranton, Pa (620)  
 0513 WSYE-18 Elmira, NY (570)  
 0516 WKBW-7 Buffalo NY (460)  
 0530 WHEC-10 Rochester, NY (520)  
 0537 WTCU-12 Erie, Pa (400)  
 0546 WICZ-40 Binghamton, NY (620)  
 0630 WNEP-16 Scranton, Pa (630)  
 0700 CICA-19 Toronto, On (430)  
 0707 WSEE-35 Erie, Pa (400)

Total now at 278 with 17 new during this period. If last year is an indicator, we have pretty much had it for another 6-7 months...as far as tropo is concerned. But the unexpected keeps happening so....

Bill Draeb, Ellis St., RR# 2, Keokaunee, Wi 54216 CDT

- |               |                                    |                             |                           |
|---------------|------------------------------------|-----------------------------|---------------------------|
| 10-13 Tr 1720 | WOET-16 Kettering, Oh (368)        | 10-26 Tr 2038               | WCWB-41 tent. Macon, Ga   |
|               | WKEF-22 Dayton, Oh (368)           | 10 KC off WHHG-41           | Off air for               |
|               | WSWO-26 Springfield, Oh (368)      | one minute at 2129:15       |                           |
|               | WOSU-34 Columbus, Oh (395)         | 2120 KDNL-30, WTIU-30 (376) |                           |
|               | WLKY-32 Louisville, Ky (437)       | 10-27 Tr 0515               | WKBW-7 Buffalo (445)      |
|               | WCET-48 Cincinnati (400)           |                             | WJW-8 Cleveland (355)     |
|               | WVIZ-25 Cleveland, Oh (355)        |                             | WBNS-10 Columbus (395)    |
|               | WUAB-43 Lorain, Oh (340)           |                             | CHCH-11 Hamilton (394)    |
| 1850          | KDNL-30 St. Louis, Mo (432)        |                             | WSYE-18 Elmira (575)      |
| 1932          | WKYT-27 Lexington, Ky (473)        |                             | WDAU-22 Scranton (630)    |
|               | WKBF-61 Cleveland, Oh (355)        |                             | WBRE-28 Scranton (630)    |
| 10-17 Es 1900 | WBTW-3 Charlotte, NC 736)          |                             | WKBN-27 Y'town (420)      |
|               | WUNC-4 Chapel Hill, NC (749)       | 0530                        | CKCO-13 Kitchener (345)   |
|               | plus Unids on 2 and 3              |                             | WHFC-10 Rochester (500)   |
| 10-20 Tr 2040 | WVIZ-25, WUAB-43, WKBF-61          |                             | WJCU-12 Erie (420)        |
| 10-24 Tr 2045 | WOET-16, WKEF-22 Dayton            | 0537                        | WLYH-15 Lebanon, Pa (649) |
|               | WLKY-32, WDRB-41 Louisville, Ky    |                             | WICZ-40 Binghamton (600)  |
|               | KDNL-30 St. Louis, Mo              |                             | WFMJ-21 Y'town (420)      |
|               | KTSB-27 Topeka, Kn (562)           | 0549                        | WSBA-43 York, Pa (634)    |
|               | KMEG-14 Sioux City, Ia             |                             | WHP-21 Harrisburg (617)   |
| 10-25 Tr 0610 | WICU-12 Erie, Pa (405)             | 1230                        | WBJA-34 Binghamton (600)  |
| 1230          | WKYT-27 Lexington (473)            |                             | WSEE-35 Eric (snowfree,   |
|               | WKSO-29 Somerset, Ky (538)         |                             | 405 miles at noon!)       |
|               | WKHA-35 Hazard, Ky (551)           |                             | WJET-24 Erie (405)        |
|               | WKLE-46 Lexington (473)            |                             | WSKG-46 Binghamton (600)  |
|               | WSVN-47 Norton, Va (610)           |                             | WNED-17, WUTV-29 (445)    |
|               | WCET-48 Cincinnati (400)           |                             | snowfree)                 |
|               | WBLG-62 Lecington, Ky (473)        |                             | WENY-36 Elmira (575)      |
|               | WCVN-54 Covington, Ky (407)        | 1705                        | tent KCPT-19 Kansas City  |
|               | WKON-52 Owenton, Ky (437)          |                             | KBMA-41 Kansas City (525) |
|               | WOET-16, WKEF-22, WSWO-26          |                             | Unid-16 WSW, tent KDSD-16 |
|               | and unid-33 SSE                    | 1735                        | KTSB-27 Topeka, Kn        |
| 1715          | WOSU-34 Columbus, tent WMUL-33     | 1830                        | WQLN-54 Erie, Pa          |
|               | WVIZ-25, WUAB-43, WKBF-61          | 1900                        | WOSU-34 WLKY-32           |
| 1830          | KDNL-30 St. Louis, Mo (432)        | 10-28 Tr 1715               | WKYT-27, WKEF-22          |
| 10-26 Tr 1235 | WUUB-14 Oxford, Oh                 | 1730                        | WLKY-32 Louisville, Ky    |
|               | WLEX-18 Lexington (473), WKYT-27,  | 10-30 Tr 1710               | WKBN-27, WYTV-33, WUAB-43 |
|               | WOET-16, WKEF-22, tent WUNF-33     |                             | WVIZ-25                   |
|               | (No. Carolina), WKSO-29 (538)      | 1715                        | WVVU-24, Morgantown       |
|               | WCET-48, WKON-52, WLKY-32, WUAB-43 | 1720                        | WJET-24 Erie (405)        |
| 1715          | WSWO-26 Springfield, Oh            | 1735                        | WOET-16, WKEF-22,         |
| 1727          | WIPB-49 Muncie (310)               | 1930                        | WLKY-32, WDRB-41          |
|               | WFYI-20 Indianapolis (336)         | 1938                        | KDNL-30 St. Louis         |
| 1840          | WDRB-41 Louisville (437)           | 11-1 Tr 0600                | WJW-8, CHCH-11, CKCO-13   |
| 1938          | tent. WVVU-24 Morgantown           | 11-4 Tr 1500                | WOET-16, WKEF-22, WLKY-32 |
| 1958          | WUTV-29 Buffalo, NY (445)          |                             | WDRB-41, 2057 KDNL-30     |

Saw a bit more on 11-5, 6 and 10...about the same as on 11-4 to 430 miles. I also managed to make an ID on a station seen several times in the past, thanks to a list of translators provided by Morrie Goldman. The station seen was W8BG, repeating WLUC-6 in Iron Mt., Mi. The log here is now at 491. (Great Bill!) (Anyone want to start a pool on when William gets #500?! RB)

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

- |               |                              |               |                                 |
|---------------|------------------------------|---------------|---------------------------------|
| 10-17 Es 1325 | weak on 2 and 3              | 10-25 Tr 2130 | Large high pressure center      |
| 1330          | WBRZ-2 Baton Rouge, La       |               | to South and East. Conditions   |
| 1920          | WBRZ-2 plus unids to ch 4    |               | up slightly but nothing unusual |
| 1930          | WMAB-2 plus NBC on 2-3       |               | until unids noted on 17-19 at   |
|               | Gone by 2115. Au noted 10-19 |               | 2145...SSW.                     |

- 10-25 Tr 2200 WMAU-17 Bude, Ms (840)
- 2201 WMAH-19 Biloxi, Ms (875)
- No sign of other Ms ETV stations. Network signed off at 2215 EST
- 2310 WLKY-32 Louisville (320)
- 2315 WDXR-29 Paducah, KY (430)
- 2325 WAPT-16 Jackson, Ms (770)
- 2340 WAAY-31 Huntsville, Al (560)
- 10-26 Tr 0001 WRBT-33 Baton Rouge, La (915)
- w/ Sign Off and SSB, under WKJG-33, 10 KC offset
- 0815 WKSQ-29 Somerset, Ky (410)
- KDNL-30 St. Louis, Mo (410)
- WKMR-38 Morehead, Ky (380)
- Did not see stuff seen in Chi 2000-after midnight. 70 Us seen including WNEP-16, WDAU-22, WBRE-28, WBJA-34, WSYE-18, WICZ-40 WENY-36, WSVN-47, WUTR-20, KDNL-30, WGSF-31, WMUL-33, WSKG-46, WKBS-48 (520), WBGU-70.
- 2230 KCBJ-17 Columbia, Mo (480)
- 10-27 Tr 0030 KUHI-16 Joplin, Mo (650)
- 0545 WNRE-28, WDAU-22, WSYE-18, WICZ-40, WHEC-10
- 0605 KMBC-9 Kansas City (640)

- 11-9 Tr 1855 WKPT-19 Kingsport, Tn (420)
- WKYT-27 (330), WKHA-35 (380)
- 1900 WRFT-27 Roanoke, Va (440)
- 1930 WBRA-15 Roanoke, Va (440)
- 2125 WBLG-62, WLEX-18, WMUL-33
- 11-11 Tr 2345 WKPT-19, WRFT-27, WBRA-15 only DX noted...! til 0200
- 11-15 Tr 1845 WKPT-19, WSVN-47 weak for three hours!

I think this is going to be a cold...wet winter forthcoming in the Central region. Fall tropo has pretty much petered out. Hopefully next Spring and Summer will be more normal. The 25th-26th and 27th period was a dandy, but almost didn't make up for a very poor October. All reports for that period would be very welcome here. Conditions really seemed to vary throughout the area. At one time. KUHI-16 and WKBC-48 were in and strong...so some very long ducting was probably possible. The last gasp of tropo produced the same stations on three different days. I don't think that's a coincidence...somewhat the same thing happened last year!

We are entering the "doldrums" of course...the bleak DX season that drives many VHF enthusiasts to lower frequencies. Don't forget the good MS openings this winter... possible Winter Es...and the "winter thaw" we've not had for a couple of years. Maybe this year? In other words...keep your eyes on the tube! Something is bound to turn up! Station notes from Michigan, etc: WXON-62 is currently dark. They are moving to channel 20 (they are taking over WJMY-20's transmitter and antenna...they'll use the third antenna on the trident arrangement shared by WKBD-50 and WTVS-56, in Southfield, Mi). Studios for WXON-20 remain in Walled Lake, Mi. If programming remains the same, I don't see how they can survive. WGRP-FM...a Black owned facility in Detroit, has requested channel 62. WEYI-25's move from Saginaw to near Flint, Mi. and increase in power is imminent. We're becoming surrounded with megawatts! WGVG-35 Grand Rapids should be on by the end of the year...as should WNBP-13 Marquette. Outside Michigan...in the region, several Ohio educational outlets should be on soon (all Us with fairly high power)...the Wisconsin ETV network is growing slowly, with a recent request for channel 28 in Colfax. Finally... it looks as if a fairly active CP is in process for channel 66 in Terre Haute. One more note on the late October opening. Several other DXers were active. Morrie Goldman had good results..his best (I think) was WCWB-41 Macon, Ga. Nice. Dave Janowiak was not active during the opening. Keep in touch everyone! Have a good holiday. My 1973 New Year's resolution is to start getting my column in on time. 73s. Rog



Canadian Radio-Television  
Commission

Conseil de la Radio-Television  
Canadienne

Compiled & Edited by:  
J. JOEL ROSENBERG & MARK L. LEWIS  
of Downsview, Ontario

NORTH OF THE BORDER

FOR NEWS IN CANADIAN BROADCASTING

FM REPORT

FM APPLICATIONS

- BAKER LAKE, NWT 99.5 MHz 60 watts omni (Eskimo & Eng language)
- CHILLIWACK, BC 102.1 MHz 81 watts h/v (CBC FR) ---application later withdrawn
- BRANTFORD, ONT CKPC-FM 92.1 MHz Present Op'n's: 10.2 kw, EHAAT 223 omni
- Proposed Op'n's: 50 kw h/v, EHAAT 385 omni, new site near St. George, Ont
- TORONTO, ONT CHIN-FM 50 kw, EHAAT 310 Pres Op'n's: 100.7 MHz Preps: 107.1 MHz
- TORONTO, ONT CJRT-FM 91.1 MHz Present Op'n's: 27 kw, EHAAT 124
- Proposed Op'n's: 50 kw, EHAAT 389, new site (CBC tower??)
- PETERBOROUGH, ONT CHEX-FM 101.5 MHz Present Op'n's: 2.64 kw Prop Op'n's: 31.4 kw

STATION LIST

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# WESTERN FM DX

Editor:  
Mike Dorner, Jr.  
1409 Hymelia Ave.  
Metairie, La. 70003

-----  
FEATURING DX FROM THE LAND OF BEGINNING AGAIN  
-----

Glenn Hausor, Box 62, Von Ormy, TX 78073

(7 Oct - 6 Nov 1972) (CST always)

A rather unusual combined Es and tropo opening noted here on 16 October, but fortunately the propagation of only one station is still in doubt. Added another of my most-wanted 10-watters. Late in October, while doing a TV signal survey at Calvert, TX 150 miles NE of Von Ormy, had time to log a few FM stations during a topop opening, using my usual FLOOT tuner, but a 70' high lowband log antenna. New stations in my Von Ormy log are underlined.

10/12	0803	91.7	tropo:	KVTT	Dallas TX	C	265	ID, pop mx
10/16	1042	98.1			<u>La Chica Musical</u>	N	265	ID but no call; 1101 dental PSA. Tnx Russ Brown for tip.
	1117	94.5		KLEF	Houston TX		200	apparently back with full pwr, tower
	1904	91.1	Es	<u>WFAM</u>	<u>Jacksonville FL</u>	N	1020	rock, in & out, 1917, 1921; 1926 EDT, ment Jacksonville. request lien; 2009 rock; 2020 strong jazz; 2030 Ae mx
	1914	89.9		WJCT-	Jacksonville FL		1020	cl piano mx, in & out; 1921; 1947 cl mx; 2013 Boston Pops intermission "FM \$90", ID, 2021 pops; may be aided by trops this end
	1929	92.3	tropo	WGWK	Laplace, LA		495	Big Country ID
	1945	89.3		WPCS	Pensacola FL (AL)		660	"Bible for You" weak and steady soon gone
	1946	88.3		<u>KRVS</u>	<u>Lafayette, LA</u>		400	<u>10-watt</u> , CDT, TC RR; 1953 f/out 1958 ID, etc. just over noise. 2130 local wx, ID, ment USL radio service; Es? scatterry
	2015	89.7	Es?	WUSF	Tampa FL			
	2019	91.5	Es	WFSU	Tallahassee FL		865	i/v re historical preservation vs. urban renewal; 2029 ID, soon gone
	2040	107.1	tropo	KSLO-	Opelousas LA		400	local ID, wx
	2159	89.9		WWNO-	New Orleans LA		510	end pgm, ID, s/off "God Bless America" 2203:20 off
QTH: <u>Calvert, Texas: 70' ant, log lowband</u>								
10/20	1244	93.3		KTEN	Ada, OK		265	local ad
	2224	89.1	tropo	KTCU	Fort Worth, TX		125	ID, RR, quiet, 10w; 2239 "EL" ID sked as 1-11pm; live anncr, mike has hum; water and bird sounds i background. Earlier said on till 1 am SS o/Tyler ET anmt 25 kw 520' ant
10/21	0910	93.1	MS	WXRT ?	Chicago IL?			
10/23	2107	107.9	Gw	KCIR-	Corsicana TX		75	AFN: nx, WME2 credit; rlgm 1748 a 355 completely o/VTT; same direction end "Back to Bible," ID
10/24	0805	89.3	tropo	WPCS	Pensacola FL (AL)		535	
	1809	91.7		KOSU-	Stillwater, OK		715	
	1814	88.9		WKES	Chattanooga TN		715	Spanish pgm!
10/25	0043	90.7	Gw	KUT-	Austin, TX		75	

Until the next, 73 de Glenn

Pat Dyer WA5IYX, 5315 Silvertip Drive, San Antonio, Texas 78228

Not much to report in the way of DX this time.

Oct 14: good morning tropo, 1020 (CST) KWLW 93.9 San Angelo TX (185 mi) with news and

local ads plus ID (so strong at first I thought it was KTBC-FM with new call).

Oct 21: hoping for better luck with the Orionids than the Giacobinid flog, I parked near 95.1-95.3 agn; 0000-0100, only two bursts over 1 second; 0100-0200, better with some 6 longer than 1 second, the longest one of 10 seconds at 0149:20 ... but nothing even close to an ID.

Oct 23: 0119:30, 15-second burst was high point of my efforts there.

Oct 26: trop up well, but only re-logs: 0045, WBAP-FM 96.3 Fort Worth TX (240 mi) with automated ID; 0059 WFAA-FM 97.9 Dallas TX (250 mi), with ID etc.

Nov 9: 0000-0100 meteor activity up fairly well, perhaps a prelude to a good Leonid showing (and the sometimes mid-November Es).

(Ed. note: Pat enclosed these comments with his August report. Space now permits their inclusion.)

"On detailing program data with loggings: maybe I'm not trusting enough, but putting down specific commercials, etc., is an excellent way to help others with unID's and also a good way to increase fraudulent reports and claims. So far only one of Hauser's pgm notes has helped an unID (WVIC, May 15th). And I'm the one most likely to be co-logging the stuff he is being in the same area (just like the New Orleans guys and you might be). As you noted, you were not getting the same DX stations at the same time I was. Since HQ has put their word in on the matter, I won't ramble about it."

"Format for stations -- the list of abbreviations in WUD...doesn't seem to cover all those used in the FM column. Even if I knew what they 'meant' I'd still have to be given examples of their formats (other than the obvious C&W and classical) to be able to judge what a DX station really was. Better none than the wrong one.

"My personal preference for DX loggings listed in the FM column would be the style Dennis Smith uses in the TV Western -- it's a lot quicker to scan through and find things than the paragraph style that Roger Winsor insisted on.

"On re-logs: HQ also has spoken on this. I got quite a letter from Holbrook in June re my comments on 'locals' (i.e., aircraft). He also has this thing about not liking re-logs. If I can ID the DX it's logged. Especially with Es, you can't ignore the importance of tracking data at these FM frequencies.

"The Allied 426 is a vy good stereo rvr. Maybe my antenna is not so hot fo FM as the sensitivity is not what I expected compared to what I was using (except perhaps the 88-92 range seems hotter); also the 'double peak' tuning on stations (I've noted with some rcvrs before) doesn't thrill me either. Can't win sometimes. The Wards rcvr with all its spurious responses is also developing some more problems with the tuning capacitor in the 93-96 range in need of some cleaning, etc. I'm not desperat enough yet for an AJ-1510 (or even an AJ-15)." 73.

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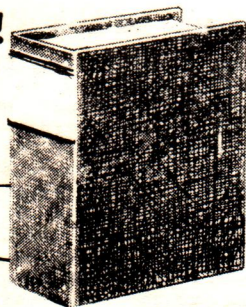
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# SOUTHERN FM DX

Editor: Richard E. Wood  
820 Arlington Ave.  
Baton Rouge LA 70806  
Tel. (504) 343-7771  
Deadline: 13th. of month



-----  
FEATURING FM FROM LOUISIANA TO MARYLAND  
-----

Michael Dorner, Jr., 1409 Hymelia Ave., Metairie LA 70003

6/28 0625 WWAG 94.1 Carrollton AL finally broke thru semi-loc WCCA w/ \$ EL, ID & nx 0630; sht fade & flutter...  
6/30 1945 tnx to Ron LeBlanc, Spur Tree Jamaica came in w/ horse racing & various pgms, for 5th. country. Extraordinarily poor quality because my AJ 13-A overloads badly...  
7/3 1900 brief Es brought ID for KSJN- 91.1 Mpls-St. Paul MN "Listener-supported Radio", into CL mx pgm, out quickly...  
8/7 0530 WEL0 98.5 Tupelo MS, EZ atmted, MoR mx, \$. "Sound of music"...  
0535 WLSM- 107.1 Louisville MS...  
8/11 1026 KOBS 104.5 Orange TX, long-dormant CP activated, RR mx w/ top 40 & live anncrs; mono, tinny audio, distortion on high peaks; one day had severe hum on the audio. Sound has since improved, but format seems to have become more MoR daytime. (I would say even EL, REW) Hours 6am-10pm ...1258 brief Es brought WJIM- 97.5 Lansing MI w/ ID & commercial; faded rapidly...  
9/1...1800 WAMU 89.5 (my lists show 88.5, REW) Washington DC w/ ID in middle of "All Things Considered". Ron notified me of brief Es in progress, which lasted about 10 mins., but this was all I could ID.  
10/17. Notice the gap in dates. Trop cx are very poor. September is always a sleeper month for me. KBUC- 107.5 San Antonio noted on new freq., 2313, w/ C&W mx, \$, 24h. sked. Under Elving's Constitution, do I count this as a new stn? If not, do I count the new stn which will come on the old KBUC 106.3 as a new stn? Otherwise, I will never be able to count a brand-new San Antone area stn! (I say yes, both times, Mike; DX-ing is a personal matter and you should follow your own standards. REW)  
10/18 0705 KGRI- 100.1 Henderson TX (one of my closest unheards; much wanted, REW) w/ local nx, wx & ID, w/ spot for Head Ford. Barely audible, heavy QRM.  
10/25 2153 KWMU St. Louis MO 90.7 out of CL mx, ID "We're serious about St. Louis at KWMU." Begin program, "Supplement."  
All in all, pickings have been slender around here for the past 4 months.  
73. (Thanks for supporting my column still, Mike, now that you have your own column to edit. I'm sorry to see that all you got of the fantastic northern, Great Lakes area tropo of Oct. 25/26 was KWMU. See my report for comparison. Grand Rapids MI was in well before midnight that night. REW)

Kenneth R. Simon, 528 Pilgrim Rd., West Palm Beach FL 33405

5 Oct 72 7:40 pm EDT 91.1 w/ CL mx Jacksonville FL (255 mi.) QSL'ed via letter from Christopher J. Hall, CE saying stn went on air 3 Oct 72. Owned /op'd by Jones College (also owns WKTZ-). (Call in WFAM; please give calls, Ken, REW). Rx: Harmon Kardon SL-10. Ant: 10 el dipole at 20ft. Need addresses on: WMEH- Bangor ME; WHAD- Delafield WI. Totals: 10 stations, 5 states, 5 Es. Verified: 6 stns/3 states/2 Es. (On addresses, Broad-casting Yearbook, though expensive, is a good investment. Address: 1735 DeSales St., NW, Washington DC 20036; pre-publication reduced price if paid w/ order for 1973 issue: \$13.50. Otherwise, \$14.50. Delivery Feb. or Mar. (REW, who thanks Tom Sundstrom for this info.) (Let's have a longer report next time, Ken: trop from here to Palm Beach was magnificent around Oct. 30, and I expect you got some reciprocal reception of LA, TX, MS, etc. REW)

Compile an updated by-frequency FM Log. 1. Obtain Vane Jones N. American Radio-TV Station Log, 8th. Edition. (\$3.95 from Howard W. Sams, Inc., 4300 W. 62nd. St., Indianapolis IN 46268.) 2. Remove FM by-frequency list pages. 3. Xerox alternate page-pairs. 4. Collate pages by frequency. 5. Cut into single-column strips. 6. Paste onto looseleaf sheets. 7. Update with VUD.



ur. Richard E. wood, 82u Arlington Ave., baton Rouge LA 70806. CLT.

On Oct. 21 WTFDA'ers Ron LeBlanc & Tommy Courtney, plus a prospective member, came and gave my FM quad a new lease of life. They increased the vertical spacing between the 4 CM Stereo Probes to  $5\frac{1}{8}$  w/l (3 m., for 100 MHz); horiz. spacing is unchanged at 3 meters. They turned the lower pair of Stereo Probes upside down, and replaced the old Archer splitter/matcher w/ a Channel Master 7144 splitter/combiner, greasing all connections. Four C.M. 00358 Baluns were added; the 300-ohm download was replaced by 75-ohm Balden (which may in turn be replaced when we can get something yet better). To avoid out-of-phase sway among the 4 antennas, they were braced at one end with 50-lb.-test fishing line (box-kite construction). Mounting problems prevented similar bracing at the other end. The 75-ohm line was run to a CADCO low-loss switch, where it now alternates between the quad and a new single Winegard 11-el SC-650 FM antenna, on 25 ft. pole (replacing my former single Archer). Finally, all connections such as the rotor leads, almost eaten away by corrosion from Baton Rouge humidity and pollution, were cleaned or replaced. A Winegard TR3-2FM trap was also installed, to reduce local images. The following report is the dual result of this improved set-up and excellent trop conditions.

Oct. 20	All Tr		Rx still: Heathkit AJ-15.
0905-0920	93.9 WFMW-	Madisonville KY	530 "FMM \$" SID, Big Band instr's, Sav. Bank spot, live
Oct 24			
1630-1700	106.5 KESY	Galveston TX	250 Net nx; contest, EL stands; \$ (ex-KGBC-); ID as "K-Easy"
Oct 25			
0830-0845	99.7 WLTA	Atlanta GA	457 Bultr Brd, auto EL
2215-2245	93.9 KWPM-	west Plains MO	430 auto EL, loc wx, "Tempo Time"t/cs
2250-2305	105.7 WOOD-	Grand Rapids MI	915 auto EL, ID for AM/FM, loc spot, continued audible all night, good stud anncr RR, UG
2310-2345	91.3 KBIA	Columbia MO	585 stud anncr RR, UG
2340-0003	91.7 KOSU	Stillwater OK	510 CL, stud ann, 2355 nx, s/off DSU Glee Club SSB, tx 4.25 mi. S.
Oct 26			
0040-0100	104.5 KEZT	Dallas TX	367 EL auto, ID "Kast", upbeat MoR (ex-KIXL-); 24h., verified stud anncr nx, abrupt s/off
0055-0100	90.5 WKAR-	East Lansing MI	926 stud anncr nx, abrupt s/off
0115-0130	101.5 WBIE-	Marietta GA	468 C&W, auto t/c's, remote wx rpt
0145-0203	91.9 WSIU	Carbondale IL	500 Contemp RR, UG, stud anncr; re-sounding "America" s/off
0205-0215	98.1 KSLQ	St. Louis MO	567 RR, live DJ, PPA's (new calls but not earlier hrd; verified) EL auto, PSA's, "\$ St. L."
0255-0310	93.7 KCFM	St. Louis MO	567 EL auto, PSA's, "\$ St. L."
0330-0345	105.1 WEAW-	Evanston IL	814 loc nx, PSA, wx, lt contemp mx
0341-0355	96.9 WPAJ-	Paducah KY	480 nx flash, live C&W, wx
1105-1130	94.3 WARI-	Abbeville AL	365 live C&W, insistent local spots
1106-1115	92.7 WULA-	Eufaula AL	385 instr mx, local spots
Oct 30			
2200	106.1 WRFS-	Alexander City AL	340 s/off, give chan. no., Dixie
2300-0010	92.7 WCCF-	Punta Gorda FL	525 MoR inc some CL, 24-hr., MBS nx, auto, good for power, all night C&W live, \$, 24hr.
0006-0030	93.5 WALJ	Naples FL	645 C&W live, \$, 24hr.
0037-0100	99.5 WQYK-	St. Petersburg FL	547 Ctry Gospel, "Quick Ctry", nx.
0725-0740	91.3 WTHS	Miami FL	779 "Opening exercises" (lengthy s/on), pledge, SSB, into MoR
0740-0750	95.3 WSOR	Ft. Myers FL	630 Ctry Gospel, C&W, DJ live
0751-0800	96.9 WINK-	Ft. Myers FL	630 lost dog info, MoR; QRM KSLI TT
Oct. 31			
0730-0800	91.9 WUOT	Knoxville TN	565 CL, stud anncr, t/c
0744-0755	95.9 WDXE-	Lawrenceburg TN	395 loc spots, MoR live; surprise catch
Nov 1			
0757-0820	100.1 WTUN	Selma AL	280 C&W live, loc wx; much-wanted
Nov 2			
0740-0805	101.1 KJKL	Shreveport LA	208 Gospel mel's, "Inspirational R"; NBC nx., loc spots
0800-0820	102.3 KBRI-	Brinkley AR	325 DJ, loc spots, MoR
2130-2205	95.3 WJDB-	Thomasville AL	220 First day on air! remote sport, FM only ID, C&W, mixed

## Richard E. Wood (Cont.)

Nov 8				
0010-0036	96.9	KULP-	E1 Campo TX	355 On late for Election, local returns, 558 s/off, to resume 9am. Normally blocked by KSLI LA here.
0015-0100	96.7	KGTN-	Georgetown TX	450 As above; returns via T.S.N., local ID, spot 0030
2315-2345	106.3	WSPB-	Sarasota FL	577 EL auto, wx, 24h., AM/FM ID
Nov 9				
0005-0045	106.3	KXOW-	Hot Springs AR	298 Ctry Gospel auto
0400-0430	104.7	WEZX	Tampa FL	551 EL auto, ID as "Easy", "\$105" (ex-WPKM)
0400-0500	102.7	WCKO	Pompano Beach FL	750 Soul, live Soul Gospel, ID AM WRBD // FM
0415-0445	105.1	WYOR-	Coral Gables FL	779 MoR/EL auto \$; license info 0430, then more EL
0440-0500	103.3	WDUV	Bradenton FL	570 U.FL health pgm, wx, auto t/c, PSA's, "Mx just for the 2 of us" (Synd?), \$
0508-0520	93.9	WBUS	Miami Beach FL	780 Prog/UG, live DJ, horoscope promo, "the magic Bus".
0515-0530	94.1	WVFM	Lakeland FL	575 "\$ 94", loc spots, nx, MoR
0530-0600	97.5	WHFL	Winter Haven FL	580 ID as "\$ nine-seven-five"(!), auto ID thus, "Exciting Isle", upbeat MoR/EL
0548-0600	91.7	WHRS	Boynton Beach FL	725 incredibly small-time talk, e.g. kid describes melting candy bar in pocket; EE/SS dedications, "Felicidades"
Nov 12				
0545-0615	106.9	WERC-	Birmingham AL	330 Live DJ, RR, "WERC Metro nx" 0555, into Master Control (ex-WBRC-); ID Moody Bc. Corp.
1030-1130	103.9	WCLD-	Cleveland MS	230 New station; auto EL, \$, nx.
0520-0540	102.9	KDTX	Dallas TX	367 "Mañanitas del Norte" SS; SS/EE ID, ranchera mx.

Besides the above new catches, many unnn. relogs, e.g. WELW 107.9 Cleveland OH by Tr Oct. 26 (previously by Es). Significantly, Oct. 26 was the precise anniversary of my first great opening to the Great Lakes/northern Mid-West. For example, WNAP Indianapolis was first heard Oct. 26, 1971; not hrd again until Oct. 26, 1972. A pattern here? A broad high-pressure belt lay over the whole Mid-West that morning.

## Ronald J. LeBlanc, 2524 Arizona Dr., Marrero LA 70072

7/8 Es, 1559 WLEW 92.1 Bad Axe MI, Nx (1034), 1606 WVIC 94.9 E. Lansing MI \$ (930), 1628 WCCW 92.1 Traverse City MI, nx & wx (1056), 1630 WFEM 92.1 Ellwood City PA \$ (922), 1659 WZAK 93.1 Cleveland OH, \$ Sal Navaro Pgm host (922), 1724 CKPC 92.1 Brantford, Ont. \$ nx & ID (1080), 1759 WBCO 92.7 Bucyrus OH promo Welcome wagon (854), 1909 WELW 107.9 Cleveland OH record comm. \$ (922), 1914 WKBN 98.9 Youngstown OH, ad Miller Furniture Co. (944), 1935 WKHM 106.1 Jackson MI, \$ nx & wx (900), 1938 WFMK 99.1 E. Lansing MI, \$ (930), 1940 WITL 100.7 Lansing MI, Ctry hit survey, Jerry Randall (930). (Some good ones there, REW).

7/9 Es 1108 KBAD 92.1 Carlsbad NM pop, ad Carlsbad Build & Loan (876), 1114 KRWC 90.7 Las Cruces NM C&W \$, nx (1034), 1115 KSVP 92.9 Artesia NM, pop \$ (885), 1130 KBIM 94.9 Roswell NM, \$ (900), 1220 KNUW 89.1 Wichita KS (674), 1300 KOOL 94.5 Phoenix AZ, \$ Stereo 72 KOOL FM (1317), 1320 KMEQ 96.9 Phoenix AZ, pop \$, KMEQ \$ 97 FM & 74 AM (1317), 1325 KLPD 97.9 Tempe AZ (1300), 1329 KRFM 95.5 Phoenix AZ, pop \$ KRFM Phoenix \$ 95 KRFM, all mx all the time, (1317). 1335 KTAR 98.7 Phoenix AZ, \$ Solid Gold (1317), 1336 KNIX 102.5 Phoenix AZ, \$ C&W ad for Tex Earnhart Ford shows (1317) (very good w/ Baton Rouge on there, REW), 1340 KHEP 101.5 Phoenix \$ (1317), 1348 KBUZ 104.7 Mesa AZ pop \$ "from the stn that plays more

FM SOUTH

December 1972

Ronald J. LeBlanc (Cont.)

beautiful mx and fewer comms." (1295), 1350 KDOT 100.7 Scottsdale AZ \$ alt. w/ WQXY Baton Rouge (1300) (good, REW), 1405 KAFF 92.9 Flagstaff AZ, nx & wx \$ (1310).

7/11 Es Many unid. w/ KWBI 91.1 Morrison CO, in.

7/22 Es 1900 WUI 90.1 Ames IA, \$ (854).

8/2 Es 1910 XHM 88.9 Mexico City (917). (Programming? REW)

8/6 Es 2035 WLFM 91.1 Appleton WI, \$ EL (990), 2040 WLSU 88.9 La Crosse WI La Crosse WI, CL (966), 2042 WHRM 91.9 Wausau WI, \$ CL (1034), 2119 KYSM 103.5 Mankato MN, \$ (1012), 2124 KLGA 92.7 Algona IA, RR (922), plus many other unid.

8/17 Tr 1930 KOBS 104.5 Orange TX, RR (224) (Northerners should try this powerful newie, REW).

8/21 Es 1915 KKFM 96.5 Colorado Springs CO, \$ (1040).

9/4 Tr 0035 WDOF 99.7 Dothan AL, pop \$ (305).

9/23 Tr 2230 KDBH 97.7 Natchitoches LA, C&W, side-by-side w/ KAPB 97.7 in Marksville LA (224). (Yes, that's a difficult one, REW)

10/16 Tr 0015 XHMLS 98.1 Matamoros, Tams. \$ La Chica Musical (562). Plus most all E. TX stns. (XHMLS is unheard here, REW)

10/17 Tr Most all E. TX stns.

10/22 Tr 1215 WKDZ 105.1 Kosciusko MS, \$ nx (220).

10/24 Tr 2243 KJAK 100.5 Oklahoma City OK \$ religious (575). (Nothing ever hrd here yet on that fq., REW). Plus most E. TX stns.

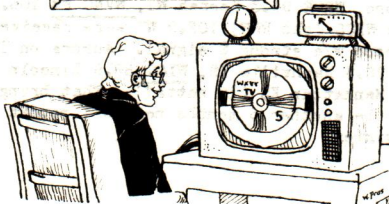
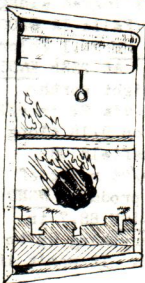
10/25 Tr 1738 KWMM 90.7 St. Louis MO \$ nx. (610), 1800 WILL 90.9 Urbana IL nx & wx (720), 1801 91.1 WKNO Memphis TN (366). Plus some Dallas stns.

10/30 Tr 1730 WXHM 102.3 Milton FL \$ C&W (200) (One of my closest unhrd, REW), 0050 WRIL 100.1 Grenada MS, Soul \$ (280), 0101 103.9 WCLD Cleveland MS \$ EL (275).

11/4 Tr 2330 KBCL 96.5 Shreveport LA \$ (289), 2356 WHBQ 105.9 Memphis TN \$ Solid Gold.

11/7 Tr Many E. TX stns heard on this date 1700 on.

11/8 Tr More TX stns plus at 1840 KJAK 100.5 Okla. City OK C&W, 1845 KINB 107.3 Poteau OK C&W (456), 1914 KEEL 93.7 Shreveport LA EL \$ (289) (Did you catch ID, Ron? Call has been KMBQ since at least Sept. REW), 2257 WDIZ 100.3 Orlando FL \$ nx (510), 2300 WIRK 107.9 West Palm Beach FL \$ pop (666), 2317 WQXM 97.9 Clearwater FL \$ EL (488). Total stns. hrd. now, 367, six countries, 23 states, 2 prov. (Thanks for your faithful support, Ron, REW)



"Wow! I've never logged that semi-local by MS before!"

# NORTHERN FM DX



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

Russ Brown 3274 South Lake Shore Drive St. Joseph MI 49085

10/16 new WISS 102.3 thru WQTC @0900. 10/25 coincidence strikes w/tropo to almost the exact same places on the exact dates as in 1972, 2000 WAFB 98.1 Baton Rouge (850) SG, good \$, WNOF 101.1 New Orleans w/cw @2200 (865) lasted 'till 1200 next day, KRAA 94.1, KLAZ 98.5, KARN 103.7 in all evening f/Little Rock, WJRO 102.5 Baton Rouge @2334 spots, progressive, WLFR 96.1 Mobile AL (800) ID @0000, WALT 97.1 Meridian MS (740) HP @2230, KRBE 104.1 Houston (1000) briefly ID/rock @0054, only 3 hrs. difference in time in hearing this one on 10/26/71!, WIXO 98.5 New Orleans top 40 @0108, WEZB 97.1 usual "EZ" mx, local mx @0115, WWSL 105.3 Slidell (855) rock @0100, WBOP 101.5 Pensacola FL (820) s/on @0400 then "early morning Gospel Train", WMEZ 94.1 MoR @0600, KNOE 101.9 Monroe (745) rock @0900 mixed w/WVL, Memphis KC in well this am, later KWTO 98.7 Springfield w/rock @1930 (500), KWTO 97.3 gospel @2000, KSYN 92.5 Joplin (550) ID @2015, KC/Topeka booming in, long sought WJMU 89.9 Decatur IL (190) w/rock @2200. 10/27 0500 tremendous local quality sigs to Syracuse, but had to leave @0600. 10/30 to 11/1 very memorable aurora in regards to the wide area being picked up, WFZS 103.7 Richmond VA wx @2201 then MoR, WFCR 88.5 Amherst MS, local mx @2235, WRVO 89.9 Oswego NY oldies f/2230 to 2300, WRBS 95.1 Baltimore gospel @0017, WSPA 98.9 Spartanburg SC spot @0042, WDRM 102.1 Decatur AL cw @0045, WETA 90.9 Washington DC s/off @0101, WPUV 90.7 NYC 0105 s/off by YL, WPKN 89.5 Bridgeport CT rock @0130. Lots of AN stations noted in the educ. band like soul on 89.9 which seemed to be WKCR, WDAS 105.3 Philly soul @0136, WTOQ 102.1 MoR @0200, WMMR 93.3 progressive @0259, O330 WIVE 100.1 Ashland VA ID/canals gospel after hearing it for many years and never knowing who this was, WBTF 101.5 GA cw in AN, WWSH 106.1 wx for Philly & vic. @0304, then MoR, and best of all KWVO 106.3 Cheyenne WY w/cw good audio 'till 0430, that gives me all WY commercial stns., for what it's worth. Most freqs. too jammed for usable IDs, 97.1 offered about 6 or 7 stations which are just too many. 11/2 tropo just ahead of a cool front 0630 WNOF 101.1 NO, WPAD 96.9 Paducah KY w/cw @0645, WSLI 96.3 Jackson MS ID @0700, Memphis/Nashville in well 'till 0800 when opening ended. New WLCL 107.1 Lowell IN FT @0000 11/4 and WFLM 103.9 Crown Point IN as the band continues to fill up in these parts. 73.

John Ebeling 9209 Vincent Ave. South, Bloomington MN 55431

Just realized that I haven't written up a report for about 5 months. I guess time and vacation trip just did not permit it until now. I'll cover all reception since the last report, which included the wonderful Es day of June 2. I realize many stations reported below may now be irrelevant, but feel some of them important. All times CST, new underlined: Good Es was continued on June 8. At 2033, KTEP 88.5 El Paso began the opening. continuing @2100 w/KTAR 98.7 Phoenix AZ, 2102 KRWG 90.7 Las Cruces NM, as 2105 KPMC 96.1 Provo UT ided, back to TX again @2120 w/KPNE 95.3 Big Spring, 2130 KBYU 88.9 Provo and @2140 KWHO FM 93.3 Salt Lake City 2145 provided KTRP 97.5 El Paso, at 2203 KBIM FM 94.9 Roswell NM was logged along w/67KHz sub carrier. June 16 brought some tropo, w/KTCF 88.1 Cedar Falls IA @2004, WYXE 92.1 Sun Prairie WI also @2301. June 17, aurora hash Es w/KRDO FM 95.1 Colorado Springs CO for about 20 min. w/ID @2330, ant. had to be aimed west. At 2335 KADI 96.3 St. Louis by Au on their new freq. For KADI the ant. was straight north producing the normal aurora "hash". New state of Montana was added via Es on 6/27 at 2315 when KGWV FM Belgrade was logged. KTIT FM 93.5 Columbus NE on 9/18 along w/KVNO 90.7 Omaha via tropo, WROE 94.3 Neenah WI, WVNO FM 106.1 Mansfield OH (over ½ hr) and WFWO (now WBGS John RWW) 102.9 WI were received. 9/23 relog of WHIO FM 99.1 Dayton viatropo w/a strong \$ signal. Aurora on 10/31 produced WNSD 88.9 Notre Dame IN, WPIN 90.3 Nashville TN, WLCC 88.9 Lincoln IL, CJOM 88.7 in Windsor ON and KSDB 88.1 Manhattan KS (10 watts?). That brings everything up to date. Hope that it won't be another 6 months before I report again. It won't if DX is halfway good this winter.

NORTHERN FM DX FOR DECEMBER 1972

Albert H. Ellis 19 McClure Avenue Brantford, Ontario Canada N3r 4L7

Rare are my reports. Too dang old and onery to write. Been listening since "21". Novelty "ain't wore off yet". Rovr AJ 15, is there any other? Last Friday October 27 was a rip snorter for solid DX on FM. Got up early (had to) afterwards turned set on. Loaded with stations from the west and north, Illinois, Indiana, Wisconsin. WYCA 92.3 Hammond, WHWC 88.3 Colfax WI, WZUU 95.7 Milwaukee, WMBI 90.1 Chicago, WSIE 88.7 Edwardsville IL, WHKW 89.3 Chilton WI, WISU 89.7 Terre Haute IN. When I left for Buffalo NY at 1500 WHKW was still pouring it in. Dames talking about this and that. Some of these stations received tapes and letter for verifications. WMBI who has never verified after two tries, DID not. Anyone wish a list of stations that do not verie? (Such a list is not too beneficial as some will verify for some and not for others, depending upon the CE mood, plus availability of time. RWW) On my return at 2300 WMBI was still heard. Amateur stations in Ottawa could be heard at 144MHz or Two meters. IT was moving eastward. Next day nothing. The old man.

Shelby Remington 257 West Spring Street West Haven CT 06516

I've moved again, new address above. On 8/5 caught aurora with CJRT 91.1 and CKFM 99.9 both Toronto, this is the only one of the 3 big auroras I've caught DX on this year (Nov. 1 A index up to 74, TV had loads of CCI, but no FM in). September very big tropo here (for me, anyway); 9/1 duet brought WTGR 101.7 Myrtle Beach SC (630) and WPXI 95.1 Charleston SC (700). Both were in steady for 2 hours, the Ray Terlaga in Ansonia, 10 miles from here, had no trace; both verified. Then on 9/28 0244 WJFM 93.7 Grand Rapids w/HI (660), state #33; 0259 WOOD 105.7; 0322 CJOM 88.7 \$ Windsor; then zap! 0325 WPTH 95.1 Fort Wayne IN (630) state #34 w/request pgm; then 7 others from 0328 to 0430 in Detroit/Cleveland/ Buffalo areas. Later that day, caught WRIV 108.7 Ithaca, and WCNY 91.3 and WDDS 95.1 Syracuse, my most wanted city. On 10/19 WPJR 99.1 off, tropo scatter brought WCME 98.9 Brunswick, ME; called DJ for confirmation and he insisted I was kidding him (233). 11/2 noted WWEB 90.1 10 watts Wallingford CT w/strong signals after being off for weeks, then share timer WFCS 90.1 in New Britain sounding more like 100 watts. Now need just one more CT stn WKSB 90.9 Kent which I visited recently (10 watts) sked 1600 to 2100. Went to NYC hi fi show, saw the \$1600 Sequerra tuner, which is unimpressive. Also saw trototype of Sony digital tuner, list \$1200, available next summer; has rown of lighted buttons, and 2 separate pro gramable memory cores, as Teck Notes recently discussed regarding the AJ 1510. Local hi fi stores, in addition to carrying the FM station atlas, has the SFL 300 SAF and Citation 14 tuners side by side; SFL 300 has fantastic selectivity; the Citation has super S/N ratio; and SAF isn't so hot. I wonder if it would be considered unethical to use a VOX circuit, triggering a tape deck, to grab MS burts while the DXer is asleep! 73.

Fred Nordquist 302 Sandra Lane North Syracuse, NY 13212

Cold, miserable, drizzly wx and DX cx have prevailed during Oct. here in Central NY. Fs was noted momentarily on FM at 1935BELT on 10/17, but no IDs. Several Au and tropo periods noted. Here's what's hrd: 10/12 Au noted at 2200 w/unn CJOM/WGBH et al. 10/27 tropo 600 miles to west, w/unn WMBI/WKAR 0015, WOOD 105.7 MI o/CHSC w/MoR 0046. 10/31 very heavy Au cx @2300: WDEA 95.7 ME w/nx/wx w/good audio @2340 (400) and very many unIDs, unn WJFM 93.7 (I get them almost every Au outbreak). 11/1 Au cx cont: WRBS 95.1 MD w/ID @0020. 11/3 new WDOWN 88.9 Auburn N Y noted w/folk/RR 2100. Also noted was a bootleg station probably operating out of the SU dorm w/PR mx and anti establishment slurr, on the pm on 90.3. NY total now up to 107. NC is only state needed east of CO. Also needed are Maritime Provinces, which will be tough to log. 73.

William O. Dickerson YMCA Williamsport PA 17701

Here is my Northern FM DX report for this month. Two new stations logged since last reports: 10/26 WPIX 101.9 NYC @0051 EST weak. 10/27 WOOD 105.7 Grand Rapids MI heard fairly well @0600 EST. This is the most distant FM station heard on my Zenith since I bought it (460). WPIX is 160 miles. This and WNFV are the only FM I have heard from NYC, yet I have heard 6 FM stations each from Pittsburgh and Cleveland, which are most distant than NYC. A WLYC FM announcer here says WLYC FM is applying for the call WLIQ.

NORTHERN FM DX FOR DECEMBER 1972

Al Kopec

Ed. note: due to my oversight, this report was inadvertently not printed about 2 months ago, so I apologize for the delinquent report, Al.

I've done very little DXing so far during 1972, but I did manage to catch at least parts of some of those spectacular Es openings during June and July. Also, with the tips on Winnipeg all nighters in Bruce Elving's column in the August VUD and a little help from the Perseids meteor shower, my first two Manitoba stations were added to the log in less than an hour's monitoring on each frequency. The highlights of the summer so far, however, was an unexpected visit from Waldo Bishop on August 22, who was in the area visiting relatives and dropped in for a most enjoyable though all too brief chat. 6/2 1200 91.7 WHRS FL, 1501 92.1 WHMS, 1530 89.1 unID undoubtedly ZEM again. 6/8 Es 2000 89.7 WUSF FL, 2000 90.7 unID in SS, Cuba?, 2022 98.7 WARN FM FL, 2023 102.7 WCKO FL, 2030 100.7 WMJR FM FL, 2030 99.9 WWOG, 2031 99.1 WRDR, 2100 104.5 WRAT FM, 2100 93.5 WGYL, 97.5 WHFL, 2106 106.9 WDLF, 2130 97.3 WMIYQ, 2130 95.7 WTAN FM. 7/1 2100 93.9 WMTM FM GA, 2126 WDIA 100.3 FL ex WKIS FM, 2130 97.1 WALT MS "97", 2130 96.3 WSLI FM, 2145 93.7 WWHI FM ex WB11, 2146 94.1 WPEX, 2153 96.3 WJIZ GA, 2157 WZAT 102.1 w/solid gold, 2159 89.3 WPCS, 2159 WDEF FM 92.3 TN, 2200 88.9 WKES TN w/Nightwatch. 7/15 1228 89.1 KMWV KS, 1230 90.9 KCMW MO w/cw "Broadcast service of Mo. State College", 1230 95.7 KOFO KS, 1238 94.1 KCKN FM cw from Radio Park, 1246 94.9 KPMU MO MoR, 1255 103.3 KPBS w/RR, 1255 KKTR 96.5, 1257 KWKI 93.3 "Quicke", 1300 92.3 KJRG FM KS MoR, 1302 91.5 KANU, 1326 90.5 KKCW MO, 1330 89.3 WCAL FM logged prev. by Ms, 1354 101.7 KSTB FM MoR, 1358 93.7 KCMV FM voice of W. Iowa, 1400 94.1 KOWH NF "old ship of Zion" (?? RWW) 1400 90.1 KSJR MN from St. Johns University. 7/22 2000 WDUQ 90.5 PA, 0245 WZG 100.9 new local, 7/23 0400 103.9 WWLZ Mercer PA. 3/9 0245 97.5 CJOB FM MAN via Ms, 8/11 CKY FM 92.1 ditto. Good DXing to all.....

George B. Sherman 104 Pinewood Circle Rosemount MN 55068

I fear the FMDX season is over, so I may have to take up SW DX, hi. Big news here is the addition of Radio Shaok's \$29.95 Archeroter. It works great, but the clicking noise is a bit louder than necessary, and might keep everybody awake as I DX wee hours tropo, hi. Does anyone know if more expensive rotors are more silent in the control box? Now all I need is a good tuner, maybe next year. On 9/18 we had some decent tropo resulting in 15 new ones, none over 500 miles though, so distances not measured. KPMG 94.9 IA ID @1230 CLR, then PR o/u WLVE, KPMG must be up to 100kw as they are fairly regular. KHAK 98.1 IA jingle ID @1235, then into cw, good signal, shocker WPPR 102.7 IN fair/good w/cw, WCCO 102.9 no problem, WGIL 94.9 IL very strong w/cw @0253 w/unID QRM (if it was classical, maybe WSAB GeorgeRWW) WCRA 95.7 Effingham w/QRM de KDHL 95.9, but good signal w/Country Crossroads Show, almost no spots, @1500 had Speaking of Sports w/Larry Wilson, KJAN 103.7 Atlantic IA noted bragging about their 100kw @1505, KIOS 91.5 Omaha fair w/RR @1625, unID 91.7 nx @1845, annor Jerry, suspect KSUI, can confirm this so I don't have to waste 16¢ writing to the station? WDAI 94.7 IL fair w/PR & QRM from both sides @1920, WOLI 98.3 IL w/EL/spots @1941, way o/KTIS 98.5, WRCO 100.9 WI poor u/slop @1950, WSOY 102.9 IL strong ID @2200, no QRM as WCCO had just s/off, WAUK 106.1 WI fair w/MoR 2348 and tropo continued into 9/19 w/WGPR 102.5 MI @0001 fair w/nx KWIM 98.7 Moorhead strong w/HP @0030, the closest to ND I've gotten so far, hi. CBW 98.3 Winnipeg completed that morning's DX @0105 s/off w/o Canada good signal. I didn't think it was possible as my antenna elevation is below the hill across the street. CBW is my most northerly FM and oy #2. Going back to 9/9 WPAI 100.5 IL 2215 thru WCTS 100.3, KIFG 95.3 Iowa Falls 2240 s/off, KMOX 103.3 MO w/MoR 2310, thought WWRW had extended sked at first. Most recent DX was 10/4 when I received my first 10 watter KMSU 90.5 w/cw & UPI nx, fair late evening, KIWA 105.5 Sheldon IA w/RR 2320, then on 10/5 I had unID PR on 107.1 around 0030 very weak. Process of elimination says KASI Ames IA as other stns have different formats, sked to be off, out of range of this opening, and rotor direction is agreeable, so it had to be them, a 99.9% chance at least, if I count it will I be kicked out of club? (George, only other 107.1 in midwest w/PR I know of is WFGU Champaign RWW) A few days ago noted 860 mile tropo WTOP 98.1 Canton OH good signal and WTPDA distance record for 98.1 tropo, but unn. Strangely enough, they were the only station noted beyond Chicago, and the only Chicago noted was WSDM 97.9! Has anybody ever heard of tropo that was 10 times better on 97.9 & 98.1 than the other 98 frequencies?

NORTHERN FM DX FOR DECEMBER 1972

Andy Bolin 709 Lincoln Avenue Charleston, Illinois

Tons and tons of tropo. The best I've done since I started. 106 new in 31 days, and many more after that! Backwards, but when necessary relogs underlined. 9/9 tropo 1730 KFSM 107.1 MO, 2000 KINB 107.3 Poteau OK w/ID/PB, 9/10 0145 KRAL TX, 0347 KPAV w/MoR @0430 KAKC w/Solid Gold both Tulsa. 0600 KPCS Ft. Smith AR w/Son, 0815 KWPN "Queen 895" Tulsa, 0822 KKMA 104.5 Pryor OK w/MoR, 0830 KUOA 105.7 AR, 1000 KOSU (565) Stilwater OK w/s/on, 1030 KMAG 99.1 AR, 1045 KBCL 96.5 good mx, 1130 KMBQ 95.7 (590) both Sheveport plus others. 9/11 tropo @0407 WWSW, 0433 WKJF both Pittsburgh, after 0600 Tulsa/Sheveport again plus KAMO 94.3 Rogers AR @0615. 0745 KWA 103.9 Fayetteville AR. 9/14 tropo in PM (535) Wichita in well, plus At 2058 10 w (140) KCPV 89.5 Ferguson MO. 9/15 0200 WZZS and WRXL both MoR, both Richmond VA (595), 0227 WTAZ 95.7 (675) Norfolk VA. 9/18 a super intense all day night tropo duct, everything over 20 miles wiped out. @1130 KAUS MN, 1200 KICD (440) IA, 1209 KCHA 104.9 (340) IA, 1215 KCOB 95.3 IA, 1224 KDHL 95.9 (425) Fairbault MN w/nx, 1225 KKOC MN w/nx, 1225 KFIL 103.1 (350) w/nx, 1228 KNEI 103.9 Waukon IA 1245 KDLS 104.9 IA, 1304 KYNA 93.3 Des Moines w/jingles, soul, 1305 KOEL Oelwein w/auto cw, 1330 KOMT 100.7 Alexandria MN (575) w/cw/NBC nx, 1400 KFAM 100.7 & WWJO 101.7 St. Cloud (520). 1426 KIFG 95.3 Iowa Falls (355), 1432 WGBM 102.3 WI, 1500 WJMC (450) Rice Lake 96.3. 1600 KLG 92.7 IA (405), 1730 KOIM 96.7 (385) Rochester MN w/MoR, 1735 WCCN 107.5 Neilsville WI w/nx. 1745 WPDZ 100.1 WI, 1757 KTFK 103.3 Sioux City IA (465), 1816 WEVR 106.3 WI (445) w/nx, 1830 WBIZ 100.7 WI, 1900 KRYC 99.1 Mankato MN 445 miles even if KYSM is in every day in the summer. 2030 KRPO 104.9 (395) Owatonna w/MoR, 2145 WGR 105.1 "mx the world likes best" & @2200 WDTW w/RR both Duluth, 2305 KLIZ 95.7 Brainerd MN (560) w/NBC nx, 0000 WLSU 88.9 WI, 0025 95.3 WSPL WI, 0057 I can't think of anything better to call my best catch, KUMD 200 watts 89.1 at 545 miles. Back in the evening 9/19 2030 w/WAUP (355) 258w OH. ?130 WPPV Roanoke VA w/MoR, 2300 WPDZ NC. (9/20 @0227 WGR 96.9 (540) Buffalo w/solid gold, 0332 WHFM 98.9 w/RR oldies (600) Rochester NY, 0348 WBLK 93.7 w/quarter hour mx/soul, 0400 WBFN, 0427 WDCX, 0600 WBUF all Buffalo, 0601 WWTW 92.9 MI, 0650 WCKK 103.7 w/RR (450) Erie PA, 0700 WBTW 107.7 Weathersfield NY (560) 0702 WTSB 107.7 MI (455), 0710 WHLD 98.5 Niagara Falls (535) w/nx/sports. 0808 WNDH 103.1 OH, 0830 WITL 100.7 w/cw MI and others till 1230. 9/21 tropo Sioux Falls KFI and KWNC in the evening. 10/7 tropo 2100 WKOZ 105.1 MS w/MoR, 2330 WWAG 94.1 AL, 10/8 1111 WRIL 100.1 MS w/PR, 000? WNOE & WBYS IA (670), 0012 WLPR 96.1 AL (610), 0015 WFDR 93.3 Manchester GA w/soul, 0045 WPAF 92.5 FL w/cw, 0118 WHYD 107.3 GA w/cw, 0159 WHYY 101.9 and @0710 WAJM 103.3 both cw, both Montgomery. 0529 WTEF 106.1 AL w/sports, 0535 WZZZ 97.7 w/gospel (475) Clanton AL. 0730 WPCS & WHEZ both Pensacola. 10/18 Au unreadable in the educ. band from 2045 to 2200, back at 10/19 0320 from Buffalo area till 0410. 10/21 tropo Little Rock/Tulsa. New was KXOW 106.3 Hot Springs (435) @0145. 10/25 2210 WIKO, 2238 WNOE, 0002 WFEZ IA, 0112 KVSL 105.3 IA (645) w/PR, 0430 WWL 101.9 w/auto MoR @1050 WONO w/ID, 1155 WVMJ 93.7, 1509 KBRI 102.3 w/nx (365) Brinkley AR. 1530 WSJC 107.5 MS, others till 2230. 10/29 Au just under readable from 0120 to 0105 DST to CST. 73 & Merry Christmas!!!

Roger W. Winsor 718 North Fremont Road Valparaiso, Indiana 46383

Well, I've finally done it. I finally got my antenna up on a rotor, and wouldn't you know it, it's been dead as a doornail since the thing is up. Only 4 new stns in hours of listening, although I do party quite a bit as I listen. 11/8 the last day of sunshine in this area as that was the day I put the antenna up, Now 11/22 and still cloudy. WBKY 91.3 Lexington KY @1500 ID o/WJJE. 11/9 WCSI 101.5 0400 s/on w/SSB weakly. 11/18 WTRF 107.3 Greensburg IN a fairly regular downstate logged, and 11/21 WJJE 91.9 Lafayette finally IDed @B05 rising out of WYCA slop, now up to measly 426 stations, but am happy antenna is up and am anxiously awaiting any sort of improving CX in the future. Hope all had a nice Thanksgiving and will get through the Christmas and New Years holiday season safely. Merry Christmas and Happy New Year in 1973!!!

# FM QSL CORNER

Dennis L. Voe  
8110 Storms Hall  
ISV  
Ames, IA 50010  
Next Deadline: December 12

A few new contributors were noted this month. Hopefully, more of the club's "silent majority" will make themselves known in the coming months in this and all other columns of VUD. Bruce Elving and Richard Wood have written up a one-page article describing what WTPDA is, why we write FM stations for verifications, and what should be included in a verie to make it meaningful. It is certainly advantageous to include this with any verie request letter and should be of special interest to those of you who seem to have trouble getting correct replies from FM stations. Order from Bruce Elving, Box 24, Adolph MN 55701. At \$1.30 for 50 sheets, these professionally printed articles should be owned by all FM DX'ers who request veries. Bruce Elving was accidentally deleted from the list of contributors in November VUD. Also, the \* in some reports means insufficient information was included by the verifying station (e.g., missing verie signer, etc.).

- ALABAMA:** WENN-FM Birmingham 107.7. Picture post-card signed Carl Martens, CE.(RE)  
WTRB Enterprise 96.9. Pleasant, inspecific ltr frm Larry Searcy, CE. Currently at ERP of 25kW, but filing for 100kW is in progress.(PW)
- ARKANSAS:** KMLA Ashdown 103.9. Pleasant, long, detailed ltr frm Steve Fearce, GM. Most DX report is frm Fred McCormack. A dr is Box 17, Ashdown AR 71822.(RW)  
KRIL El Dorado 99.3. Pleasant, long, specific ltr frm Bill Willett, Night E. Enc folder, bumper sticker for AM, CM for AM.(RW)  
KMAG Ft. Smith(tx: Mt. Magazine) 99.1. Brief, detailed ltr frm Rance P. Rhodes, CE. Enclosed very ancient, thick, yellowed cardboard KWHN(AM) QSL card sample.(PW)  
KLAZ Little Rock 98.5. Specific ltr from Barry S. Wood, PD. My rpt most distant.(RW)
- FLORIDA:** WGLV Gainesville 105.5. Pleasant but rather undetailed ltr on wild pink letterhead frm Irving A. Uram, Pres./GM. Invites me to call collect next time I hear the stn, first time I have ever received such an invitation in 15 years of DXing. Enclosed coverage map/rate card.(PW)  
WJAX-FM Jacksonville 95.1. Utterly vague ltr from Don Preston. Failed to specify that my rpt was for FM. Claims WJAX is one of only 2 municipally-owned stns in the country. (The other he is thinking of must be WNYC. Are there others?).(RW)  
WJCT Jacksonville 89.9. Pleasant, detailed ltr frm Mike H. Mottler, Director. Running 70kW nw, shortly to go to 100kW. Interested in DX rpts. Has had rpts frm Brantford and Downsview ONT. San Antonio, Chevy Chase MD. CM & license copy. (PW)  
WPDQ Jacksonville 102.9. Detailed ltr frm Lawrence J. Zehan, GM.(PW)
- FLORIDA:** WPAP Panama City 92.5. Specific ltr frm Douglas J. Marcum, GM. Letterhead gives only "WPAP", not "WPAP-FM" as in Bruce's Atlas.(Also "-FM" in Jone's Log. DM).(RW)
- FLORIDA:** WMEZ Pensacola 94.1. Brief note, specific, on WPEX letterhead. Frederic T. C. Brewer, Owner.(RW)
- FLORIDA:** WBCM Tallahassee 96.9. Brief, specific ltr frm Raymond D. McCoy, CF.(PW)  
WUSF Tampa 89.7. Deatiled ltr frm Alice Zacherl, SM. Enc CM, prog. guide.(RW)
- FLORIDA:** WINK-FM Ft. Meyers 96.9. Specific ltr frm Harold Taylor, Promo & PubServ Director.(RW)
- ILLINOIS:** WAUR Aurora 107.9. Ltr frm Ray L. Sherwood, GM; CM. 3kW h.v.(RE)
- ILLINOIS:** WGIL Galesburg 94.9. Ltr in 5d signed John Biermann, FM announcer at the time of reception. W/CM & RC.(GL). Ltr & CM. V/s Jim Wyman, FM PD.(RE)
- ILLINOIS:** WKEL Kewanee 92.1. Returned ltr with note of confirmation below. Ld. George Walker, Mgr. (GL)  
WDED Marion 107.1. QSL card signed Dutch Doelitzsch. 3kW h.v.(RF) (GL)  
WVFC Monmouth 97.7 sent ltr in 6d signed Richard F. Lamoreaux, Owner.(GL)
- ILLINOIS:** WPMI Morris 104.7 sent ltr in 9d signed Kirk Patrick, GM.(GL)
- ILLINOIS:** WTAC Murphysboro 104.9. QSL card, ltr & booklet. V/s William Varecha, Pres. 2. Mktg. h. (RF)  
WPTC Peoria 105.7 sent ltr in 5d signed Paul A. Carnegie, Pres.(GL) (RF)
- ILLINOIS:** WSTK Woodstock 105.5 sent ltr in 3d with xtr and ant infc. V/s Ken Kosok, PD.(GL)
- INDIANA:** WFIM Elkharte sent ltr in 13d signed Craig Brines, Promo Mgr. On WSJV ch.28 stationery.(GL) (100.7, DM)
- INDIANA:** WXAX Elkharte 104.7. Ltr in 7d on WPMI stationery. V/s Edwin G. Moore, GM.(GL)
- INDIANA:** WWHI Evansville 105.3. QSL card signed Donald E. Goodin, Sales Mgr. 50kW h, 17k/v. (RF)
- INDIANA:** WIFE Indianapolis 107.9. Ltr signed (G.) Smith, CE. First name hard to make (RE) out.(RE)
- INDIANA:** WJAP Indianapolis 93.1. Card in 11 days mainly intended for WJCO AM. Richard Smart, CE. (GL)



- WMBC Michigan City 95.9. Ltr in 6d signed by Jim Burke, Ass't Mgr.(GL)  
 WLBC Muncie 104.1. Ltr in 6d signed Patrick S. Finnegan, VP-CE, with few tech. details.  
 WSBT South Bend 101.5. Ltr and CM in 5d. Complete history of WSBT since it (PS) --  
 began on May 10, 1943 as WLSB on 47.1 MHz. Signed Robert Bell, CE.(GL)(PS)  
 WISU Terre Haute(Indiana State U.) 89.7. Ltr in 8d signed Mary Novak, SM.(GL)  
 WTHI Terre Haute 99.9. Ltr in 9d signed Russ Arnold, VP-CF.(GL) Ditto & card.(RE)  
 WFEL Washington 106.5. Ltr and card signed Paul M. Davis, CE. Also CM.(RE)  
 IOWA: WOI Ames 90.1. Card for AM, FM, TV signed D. D. Forsling, Mgr. 5d.(GL)  
 WOC Davenport(now KIIK) 103.7. Ltr in 8d signed Charles W. King, PD.(GL)  
 KTOF Cedar Rapids 104.5. Card, v/s unreadable but CE.(RE)(They finally verified DMM)  
 KWL Waterloo 107.9. Ltr in 2d signed Joe Arquette, Operations Mgr.(GL) Ltr frm  
 Joel Arquette (Which is it? Joe or Joel? DMM), Operations Mgr. Most Dx rpt  
 is frm NY state. My 2nd most Dx tropo verie.(RW)  
 KANSAS: KSUT Topeka 107.7. Ltr, CM & dial card. V/s Carol Berry, Traffic Mgr.(PE)  
 KEMPKY: WMBE Danville 107.1. A mailing label(sent inside an envelope) with a  
 verie note in full(date/time) signed Thor H. Bahrman, CE. 48d.(PD)  
 WKDQ Henderson 99.5. Ltr and CM. V/s Scott H. Chase, CE. 50kw ERP h,v.(RE)  
 WKKY Morehead 90.3. Personal ltr frm Don Holloway, Director; promo material for  
 NPR and WKKY. Stated mine was most Dx rpt(395 miles) but Oct. "Statistics"  
 column shows AM reception by Joe Fela at 500 miles.(PS)  
 WFAD-FM Paducah 96.9. Ltr, pleasant, specific ltr frm Timothy H. Corey, Pres.  
 Gives details of AM/FM DX program shortly to be run, and of coming pwr increase  
 to 50kw. Many enclosures, CM.(RW)  
 LOUISIANA: WDSU New Orleans 93.3. Descriptive folder of WDSU signed by Lindsey Piddle,  
 VP of Radio and TV Engineering, but no indication was given whether AM, FM, or TV.  
 KWKH Shreveport 94.5. KWKH-AM card in 9d without indication that FM was RE- (PS)  
 ceived. Unsigned by Frank Page, PD. (PS)  
 MARYLAND: WFGC-FM Gladensburg 95.5. FL by Bob Wooden, CE(didn't specify FM); CM for  
 AM and FM; promo printings on cash contest winners; mx survey for week; etc.  
 116 days. (PD)  
 MICHIGAN: WGER Bay City 102.5. Ltr and CM in 12d signed Roger L. Larson, CE.(GL)  
 WFHB Benton Harbor 99.9. QSL card in 5d frm J. P. Scherer, Gen. Mgr. & Munson Robin-  
 son, Tech. Director. Card unsigned.(GL)  
 WAUS Berrien Springs 90.9. Ltr in 6d giving tech. details and stating mine was their  
 2nd most Dx rpt., with Demorowski's most Dx. V/s Carsten Thomsen, Acting SM.(PS)  
 WNIC Dearborn 100.3. Card used for WKNR-AM in 3 mo. 22d. Corrected for WNIC and  
 signed Jerrold Martin, CE.(PS)  
 WJR Detroit 96.3. Card for WJR-AM but corrected for FM.(PS)(Signed? DMM)  
 WJUZ Detroit 103.5. Ltr in 18d signed Chuck Cossin Jr., CE. Will add v soon.(PS)  
 WMZK Detroit 97.9. Ltr in 2d signed Paul Wolfcale, Tech. Dir.; tech details.(PS)  
 WPMK East Lansing 99.1. Ltr in 7d signed J. L. Hackman, CE.(GL)  
 WVGR Grand Rapids 101.1. Vv brief ltr signed Richard L. Clarke, Xmr Supervisor. WVGR  
 is the sister stn of WUOM, Ann Arbor, being run by U. of Mich.(PS)  
 WJML Petosky 98.9. Mimeographed ltr with details of AM and FM, but not specifically  
 verifying FM. Unsigned by Glenn H. Casey, GM.  
 MISSISSIPPI: WRLL Grenada 100.1. Brief note, detailed, frm Pat Sanford.(RW)  
 WKYV Vicksburg 106.7. Ltr signed Wayne Powell, PD, stating that mine was most Dx rpt.  
 Also enclosed a very detailed CM. Stated that more literature is being printed  
 for distribution.(PS)

I would like to thank the contributors for this month's column. Gerry Lukacik,  
 Chicago; Peter Sawatzky, Waterloo ONT; Richard Wood, Baton Rouge LA; Pat Dyer, San  
 Antonio TX; and Richard Eddie, St. Louis MO. Also contributing were Glenn Hauser,  
 San Antonio TX; and Adela Ossowski, Erie PA, whose reports will be among those appear-  
 ing next month. For the sake of neatness, correctness, and standardization, please  
 include the FM suffix if it is given with the verie.

Comments from Members: Peter Sawatzky is still DXing with only an indoor dipole,  
 but has heard 175 stations. Peter is now using the Heathkit AJ-15, which enables  
 him to pick up moderately strong signals only 200KHz from the locals. Gerry Lukacik  
 is up to 182 in 8 states and 1 prov, but he hasn't been DXing since August. Gerry is  
 also mailing his reports from a different pick-up box, since there is good reason to  
 believe that 6 reports mailed on 7-26/27 never made it to the station. Richard Eddie  
 has heard 110 stns from St. Louis using a Panasonic RE7300. He joined the club in May.  
 Richard has 8 24-hour locals to contend with. 73 and good winter DX!

Dennis



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**NORTH OF THE BORDER: FOR NEWS IN CANADIAN BROADCASTING TV REPORT**

**TV APPROVALS**

MOUNT TIMOTHY, BC ch. 3 .65 kw vid dir Sat. of CHAN-TV Vancouver (CTV)  
PRINCE GEORGE, BC ch.12 1.9 kw vid dir Sat. of CHAN-TV Vancouver (CTV)  
LAC ETOHEMIN, PQ ch. 55 .4/.08 kw dir Sat. of CBVT Quebec (CBC FR)

**TV APPLICATIONS**

KENO HILL, YT ch. 13 .248/.0248 kw dir -to receive CBC ENG via 'ANIK' SATELLITE (CBC)  
with Sat. stns. at MAYO (new) & ELSA (existing)  
MELFORT, SASK ch. 2 11.5 kw dir Sat. of CFQC-TV Saskatoon (CTV) & CKBI-TV Pr. Albert  
CRESTON, BC ch. 3 CBUCT-2 Pres Op'n: 5 watts Prop Op'n: .142 kw ERP  
RADIUM HOT SPRINGS, BC 79 watts dir Auth Op'n: ch. 82 Prop Op'n: ch. 76 (CBC)  
MOUNT BAKER, BC ch. 10 .9 kw Sat. of CBUCT Cranbrook (CBC)  
CRANBROOK, BC CBUCT Pres Op'n: ch. 10 1.1/.5 kw EHAAT 832 dir  
Proposed Op'n: ch. 65 27.7/2.77 watts ERP, EHAAT 681 dir (CBC)  
CHARLOTTETOWN, PEI CBCT ch. 13# Present Op'n: 38.6/19.3 kw EHAAT 771 dir  
Proposed Op'n: 62/12.4 kw EHAAT 918 dir (CBC)  
CHARLOTTETOWN, PEI ch. 8# 14.5/1.45 kw Sat. of CKGW-TV Moncton, NB (CTV)

**TIDBITS**

\*\*\*Communications Satellite 'ANIK' to be launched this month...will bring LIVE, COLOUR TV to places which, till now, have had recorded, 2 week-delayed programs.  
\*\*\*As of APRIL 1, 1972, stations operating: CBC-130; PRIVATE (incl. xitrs)-307  
\*\*\*NEW stations on air to DX:  
TORONTO, ONT OBLT ch. 5 77/7.7 kw EHAAT 444d (CBC) As of Sept 11--Was on ch. 6  
TORONTO, ONT CITY-TV ch. 79 31/3.1 kw EHAAT 403d (Ind) As of Sept 28/test Sept 13  
DESERONTO, ONT CJOH-TV-1 ch. 6- 55.5/9.67 kw EHAAT 671 (CTV) as of Sept 27  
THUNDER BAY, ONT CHFD-TV ch. 4- .52/.164 kw EHAAT 180 (CTV) on in 1st wk of OCT  
\*\*\*TV-FM STATION LIST now available for \$2.10 (CDN) first class postpaid from Editor JJ ROSENBERG at above address...see ad in this VUD for details  
\*\*\*Comments/criticisms are invited. Drop us a line just telling us that you read NORTH OF THE BORDER. Thx.  
Till next time, 73's

**New!** -of Special Interest to DX'ers...

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T-IN	T-OUT			

Time Standard \_\_\_\_\_

Page \_\_\_\_\_

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