

**VHF-UHF
DIGEST**

**MERRY
CHRISTMAS**

**1973
DECEMBER**



H. Hayes

publishers' notes...

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

editorial...

IN RECENT YEARS, the size of WTFDA has grown greatly. At the same time, the percentage of active members has fallen off sharply. The reason for this is unclear to me. There are just as many (if not more) DX reporters as ever, but fewer real workers. I even wish that I could say that 90% of the work is being done by 10% of the members, however, it's more like 95% of the work is being done by 5% of the members. This arrangement is far from healthy.

Too many members view the VHF-UHF Digest as just a magazine to subscribe to. They pay their dues, read the work of others and occasionally complain about a late issue. These same "members" care not that the active members must contribute above and beyond their share of work, to make-up for the lack of work of others. The answer to this problem is not mandatory member participation or getting a few more members to do a lot more work. If more members would only start to view WTFDA as a club that they are a part of, and not as a company that they buy a magazine from, a good part of the problem would be solved.

A few members have complained that WTFDA is unresponsive to their interests; that we do not answer their correspondence quickly enough, or adequately. They forget that the VUD is published by only two people, as a part time activity. Many have suggested that we "distribute the responsibilities", but outside of the work of Dave Janowiak, Bruce Elving and Don Ruland, few have come forward to help. No one applied for the proposed "activities chairman" post. It is a position that would have helped "distribute the responsibilities", for the good of the club and the hobby. In fact, it would have even freed more of the publishers' time for answering correspondence more adequately.

There were even a couple of members who suggested that WTFDA is controlled by a Chicago group, running the club their way. This is nonsense. To prove it, I invite any members who feel that they can do a better job, to contact us immediately. Gary Olson and I will be happy to turn over the publishing operation to any responsible applicants.

I give my sincere thanks to those members who have done more than their share. They have contributed their time and talents in many forms, asking nothing in return. They are truly a credit to the hobby.

Morrie S. Goldman, editor

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BITS... Don't forget the KFMH (99.7) meteor scatter test on December 12, from 2300 to 0200 CST. If we should be back on daylight savings time, the schedule will change to CDT. More details can be found in last month's PN... "Preparing Columns and Articles for WTFDA", a two page information sheet, is available for a SASE from Hq... Gilfer Associates has just announced the release of their 1974 catalog. The new catalog contains details on the latest receivers, books, antennas, headphones, clocks and accessories. Copies are free. Gilfer, PO Box 239, Park Ridge, NJ 07656... The latest edition of the FM ATLAS AND STATION DIRECTORY, published and written by FCC-FM editor Bruce Elving, is now available. Details on the back cover of this issue.

73, Gary and Morrie

TECHNI-

CORNER

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TURN YOUR ATTENTION TO ALLIANCE ANTENNA ROTATORS PART IV

C-225:

This is the top of the line Alliance rotator. It wholesales for about \$38 and uses 5-wire cable. Figure 9 shows the C-225 control box.

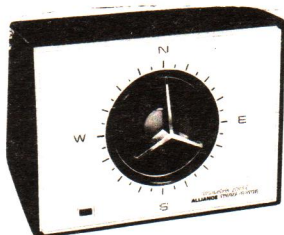


FIGURE 10. C-225 CONTROL BOX

As with the U-100, you simply aim the knob to the direction desired. The automatic control then takes over, moving the antenna to that direction. During rotation, a dial-face light energizes.

Functionally, the automatic C-225 is similar to the automatic U-100. However, several advantages of the C-225 over the U-100 include (1) smaller minimum motor movement, (2) silent (no click-click) operation, (3) more electronic position sensing.

The main disadvantage of the C-225 over the U-100 is that with the C-225 you don't know where the antenna is positioned as it rotates toward its selected direction. With the U-100 automatic, the inner red pointer gives constant position indication. The C-225 operator can, however, tell antenna heading, but he must check-back (reverse) the knob until the light goes out to locate a direction. For example, assume the antenna is aimed east, but the operator desires a west direction initially. He selects west and the antenna begins its travel, with dial light on. But assume the operator sees (or hears) a station at a direction well ahead of the ultimate west heading. To pinpoint this direction, he must move the knob back toward the east, stopping when the light goes out because this is indeed actual antenna heading.

If the user can live with the lack of antenna heading during rotation, the C-225 is a decided better choice over the U-100. If silent operation is a requisite, the C-225 is the only answer in the automatic Alliance line.

The C-225 is probably as reliable as the U-100, although the electronics is more complex. (Most troubles in electromechanical systems are mechanical.) The choice, then, is based on what features you need or are willing to pay for.

Electrically, the position sensing system in the control box consists of a phase-sensing bridge and transistor current amplifier. An a-c to d-c power supply in the control box provides the d-c for the transistor and two miniature direction selecting relays.

Simply, with the motor at rest, a variable resistor in the motor housing and a variable resistor in the control box are in agreement, and the bridge circuit is balanced, yielding no output and no motor movement. When the knob is aimed at a new direction, the bridge becomes unbalanced. This causes an amplified output that (1) connects 24 volts a-c and the start capacitor to the correct motor winding and (2) lights the dial-face light. This 24 volt signal causes motor rotation. The motor resistor, geared to the motor shaft, also turns to reduce the difference between the motor resistor and control box resistor. When direction selected is reached, the resistor bridge is balanced, output ceases, and the motor stops as the brake is set.

Consumer Report's latest (July, 1973) automatic rotator review (which I highly recommend for anyone interested in a rotator) rated the Alliance U-100 just above the C-225. Several Cornell Dubilier rotators were included. The order of rating within the acceptable class (therefore all relatively close) follows: Cornell Dubilier AR20, Channel Master 9512, Archer 15-1220 and RCA 10W707 (same rotator), Cornell Dubilier AR30, Archer 15-1221, Alliance U-100, Cornell Dubilier AR22R, Alliance C-225, and Cornell Dubilier AR33. As touched on earlier, the Cornell Dubilier AR20 and AR22R are fairly noisy. The Alliance C-225 and Cornell Dubilier AR30 do not provide antenna heading indication during rotation.

Perhaps the most surprising was the low rating of the expensive Cornell Dubilier AR33. This silent automatic type includes pushbuttons that allow you to preset several directions. The AR33 does include a dial to override the pushbuttons, but this dial is so small that I feel it a real handicap for DXing. The DXer would use this dial almost exclusively. Of course, a larger calibration dial with a "needle" type of pointer can be added. Without that, the AR33 seems more difficult to use than any other automatic. For consumer use where only a few known directions are selected occasionally, the AR33 would be fine, but even so, you're paying a lot of bucks to achieve what you could with a less expensive (and more accurate and repeatable) rotator and a few pieces of tape and five minutes time to note your key directions.

Almost equally surprising is the top rating of the Cornell Dubilier AR20, surprising only in that this rotator is said to have very good repeatability and accuracy, yet it costs less (about \$35 wholesale) than other Cornell Dubilier automatics.

Next month, we'll continue with miscellaneous items such as installation, trouble shooting, and calibrating the T-45.

73, Dave

Bob's Tek-Notes

by Robert B. Cooper, Jr.

FIXED ANTENNAS FOR CO-CHANNEL ELIMINATION

Most of us have one or more directions in which we do poorly because of co-channel interference.

On Es, we suffer in a direction that has a fairly close-in signal (usually in the 30/100 mile range) because when we point in that direction the ground-wave range station makes a pretty formidable obstacle for a distant station to crawl over.

The same problem occurs at high band as well, although antenna directivity is typically better at high band than at low band; and often our ability to resolve different station headings can be brought down to within 10/20 degrees at high band with standard yagi arrays.

The CATV world as a group has long practiced a technique known as antenna phasing; as a convenient method of eliminating undesirable co-channel signals.

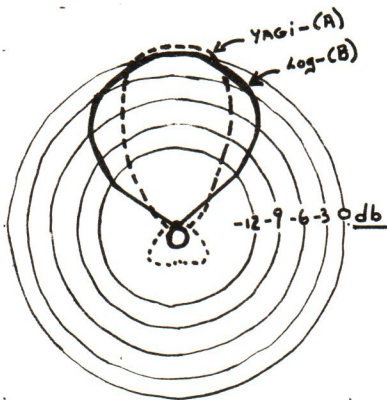
The technique is quite simple to employ, and especially on low band for Es reception, it can be duplicated in the back yard or on a flat roof with a minimum of effort. And the results are nothing short of extraordinary.

Here is how it works.

Every antenna, log or yagi, has a pattern. The pattern refers to its directivity; or in other words the ability of the antenna to separate the signals coming from the direction towards which it is pointed from signals coming from other (undesired) directions.

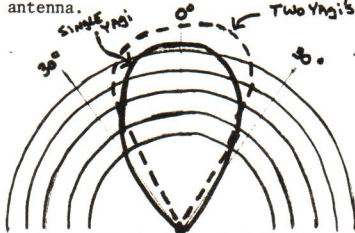
A typical yagi (A) and log (B) set of patterns are shown here.

Now when two identical antennas are stacked together, or phased together, the signals picked up by one antenna are added to the signals picked up by the second antenna; and we have stacking gain. Typically, if done properly, we can realize around 2.5 db additional gain when we double the size of the



receiving antenna (ie. go from one stack to two stacks; from two stacks to four stacks, and so on).

When antennas are stacked side-by-side, or in a horizontal stack, in addition to adding more gain in the desired direction, we also create one or more gain-nulls in other directions. Refer to (C) to see what happens when two antennas are horizontally stacked (side by side, in the same plane) 1 wavelength apart. Refer to (A) above for the same front pattern for a single (yagi) antenna.



What doesn't show in this (C) diagram is that in addition to sharpening or narrowing the front pattern, by stacking two antennas one wavelength apart in the horizontal plane, we are creating a very deep null

BOB'S TECK NOTES

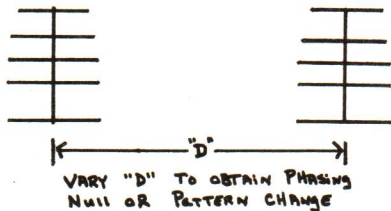
in the antenna's front pattern at a point 45 degrees either side of center.

In fact, there is a proper (ie. calculated) horizontal stacking distance between two (or more) identical antennas, in the same horizontal plane, to create a gain-null in virtually any angle from 01 degrees to 359. degrees.

The first step to set up such a phasing system is to find a spot in the back yard or on a flat roof where you can set up two of the inexpensive five-8 foot tower tripods. These tripods are manufactured by Rohn Towers and others and have three legs. They sit down nicely on a flat surface, and weigh little enough that they can be moved around in just a minute or two of time.

By being able to vary the (A) direction that the two antennas point (rotate mast or tripod tower), and, (B) the distance between the two antennas (see below), you can select a directional heading (as you would with a normal antenna rotor), and, select a nulling angle .

The nulling angle is the important key, because it can greatly reduce and even eliminate interfering signals from nearby transmitters.

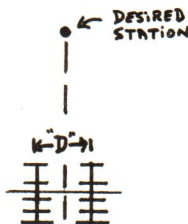


The nulling angle is a function of phase; and phase is created by so spacing two identical yagi antennas in such a way that they cancel each other's normal pattern in some angle away from the main (front lobe) heading.

For example, let's assume that we want to null a non-desired station that is only 30 degrees off-of-the-heading from your receiver to a distant (DX) transmitter. A normal home (or DXing) antenna will only have slight rejection for an unwanted signal 30 degrees off of the front heading; typically less than 6 db for a yagi and 3 db for a log.

But the DX signal is probably 20 db (or more) weaker than the non-desired signal; clearly we need to find a way to null the non-desired signal even more than the single antenna alone will allow.

Phase nulling is a function of spacing between identical antennas; antennas that both face towards the desired station, in a line perpendicular to the receiving path to the transmitter.



In our example, a phase null may be created at 30 degrees if the antennas are spaced apart (along that perpendicular line shown in the sketch above) by exactly one wavelength.

The null created in our example is theoretically as much as 30 db; however, because of nearby objects (power lines, buildings, antennas, etc.) it will probably be closer to 20 db in most cases.

For every difference angle (ie. the angle in degrees between the heading to the desired station and the heading to the non-desired station) there is a correct distance to separate two identical antennas to achieve a null of the non-desired signal.

This separation distance is always a function of wavelengths. And wavelengths is a function of frequency.

So, while a 30 degree difference angle always requires 1 wavelength of separation between the two identical antennas, 1 wavelength at channel 2 (in free space) is 206.8 inches (or 17.23 feet); and 1 wavelength at channel 6 is 138.8 inches (11.56 feet).

We will deal here, for now, with low band only. Here is why.

BOB's TECK NOTES

Of all of the forms of DX, Es offers the quickest and surest way to add stations in a hurry; at least during the summer months. And most of us suffer from one or more locals on one or more low band channels; chances are your totals on that channel or those channels are low. Much lower than they could be if you could only eliminate the blankety-blank local or semi-local signal.

And Es DX is easily snagged with antennas close to the ground. Whereas, tropo, usually demands larger antennas well up in the air.

So if we are going to mount some simple tripods 5-10 feet into the air and hang a couple of inexpensive yagis on them, close to the ground, low band is the place to start.

The antennas for this project will depend upon what you are after. If you have several locally occupied low band channels (ie. 2,4, 5) you may want to invest in two 5 element "low band yagis" of identical manufacture and design. On the other hand, if you have only one low band local, say on channel 2, you can probably stay with a pair of five element channel 3 yagis and use your existing antenna for the other low band channels.

The antennas are to be fed with 75 ohm coax (RG-59/U is fine at low band) through two absolutely equal lengths of cable, to a two-way HYBRID combiner. (A Hybrid Combiner is nothing more than a Hybrid signal splitter or mixer connected up backwards.) The actual lengths of the cables can be fixed; ie. determined from the lowest channel you have in mind (see Table One). And the unused cable for any particular "separation" can be left lying loose on the ground under the antennas.

If the yagis you buy are not 75 ohm (and they probably won't be), invest in a Channel Master 0035B or similar 300 ohm to 75 ohm balun or matching transformer for each antenna. We use coax here to insure that the transmission lines will not act as additional antennas in our system. Coax is shielded, twin lead is not. And, we can lay it around on the ground without fear of it getting damaged (don't run over it with the lawn mower!), 300 ohm line is easily affected by things like the ground's surface.

The next sketch shows how the system should appear, electrically.

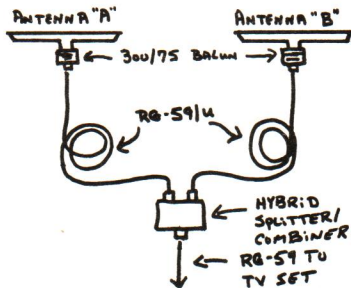
Now, find a spot big enough so that you can get the Table One antenna-to-antenna separ-

ation that is required. Notice that channel 6 is easier to cope with than channel 2 in the average back yard.

Next rig yourself a compass so that you always know (if your non-desired station is 0 degrees) how many degrees off of zero (ie. the difference in the heading, in degrees) the DX station is.

You can plot this in advance during the quiet winter lull. Simply compute the heading from you to your non-desired station, and the headings to all of the desired stations on the channel. Work up a table of your own, using Table One here and Table Two here for the physical separation between the two antennas, both pointing directly at the desired station, on a perpendicular line to the desired station's heading.

Then when the band opens for Es, run into the yard and position the two antennas so that they both point at the desired heading, they are separated by the proper (pre-computed separation distance) amount, and they both ly along that line that runs a right angle to the booms of the individual antennas.



With your antennas so positioned, and the combined output of the two antennas connected to your receiver, you will have nulled the non-desired station to its maximum extent, and now all that remains is for the distant desirable station to build up to a level to overtake the non-desired but nulled station.

A really clever person could outfit his two tripods with some wheels off of a busted tricycle or baby ca-

BOB'S TECK NOTES

riage so he could "wheel" the tripods around the lawn quickly when the occasion arose.

(Actually a really clever person would probably collect stamps and never get started in TV DXing to begin with!)

Naturally you could do the same thing on a flat roof, on a paved area, or wherever the opportunity arose.

You could also do the same thing with two twin lead dipoles by tacking them up on a flat wall of your house the appropriate distance apart and leaving them there.

However, with dipoles the 300 ohm problem rears its ugly head; balanced, un-shielded lines (feedlines) pick up as much energy in a high energy area (ie. close to transmitters) as the antenna itself.

You could also "lay out" a 360 degree circle in your backyard with ten degree "marks" or "stakes" to assist you in properly orienting the two antennas. For example, if:

- (1) The non-desired channel 2 was 68 degrees (with north as 0 degrees),
- (2) The skip station on channel 2 is coming in from 110 degrees,
- (3) The difference between the two headings is 42 degrees,
- (4) Table 1 says that we want 2.25 wavelength spacing between the two antennas for phase nulling a 42 degree difference signal.
- (5) Table 2 says that 2.25 wavelengths at channel 2 is 38.75 feet.
- (6) So on a straight line that runs from 20 degrees to 200 degrees we place both tripods, 38.75 feet apart. Both antennas point at the desired heading; 110 degrees.

If this is (1) planned on paper in advance, and (2) staked or laid out in the back yard in advance, the set up time is only a minute or so. Then you can go back to your DXing.

How effective will this technique be? Obviously it depends upon the (1) strength or level of your non-desired signal, and, (2) the strength or level of your desired signal.

With this type of antenna, 6-10 feet above

ground, signals from 1,000 foot towers 15 or more miles away can be taken down to levels that will be equivalent to your suddenly being 60-65 miles from the non-desired station. At the same time, the two yagis, operating in phase on the desired station, will have more gain for Es than you are probably presently accustomed to.

Height above ground is not usually an important factor for Es reception; signals in the 400-1,200 mile range come back to earth from the E layer at an angle of from 3 to 9 degrees above the horizon; plenty high to make additional height for signal gain foolish. Because there will be none, from the desired signal; only from the non-desired signal(s).

It is a little bit like planning a earth receiving station for a satellite transmitting source. The satellite is above the horizon so it is "line of sight" to a ground based receiving station. In Es work, our E layer is our satellite; above the horizon and line of sight to an antenna close to the ground.

So to the business at hand.

Which is the business of setting up an antenna system that will bring in new DX stations; stations which have eluded you to date.

The total cost for the system can be kept to under \$50.00 if you scrounge your antennas and even less if you build antenna tripods in the garage during the winter.

Don't go cheap on the RG-59/U coax get the best shielding percentage you can - such as 95% or better - to prevent direct pick up) or on the Hybrid splitter/mixer/combiner. If "F" fittings scare you, get some help from someone who knows how. You could use some indoor type 300 to 75 ohm matching transformers (baluns) at the 300 ohm antennas to get into 75 ohms; but they have to be water proofed with a Silicone grease to hold up well.

The following tables will give you the dimensions you need for spacing of antennas for various angles of CCI.

BOB s TECK NOTES

To use this set of tables, calculate the angular DIFFERENCE between your desired station (DX signal) and your non-desired station (usually a local signal but could be another non-desired Es signal). Read DOWN for angle, ACROSS for channel number. This is the distance for antenna-to-antenna separation for maximum phasing null.

ANGULAR DIFFERENCE	Channel 2	Channel 3	Channel 4	Channel 5	Channel 6	Angle Same As
0 degrees	Angles under 7.5 degrees not practical to null					180 degrees
2.5 degrees	Angles under 7.5 degrees not practical to null					177.5 degrees
5 degrees	Angles under 7.5 degrees not practical to null					175 degrees
7.5 degrees	89.5 feet	54.6 feet	49.8 feet	43.5 feet	40.5 feet	172.5 degrees
10 degrees	43.1 feet	39.0 feet	35.6 feet	31.1 feet	28.9 feet	170 degrees
12.5 degrees	34.5 feet	31.2 feet	28.5 feet	24.9 feet	23.1 feet	167.5 degrees
15 degrees	31.0 feet	28.1 feet	25.6 feet	22.4 feet	20.8 feet	165 degrees
17.5 degrees	27.9 feet	25.3 feet	23.0 feet	20.1 feet	18.7 feet	162.5 degrees
20 degrees	25.8 feet	23.4 feet	21.3 feet	18.6 feet	17.3 feet	160 degrees
22.5 degrees	22.4 feet	20.3 feet	18.5 feet	16.2 feet	15.0 feet	157.5 degrees
25 degrees	20.7 feet	18.7 feet	17.1 feet	14.9 feet	13.9 feet	155 degrees
27.5 degrees	19.4 feet	17.6 feet	16.0 feet	14.0 feet	13.0 feet	152.5 degrees
30 degrees	18.1 feet	16.4 feet	15.0 feet	13.0 feet	12.1 feet	150 degrees
32.5 degrees	16.4 feet	14.9 feet	13.5 feet	11.8 feet	11.0 feet	147.5 degrees
35 degrees	15.0 feet	12.8 feet	11.7 feet	10.2 feet	9.5 feet	145 degrees
37.5 degrees	13.3 feet	12.0 feet	11.0 feet	9.6 feet	8.9 feet	142.5 degrees
40 degrees	39.6 feet	35.9 feet	32.7 feet	28.6 feet	26.6 feet	140 degrees
42.5 degrees	38.3 feet	34.6 feet	31.6 feet	27.4 feet	25.4 feet	137.5 degrees
45 degrees	36.5 feet	33.0 feet	30.2 feet	26.6 feet	24.5 feet	135 degrees
47.5 degrees	35.3 feet	32.0 feet	29.2 feet	25.5 feet	23.7 feet	132.5 degrees
50 degrees	33.8 feet	30.4 feet	27.8 feet	24.2 feet	22.6 feet	130 degrees
52.5 degrees	32.7 feet	29.6 feet	27.0 feet	23.6 feet	22.0 feet	127.5 degrees
55 degrees	31.4 feet	28.4 feet	25.9 feet	22.6 feet	21.0 feet	125 degrees
57.5 degrees	30.5 feet	27.6 feet	25.2 feet	22.0 feet	20.5 feet	122.5 degrees
60 degrees	29.6 feet	26.8 feet	24.5 feet	21.4 feet	19.9 feet	120 degrees
62.5 degrees	27.9 feet	25.3 feet	23.1 feet	20.1 feet	18.8 feet	117.5 degrees
65 degrees	27.6 feet	25.0 feet	22.8 feet	19.9 feet	18.5 feet	115 degrees
67.5 degrees	27.2 feet	24.7 feet	22.5 feet	19.6 feet	18.3 feet	112.5 degrees
70 degrees	26.9 feet	24.3 feet	22.2 feet	19.4 feet	18.0 feet	110 degrees
72.5 degrees	26.7 feet	24.2 feet	22.1 feet	19.3 feet	17.9 feet	107.5 degrees
75 degrees						105 degrees
77.5 degrees						102.5 degrees
80 degrees	BELOW 75 degrees (to 90 degrees)					100 degrees
82.5 degrees	increments become very small & impractical for DX'ers.					97.5 degrees
85 degrees						95 degrees
87.5 degrees						92.5 degrees
90 degrees	25.9 feet	23.4 feet	21.4 feet	18.7 feet	17.4 feet	90 degrees

TABLES ONE and TWO COMBINED

QUESTION: "Can I use this to phase null an adjacent channel?"

ANSWER: YES ... if you have a local channel 2 and want to phase null it to receive a distant channel 3, use the table for angles v.s. distances for channel 2 (not 3) above.

QUESTION: "Must my antennas be identical?"

ANSWER: YES ... but logs, yagis, conicals, or most anything will work. However, yagis will work best because they have a pretty decent forward directivity pattern to begin with. Both antennas should be the same height above ground.

Bob

FCC FM NEWS

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New Construction Permits

CC La Junta 92.1 3000 h,v; 285*
CA Jesup 98.3 3000 h,v; 300*
IL Lincoln *91.1 10
KS Topeka 106.9 100000 h,v; 430* [See Oct.
VUD, p. 13, Pomeroy]
LA Shreveport *91.3 10
MA Westfield *91.5 10
MS Boonville 99.3 3000 h,v; 170*
NE Ogallala 93.5 3000 h,v; 300* [Initial
decision; subject to reversal]
OR La Grande 96.3 1450 h,v; -700*
UT Logan 94.5 25000; -630*
WA Bellingham *89.3 10
WI Green Bay *91.5 3000h, 1200 v; 115*
WI La Crosse 104.9 1350; 430*

On the Air and DX Ready!

[New ht. & calls]
AR Searcy 99.3 KWCK-FM 3000 h,v; 170* \$/
CT Hartford *86.3 WGTQ 10
CT Monroe *88.1 WNNR 331 h,v; 200*
CA Macon 107.9 WCRY-FM 100000h,v; 700* MOR
KY Grayson *91.5 WKCC 10 [Calls from WIXS]
MA Newbury *88.7 WQLI 10
MI Tawas City 101.7 WDBI-FM 3000 h,v; 275*
MS Ellisville 102.3 WBSJ 3000 h,v; 298*
NJ Blairtown 106.3 WFMY-FM* 275 h,v; 830*
NY Walton 92.1 WDLA-FM 490 h,v; 660*
OH Findlay *88.3 WLCF 10
OH Tiffin *88.9 WHEI 10
OK Idabel 96.7 WDOG 3000 h,v; 300* [MOR
OR Klamath Falls 98.5 KAGM 63000h,v; 400*
PA Carlisle *88.3 WDCV-FM* 10
PA Canonic 92.1 WNWJ 670 h,v; 550*
SD Sioux Falls 97.3 KPAT 51000; 1800* MOR
WV Keyser 94.1 WKLP-FM 6000 h,v; 785*

Changes in Facilities

polarization)
CA Fresno KMJ-FM 97.9 adds (vertical /
CA San Francisco KBRG 105.3 150000h,v; 1200*
CA Twentynine Palms KQYN 95.7 5000 h, 95
v; - 80' h, - 120' v
FL Lakeland WVFM 94.1 100000 h,v; 430*
FL Tampa WDAE-FM 100.7 54000 h,v; 460*
HI Honolulu KGMQ 93.1 100000 h,v (-126')
IN Brazil WNCM-FM 97.7 300* (3000 h,v)
IN Richmond WGLK 96.1 28000 h,v; 350*
IA Sioux City KBCC 95.5 100000 h,v 989*
[Calls, too]
MD Cambridge WCEN-FM 106.3 3000 h,v; 300*
MI Birmingham WHNE 94.7 4000h,v; 1000* rock
MI Munising WQXD 98.3 1700 h,v; 390* [New
tower going up: Paul Potosky]
MI Sturgis WSTR-FM 99.3 850 h,v; 390*
MN St. Paul-Minneapolis KSJN *91.1 1311*
(10000 h,v; now at this height)
MO Kansas City KWKI 93.3 83000 h,v (290*)
MO Springfield KSMU *91.1 205* (5800)
OR Medford KROY-FM 95.3 813; -225*
PA Braddock WLOA-FM 96.9 60000 h,v; 520*
TN Shelbyville WHAL-FM 102.9 59000 (510*)
TX Beaumont KWIC 107.7 100000 (250*)
UT Beaver K265AA from 104.9 to 105.5; 430*
calls to K288AD.
VT Burlington WRUV *90.1 to 360; 170*
WA Hoquiam KGHQ-FM 103.9 2550; 320*
WA Seattle KING-FM 96.1 67000 (700*)
WI Racine WRKR 100.7 50000 h,v 265*]

Dual-City Identifications Granted

CA Camarillo KEWE 95.9 to Camarillo-Oxnard
PA Bethlehem WEZV 95.1 to Bethlehem-
Allentown

Call Letters Assigned

AL Brewton 105.3 WKNU
AL Selma 100.9 WALX (replaces WTGX)
CA Manteca *90.3 KPJE
CA Moraga *89.5 KSMC
CA Salinas-Monterey 100.7 KMYT (was
KRSA-FM) \$, MOR
FL Leesburg 106.7 WDMG (was WLBE-FM)
FL Winter Haven 97.5 WPCV (WHFL)
GA Rossville 105.5 WQWE (WQUD)
IN Lafayette *91.9 WJEF (WJJE)
KY Monticello 101.7 WKYM (WFLW-FM)
LA Winnboro 95.9 KMAR-FM (KCRF-FM*)
ME Bangor *89.3 WHSN
MA Boston 96.9 WJIB (WJIB-FM*); change
ent p. 69 FM Atlas from "WJIV")
MO Easton 96.7 WEMD-FM
MI Ishpeming 107.1 WMQT
MN Princeton 106.3 WQPM
MN Redwood Falls 97.7 KLGR-FM
MS Mississippi State [State College]
*89.1 WMSB
MO Chillicothe 103.9 KCHI-FM
NE O'Neill 92.7 KBRX-FM
NV Reno 106.9 KRNO
NY Corning *91.9 WCEB
NC Boiling Springs *88.3 WGWG
NC Buies Creek *90.1 WCCCE
NC Greensboro 98.7 WRQK (WPET-FM; changes
from country music)
OH Jackson 97.7 WCJO (WLMJ-FM)
OH Miamisburg *89.7 WRSF
OR Portland 92.3 GON (KLIQ-FM)
TX Alice 102.3 KBIC; Coleman 107.1 KSTA-FM
TX Harlingen 96.1 KMBS
WI Wisconsin Dells 107.1 WNNQ-FM (WQRH)

FM STATION DEVELOPMENTS AND INDUSTRY NEWS WITH READERS' COMMENTS

This month we're not going to individually credit reporters, but will try to group comments beginning with the most interesting and then meandering downward. The FM Atlas, edition II, should now be in the hands of all previous customers who reordered from the renewal cards. For those who do not have a copy, it can be ordered through the WTFDA (see the back cover of this bulletin). Here follows a list of omissions and errors (not new station information). **Maps:** AL Mobile add 92.9; AK Juneau add [*104.3]; AR Forrest City (correct spelling); IL Rock Island [*91.1] (not [*90.9]); IA Cedar Falls *90.9 (not *88.1, although KHKE [to change to KUNI] still operates on *88.1); IA Cedar Rapids [*88.3] (not [*90.5]) and [*90.3] (not [*91.1]). LA Monroe add [*88.7]; MD Baltimore add [*90.3]; MN Waseca 92.1 (dot is there—southeast of St. Peter); MS McComb 105.7; PA Pitts-
burgh *91.5; TX San Antonio remove 98.1; UT Richfield 107.1t (Calls K296AC [not K296AB, as in geographical directory]); VA Norfolk *89.5; WA Everett 103.1t (not 102.3t); WA Shelton 103.1t (not 102.3t); WY La Barge 106.3t. **Station Directories:** OH Gallipolis (correct spelling); NY New York WBAI 99.5 (not 99.1); 105.5 omission: WY Evanston K288AA \$ [KALL-FM-94.1]. Error in VUD, this column, last month: *88.1 West Long Branch NJ (not West Long Beach). Since typing last month's column, some conflicting information on two station grants: New London CT given as *91.5 may be on *89.9; Rockland MA given *91.5 may be *90.1 (both ten-watters). If you've tried to find it, Smithfield RI is about 10 miles NW Providence, but does anyway know where Paris OH (where the Calvary Christian College has granted the 10-watter on *90.1) is?

New Stereo stations: WOSU-FM *89.7 Columbus OH, WTTV-FM 93.2 Bloomington IN, WNIJ 97.1 Chicago (heard testing in \$), WRNR 107.1 Briarcliff Manor NY, WBEZ *91.5 Chicago, KHAY100.7 Ventura CA (changes to k [country] music), KDKA-FM 92.9 Pitts-
burgh PA. Supposedly dropping \$ (or never having it in the first place) is WZAK 93.1 Cleveland OH. Also adding \$: WBFO *86.7 Buffalo; WBN-FM 102.5 heard testing for \$; WREZ 94.5, planning \$ is still monophonic, has ceased announcing they'll go \$; WCRY-FM 107.9 Macon GA, WZOT 107.1 Rockmart GA, WUOG *90.5, rock, Athens GA, WFOZ 97.1 Gainesville GA (from k to r[ock]). To add \$: WABE *90.1 Atlanta, WHRW *90.5 Binghamton NY. Philadelphia's WNOB 96.5 gives up its previous construction permit; remains 12000 h,v; 890*. Stations with vertical

polarization: WHIZ-FM 102.5 Zanesville OH, WTRF-FM 107.5 Wheeling WV, WTPA-FM 104.1 Harrisburg PA. WMYO-FM 93.7 Mount Vernon OH goes to gospel programming. WQAL 104.1 Cleveland OH complains of tropo interference from Detroit, "a common problem," but claims coverage in Akron is better than that of WNCR 99.5. From London, Ontario, Mark Lewis claims WQMC 104.3 Detroit has a powerful signal (this is the station that is probably giving WQAL grief).

The Wisconsin Educational Radio Network is "changing two stations this year [WHWC-*88.3 and WHLA-*90.3] and will re-
place all within two years and add vertical polarization." WFOR 93.3 Manchester GA is soul, not k; WLEI-FM Toccoa 106.1 is rock instead of country; WYMQ 106.5 Chattanooga is MOR.

Also in GA, WPCB 94.9 should be listed "Decatur-Atlanta," WQXI-FM 94.1 as "Smyrna-Atlanta," and WBIE-FM 101.5 as "Marietta-Atlanta." From the program guide of WRFG *89.3 Atlanta: "On Sept. 12, 1973, WRFG was cut off the air, directly by WQXI-TV, indirectly, we believe, by the Atlanta Police Department. Formerly our transmitter and antenna were located at WQXI's communications tower. . . but that arrangement was terminated without notice when they cut off our transmitter on the 12th. We are transmitting from the roof of our studio [10 watts]. . . This crisis began Sept. 12 when our Washington FCC lawyers informed us that the police had visited WQXI-TV alledging [sic] that subversives were connected with WRFG, specifically members of the Progressive Labor Party, the Weathermen, and the Vencemos Brigade, and that station members dealt in drugs. The lawyers said that WQXI had further discovered that our radio signal was interfering with their microwave equipment. WQXI demanded that we vacate their tower as soon as possible. When we tried to turn our transmitter on at 5 pm that evening, we discovered that WQXI had cut us off. . . We feel very strongly that WQXI-TV reacted in this manner because of the police visit and we categorically deny any cause for the suspicion of subversion or narcotics trafficking in WRFG. However, WRFG is a community station representing all perspectives in our community. We feel that we have a responsibility to you, the listener, to present controversial programming, some of it produced by controversial people." On Sept. 21, WRFG received FCC permission to broadcast from the roof of its studios atop a 50' mast, and on Sept. 5, 1973 filed application with the FCC to increase power to 1250 watts. At last word WRFG decides to file suit against WQXI-TV for damages. "WRFG still ponders a suit against the police, and whether to file a formal complaint with the FCC."

Having somewhat less difficulty in the Atlanta area is WPCB 94.9, which supposedly ranks second in listenership behind WSB (AM). The station receives fan mail, "exemplified by one woman's declaration that she'd 'rather be speechless than Peach-less' [an allusion to WPCB's call letters: pronounced "W-Peach"]." WPCB is used by TV cable companies in Dalton, Valdosta, Macon, Moultrie, and De Kalb County, and is a Subbrink station (you know, like WEZN, WLIF, KYND), carrying the Schulke brand of syndicated MOR music.

Expect some big changes in CA FM soon. KERR 103.9 Salinas requests KCTY-FM, with a change in height and power; KZIN 107.9 Bakersfield wants to go back to KUZZ-FM, while KPFC-FM 106.7 Pasadena is gonna be KRQP-FM. KECR 93.3 El Cajon is to drop to 950 watts at 1850', but this change is not official. KFRC-FM 106.1 (formerly KKEE) San Francisco is now rock oldies.

FM Report Soon Out!

The Sixth Progress Report on FM Radio will be available in late December, promises its compiler, Mike Dornier, Jr. "The complete, official Canadian allocation table will be featured, as well as a brief comparison of FM standards and application procedures. The recent U. S.-Mexican FM treaty will also be summarized, with official Mexican station assignments and changes to be noted." Send two 8¢ or two 11¢ air mail stamps (U.S., and do it before postal rates increase!) to Mike at Box 988, Nome, Alaska 99762. Copies of Mike's Fifth Report are still available; enclose two additional stamps if you want both reports. [Since Mike's inexpensive and highly useful report will be covering the U.S.-Mexican FM treaty, this column will devote no further space to the subject.]

In Alaskan FM news, it seems that Father Jim Poole, SJ, the manager of KNOM (AM) Nome, may have been influenced by Mike's enthusiasm for FM, since he's apparently decided to apply for FM, with the AM station to continue programming to the 30,000 Eskimos of western Alaska; the FM would be devoted to semi-

classical and classical music for the town, with its large percentage of managerial and professional whites. Items: WZAT 102.1 Savannah GA has purchased WSGA (AM) there. WSGA used to be WDAR, and operated an FM on 96.5 from 1947-50. WGNR-FM Oneonta NY has been purchased by WODS(AM), which operated an FM on 99.1 between 1947-49. The University of San Francisco has purchased KAMA from Simpson Bible College; this station operated on the old KSFX frequency—KSFX was licensed to the Univ. of San Francisco and deleted 9-62. KSFX was 1.4 kw on 90.1 in 1961; then to 90.3 with 54 kw. Cascade Bcstg. of Portland OR has sold off KLIQ-FM 92.3 Portland [now KGOV] — they have been dumping off all their FMs, and deleted KUDY-FM 98.9 Spokane WA in 1969. Still vacant in Portland is 103.3, though KUOW Seattle, as per this column, has been authorized to build a 10 watt translator on 103.9, which would seem to eliminate 103.3 permanently from Portland.

An item of correction is sent in from an IL reader, who says WKEI-FM 92.1 Kewanee IL is definitely broadcasting stereo with a "golden rock" format [VUD, October, p. 14, Robbins.], although as with all "solid gold" stations all records are not stereo. Also enclosed, an article stating that by early December WCBU *89.9 Decatur IL will increase power from 10 watts to 11000; 260', add \$, and cover an area "from Bloomington to Galesburg and maybe more. . . Programming is basically classical from noon sign on until 11:30 p. m., followed by progressive rock from 11:30 p. m. until 8 a. m. . . Private donations are helping pay for the new transmitter and antennae."

In CT, WQTQ *88.3 Hartford, 10 watts at Weaver High School, operates 4 to 7 p. m. In downtown Hartford, you can supposedly still hear WESU *86.1 Middletown CT and WFCR *86.5 Amherst MA when WQTQ is on the air. The proposed sale of WLWN 93.7 Hartford, which would take away WLWH's all-Spanish programming is being opposed by local Spanish-speaking groups and AM station WPOP there. WLWH is the only fulltime Spanish station in CT. This reader notes: "On Richard Wood's point about stations identifying as 'FM and AM' [VUD, July, p. 8], for several years WEEZ Easton identified as WEEZ FM and AM on their hour and half-hour 10's. [WEEZ-FM now, of course, is known as WQQQ.] WHVY 94.7 Springfield MA has increased to 10000 h.v.; 170' and much stronger in Hartford than it was, though weaker than WAQY 102.1 and WHYM-FM 93.1, both Springfield. WHVY is \$, progressive rock. WXYZ "wise" 92.5 Waterbury CT in Sept. went full power, \$ MOR, 24 hours/day, as is WEZN 99.9 Bridgeport CT. WWPY *90.3 Westport CT began broadcasting late summer 5 p. m. to 11 p. m., but by now should be on regular schedule 11 a. m. to 11 p. m. daily, with light rock, drama, talks and sports programs (330 h.v.; 110'). One of the last "holdouts" in the CT-NY area is going full power. WLAD-FM 98.3 Danbury CT is increasing to the equivalent of 3 kw 300'. WLAD-FM has been running 340 watts, which it has been using since it came on the air, Dec., 1953. Almost all Class A and B stations in the CT-NY metro area are at maximum power and most are at maximum allowable height also (commercial stations). An even lower-power WLAD-FM on 98.3 operated from 1947 to 1949 with 150 watts, but went off and its license was deleted. Enclosed with this letter was a copy of an ad for WSGN-FM "that powerful station" 93.7 Birmingham AL, p. 66, 1952 **Broadcasting Yearbook**: "Recent survey proves FM coverage in 28 counties, with WSGN-FM having 50% more listeners than the next most-listened-to station. Details on request." WSGN-AM-FM advertising could be bought in conjunction with WHBS-AM-FM (95.1) Huntsville AL.

Philadelphia stations WQVR 101.1 and WRCP-FM 104.5 want to swap frequencies. "Reasons for the unique request is strictly technical. Each station is planning changes in engineering facilities which would furnish a clearer signal if the frequencies are reversed." Both stations transmit from the so-called "antenna farm" in Roxborough.

In Pottstown PA, WPAZ (AM) had a construction permit for an FM on 97.1 in the early 1960's, but it never materialized. It's good that Herb Scott never put that station on 97.1 in Pottstown on the air. WASH Washington DC, at 160 miles, will alternate with WNBC-FM New York at 115 miles in Pottstown. For the first time receivable in that area is WFAN Washington DC, 100.3,* thanks to the long dispute between fundamentalist preacher Dr. Carl McIntyre and the FCC revocation of WKUR-FM's license (Media PA). To the NE, it's WVNJ-FM Newark NJ (110 mi) that's heard on 100.3. Concerning 101.1, it amazes this reporter that the FCC assigned three stations so close together on one frequency. New York and Washington are far enough apart but then, smack in the middle is WQVR Philadelphia [soon to be WRCP-FM, if the swap is approved], barely 89 miles south of WCBS-FM New York and 134 miles north of Washington (WQDC-FM). On 92.5, WIFL Philadelphia's transmitter is only 19 miles from Pottstown, even though Philadelphia itself is 35 miles away. WIFL, however, was planning to locate its transmitter closer to the center of Philadelphia, making DX on or near 92.5 in Pottsville a little easier in the future. To make this move WIFL had to compensate WOBN 92.7 Toms River NJ, which would have to move its tower farther east. The move so far has not materialized and, when called, WIFL gave the run-around to the caller. However, recently WIFL's tower fell and they were off the air for approximately one week, permitting the reception of WFRL 92.5 Winchester VA. WKJF 93.7 Pittsburgh now using the WKOL calls.

Reportedly not equipped to broadcast in stereo (contrary to previous information) are WBPZ-FM 92.1 Lock Haven and WGMR 101.1 Tyrone PA, while WARMY 92.7 Starview, with rock, is \$ (PA) WIOQ 102.1 Philadelphia is supposedly rock, not MOR! Heard testing in late September: WIBQ 98.7 Utica NY with \$. WRUR *98.5 Rochester NY is still operating with 10 watts (perhaps they have given up their permit to go to 19500; 120'). WMHR 102.9 Syracuse (\$, g) now 24 hours/day, as is WKFM (formerly WOSC-FM) Fulton NY. WKFM is claiming all kinds of changes to come soon (besides their recent power increase); perhaps \$ is planned. WKFM is on 104.7 mhz.

KRSB-FM 103.1 Roseburg OR transmits from a downtown building, MOR music. KBOY-FM 95.3 Medford not heard until almost into town, while KMTT 93.7 has wide coverage. KSLM 105.1 Salem OR is now broadcasting with its new call letters: KORI with MOR KICE 100.7 Bend OR, \$ MOR, is on 6 a. m. to midnight with their local advertising educating thusly: "Most people know whether they have an FM radio set or not, but we've found that a sizeable number of people have FM sets and don't realize they do. There's a reason for this. For years, about all you could receive on a radio, in our area, was AM radio—stations like KRCD, KRND, KGRL and KPRB, but now there's FM radio in central Oregon—KICE FM Stereo—at 100.7 to your FM set dial." Montana's KYSS-FM recently moved from 100.1 to 94.9 (Missoula) with 50000 h,v; 2500' and \$ atop Big Sky Mountain, 11 miles north of town. KYSS-FM is sharing the \$100,000 radio transmission facility with KUFM, the University of Montana radio station. "The cooperative installation is the only such instance in Montana and one of the few in the nation where a commercial broadcaster and a non-commercial radio station will share transmitter building and tower, according to Chester M. Murphy, KYSS-FM president." KYSS-FM is supposed to carry ABC and Paul Harvey, but their advertising fails to mention which of ABC's four webs will be offered. KUFM *89.1 is being delayed in its move to the mountain, but should be there soon. When KUFM recently increased to 4.3 kw interference problems were caused on campus [see Oct. VUD, pp.13-14] which prompted KUFM to join KYSS-FM on the mount. KUFM will be 7400 h,v; 2500'; no mention of \$. KUFM's hours are 7 a. m. to midnight Monday through Thursday and until 2 a. m. Fri. & Sat. The station does not broadcast Sundays. Because of the interference on campus, KUFM temporarily cut back its hours.

WCWU *91.3 Worcester MA heard testing in \$, while WCOM-FM 93.7 Lawrence MA has not yet been heard in \$. WVBR 93.5 is a commercial student FM station of Cornell University. The station recently moved from quarters on the campus to a location in Ithaca, off campus.

More new Stereo stations: KUMR *88.5 Rolla MO, WJCD-FM 93.7 Seymour IN with a k(ountry) format, and KETU 95.9 Salem MO. A group in Lincoln NE, probably similar to that which operates WRFG Atlanta GA, has formed for the purpose of starting a listener-sponsored FM station, and has received advice from Marv Robbins and myself concerning a possible frequency to apply for. Also in Lincoln is a group trying to form a religious community service station. I recommended that they get KRNU to move from *91.3 to *91.1, and apply for *91.9, with a transmitter 5 mi. west of Lincoln so as to be 65 miles away from KEZO 92.3 Omaha. Otherwise, *89.5 may be available in Lincoln, with a good prospect of objections being raised by WQW-TV, ch. 6, Omaha (which spacing would be no worse than WCWU *89.5 Mount Pleasant MI coming in at 60 miles from WJIM-TV, ch. 6, Lansing).

Construction of WQXO 98.5 Munising MI's tower is well along, with the tower also being sought by WLUC"-TV" ch. 6 Marquette for a ch. 55 translator. WQXO will be mono, MOR. A poll recently conducted by the American Research Bureau for the Corp. for Public Broadcasting showed that 20,300 persons listen to WNNR *90.1 Marquette during an average week, and plans are underway to increase WNNR's power from 250 to 100000 watts to "attract and better serve an even larger audience in the future." Back to WQXO: They expect to be on the air in mid-January '74. Another public station, WABE *90.1 Atlanta, claims a large audience, based on the same type of survey employed by the CPB for WNNR. WABE is supposedly "one of the 20 most-listened-to public radio stations" in the nation. They are in the process of increasing to 30,000 h,v; 410' and adding \$, with the improvement paid for by a grant from GCC Communications, owners of WGKA and WZGC 92.9 Atlanta.

WFMR 96.5 Milwaukee announces plans to build a new tower and acquire new equipment. They'll move from downtown to atop the 275' Schlitz Brewing Co. grain elevator, 4400 N. Port Washington Road, Glendale, about a half mile north of their new studio. Koss stereo headphones and Industrial Towel and Uniform executives bought WFMR last year for \$350,000 after citizens organized to prevent Bartell Media from buying it — a move that insures the continuation of WFMR's classical music format.

An informant, who is on the staff of KBCS Bellevue WA, tells me that KBCS is on 91.3, not 91.1, as commonly believed.

Now on the air in Stereo with MOR music: WLIN 95.5 Jackson MS (100000; 1060'). WLIN ("Lynn") has a fine, powerful signal in parts of LA, announcing as "all music, all the time" (Schulze format?). Now, here is

AN APPEAL

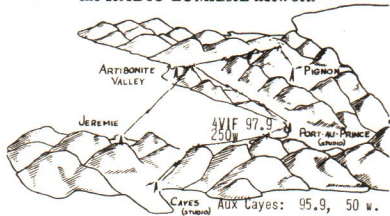
from Dr. Richard E. Wood, Dept. of Foreign Languages, Louisiana State University, Baton Rouge LA 70803, who is compiling a listing of meaningful AM and FM radio station call letters. He'd particularly like to hear from FM DXers, noting the significances of FM station call letters they may know about. The report he is working on will be submitted to an academic journal, and should prove to be a very interesting and worthwhile project.

In \$: WBLK 93.7 De Pew-Lancaster NY, with great separation. WTMJ 93.1 Miami, now announcing "new sound of WTMJ, 100-000 watts (h,v)," excellent classical music and a good signal.

Information below is from an article, "FM Translators," in the Winter, 1973, issue of Religious Broadcasting.

The first FM translator installed anywhere, was on the Island of Haiti by Radio Lumiere, the Missionary Radio Voice of the West Indies Mission. This was ten years ago. In Haiti it is reported that four mountain tops are used as FM translator sites, and that these translators are employed to relay program material between their five AM sites and their two studios. In one case the FM translator covers a path of some 75 miles, while another, over a water path covers a distance of 90 miles from mountain top to FM receiver. In most every application a stacked 5 element yagi antenna is used to improve signals and to extend the range.

the RADIO LUMIERE network



Binghamton NY is to have a new public FM station, with a target date, February, 1974. WSKG-FM, if it receives its construction permit in time from the FCC, will be on 89.3 with 8670; 977', and will be about 85 percent classical music. WHRW 90.5, although only 10 watts, is expected to go stereo in January, 1974.

WHF! 94.7 Birmingham MI started identifying as WHNE ("Money") about Oct. 8, continuing with its format of non-stop oldies. WPEZ 94.5 Pittsburgh changed its format to rock and now identifies with its own call letters frequently rather than just once an hour as it did for some time.

WREZ (formerly WBCE, and before that, WEBR-FM) 94.5 Buffalo NY announced numerous times several months ago about changing to stereo. No such change ever occurred and all such announcements have ceased. Music is very poor at times, with turntable radically changing speed on occasion. WBKL 93.7's is on a parttime basis.

With reference to an article about the possible demise of CJRT 91.1 Toronto [VUD, May, 1973, p. 16, Ellis and Ossowski], it appears that this station, to the delight of many, is still alive and well.

Here's a letter to the editor which appeared in the Baton Rouge LA State-Times:

"My Pet Peeve is with radio announcers who give their station's call letters but not the city they are broadcasting from. Many times during our travels across the country we have wanted to know the weather conditions ahead as we travel with a truck camper and need to know wind and storm conditions. We listen to weather reports and then later learn that what we heard came from another state. Please, radio announcers, state the name of the city at least every 15 minutes. These letters mean nothing to a traveler." -- Mrs. L. R.

And, at the top of the next column, is a picture of the 1-watt FM translator, W285AA 105.5, serving Iron Mountain and Kingsford MI with programming from WRVM 102.7 Suring WI.

**WRVM - FM ANNOUNCES . . .
TRANSLATOR STATION AT IRON MOUNTAIN**



In Illinois, the former WPRS-FM is now WACF 98.5 Paris, with stereo 50000 hz; 500', and with all country format. It is carrying FM Atlas advertising.

In Texas, students operate KOCV 91.3 Odessa, which is a fairly typical college radio station. KOCV is built on "good music," both popular and classical. Here's one of your KOCV broadcasters:



HCJB-2 FM Stereo in Guayaquil, Ecuador, on the air since Nov. 1, 1972, has increased its broadcast time to 10 hours daily. Letters show that the format of music with gospel mini-thrusts inserted throughout the day is very popular with the listeners. HCJB-FM Stereo in Quito moves rapidly toward "on the air" reality. FM frequency of 89.3 has been assigned by the government. Ralph Hurn reports that his construction crew has completed the FM transmitter building high on the upper slope of Mt. Pinchincha. In hand is the import permit for the new RCA FM transmitter to be shipped from the U. S. (The above from the June, 1973, Call of the Andes magazine.)

In the Los Angeles area is a Cable FM station, CABL-FM 108 mHz, available only to CATV subscribers with an FM radio-to-the-cable connection. Four disc jockeys spin records 24 hours a day, rock format, and commercial. "Record companies service the station to the hilt with new releases, etc. Skeptical record promotional people are doing a slow turnaround as they realize the potential of the station." It is this type of off-the-station which competes with regular FM stations for an audience, which the National Association of FM Broadcasters is trying to get the FCC to outlaw. CABLE FM stations are known to exist in Juneau AK, and possibly elsewhere.

Contributors: Frank Aden, OR; Mike Collins, CT; Wm. O. Dickerman, PA; Mike Dorner, Jr., AK; Bill Grant, MA; Roger S. Horie, MT; Dave Janowiak, WI; Al Kopoc, NY; Mark Lewis and Al Ellis, Ontario; Vic Melis, PA; F. J. Nordquist, NY; Paul Petosky, MI; Allen Rockford, NY; Peter Sawatzky, Ontario; Marvin Shults, IL; Kenneth R. Simon, FL; Dennis Smith, CA; Joseph Smith, Jr., NY; Dave Walcutt, IL; Richard E. Wood, LA. Also information supplied by several FM Atlas readers has been included here.



Canadian Radio-Television
Commission

Conseil de la Radio-Télévision
Canadienne

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NORTH OF THE BORDER:

FOR NEWS IN CANADIAN BROADCASTING

'73'

TV APPROVALS

UXBRIDGE, ONT ch. 22# Auth: 2200 kw Props: 3120 kw (5 Mw max) new site (GLOBAL)
SARNIA, ONT Auths: ch 34 178.8 kw EHAAT 503d xmtr at Oil Springs
Props: ch 29 162 kw EHAAT 685 xmtr at Dresden (GLOBAL)

FM APPROVALS

ST. JOHN'S NFLD. 106.9 MHz 100 kw h/v omni	(CBC ENG FM net)
HALIFAX, NS 100.1 MHz 100 kw h/v omni	(CBC ENG FM net)
CHIGOUIMI, PQ 100.9 MHz 98 kw h/v omni	(CBC FR FM net)
QUEBEC, PQ 95.3 MHz 100 kw h/v omni	(CBC FR FM net)
OTTAWA, ONT 102.5 MHz 70 kw h/v omni	(CBC FR FM net)
CALGARY, ALTA 102.1 MHz 100 kw h/v omni	(CBC ENG FM net)

FM APPLICATION

TILLSONBURG, ONT CKOT-FM Pres: 100.5 MHz 1135 w. Props: 101.3 MHz 50 kw (site near Salford)

TIDBITS

- ### STN LIST CHANGES: ch 10 Cheticamp NS, CBFOC now CBHFT-4 ; Have you got your copy
ch 12 Magdalen Is, PQ CBFOC-1 now ANIK repeater *of CDN GUIDE???
- Reminder to send for your copy of UPDATE LIST * It really helps!!
- ### Several ALTA CATV firms carry programs of Alberta Educ. Communic. Auth.
Whether or not brdest licences will be sought remains to be seen.
- ### CBC will have a new logo and name (probably bilingual) in Jan 74 to replace
the several it now has...so hang on to all those CBC "MAP" ID photos you have.
- ### These CBC FM applications of last year have finally been approved—ORTO is
satisfied that CBC RADIO ONE & TWQ plan won't turn the AM net into commercial-
style operation.
- ### Target date for GLOBAL xmtr tests is presently uncertain. Originally set for
mid-Nov, your Ed. was told it would be in mid-Dec. Program start Jan. 1, '74.
Don't expect individual IDs for each xmtr for the first while (till key-over
is practical for GBL's purposes) but a list of all 6 stns, which isn't good
for us with 2 ea. on ch 6 & 22. One person at GBL said call was CPGN-TV,
another said CKGN-TV. Details (correct, we hope) next month.
- ### Each CTY affiliate expressed the desire to expand service in respective region
in licence renewal applications. Included are Windsor & Sarnia ONT by CKOG
and Huntsville ONT (midway from Toronto to Sudbury) by OKSO.
Of special concern is poor quality CBC ENG service in northern N. Brunswick by
owners of CKGW Moncton plus lack of OTV.

CN TOWER REPORT

The growing CN TOWER in Toronto is the subject of feature articles every weekend in the Toronto press. The Sunday Sun & CN are sponsoring a contest guess the exact moment when the concrete portion is topped off at 1500 ft level. Growth rate recently has been 22 ft/day, 6 ft faster than expected so the big day should be around the end of Nov. Present ht. is about 1100 ft...By the time you read this, it will be higher than any of the biggies in N.Y. Target date for brdest is Nov/74. The ORTO just decided to hold a public hearing regarding those TV*FM applications in Sept column. An article in the Star mentions that CN didnt have problems in allocating antenna space encountered in USA regarding the fight for the prestigious top spot. Since noone really believed that Tower would be built, stns. just accepted positions assigned until plans went ahead & it was too late. So, the order is 1) Ch. 79 on top (the they arent presently moving) 2) then unassigned Ch. 45, 51, 57 3) then 19 & 25 4) then Ch. 9 5) then Ch. 5 6) finally FM.. Will you be one of the expected one million annual visitors to the top???

Comments & contributions, please!

73e

J & M

DECEMBER 1973

Deadlines:

- 10 December (9T 90FM)
- 11 January (10T FMSB)
- 12 February (11T TVSB)



CHANNEL 8 TROPO TVDX RECORDS

Editor:

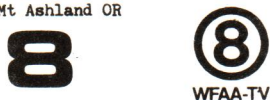
Glenn Hauser

K O S U - F M

Okla. State Univ.

Stillwater OK 74074

Call	Location	Miles	Dxer, Location
KAIT-	Jonesboro AR	395	Glenn Hauser, Enid OK
KSEW-	Salinas CA	215	Russell Cain, Reno NV
KFMB-	San Diego CA	885	Albert Brant, Salem OR
KTSC	Pueblo CO	35	Stu Grade, Cañon City CO
WNHC-	New Haven CT	450	Carlton Howington, Uniontown OH
WFLA-	Tampa FL	990	Pat Dyer, San Antonio TX
WGTV	Athens GA	255	David Cox, Carrollton AL
WXGA-	Waycross GA	370	Dick Clark, Ft Lauderdale FL
KIFI-	Idaho Falls ID	165	Elwood Walter, Roy UT
WSTU-	Carbondale IL	450	Bill Draeb, Kewaunee WI
WQAD-	Moline IL	570	Robert Seybold, Dunkirk NY
WISH-	Indianapolis IN	775	Don Ruland, Holly Hill FL
KRNT-	Des Moines IA	725	Robert Seybold, Dunkirk NY
KPTS	Wichita KS	495	Glenn Hauser, Calvert TX
KOMC-	Oberlin KS	690	Dave Janowiak, Milwaukee WI
KNOE-	Monroe LA	885	Bill Draeb, Kewaunee WI
WVUE	New Orleans LA	1015	Bill Draeb, Kewaunee WI
WAGM-	Presque Isle ME	590	Richard Nieman, Buffalo NY
WOOD-	Grand Rapids MI	655	Ed Rugel, Independence KS
KOMU-	Columbia MO	715	Robert Seybold, Dunkirk NY
KGHL-	Billings MT	690	Carl Dabelstein, Omaha NE
KHQL-	Albion NE	485	Fred McCormack, Des Lacs ND
KOLO-	Reno NV	210	Eric Norberg, Carmel CA
WMTW-	Mt Washington NH	390	Richard Nieman, Buffalo NY
KWSV-	Roswell NM	1510	Arnoldo Coro, Marianao Cuba
WROC-	Rochester NY	505	Bill Draeb, Kewaunee WI
WHEN-	Syracuse NY	575	Bill Draeb, Kewaunee WI
WGHP-	High Point NC	665	Dick Clark, Ft Lauderdale FL
WDAZ-	Devils Lake ND	560	Bill Draeb, Kewaunee WI
KUMV-	Williston ND	355	Anthony Markewicz, Camp Morton Man
WJW-	Cleveland OH	775	Bedford Brown, Hot Springs AR
KTVX	Muskogee OK	255	Startzman, Bennington KS
KSWB	Elk City OK	105	Glenn Hauser, Enid OK
KFDO-	Sayre OK	360	Robert Grace, Franklin TX
KTUL-	Tulsa OK	720	Bill Draeb, Kewaunee WI
KGW-	Portland OR	240	Eddie Albright & Charles Wood, Mt Ashland OR
WGAL-	Lancaster PA	615	Dave Janowiak, Milwaukee WI
W0GAG	Uniontown PA	115	Carlton Howington, Uniontown OH
WBTW	Florence SC	715	Ray Foster, Monroe LA
KESD-	Brookings SD	460	Bill Draeb, Kewaunee WI
WSIX-	Nashville TN	1215	Enrique Veazey F., Carmen Camp
WFAA-	Dallas TX	1205	King Schaefer, Kenmore NY
KUHT	Houston TX	775	Enrique Veazey F., Carmen Camp
KGNS-	Laredo TX	595	Ron Le Blanc, Marrero LA
KCTV	San Angelo TX	370	Glenn Hauser, Enid OK
WXEX-	Petersburg VA	600	Don Ruland, Holly Hill FL
WCHS-	Charleston VA	670	Bedford Brown, Hot Springs AR
WKBT	LaCrosse WI	670	Robert Cooper, Oklahoma City OK
WDSB-	Superior WI	265	Bill Draeb, Kewaunee WI
CHAN-	Burnaby BC	120	Elwood Walter, Seattle WA
CKSS-	Baldy Mtn Man	220	Fred McCormack, Des Lacs ND
CJSS-	Cornwall Ont	365	Roger Gravelle, St Thomas Ont
"CBWAT"	Kenora Ont	345	Fred McCormack, Des Lacs ND
"CBLAT-I"	Manitowadge Ont	195	Paul Petosky, Munising MI
CKNX-	Wingham Ont	340	Janowiak & Dombrowski, Milwaukee WI
CFQC-	Saskatoon Sask	140	Jim Dillon & David Kanaar, Regina Sask
XHAH-	Las Lajas Ver	805	Ron Le Blanc, Marrero LA
CMLR-	Holguin Cuba	450	Dick Clark, Ft Lauderdale FL
CMRA-	Santa Clara Cuba	850	Ed Bourgeois, Norco LA
8SCN-	Balboa CZ	35	Dave Swanson, Margarita CZ



STATISTICS

CHANNEL 83 TVDX RECORDS

DECEMBER 1973

W83AB	Detroit MI	200	Robert Seybold, Dunkirk NY
W83AN	Stephenson MI	70	Bill Draeb, Kewaunee WI
(USAF)	Hollomon AFB NM	105	Glenn Hauser, S Baldy Mtn NM
K83BO	Knippa & Uvalde TX	65	Glenn Hauser, Von Ormy TX
K83AQ	Matador etc TX	115	Glen Neal, Sayre OK

WTVS-56 & KS2XGD-76
WLUK-11
KLBP-13
KSAT-12
KLKB-13

TV SCORE BOARD

Dxer, Location	Stns	UHF	Trl	Es	MS	USA*	Can*	Mex*	For*	Sat	YB	As of:
Robert Seybold, Dunkirk NY	620	222	28	154	28	49%	8	4	3	65	50	4 Oct
*Bill Draeb, Kewaunee WI	524	196	23	145	13	41%	6	1	0	49	53	2 Aug
Roger Brown, East Lansing MI	412	179	4	89	14	41%	6	1	1	50	57	8 Nov
*Gary Olson, Deerfield area IL	363											27 Jul
*John Parillo, Girard OH	325	73	0	115	1	35%	5	0	1	42	51	3 Jul
*Glenn Hauser, Von Ormy area TX	317	82	19	117	3	38	2	11	4	55	71	16 Nov
*Don Ruland, Kenosha WI	308	125	2	52	21	34	5	0	0	39	71	7 Aug
Ron LeBlanc, Marrero LA	296	66	2	87	6	34%	3	8	6	52	67	16 Sep
Marvin Shults, Toulon IL	272	111	12	82	1	35	6	2	1	44	65	10 Nov
Rod Luoma, Livonia MI	256	121	2	40	5	30%	3				53	24 Oct
Frank Wheeler, Erie PA	247	47		108	4	32%	9	0	1	43	55	18 Sep
*J Joël Rosenberg, Downsview Ont	247	117	3	67		32	4				69	15 Jul
*Les Prus, Manhattan KS	239	13	2	139	20	37	5	5	0	47	69	16 Jul
Pat Dyer, San Antonio TX	221	28	0	106	8	37	2	7	4	50	59	10 Nov
Paul Traska, Buffalo NY	217	84	0	36	15	30%	2	0	1	34	67	6 Nov
Dave Egan, Valleyfield PQ	192	21	0	77	15	34%	5	0	2	42	67	1 Nov
*Frank Merrill, Toledo OH	177					24						16 Jul
Ron Hade, Rockford IL	171	50		34	12	30	3	1	0	34	70	17 Sep
Peter Gennuso, Dunkirk NY	170	60	1	34	1	22	4	0	0	26	73	24 Oct
Dennis Smith, Wasco CA	148	27	8	89	0	25	3	3	0	31	54	30 Aug
William Bonner, Galesburg IL	147			36	0	25%	3	3	1	33	71	19 Aug
Ken Simon, West Palm Beach FL	145	15	3	91	8	30%	4	6	8	49	69	1 Nov
Fred Nordquist, North Syracuse NY	122	21	0	39	2	26	3	0	1	30	69	5 Sep
Richard Allen, nr Billings OK	118	24	10	40	9	30	4	4	0	38	73	6 Nov
Glenn Hauser, Stillwater OK	116	24	1	42	1	25	3	5	0	33	73	16 Nov
Peter Sawatzky, Waterloo Ont	113	35	0	40	0	24	3	0	0	27	71	8 Sep
*Morris Sorensen, Emsdale & Bala Ont	59	0	0	30	0	16	1	0	0	17	66	24 Jul
*Richard Wood, Baton Rouge LA	50	9	0	10	0	11	0	0	4	15	73	6 Aug
John Combs, Orlando FL	43	2	0	22	0	14	1	0	2	17	71	2 Nov
*Ken Simon, Miami FL	40	5	0	17	0	10	1	0	3	14	66	1 Jun
Paul Maritato, Elizabeth NJ	38	18	3			12%					71	5 Oct
Dennis Smith, Santa Barbara CA	35	12	0	8	0	8	0	2	0	10	51	30 Aug
*Walt Windiah, Woodcliff Lake NJ	32	32	0	0	0	7	0	0	0	7	72	29 May
*Ken Simon, Gainesville FL	22	0	0	0	0	4	0	0	0	4	66	1 Jun
*Joël Rosenberg, Downsview Ont (CATV)	21	5		1		4	1				73	15 Jul
Dave Egan, Valleyfield PQ (QSL)	178	17	0	71	13	33%	5	0	0	39	67	1 Nov
Ken Simon, West Palm Beach FL (QSL)	113	13	3	75	4	29%	4	3	6	43	69	1 Nov
*Ken Simon, Miami FL (QSL)	21	0	0	16	0	10	1	0	2	13	66	1 Jun
*Ken Simon, Gainesville FL (QSL)	7	0	0	0	0	3	0	0	0	3	66	1 Jun

& = District of Columbia; Sat=saturation=total political units; YB=year began; **update::

NEW TVDX RECORDS

Ch Call	Location	Prop	Miles	Dxer, Location	Old Record
2 WTWO	Terre Haute IN	MS	935	Fred McCormack, Des Lacs ND	Egan 790
WLBZ	Bangor ME	Tr	270	Mike Dunn, Seaford NS	Boyd TIE
WJBK	Detroit MI	MS	970	Fred McCormack, Des Lacs ND	Bourgeois 945
WNAB	Ackerman MS	MS	610	Pat Dyer, San Antonio TX	none
WGR	Buffalo NY	MS	1155	Fred McCormack, Des Lacs ND	Hauser 1100
WKTV	Utica NY	MS	1275	Robert Cooper, Arcadia OK	Bingham 860
KUSD	Vermillion SD	Tr	510	Robert Cooper, Arcadia OK	Markewicz 500
KDKA	Pittsburgh PA	MS	985	Robert Cooper, Arcadia OK	Bourgeois 925
KDIX	Dickinson ND	MS	1215	Pat Dyer, San Antonio TX	Nieman 1205
WDCN	Nashville TN	MS	820	Pat Dyer, San Antonio TX	none
KNID	Midland TX	MS	1430	Robert Seybold, Dunkirk NY	Moses 1215
KUTV	Salt Lake City UT	MS	865	Robert Cooper, Arcadia OK	Grover 740
KREM	Spokane WA	MS	885	Jim Pizzi, Orcutt CA	none
"CBXAT2" High Prairie Alta	Es	860	Anthony Markewicz, Camp Morton Man	MPCormack 800	
CKCO-1 Warton Ont	Es	1435	Glenn Hauser, Von Ormy TX	Dyer 1430	
	Tr	315	Bill Draeb, Kewaunee WI	Brown 215	



STATISTICS

DECEMBER 1973

Station	City	MS	1973	Advertiser	Agency
3 WEAR-	Pensacola FL (AL)	MS	935	Robert Seybold, Dunkirk NY	Weinstein 800
KTVS	Sterling CO	Tr	460	Robert Cooper, Arcadia OK	Garber 265
		MS	530	Fred McCormack, Des Lacs ND	none
WTIC-	Hartford CT	Tr	585	Mike Dunn, Seaforth NS	Seybold 335
KATC	Lafayette LA	Tr	595	Ken Simon, Gainesville FL	Neal 560
WJMN	Escanaba MI	Es	1385	Ken Simon, West Palm Beach FL	Hauser 1315
		Tr	440	Frank Wheeler, Erie PA	Goldman & Hade 285
KYTV	Springfield MO	Tr	525	Ron Le Blanc, Marrero LA	Metzner 450
KYUS-	Miles City MT	Es	1325	Robert Seybold, Dunkirk NY	H Cooper 1140
KORK-	Las Vegas NV	MS	1085	Fred McCormack, Des Lacs ND	none
KPDX-	Wichita Falls TX	MS	1190	Robert Seybold, Dunkirk NY	Weinstein 1105
CJLH-3	Burnis Alta	Es	1280	Robert Cooper, Arcadia OK	none
CJOX-	Argentina Nfld	2Es	2305	Robert Cooper, Arcadia OK	H Cooper 1485
"CBHT"	Halifax NS	Au	515	Dave Egan, Valleyfield PQ	none
"CBFT2"	Mont-Laurier PQ	Tr	115	Dave Egan, Valleyfield PQ	none
XHY-	Mérida Yuc	Tr	805	Glenn Hauser, Von Ormy TX	none
'TVN6'	Santa Clara Cuba	Tr	300	Ken Simon, West Palm Beach FL	Howington 220
HRN-	Teguicagalpa Hond	Es	985	Ken Simon, West Palm Beach FL	none
WIPM-	Mayaguez PR	2Es	1660	Dave Siddall, Hyannis MA	omitted
4 KOA-	Denver CO	Es	1505	Fred Nordquist, N Syr. NY	(Buffalo)1370
WJXT	Jacksonville FL	Tr	1020	Glenn Hauser, Von Ormy TX	Foster 635
K4EJ	Coffeyville KS	Tr	130	Robert Cooper, Arcadia OK	none
WEZ-	Boston MA	MS	1455	Robert Cooper, Arcadia OK	Olson 865
WCCO-	Minneapolis MN	MS	675	Robert Cooper, Arcadia OK	none
KMOX-	Saint Louis MO	MS	870	Fred McCormack, Des Lacs	Yingling 735
KDUH-	Hay Springs NE	Tr	545	Robert Cooper, Arcadia OK	McCormack 405
K4DY	Tahlequah OK	Tr	125	Robert Cooper, Arcadia OK	none
WCIV-	Charleston SC	MS	1005	Robert Cooper, Arcadia OK	Egan 920
GJAY-2	Brandon Man	Tr	145	Anthony Markewicz, Camp Morton Man	none
"CBWT2"	Lac du Bonnet Man	Es	1215	Tom Yingling, Dundalk MD	Kureth 1180
CHNB-	North Bay Ont	Es	995	Les Prus, Manhattan KS	none
		MS	1170	Robert Cooper, Arcadia OK	none
		Es	1220	Ken Simon, West Palm Beach FL	none
5 WPTV	Panamá Panamá	MS	1180	Robert Cooper, Arcadia OK	none
	Palm Beach FL	MS	1180	Robert Cooper, Arcadia OK	Cody 1100
WABI-	Bangor ME	Tr	270	Mike Dunn, Seaforth NS	Boyd TIE
WCVB	Boston MA	Es	1330	Les Prus, Manhattan KS	Bright 1010
WRAL-	Raleigh NC	MS	1040	Robert Cooper, Arcadia OK	Draeb 770
WCSC-	Charleston SC	MS	1005	Robert Cooper, Arcadia OK	Rawlings 940
WCYB-	Briston TN	MS	830	Robert Cooper, Arcadia OK	Cody 615
KSL-	Salt Lake City UT	Es	1425	Ron Le Blanc, Marrero LA	Draeb 1260
WDTV	Weston VA	MS	940	Robert Cooper, Arcadia OK	none
CFCN-6	Burnis Alta	Es	1280	Robert Cooper, Arcadia OK	none
CKX-	Brandon Man	Tr	145	Anthony Markewicz, Camp Morton Man	McCormack 135
"CBIT"	Sydney NS	Es	960	Bill Thompson, Buffalo NY	none
"CBLT"	Toronto Ont	Tr	400	Paul Petosky, Munising MI	none
		MS	1085	Robert Cooper, Arcadia OK	none
XHZ-	El Zamorano Qro	Es	1050	Glenn Hauser, Stillwater OK	none
6 WCIX-	South Miami FL	Tr	85	Ken Simon, West Palm Beach FL	none
		MS	1215	Robert Cooper, Arcadia OK	none
WCSH-	Portland ME	Tr	370	Mike Dunn, Seaforth NS →	Nelson 280
WJIM-	Lansing MI	MS	835	Robert Cooper, Arcadia OK	none
WLUC-	Marquette MI	MS	900	Robert Cooper, Arcadia OK	none
WDSM-	Duluth MN	Es	1260	Glenn Hauser, Von Ormy TX	Nordquist 1250
WRGB	Schenectady NY	MS	1320	Robert Cooper, Arcadia OK	Brown 530
WTVN-	Columbus OH	MS	825	Robert Cooper, Arcadia OK	Bourgeois 795
KOIN-	Portland OR	Au	340	Frank Aden, Boise ID	none
WJAC-	Johnstown PA	MS	1035	Robert Cooper, Arcadia OK	none
WFLI-	Philadelphia PA	MS	1225	Robert Cooper, Arcadia OK	Bourgeois 1090
WATE-	Knoxville TN	MS	740	Robert Cooper, Arcadia OK	Niemans 550
WTVR	Richmond VA	MS	1090	Robert Cooper, Arcadia OK	Draeb 705
WITI-	Milwaukee WI	MS	705	Robert Cooper, Arcadia OK	Egan 695
"CBWT"	Winnipeg Man	Es	1370	Richard Wood, Baton Rouge LA	Pulice 1295
CHSJ-1	Bon Accord NB	Tr	245	Mike Dunn, Seaforth NS	none
CJOH-1	Deseronto Ont	Tr	380	Roger Brown, East Lansing MI	Sawatzky 175
'TCM'	Piedras Negras Coah	Tr	125	Glenn Hauser, Von Ormy TX	none
'TVN6'	Habana Cuba	Tr	285	Ken Simon, West Palm Beach	Clark 255
7 WJCT	Jacksonville FL	MS	975	Robert Cooper, Arcadia OK	none
WCKT	Miami FL	MS	1210	Robert Cooper, Arcadia OK	Hidley TIE



STATISTICS

7	WEMT	Bangor ME	Tr	270	Mike Dunn, Seaforth NS		DeLorenzo 230
	WNAC-	Boston MA	Tr	430	Mike Dunn, Seaforth NS		Seybold 410
8	WROC-	Rochester NY	MS	1160	Robert Cooper, Arcadia OK		none
	WGHF-	High Point NC	MS	965	Robert Cooper, Arcadia OK		none
	WKRC-	Petersburg VA	MS	1090	Robert Cooper, Arcadia OK		none
9	KCRG-	Cedar Rapids IA	Tr	640	Robert Seybold, Dunkirk NY		Cooper 555
	WAFB-	Baton Rouge LA	Tr	990	Bill Draeb, Kewaunee WI		Neal 590
	KNSP-	Minneapolis MN	Tr	710	Robert Seybold, Dunkirk NY		Meers 605
	WTSV	Tupelo MS	Tr	705	Bill Draeb, Kewaunee WI		Ruland 500
	KETC	Saint Louis MO	Tr	620	Robert Seybold, Dunkirk NY		LeBlanc 605
	CKNC-	Sudbury Ont	Tr	290	Robert Seybold, Dunkirk NY		none
	CFTC-	Toronto Ont	Tr	940	Les Prus, Manhattan KS		Janowiak 465
	"CBLAT3"	Wasa Ont	Tr	140	Paul Petosky, Munising MI		none
	XHBW-	Monclova Coah	Tr	235	Glenn Hauser, Von Oray TX		none
	XHTP-	Merida Yuc	Tr	805	Glenn Hauser, Von Oray TX		none
10	WPLG-	Miami FL	Tr	1155	Glenn Hauser, Von Oray TX		Hauser 1055
	KLFY-	Lafayette LA	Tr	785	James Gould, Kokomo IN		Bingham 555
	WCBB-	Augusta ME	Tr	215	Dave Egan, Valleyfield PQ		Baratow 180
	KWCM-	Appleton MN	Tr	415	Bill Draeb, Kewaunee WI		MCCormack 340
	CFMT-	Montreal PQ	Tr	565	Roger Brown, East Lansing MI		Gravelle 420
	XHAI-	Kas La, Jas Ver	Tr	805	Ron Le Blanc, Marrero LA		Dyer 665
11	WINK-	Fort Myers FL	Tr	1050	Glenn Hauser, Von Oray TX		Hauser 955
	WTOC-	Savannah GA	MS	955	Robert Cooper, Arcadia OK		none
	WBAL-	Baltimore MD	MS	1140	Robert Cooper, Arcadia OK		B Brown 960
	WLIC	Pittsburgh PA	MS	985	Robert Cooper, Arcadia OK		none
	WLJT	Lexington TN	Tr	495	Robert Cooper, Arcadia OK		none
	CKWS-	Kingston Ont	Tr	410	Roger Brown, East Lansing MI		Merrill 385
	"CBLAT4"	Marathon Ont	Tr	160	Paul Petosky, Munising MI		none
12	WBAT-	West Palm Beach FL	Tr	1150	Glenn Hauser, Von Oray TX		Hauser 1050
	WNEB	Orono ME	Tr	275	Dave Egan, Valleyfield PQ		Barstow 240
	WPRI-	Providence RI (MA)	Tr	450	Mike Dunn, Seaforth NS		Smith 430
	KODE-	Joplin MO	Tr	875	Robert Seybold, Dunkirk NY		Draeb 625
	WAEO-	Rhineland WI	Tr	795	Robert Cooper, Arcadia OK		Pomeroy & Seybold 540
	"CBFST3"	Elliot Lake Ont	Tr	270	Bill Draeb, Kewaunee WI		none
	"CBLAT2"	White River Ont	Tr	165	Eaul Petosky, Munising MI		none
	GKNS-	Jonquiere PQ	Tr	735	Paul Petosky, Munising MI		none
13	WNPB	Marquette MI	Tr	485	Robert Seybold, Dunkirk NY		none
	KTNE	Alliance NE	Tr	530	Robert Cooper, Arcadia OK		Garber 330
	WLOS-	Asheville NC	Tr	815	Robert Cooper, Arcadia OK		Draeb 665
	KETA	Oklahoma City OK	Tr	575	Ron Le Blanc, Marrero LA		Bourgeois 560
	WHFQ-	Memphis TN	Tr	655	Bill Draeb, Kewaunee WI		Parillo 645
	KVTV	Laredo TX	Tr	140	Pat Dyer, San Antonio TX		none
	"CBLAT"	Geraldton Ont	Tr	230	Paul Petosky, Munising MI		none
	"CBCT"	Charlottetown PEI	Tr	110	Mike Dunn, Seaforth NS		none
	XHST-	Merida Yuc	Tr	805	Glenn Hauser, Von Oray TX		Bishop 720
14	WAEW-	Pelham GA	Tr	880	Glenn Hauser, Von Oray TX		Ruland 860
	WMAW	Meridian MS	Tr	725	Don Ruland, Kenosha WI		Goldman 680
	KPOB-	Poplar Bluff MO	Tr	380	Robert Cooper, Arcadia OK		Fleer 280
	KAMU-	College Station TX	Tr	370	Ron Le Blanc, Marrero LA		Ruland 80
16	WAFT	Jackson MS	Tr	865	Bill Draeb, Kewaunee WI		Brown 800
	KUHI	Joplin MO	Tr	875	Robert Seybold, Dunkirk NY		Brown 655
	KDSD-	Aberdeen SD	Tr	675	Robert Cooper, Arcadia OK		MCCormack 235
17	KTGI	Saint Paul MN	Tr	710	Robert Seybold, Dunkirk NY		Brown 465
	WMAU	Bude MS	Tr	920	Bill Draeb, Kewaunee WI		Brown 860
	KCBJ-	Columbia MO	Tr	725	Robert Seybold, Dunkirk NY		Brown 500
18	WDHN	Dothan AL	Tr	805	Glenn Hauser, Von Oray TX		Cooper 760
	WMAV	Oxford MS	Tr	715	Bill Draeb, Kewaunee WI		Ruland 585
20	WBHH-	Fort Myers FL	Tr	1050	Glenn Hauser, Von Oray TX		Hauser 960
	WXON-	Allen Park MI	Tr	255	Bill Draeb, Kewaunee WI		none
	WVTB	Saint Johnsbury VT	Tr	120	Dave Egan, Valleyfield PQ		none
23	WKAR-	Lansing MI	Tr	835	Robert Cooper, Arcadia OK		Pomeroy 635
	WMAO	Greenwood MS	Tr	785	Bill Draeb, Kewaunee WI		Cooper 415
	WNJS	Camden NJ	Tr	285	Robert Seybold, Dunkirk NY		Yingling 90
24	WMPF-	Orlando FL	Tr	1030	Glenn Hauser, Von Oray TX		LeBlanc 520
	WHTV	Meridian MS	Tr	710	Don Ruland, Kenosha WI		Cox 70
	KVUE	Austin TX	Tr	420	Richard Allen, nr Billings OK		Cooper & Neal 360
25	WKMX-	Saginaw MI	Tr	885	Robert Cooper, Arcadia OK		Olson & Seybold 230

(to be continued:) ... Applications still open for statistics editor position; 73, Glenn



EASTERN TV DX

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

Still a catch-up column this month as I try to get all reports completed in order to make a clean transfer to a new editor. As of now, there are three offers: Bill Thompson (Buffalo, NY), Steve West (Havertown, PA) and John Combs (Orlando, FL). All appear to be capable of editing this column so the decision will not be easy. However, I will try to make a decision by next month among the three and announce the new editor in the January VUD. Enjoyed visiting with Gary Olson at the National Association of Educational Broadcaster's Convention in New Orleans in early November and with Ron LeBlanc via telephone. Sorry I wasn't able to make it out to see your setup, Ron.

Paul D. Traska 64 Weaver Avenue Buffalo, New York 14206

8-26 Tr	2330 WKAR-23 E.Lansing,MI	2222R	10-22 Tr	1030 WQLN-54 Erie, PA	5555R
	0249 WISN-12 Milwaukee,WI	2222N0510		1030 WKBD-50 Detroit, MI	5555R
8-28	0222 WMAQ-5 Chicago,IL	3333N0500		2230 WTVS-56 Detroit, MI	5555R
	0225 WITI-6 Milwaukee,WI	5555N0500		2235 WBGU-57 Lima, OH	4343R0310
	0230 WISN-12 Milwaukee,WI	5555R0500		2235 WJIM-6 Lansing, MI	3433R
	0230 WTMJ-4 Milwaukee,WI	5555N0500		2235 CFPL-10 London,Ontario	4444R
	0330 WTTG-5 Washington,DC	R		2300 WKBN-27 Youngstown,OH	3333R
8-29	0200 CKS0-5 Sudbury,Ont.	3333R		2300 WYTV-33 Youngstown,OH	3333R
	0200 CKS01-11 Kearnes,Ont	2322N		2300 WVIZ-25 Cleveland	3343R0190
	0230 WCAU-10 Philadelphia	3233R		2300 WEWS-5 Cleveland	4444R0190
	1745 WGTE-30 Toledo, OH	4444R0280		2310 CJOH-6 Ottawa,Ont.	4444R0240
	1745 WBGU-57 Lima, OH	4444R0310		2310 WNPE-16 WatertownNY	2232R0220
	2030 WNEO-45 Alliance,OH	3333R		2310 WUTR-20 Utica, NY	3333R
9-1	0215 WSPD-13 Toledo,OH	3333R		2315 WENY-34 Elmira, NY	3333R
	0215 WWJ-4 Detroit,MI	3333R		2315 WJCA-4 Binghamton, NY	3333R
	0230 WTRF-7 Wheeling,WV	4444R		2315 WICZ-40 Binghamton, NY	3333R
	0240 WCBS-2 New York City	2222R		2320 CBLFT-25 Toronto,Ontario	3333R
	0242 WQED-13 Pittsburgh,PA	R		2320 CICA-19 Toronto,Ontario	3333R
	0252 CKNC-9 Sudbury,Ontario	2222N		2330 WRUA-19 Peoria, IL	3444N0565
	0259 WJZ-13 Baltimore,MD	3333R		2330 WTV0-17 Rockford,IL	3333R0550
	0305 WHTN-13 Huntington,WV	R		2330 WPTA-21 Ft.Wayne,IN	3333R0320
9-2	0130 WAND-17 Decatur, IL	3333N0550		2330 WICS-20 Springfield	3333R0610
	0300 WNBC-4 New York City	3333R		2333 WANE-15 FT.Wayne,IN	3333R
9-30	0300 KYW-3 Philadelphia	2322R		2333 WUCM-19 Bay City, MI	3333R
10-22	0100 WNDU-16 South Bend,IN	4444R		2335 WSNs-44 Chicago, IL	3333R
	0100 WICS-20 Springfield,IL	2333R		2335 WAND-17 Decatur, IL	4444R
	0100 WEYI-25 Saginaw,MI	4344R		2400 WLF1-18 Lafayette, IN	4444N
	0155 UNID-19 to SW			2400 WMBD-31 Peoria, IL	4444N
	0210 WLW1-13 Indianapolis,IN	4444R		2400 WCIU-26 Chicago, IL	2333N
	0210 KPLR-11 St.Louis, MO	4444N0680		2400 WLIO-35 Lima, OH	3333R
	0210 WGN-9 Chicago,IL	4444R		2400 WKOW-27 Madison, WI	3333N0550
	0210 WXYZ-7 Detroit,MI	5555R		2400 WPNE-38 Green Bay,WI	3333N0480
	0235 WLS-7 Chicago, IL	3233R		2400 WVTV-18 Milwaukee,WI	4444N
	0240 WBBM-2 Chicago, IL	2333R		2400 WKUG-33 Ft.Wayne,IN	4444R
10-22	1030 WSBT-22 South Bend, IN	3333R	10-23	0100 WTV0-17 Rockford,IL	3333R
	1030 WFLD-32 Chicago, IL	2333R		0100 WICS-20 Springfield,IL	3333R
	1030 WUHQ-41 Battle Creek,MI	3333R		0150 WLIO-35 Lima, OH	3333R
	1030 WKAR-23 E.Lansing,MI	3333R0300		0150 WTOL-11 Toledo, OH	4444R
	1030 WSJV-28 Elkhart,IN	3333R0320		0200 WISN-12 Milwaukee, WI	3333R

John F. Combs 816 W. Harvard Street Orlando, Florida 32804 (EDT/EST)

10-20 Tr	0131 WPTV-5 W.Palm Beach,FL	N0140	11-1 Tr	2059 UNID-11 WXLI-Atlanta?	T
10-28	1303 WPLG-10 Miami, FL	N0200	11-2	0632 WTOG-11 Savannah, GA	R0245
	1319 WEAT-12 W.Palm Beach,FL	N0140		0644 WJTV-12 Jackson, MS	N0595
	1322 WTVJ-4 Miami, FL	N0200		0648 WJHG-7 Panama City,FL	R0275
	1930 WJKS-17 Jacksonville,FL	N0135		0700 WRDW-12 Augusta, GA	N0345
10-29	0526 WCKT-7 Miami, FL	N0200	11-3	0844 WCKT-7 Miami, FL	R0200
	0605 WPLG-10 Miami, FL	R0200		0847 WXGA-8 Waycross, GA	N0195
10-31	0647 WJHG-7 Panama City,FL	N0275		0904 WALB-10 Albany, GA	N0280
	0652 WFL-4 New Orleans,LA	N0535		0926 WDTB-13?Panama City,FL	T
11-1	0647 WDTB-13 Panama City,FL	N0275		1050 UNID-12 WRDW-Augusta,GA?	T
	2035 WTOG-11 Savannah, GA	R0245			

EDITOR'S NOTE: Remaining unpublished are reports from Ken Simon, Peter C. Gennuso, Pte J. A. Markevicz, and Bill Thompson.

Robert Seybold, Dunkirk, New York

"I was glad to see you at the convention here and hope we meet again next year wherever it is. This report will cover August 1 to September 9 and will be condensed as much as possible. There was a great tropo period here from August 25 to September 5 with above average tropo on all days in that period with August 27-28 being super days and September 4-5 very good days. On August 23 alone I logged 179 stations including 100 on UHF. We had a long seige of hot, humid (that sounds good now, dp) and it was real ideal for tropo. Log now at 613.

- 8-1 Tr WANE-15 WNDU-16 WJAN-17 WSYE-18 WTAP-15 WUCM-19 WXON-20 WDCA-20 WSBT-22 WDAU-22 WKAR-23 WDHO-24 WEYI-25 WSJV-28 WMBD-31 WGTE-30 WKJG-33 WBRE-28 WBJA-34 WENY-36 WICZ-40 WUHQ-41 WKBD-50 WTVS-56 WKZO-3 WLWC-4 WTVN-6 WOTV-8 WILX-10 WBNS-10 WJRT-12
- 8-2 "Most of the above plus:" WNEP-16 WITF-33 WSBA-43 WSNS-44 WPTA-21 Es KDLO-3 KOTA-3
- 8-3 Tr ~~WUOC-44~~ Cambridge, OH WNPI-16 WTAP-15 WUTR-20 WDCA-20 Washington, DC Scranton U's WNPI-18 WSBA-43 WLWT-5
- 8-4 Es 1100-1300 WBRZ-2 KATC-3 1630-1800 KWGN-2 KTVS-3 KOTA-3 KOA-4 KNOP-2 N.Platte, NE Tr WANE-15 WNDU-16 WFLI-18 WUCM-19 WXON-20 WKAR-23 WSBT-22 WDHO-24 WEYI-25 WSJV-28 WBRE-28 WGTE-30 WBJA-34 WENY-36 WICZ-40 WUHQ-41 WUOC-44 WNEO-45 Salem, OH WKBD-50 MI WTVS-56 WBGU-57 Lima-Bowling Green, OH
- 8-6 Tr above normal 0700-1000 & 1900-2400 WMCU-14 Mt. Pleasant, MI WNEP-16 WTV0-17 IL WJAN-17 Canton, OH WHIZ-18 WSYE-18 WTAP-15 WUTR-20 WDCA-20 WPTA-21 WDAU-22 WKOW-27 WNPE-16 WGTU-29 WMBD-31 WGVC-35 WSNS-44 WVIA-44 WSKG-46 WITF-33 WSBA-43 York, PA WDTV-5 WOTV-8 WJRT-12 Flint, MI WCHS-8 Charleston, WV
- 8-7 "average run" IN-PA-NY-OH VHF to 400 miles
- 8-8 to 8-24 "away on family trip and vacation--did not observe DX in this period."
- 8-25 Tr "beginning of super good long tropo spell--morning and evening sessions all days till September 5. To condense report, following stations logged on all days;
WANE-15 WNDU-16 WNEP-16 WTAP-15 WXON-20 WSBT-22 WKAR-23 WDAU-22 WDHO-24 WEYI-25 MI WSJV-28 WGTE-30 WKJG-33 WBJA-34 WBRE-28 WENY-36 WICZ-40 WUHQ-41 WSKG-46 WKBD-50 MI WTVS-56 WBGU-57 WILX-10 WJIM-6 WKZO-3 WLWC-4 WTVN-6 WBNS-10 Columbus, OH
- 8-25 "good opening" WICD-15 Champaign, IL WMCU-14 WJAN-17 WFLI-18 WUCM-20 WRAU-19 Peoria WMBD-31 WFLD-32 WL10-35 Lima, OH WDCA-20 WSNS-44 WUOC-44 WNEO-45 WPTA-21 WITF-33 PA WSBA-43 WNPE-16 WNPI-16 WUTR-20 WCNY-24 Syracuse, NY WLUC-6 WWTU-9 WWUP-10 WRC-4 WTTG-5 WLWT-5 WOTV-8 Grand Rapids, MI WDTV-5 WCHS-8 Charleston, WV
- 8-26 "tropo improving" WMCU-14 WICD-15 WHIZ-18 WLEX-18 Lexington, KY WCDC-19 N.Adams, MA WHP-21 WTPA-27 WUCM-19 WEEK-25 WCIU-26 WOET-16 Dayton, OH WIPB-49 Muncie, IN WMBD-31 WGTU-29 WL10-35 WOSU-34 KDUB-40 Dubuque, IA WSNS-44 WUOC-44 WNEO-45 WCET-48 WLKY-32 WBLG-62 WAVE-3 WLWT-5 WSAZ-3 WHTN-13 WRC-4 WTTG-5 WCB2-2 New York, NY
- 8-27 "tropo reaching peak especially in evening." WMAQ-5 WBBM-2 WLS-7 WGN-9 Chicago, IL WLUC-6 WKZO-3 CKSO-5 WLWT-5 WOTV-8 WWTU-9 WWUP-10 WJRT-12 WZZM-13 WRC-4 WTTG-5 DC WBZ-4 CJOH-8 Cornwall, Ont. CJOH-13 CBOFT-9 Ottawa, Ont. WICD-15 WTV0-17 WRAU-19 IL WPTA-21 WKEF-22 WEEK-25 WCIU-26 WFLD-32 WMBD-31 WOSU-34 WPNE-38 Green Bay, WI KDUB-40 WUOC-44 WNEO-45 WCET-48 WDCA-20 WNPI-18 WNPE-16 WLEX-18 WLKY-32 WKYT-27 WRF1-27 Roanoke, VA
- 8-28 "huge opening--all day tropo best 0100-1000" "179 stations logged in 24 hour period." WLDV-2 WBBM-2 WBAY-2 WMT-2(700) CKCO-1-2 WKZO-3 WISC-3 WSAZ-3 WTMJ-4 WHBF-4 WRC-4 DC WLTU-5 WLWT-5 WMAQ-5 CKSO-5 WFRV-5 WITI-6 WLUC-6 WTVN-6 WLS-7 WKWL-7(700) WSAU-7 WI WPBN-7 WGTU-8 KRNT-8(700) WCHS-8 WWTU-9 WGN-9 KCRG-9 Cedar Rapids, IA(700) KMSF-9 MN WWUP-10 WTCN-11 MN WLKJ-11 CKWS-11 WJRT-12 WISN-12 WAE0-12 Rhinelander, WI WEAU-13 WREX-13 WZZM-13 WOED-13 CKNC-9 Sudbury, Ont. "At least one station on every channel except 39,42,51,52,55,58,59,60(2-60)" WMCU-14 WICD-15 WMTU-15 W4PI-18 WNPE-16 NY WTV0-17 WJAN-17 KTCI-17 St.Paul, MN WWTU-18 WFLI-18 WSYE-18 WLEX-18 WHIZ-18 WRAU-19 WICS-20 WUTR-20 WDCA-20 WOU3-20 Athens, OH WHA-21 WKEF-22 WCEE-23 WCNY-24 WEEK-25 IL WCIU-26 WKYT-27 WKOW-27 WGTU-29 KDNL-30 St.Louis, MO WMBD-31 WGSF-31 Newark, OH "rare" WLKY-32 WFLD-32 WITF-33 WMVS-36 Milwaukee, WI WPNE-38 WKMR-38 Morehead, KY W11L-38 Terre Haute, IN KDUB-40 WUHQ-41 WDRB-41 Louisville, KY WVIA-44 WSNS-44 WUOC-44 WNEO-45 WKLE-46 Richmond, KY WTVU-47 Peoria, IL WSVN-47 WCET-48 WIPB-49 WKBG-53 WKYH-57 Hazard KY "Three Michigan translators--one was W74AS-74 White Pine, MI (WAE0-12) "six translators of WNEO-17"
- 8-29 "tropo continuing but down somewhat from 8-28; still in there:" Madison U's WTV0-17 WNPE-38 KDUB-40 Chicago U's WTV0-17 WLKY-32 WKYT-27 WLEX-18 WSVN-47 WDCA-20 WITF-33 WSBA-43 WUOC-44 WNEO-45 WICD-15 WMCU-14 WFLI-18 W11L-38 WHMB-40 WXIX-19 Newport, KY WWTU-9 WWUP-10 WOTV-8 WJRT-12 WFLD-32 WCIU-26 WSNS-44 WLS-7 WKZO-3 WNPI-18 WNPE-18
- 8-30,31 "both days good, but not super; U's to near 500 miles, V's to 400." Pennsylvania translators in. W63##-63 Mansfield, PA (WVIA-44) W65AA-65 Troy, PA W66##-66 Lake Ariel W64##-64 Towanda, PA W80AM-80 Honesdale, PA W79AC-79 Clarks Summit, PA (WBRE-28) WLYH-15 WPHL-17 WDCA-20 WHP-21 WWVU-24 Morgantown, WV WTPA-27 (continued on following page)

Robert Seybold (continued)

WETA-26 WRFT-27 WBRE-28 WNEP-16 WDAU-22 WVIA-44 WITF-33 WBJA-34 WICZ-40 WXTV-41 NJ
 WBSA-43 WLVT-39 Allentown,PA WSKG-46 WKBS-48 WNJU-47 UNID-50 WNJM? WNJB-58 WFFF-45 MD
 9-1,3 WICD-15 Champaign,IL WAND-17 Decatur,IL WLFI-18 WRAU-19 WEEK-25 WMBD-31 Peoria, IL
 WDCA-20 WTAP-15 WMCU-14 WUCM-19 WCIU-26 WICS-20 Springfield,IL
 9-9 WANE-15 WNDU-16 WFIY-20 Indianapolis,IN WPTA-21 WKAR-23 WEYI-25 WSJV-28 WDHO-24 WGTE-30
 WOSU-34 WIL-38 Terre Haute,IN WHMB-40 Indianapolis,IN WHUQ-41 WBGU-57 All Detroit U's
 WRFT-27 WITF-33 WBSA-43 WRTV-6 WISH-8 WLVI-13 WSYE-18 WENY-36 Elmira,NY
 9-15 WBEF-16 WSYE-18 WDAU-22 WSBT-22 WNDU-16 WDHO-24 WEYI-25 WBRE-28 WBJA-34 WENY-36 WICZ-40
 "Three more huge tropo openings hit here (27-28-29). They were really super openings too
 lasting nearly all day on the 28th and 29th. Nearly 200 stations on each day and DX com-
 ing in from all directions." Some details: 9-27 Ft.Wayne/South Bend WMCU-14 WNEP-16 WQEX-16
 WNPE-16 WJAN-17 WSYE-18 WCDC-19 WUCM-19 WUTR-20 WHP-21 WDAU-22 WKAR-23 WDHO-24 WCNY-24 NY
 WEYI-25 WRFT-27 WBRE-28 WGTE-30 WHNB-30 WRLP-32 WITF-33 WBJA-34 WENY-36 WSBK-38 Boston, MA
 WHYN-40 WICZ-40 WUHQ-41 WTA-41 Windsor,VT WBSA-43 WVIA-44 WSKG-46 WNEO-45 WOU-44 WSMW-27
 WMUL-33 Huntington,WV WKBG-56 Cambridge,MA and "several translators"
 9-28 WCCO-4 Minneapolis "first time via tropo" "UHF opened with 100% signals to Wisconsin,
 Ohio, Michigan, Indiana, Pennsylvania, West Virginia, Vermont, and eastern New York,"
 WVER-28 WETK-33 VT CBOT-4 CKWS-11 WPNE-38 Green Bay,WI WGTU-29 WGVC-35 WITF-33 WTPA-27
 WHP-21 WBFH-45 WDCA-20 WETA-26 WHAG-25 W73AH-73 Chambersburg,PA(WITF-33) W72AR-72 Lake-
 wood,PA(WVIA-44) W80AK-80 Springville,NY(WNED-17) W70AB-70 N.Warren,PA W65AA-65 Troy,PA
 W66##-66 Lake Ariel,PA W64##-64 Towanda,PA
 9-29 "big opening again;noted 0700-1400 then evening 1830-2400." WKZO-3 WTMJ-4 WITI-6 WI
 WPBN-7 WOTV-8 WTVT-9 WJRT-12 WISN-12 WZZM-13 WDTV-5 WLWC-4 WTVN-6 WBNS-10 Columbus, OH
 WRC-4 WTTG-5 WMCU-14 WMTV-15 WNDU-16 WNEP-16 WJAN-17 WHIZ-18 WLFI-18 WSYE-18 WUCM-19
 WCDC-19 WUTR-20 WXON-20 WHA-21 WDAU-22 WSBT-22 WKAR-23 WDHO-24 WCNY-25 WDCA-20
 WSJV-28 WBRE-28 WGTE-30 WGTU-29 WKJG-33 WBJA-34 WGVC-35 WENY-36 WPNR-38 WICZ-40 WUHQ-41
 WOU-44 WNEO-45 WSKG-46 WVIA-44 WKBD-50 WTVS-56 and "several translators"
 9-30 "tropo only average in early AM;but peaked greatly in evening to south and west." KY
 WAVE-3 WHAS-11 WOU-44 WNEO-45 WCET-48 WKON-52 Owenton,KY WGSF-31 WTAP-15 WXIX-19"rare"
 WOET-16 WHIZ-18 WLEX-18 WOUB-20 WKEF-22 WKYT-27 WCIU-26 WFLD-32 WSNs-44 WLKY-32 Louis-
 ville,KY WOSU-34 WKMR-38 Morehead,KY WKLE-46 WCVN-54 Covington,KY WBLG-62 +MI IN U's
 10-1 WAVY-10 Portsmouth,VA WDCA-20 WHP-21 WTPA-27 WBSA-43 WBRE-28 WDAU-22 WNEP-16 WQEX-16 PA
 WRFT-27 WNPE-16 WNPI-18 WCNY-24 WOU-44 WNEO-45 10-4 Detroit U's WEYI-25 Totals 620
 "To sum it up, it has been a good tropo season for me. The location in hills, better ant-
 enna set-up and UHF dish have really helped out alot--translators have really come through."

David J. Egan 12a Andrew Valleyfield, Quebec J6S 3B2 (EDT)

9-4 Tr 0528 CKC01-2 Wiarton,Ont. N0350 10-2 Tr 2400 WUTV-29 Buffalo, NY N0290
 10-1 2358 WSYE-18 Elmira, NY N0265 2400 WBJA-34 Binghamton, NY R0245
 10-2 2400 WNEP-16 Scranton, PA R0280 2400 WENY-36 Elmira, NY R0265
 2400 WCDC-19 N.Adams, MA R0180 2400 WICZ-40 Binghamton, NY R0245
 2400 WUTR-20 Utica,NY R0150 2440 WSEE-35 Erie, PA "fair" R0370
 2400 WDAU-22 Scranton,PA R0280 0100 WLYH-15 WHP-21 WBSA-43 WTPA-27
 2400 WHY-22 Springfield,MA new call? 10-12 0120 WICU-12 Erie, PA heavy CCI
 2400 WBRE-28 Wilkes Barre, PA R0280 0120 WSEE-35 Erie, PA R0370

"Not very much activity DX-wise here since early September. There aren't many stations on
 when I get home weekends at 4 in the morning from work. I now have 192 received with 178
 verified. I have found myself frustrated with my present antenna system. After tropo re-
 ceptions reach Erie and Altoona(375-380) DX just simply dies out. Extremely disappointing.
 Haven't had 500 mile tropo since 10-2. I believe as far as antenna goes,it's time for a
 change. There have been ample openingsto 500 miles around here in the past 2 years. May-
 be by spring I'll have a new set-up."

J. Joel Rosenberg 47 Pannahill Road Downsview, Ontario M3N 4N4

7-6 Tr 2200 WNDU-16 WSBT-22 WSJV-28 South Bend,IN(375) WUHQ-41 Battle Creek,MI(315)
 7-7 0215 WTAE-4 Pittsburgh,PA"rare" 0220 WTRF-7 Wheeling,WV 2130 WHMB-40 Indianapolis,IN
 2155 WICD-15 Champaign,IL 2200 WBGU-57 Lima,OH 2230 WDRB-41 Louisville,KY WIL-38 IN
 WNDU-16 WSBT-22 WSJV-28 WANE-15 WUHQ-41 WLKY-32 WDHO-24 WGTE-30 WCIU-26 WICZ-40 NY
 7-8 0315 WICS-20 Springfield,IL 0330 WLWC-4 Columbus,OH 0345 WGN-9 Chicago,IL 0410 WHTN-13
 Huntington,WV 0800 WPHL-17 WTAF-29 Philadelphia,PA 0900 WHY-40 Springfield,MA
 7-9 0110 CKNC-9 Sudbury,Ontario 0830 WDHO-24 Toledo WBGU-57 Lima,OH 2300 WUTR-20 Utica,NY
 7-11 Es2000 UNID-2 to 6 "no ID's" 7-15 1545 Au UNID-2 to 6 "no ID's" 7-15 Es 1200 WESH-2 FL
 1300 CKCT-2 Great Bend,KS 1400 KQTV-2 St.Joseph, MO
 7-30 Tr0030 CKNC-9 CBOFT-9 CKWS-11 WUTR-20 Utica,NY WYTV-33 Youngstown,OH WKBD-50 Detroit,MI
 7-13 0100 WJRT-12 Flint,MI WYTV-33 Youngstown,OH 0110 WTAJ-10 Altoona, PA
 7-27 1850 WNEO-45 Salem,OH 2130 WUHQ-41 WGVC-35 WEYI-25 WKAR-23 WSNs-44 WFLD-32 WNDU-16 IN
 2156 WKOW-27 Madison,WI WMBD-31 Peoria,IL
 7-28 0030 WOU-44 Cambridge,OH 0600 WKTU-2 Utica,NY"rare" 2300 WPSX-3 Clearfield,PA
 8-5 Es1900 WPBT-2 Miami,FL "Since that Aug.27-28 opening, all thru September and half of
 October, openings have not brought any stations beyond those usually seen from 250 to 300
 miles. Oh well, there's always next year. Nice meeting you in Dunkirk, Dave."

CENTRAL TV DX

Don Ruland
4448 68th Place
Kenosha, WI
53140

DECEMBER 1973 / DX from WI, IL, IN, MI, OH / Next deadline: December 15th

The usual late Fall tropo season never really got off the ground this year....with one exception. Cold, polar air moved into the Great Lakes region a bit sooner than normal, and effectively killed any chances for those October long-haul ducts we've come to expect and await each year.... with one exception. But that exception was a beauty, and it occurred October 21 and 22 as we shall see below.....

Gary Olson, 1203 Kenton, Deerfield, IL 60015 (CMT)

10-15 Tr 0725 WOSU-34 Columbus (320)	10-22 Tr 0600 WKBN-27 Youngstown(390)
0730 WGSF-31 Newark,OH(340)	0725 WICZ-40 Binghamton(615)
10-21 Tr 0830 WTVT-53 Annandale,VA tent.	0755 WSKG-46 Binghamton T
2135 WVVU-24 Morgantown Tent.	0802 WVIA-44 Scranton Tent.
2215 WQLN-54 & WSEE-35 Erie	1930 WUVT-29 Buffalo (455)
10-22 Tr 0445 CFTO-9 Toronto (435)	10-23 Tr 0455 CFTO-9 Toronto (435)
0600 CKCO-13 Kitchener (420)	

"Very poor fall DX season despite lovely early Fall weather in Midwest. Still hoping for some late season tropo activity to up the log a bit (sorry, Gar...ed.). Locals and semi-locals seem to be on earlier than ever."

Paul L. Gaines, 15941 Fairfield, Detroit, MI (EDT)

10-7 Tr 1900 WQLN-54 Erie	10-21 Tr 2300 South Bend UHF's
1900 WBGU-57 Bowling Green	10-22 Tr 0006 WKBF-61 Cleveland
1900 WLIO-35 Lima	0007 WUAB-43 Lorain
1900 WANE-15 & WPTA-21 IN	0008 WKJG-33 Fort Wayne
10-8 Tr 0110 WBEN-4 Buffalo	0130 WPTA-21 Fort Wayne
0130 CKCO-13 Kitchener	0100 WEWS-5 Cleveland
10-20 Tr 2349 WKAR-23 E. Lansing	0100 WJW-8 Cleveland
10-21 Tr 2240 WANE-15 Ft. Wayne	0200 WTAE-4 Pittsburgh

Paul is a newcomer to the club and TV DX. His equipment includes two TV receivers with indoor antennae, and one window VHF antenna. We look forward to hearing from you regularly, Paul.

Marvin Shults, R. R. #2, Toulon, IL 61483 (CMT)

10-13 Tr 0900 KODE-12 Joplin (272)	10-21 Tr 2100 WKON-20 Allen Park,MI
10-21 Tr 1900 WWTU-9 Cadillac Tent.	2100 WUHQ-41 Battle Creek
2059 WGTU-29 Traverse City	10-22 Tr 2200 WGVG-35 Grand Rapids
2059 WGVG-35 Grand Rapids	2200 WUHQ-41 Battle Creek
2100 WKBD-50 Detroit	2200 WKON-20 Allen Park

"I'm still operating temporarily with stationary antennae until I have time to put up a JFD TV-190 and a Finco P-7 parabolic dish for UHF. Log:272"

Paul E. Petoaky, Box 140, Munising, MI 49862 (EDT/EST as of 10-28)

10-19 Tr 0015 CHELAT-8 Manitowadge(199)	Tr 2030 WITI-6 Milwaukee
10-20 Tr 0050 CHELAT-8 Manitowadge	2040 WPNE-38 Green Bay
10-21 Tr 0130 WISC-3 Madison (274)	2300 CKSO-5 Sudbury (280)
0200 WSAU-7&WAOW-9 Wausau(170)	2330 WKBD-50 Detroit (328)
0200 Milwaukee VHF's (235)	10-25 Tr 2330 CHELAT-8 Manitowadge
0205 WKBT-8 LaCrosse (290)	10-27 Tr 0225 WNEM-5 Bay City (240)
0210 WLS-7 & WGN-9 Chicago	0230 WISC-3 Madison (274)
0225 WMAQ-5 Chicago (315)	0235 WTMJ-4 Milwaukee (235)
0235 WZZM-13 Grand Rapids	MS 2030 unID 7-13 bursts
1200 WEAU-13 Eau Claire (260)	10-28 Es 2245 unID 2-6 Northwest
1300 KFVS-12 Cape Girardeau	10-29 Es 2230 unID 2-6 Northeast
(650---nice catch,Paul!)	Tr 2300 CKPR-2 Thunder Bay(190)
1405 WGTU-29 Traverse City	10-30 Tr 1925 CHELAT-9 Beardmore,ONT
1925 WSNS-44 & WFLD-32 Chicago	(238.....5 watts power!)
Es 1810 unID 2-6 Southwest	2030 CHELAT-8 Manitowadge
Tr 2000 WMBE-12 Orono,ME (870)	11-6 Es 2215 unID 2-6 Northwest

Paul passes on some info that WLUC-6 will soon be putting in a 100-watt translator for Munising area on channel 55....will transmit from atop WQXO-FM's 190' tower (Paul is General Manager of station WGON-1400 in Munising).

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

9-12 Tr 2300 KDNL-30 St. Louis (410) 10-16 Es 2000 unID 2-4 TX, LA
 9-13 Tr 0815 WKMR-38 Morehead (340) 10-19 Tr 2310 WMUL-33 Huntington(340)
 9-16 Tr 2315 KDNL-30 St. Louis 10-20 Tr 2315 WKOW-19 LaCrosse (380)
 9-17 Tr 2325 WUSI-16 Olney, IL (350) 10-21 Tr 0030 KVFD-21 Ft. Dodge(470)
 9-18 Tr 2340 WKLY-32 Louisville(320) 0130 KROC-10 Rochester
 9-19 Tr 0815 WKYT-27 Lexington (330) 0745 WHNT-19 Huntsville(570)
 0825 WKMR-38 Morehead 0745 WAAV-31 Huntsville
 0825 WSVN-47 Norton (420) 1300 KDNL-30 St. Louis (410)
 9-29 Tr 0915 WBJA-34 Binghamton(420) 1300 WDXR-29 Paducah (450)
 0915 WICZ-40 Binghamton Es 2200 KJAC-4 Port Arthur
 0915 WSYE-18 Elmira (380) 2210 KPDX-3 Wichita Falls
 0915 WENY-36 Elmira 2315 KMID-2 Midland
 9-30 Tr 0030 WBRE-28 Wilkes-Barre 10-22 Tr 0040 WDCA-20 Washington(470)
 1115 WBJA-34 Binghamton 0040 WETA-26 Washington
 1115 WENY-36 Elmira 0045 WBFF-45 Baltimore (460)
 1115 WICZ-40 Binghamton 0050 WMPB-67 Baltimore
 1115 WTAF-29 Phila. (520) 0050 WKPT-19 Kingsport (410)
 10-1 Tr 0005 WUTR-20 Utica (450) 0830 W66AB Mehoopaney, PA(400)
 0040 WDAU-22 Scranton (470) 0830 W63## Mansfield, PA(380)
 0800 WBRE-28 Wilkes-Barre 0859 WNJM-50 Montclair(530)
 0800 WICZ-40 Binghamton 0900 WSEA-43 York
 10-5 Tr 2300 Lexington, Lsvl. U's 0900 WICZ-40 Binghamton
 10-6 Tr 0005 WHNT-19 Huntsville(570) 0900 Scranton UHF's
 0005 WAAV-31 Huntsville 2330 KDNL-30 St. Louis
 0045 WKPT-19 Kingsport(410) 10-23 Tr 0830 WBRE-28 Wilkes-Barre
 2100 WFIE-14 Evansville(380) 2315 WKGB-53 Bowling Green
 10-7 Tr 0030 Lexington, Lsvl. U's 2315 WKMR-38 Morehead
 2130 KMEG-14 Sioux City T 10-27 Tr 0850 Lexington U's
 2130 KDSB-16 Aberdeen Tent. 0850 WKLY-32 Louisville
 10-8 Tr 0830 WBRE-28 Wilkes-Barre 0850 WKPT-19 Kingsport
 10-15 Es 2000 unID 2-4 TX, LA 1150 WRFT-27 Roanoke
 "CMA-Ub in place on 9-10....UHF"to 300 miles very regular when CX are up...
 stations such as WICS-20, WKON-52, WUTV-29 so common not listed in report".
 On a personal note, a special congratulations goes out to Rog on the
 birth of a son on October 5th!

William Draeb, Ellis St., R. R. #2, Kewaunee, WI 54216 (CDT)

10-17 Tr 0623 WDCN-8 Nashville Tent. 10-21 Tr 1008 WBRE-28 Wilkes-Barre(630)
 MS 0625 unID ch 8 to South 1008 Youngstown UHF's
 10-20 Tr 0753 WKYT-27 Lexington 1008 WDAU-22 Scranton (630)
 0753 WKCF-22 Dayton (368) 1008 Erie UHF's
 1852 KDNL-30 St.Louis(432) 1008 WUTV-29 Buffalo (445)
 1852 WKLY-32 Louisville 1252 WRIP-61 Chattanooga(671)
 1852 WKLE-46 Lexington 1311 WMUB-14 Oxford
 1852 WOET-16 Dayton 1311 Dayton U's
 2126 KVFD-21 Ft.Dodge(365) 1338 WCET-48 Cincinnati
 2126 KCBJ-17 Columbia(450) 1622 WSVN-47 Norton (610)
 2126 KMEG-14 Sioux City(463) 1624 WBGU-57 Bowling Green
 2136 K32AA Waterloo 1629 WXIX-19 Cincinnati
 2136 KIIN-12 Iowa City 1635 WVVU-24 Morgantown(513)
 2212 KEMA-41 Kansas City(525) 1655 WTIU-30 Bloomington
 10-21 Tr 0735 WAAV-31 Huntsville(685) 1746 WKON-52 Owenton
 0735 Lexington, Lsvl. U's 1746 WIPB-49 Muncie
 0735 WHNT-25 Evansville T 1746 WCVN-54 Covington (405)
 0735 WDXR-29 Paducah (522) 1822 WOUC-44 Cambridge
 0735 WHNT-19 Huntsville 1822 WOSU-34 Columbus
 0752 Cleveland UHF's 1822 WMUL-33 Huntington (498)
 0756 WMSL-48 Decatur (685) 1822 WOUB-20 Athens (453)
 0756 WIIL-38 Terre Haute 1822 WHIZ-18 Zanesville
 0805 WHMB-40 Indianapolis 1841 Binghamton UHF's (600)
 0815 WYEA-38 Columbus, GA T 1841 Akron/Canton U's
 0824 WEMG-42 Birmingham(768) 1903 WKSO-29 Somerset (538)
 0850 KDNL-30 St. Louis 1903 WGSF-31 Newark, OH (395)
 0850 KCBJ-17 Columbia 1903 WKRC-12 Cincinnati
 0901 WAND-17 Decatur, IL 2006 WFIQ-36 Florence, AL T
 0901 WICS-20 Springfield 2042 WNED-17 Buffalo (445)
 1001 WTVK-26 Knoxville (626) 2046 WKBS-48 Philadelphia(705)

Draeb (continued)

10-21 Tr	2046 WSEA-43 York Tent.	10-22 Tr	0800 WOUC-44 Cambridge, OH
	2101 WENY-36 Elmira (575)		0800 WGSF-31 Newark, OH
	2109 WKMR-38 Morehead		0800 WOSU-34 Columbus
10-22 Tr	0455 WBRE-28 Wilkes-Barre		1827 Dayton, Erie U's
	0455 WTAJ-10 Altoona		1827 WUTV-29 Buffalo
	0455 CPTO-9 Toronto (410)		1827 WHMB-40 Indianapolis
	0455 CHCH-11 Hamilton (394)		1827 WCVN-54 Covington
	0455 WBNG-12 Binghamton (600)		1827 WNED-17 Buffalo
	0503 WKBW-7 Buffalo (445)		2008 WHPB-16 Watertown T
	0503 WBNS-10 Columbus (395)		2021 WUTR-20 Utica Tent.
	0515 WCHS-8 Charleston		2021 WXXI-21 Rochester
	0515 WJW-8 Cleveland	10-23 Tr	1944 Youngstown, Cleveland U's
	0520 Youngstown UHF's		1944 WAKR-23 Akron
	0527 WXIX-19 Cincinnati		2010 WIPB-49 Muncie
	0538 WHIZ-18 Zanesville		2010 WKYT-27 Lexington
	0538 Lexington U's		
	0555 WVIZ-25 Cleveland		

Log now stands at 548.

Rod Luoma, 38540 Five Mile Rd., Livonia, MI 48154 (EDT)

10-9 Tr	0100 WBEN-4 Buffalo (215)	10-22 Tr	0020 WMBD-31 Peoria (335)
10-10 Tr	0550 CKCO-1-2 Wiarion (200)		0020 WBEN-4 Buffalo
	0600 WTVN-6 Columbus (165)	Es	0020 KOAA-5 Pueblo (1140)
	2200 CKCO-13 Kitchener (170)	Tr	0020 WLWT-5 Cincinnati (225)
	2350 CHCH-11 Hamilton (190)		0020 KRCG-13 Jeff. City (520)
	2350 WUTV-29 Buffalo		0020 CKSO-58 CKNC-9 Sudbury (310)
10-11 Tr	0950 WNEO-45 Alliance (150)		0155 CPTO-9 Toronto (220)
	1100 WFLD-32 Chicago (220)		0205 KPLR-11 St. Louis (435)
	1600 WUTV-29 Buffalo		0205 WTAE-4 Pittsburgh (220)
10-22 Tr	0020 WFLD-32 & WSNS-44 Chicago	Es	0215 KOA-4 Denver (1120)
	0020 WICS-20 Springfield (370)	Tr	0220 WGN-9 Chicago
	0020 WKYT-27 Lexington (310)	Es	0225 KTVS-3 Sterling Tent.
	0020 WSBE-35 & WJET-24 Erie	Tr	0245 WLS-7 Chicago
	0020 WLWI-13 Indianapolis		1000 KPVS-12 G. Girardeau (475)
	0020 WWUP-10 S. Ste. Marie (280)		1300 WUTV-29 Buffalo
	0020 WDCA-20 Washington (410)		1300 CHCH-11 Hamilton
	0020 WBFF-45 Baltimore (410)		1300 CKCO-13 Kitchener
	0020 WIIC-11 Pittsburgh (220)	10-24 Tr	1000 WNED-17 Buffalo
	0020 KIIN-12 Iowa City (410)		1000 WUTV-29 Buffalo

(ed. note: see Roger Brown's report on preceding page and the correlation of his E-skip late evening of 10-21 and Rod Luoma's loggings early a.m. of 10-22).

Don Ruland, 4448 68th Place, Kenosha, WI 53140 (CDT)

10-21 Tr	0523 WIIC-11 Pittsburgh (430)	10-22 Tr	0530 WSLS-10 Roanoke (560)
	0529 WHTN-13 Huntington (420)		0535 WLEX-18 Lexington (360)
	0543 WAKR-23 Akron (340)		0540 WHIZ-18 Zanesville (360)
	0545 Youngstown U's (380)		0557 CHCH-11 Hamilton (420)
	0550 Lexington U's (360)		0630 KPVS-12 Cape Girardeau
	0557 WTRF-7 Wheeling (420)		0635 WOSU-34 Columbus (320)
	0558 KPVS-12 G. Girardeau (370)		0645 WBRE-28 Wilkes-Barre (630)
	0600 WTAJ-10 Altoona (510)		0700 WICZ-40 Binghamton (620)
	0605 WBIR-10 Knoxville (510)		0730 WPBO-42 Portsmouth (370)
	0627 WCHS-8 Charleston (430)		1230 WQLN-54 Erie (400)
	0642 WBRE-28 W.-Barre (620)		1625 WAKR-23 Akron (340)
	0716 WJAN-17 Canton (360)		1930 WUTV-29 Buffalo (460)
	0725 WTAP-15 Parkersburg (400)		2100 WKBS-48 Philadelphia (670)
	0800 WDCA-20 Washington (630)		2000 WNEO-45 Alliance Tent.
	0720 WBOC-16 Salisbury, MD T	10-23 Tr	0444 WBRE-28 Wilkes-Barre
	0800 WBFF-45 Baltimore Tent.		0456 CPTO-9 Toronto (430)
	0800 WNVY-53 Annandale, VA T		0518 WKBW-7 Buffalo (460)
	1930 WQLN-54 Erie (400)		0553 WPMJ-21 Youngstown
10-22 Tr	0458 CPTO-9 Toronto (430)		0600 CHCH-11 Hamilton (420)
	0500 WDEJ-7 Roanoke (560)		0515 WTAJ-10 Altoona Tent.
	0504 WTAJ-10 Altoona (510)		2045 Youngstown U's
	0520 WHTN-13 Huntington	10-26 Tr	0630 WLKY-32 Louisville (330)
	0522 WCHS-8 Charleston	10-27 Tr	0630 WYTV-33 Youngstown (380)
	0525 Youngstown UHF's		Log total: 330

WESTERN TV DX

Dennis Smith
 Chico Christian School
 2801 Notre Dame Blvd.
 Chico, California 95926
 Deadlines: 10th of each month

December 1973

Some good tropo was seen in October: in south Texas around 17-19, and in Oklahoma 20-24, with UHF up to 800-plus miles, with other fair tropo on other dates, including a very good date on 2 November in San Antonio. Lots of meteor scatter DX was observed by some reporters. Sporadic-E was quite active on occasion in October, with good MUF's at times.

Es	October	3	10	14	15	16	21	22	24	31
Number of reporters		3	1	2	3	4	5	2	2	2
MUF at least(ch/freq)		6	3	5	6	PM 88.7	88.7	94.5	2	4

Pat Dyer, 5315 Silvertr Drive, San Antonio, Texas 78228 (30Oct-3Nov) (CST)

Receiver: 1971 model 9-inch Penncrest black-and-white	
Antennas: Archer V-100 and 8-bay UHF bow-tie at 20 feet	
3	Es 1050-1440 2-6 (log (18 (tr)0855) KLNI-15 LAT395 (23)(tr)2358 KRBC-9 TX 220 in prev. report) 1050 KDTV 30 TX 250 2350 KTXS-12 TXt230
4	tr 0000 XHX -10 N.t.270 KXTX-33 TXt240 24 tr 0003 XET -6 NLT275
5	MS 1422: KUSD-2 SD 920 2055 KTVT 11 TX 240 XEFB-3 NLT275 05 (SDPTV logo) 2230 WFAA-8 TX 250 1840-1945 2,3 (new)
6	tr 1820 WFAA-8 TX 250 10 tr 0017 WBAP-5 TX 240 26 tr 2215 KPLC-7 LA 325 1000 KCBD-11 TXt340 0020 KDFW 4 TX 250 28 tr 0820 KLBK-13 TX 340 KLBK-13 TXt340 XET -6 NLT275 KCBD-11 TXt340
7	tr 2020 KERA-13 TXt250 0843 KLBK-13 TX 340 KSEL-28 TXt340 8 tr 0750 KMID-2 TX 275 KSEL-28 TX 340 0050 KVRL 26 TX 100 KSEL-28 TX 340 2120 KOSA-7 TX 280 30 tr 0100 KRGV-5 TX 225 KLBK-13 TX 340 tr 0734 KSEL-28 TXt340 31 Es 0935 WLW-D 2 OH 1075 unIds 2,3
8	0820 KCBD-11 TX 340 KCBK-11 TXt340 1055 unIds 2 0830 KVRL 26 TX 100 KLBK-13 TXt340 1210-1335 2-4 unIds KHTV 39 TX 100 KSEL-28 TX 340 1220 WGBD-2 SC 1120 1110 KERA-13 TX 250 KCBK-11 TX 340 2005-2020 2,3 unIds KTVT 11 TX 240 KLBK-13 TXt340 1 MS 1130 KUSD-2 SD 920 1115 KXTX-33 TX 240 Es 2050-0000 2-6 unIds (SDPTV logo) KDTV 39 TXt250 2230: MUF 88.7 tr 2135 KVRL 26 TX 100
9	1128 KOSA-7 TX 280 2301 CKC01-2 Ont 1210 tr 2137 WAFB-9 LA 450 14 Es 1445-1515 2,3 Cuba? 2327 WSB -2 GA 880 2205 WAPT 16 MS 525 1535-45 unIds 2 (U3) 2335 WTMJ-4 WI 1100 2208 WGN0-26 LAT515 1615-2130 2-5 Span. (Local off 2230) 2222 WRBT 33 LA 450 1700 YSU -4 EIS. t1200 (Wide extent of opening now being concealed as so many 1850 TGV -3 Gnet 1120 stns to east had s/off already) 2230 KLBK-15 LAT395 2010 WPBT 2 FLt1150 2259 WMAW 14 MS 610 WTVJ 4 FLt1150 22 Es 0030 WTAE-4 PA 1280 WMAU 17 MS 470 2115 YSR -2 EIS. 1200 0048 KTVI-2 MO 700 WMAH 19 MS 570 (rather late opening still in that area) 0100 unIds 2-6 WMAA 20 MS 525 2140 apx f/out 0100-20: MUF to 94.5 (//14, 17, 19, 29)
16	Es 1100-1230 2,3 unIds 0123 WBBM-2 IL 1045 2310 KXTX-33 TX 230 1104 KTCa-2 MN 1110 0125 KMOX-4 MO 700 WHTV 24 TXt610 1150 KUSD-2 SD 920 0155 WBAY-2 MO 700 2 tr 0028 WFAA-8 TX 250 1845-2230 2-6 unIds 0215: (TV all out now but maybe only because all have 2100 KDIX-2 ND 1225 s/off in area of opening) tr 0031 KSEL-28 TXt340 2030 KUSD-2 SD 920 0050 KLBK-13 TX 340 0057 KLFY-10 LA 395 2135 KID -3 ID 1215 1020 KCBK-11 TX 340 0050 WTVV -9 MS 665 2220 KTM0-2 WY 1015 1020 KCBK-11 TX 340 0202 WERC-5 AL 750 (new by tropo: 565 by Es)
17	tr 2055 KXTX-33 TX 240 Es 1025-1045 2-4 unIds 0820 WTIQ 41 ALt670 KDTV 39 TX 250 1020 KUSD-2 SD 920 WBMG 42 ALt750 KNCT 46 TX 135 tr 0730 KMID-2 TX 275 0825 WGIQ 43 ALt790 2057 KERA-13 TX 250 2050 KOSA-7 TX 280 0830 WETV 30 GAt880 2101 WFAA-8 TX 250 2125 KCBK-11 TX 340 WAAV-31 ALt785 2245 KTVT 11 TX 240 KSEL-28 TX 340 WFAB-32 At+755 18 tr 0003 KVRL 26 TX 100 KLBK-13 TX 340 WCFT 33 ALt700 0040 KATV 7 AR 515 2312 WFAA-8 TX 250 WMAW 14 MS 610 0855 WBR T 33 LA t450 2315 KMOM-9 TX 295 0845 WMAH 10 MS 575 WMAA-40 AL 805

(2)(tr) 0848 WAPT 16 MS 525 (2)(tr)x1600 XET - 6 NL 275 (2)(tr)(1920) WRBT 33 LA 450
 0855 WYEA 38 GA 830 1740 KLNI-15 Lat305 1930 WAFB- 9 IAt450
 1010 WJSP-28 GAt850 1810 KHTV 39 TX 100 2020 WBRZ 2 LA450
 1600 XHX -10 NLt275 1815 KVRL 26 TX 100 2130 WGNO-26 Lat515
 XEFB- 3 NL 275 1920 KLFV-10 LA 305 2200 WMAU 17 MS 470

A very interesting report period this time.

A higher than normal amount of Es openings for October. The fantastic Es of Oct 21-22 running to hours seldom found here. Luckily this was a Sunday night when our local Ch 4 went off at 2330 CST (instead of an hour later the next week due to time change). However, one can only guess when the Es MUF left the TV that early morning as not much on to east at 0200 CST.

And then the trop of Nov 1-2. The best here since the last May ducting. Ducts very selective as semi-local Austin signals not above normal levels, and Houston U's sometimes f/out when 500-600 miles in. Morning of Nov 2 had so many in on UHF could only guess at most of them. VHF piled so deep left it alone. Hoped for condx return Nov 2-3 but didn't make it as well (and with a cold front soon to be through here may have to wait a long time for similar things). 73. WA5YXX.

Glenn Hauser, 620 N. Husband, Stillwater, Oklahoma 74074 (5Sept-1Nov)(CST)

September was rather dry DXwise, but October had some good days both for Es and tropo, providing reception of a number of Illinois/Wisconsin stations I had never received before at any of my locations.

21	tr	0726	KWSN- 8	RoswellNM(TXnx)	410	(21)	(Es)	2135	CKG01-2	Warton Ont(nx)	1015	
		0728	KFDA-10	Amarillo TX	275			2137	4WJ - 4	Detroit MI	855	
		0729	KVII - 7	Amarillo TX	275			2211	WBTV 3	Charlotte NC?T		
		0735	KSEL-28	Lubbock TX	325			2233	WPMY- 2	GreensboroNC?T		
		0800	KYBK-13	Lubbock TX	325			2258	WSAZ- 3	HuntingtonWV(s/off)	825	
22	tr	2218	WHBQ 13	Memphis TN	410			2301	WRC - 4	Washington DC	1100	
		2225	KTHV 11	Little Rock AR	265			2302	WAVE- 3	Louisville KY	625	
		2228	KNOE 8	Monroe LA ? T				2330	WTVJ 4	Miami FL	1210	
		2245	WABG- 6	Greenwood MS	405				(SS FSA; SS Cuban discuss)			
		2250	WLAC- 5	Nashville TN ? T				2338	WJXP 4	JacksonvilleFL	970	
0 3	tr	0050	KTXS-12	Sweetwater TX	315			2345	unId 2-3			
4	tr	2300	KYTV 3	Springfield MO	225	22	Es	0012	WBAY- 2	GreenBay WI? T		
			KMTC 27	Springfield MO	220			0018	CKSO- 3	Timmins Ont	1175	
		2302	KGTO 36	Payetteville AR	165				(Id as Cambrian BcSyst: s/off)			
		2304	KDNL-30	St Louis MO ? T				0026	unId 4	(multiburst)		
12	tr	2100	KTMU 11	TopekaKS (s/off)	215			0031	CBWPT'3	Winnipeg Man	740	
			WTBW 13	Topeka KS	205			tr	0035	KYTV 3	Springfield MO	220
			KTSB 27	Topeka KS	215				(Id as "KY3" atmovies: s/off)			
		2105	KCPT-10	Kansas City MO	245			Es	0051	unId 2	(0117western, toC133)	
			KBMA 41	Kansas City MO	245	23	tr	2110	KSLA-12	ShreveportLA(nx)	295	
		2107	WOI - 5	Ames IA	T			2113	KMTC 27	Springfield MO	220	
		2311	KWWL- 7	Waterloo IA	510				(wx: VAFI5555: 2334s/off)			
15	Es	2102	WGR - 2	Buffalo NY (nx)	1065				WMAO 23	Greenwood MS	405	
			WSYR- 3	Syracuse NY (nx)	1105				(2114nets s/off: 537/107kW)			
			WBEN- 4	Buffalo NY ? T				2125	KTHV 11	Little Rock AR	265	
			WJBK- 2	Detroit MI ? T				2126	KTSB 27	Topeka KS	215	
16	Es	1830	unId 2,3	(Canada)				2140	KBMA 41	KansasCityMO(auct.)	245	
		1901	WTAE- 4	PittsburghPA? T					KCPT-10	Kansas City MO	1145	
		1941	WPTV 5	PalmBeachFL ?!	1180			2150	KCBJ-17	Columbia MO	305	
		1945	WCIX 6	S.Miami FL	1215			2232	KATV 7	Little Rock AR	290	
				(Miami FM in)		24	tr	0650	KOTR-10	Springfield MO	220	
21	Es	1941	KYW - 3	PhiladelphiaPA	1205				KRGG 13	JeffersonCityMO	325	
		1942	WDTV 5	Weston WV ? T					KCRG 0	CedarRapidsIA?T		
			WOAY 4	Oak Hill WV ? T				0703	WMTV 15	Madison WI	630	
			WJBK- 2	Detroit MI	855				WTVO 17	Rockford IL	605	
		1949	WEWS 5	Cleveland OH ? T				0705	K700L70	Ft Dodge IA ? T		
		1958	WTAE- 4	PittsburghPA ? T				0714	WEEK-25	Peoria IL	515	
		1950	WPSX- 3	Clearfield PA	1050			0717	WRAT-10	Peoria IL	515	
				(FBS, PaETV logo; 2148CB! this?)				0718	WHA -21	Madison WI	630	
		2100	WJMN 3	Escanaba MI(nx)	865			0710	WCEB-23	Freeport IL	600	
		2124	WKYC- 3	Cleveland OH(nx)	800				WMBD-31	Peoria IL	515	
			CKVR- 3	Barrie Ont(nx)	1015			0721	WXOW-10	Lacrosse WI ? T		
		2126	WBEN- 4	Buffalo NY(nx)	1065			0745	WKOW-27	Madison WI	630	
		2127	KDKA- 2	PittsburghPA(nx)	960			0751	KDNL-30	StLouisMO(s/on)	405	

(24)(tr)0755	WTVF 47	Peoria IL (-50 s/on)	515	(24)(tr)0016	KTVV 36	Austin TX	405
0809	WAND 17	Decatur IL	510	1013	KTCI 17	St Paul MN ?	
0813	KOMU 8	Columbia MO	320			(3/4 CB; o/CCI(WAND?))	
0815	KVUE 24	Austin TX	405			Until the next, 73 de Glenn.	

Glen R. Neal, 1005 N. 5th, Sayre, Oklahoma 73662 (October) (GDT)

October was a fairly good month here, probably better than my report indicates. A fair amount of tropo and a couple sessions of E-skip were seen. Nothing fantastic though. (12)(tr)2004 KQTV 2 StJosphMO 2050N400

1	tr 1028	KPDW-12	Clovis NM	5554R215	14	Es 1800	SS south, weak, f/out	1804.
	1030	KMID-2	Midland TX	4553"265	16	Es 1057	2-3-4, ne. f/out	2032.
	1032	KBIM-10	Roswell NM	4554	280	18	tr 2202	KVRL 26 HoustonTX 3545 460
3	tr 0630	KØ6DP 6	Pampa TX	4553	70			KHTV 30 HoustonTX 3543 460
	0645	KNCT 46	Belton TX	4545	320	2205		KVUE 24 Austin TX 2045 360
	0650	KTVV 36	Austin TX	4545	360			KTVV 36 Austin TX 2045 360
	0712	KBIM-10	Roswell NM	5514	280	21	Es 2050	thru ch 6!
	0735	K64AC 44	Perry-	4545	05		2100	WJAC- 6 JohnstnPA 5533 1125
		K68AB 66	ton	4545	05		2200	CKSO- 5 SudburyOnt 5533 1240
		K68AD 48	TX	4545	05			(Cambrian Bdcstg Co.)
		(KFDA10, KONG-4, KVII7 resp.)					2330	Es slipping somewhat, t/out.
	0800	WFAA- 8	Dallas TX	5041	235	22	tr	Probably a fantastic morning.
		(equal w/KFDO-8 Sayre OK)					1056	KFPW-40 FtSmithAR 3535 300
		1013	chs. 58, 60, 62	nmw.	3545	?	1057	WMAV 18 Oxford MS 3435 585
		1026	KSMS- 8	Roswell NM	5041	280	1102	KVUE 24 Austin TX 2035 360
		(equal w/KFDO-8 Sayre OK)					2248	WRBT 33 BatnRgeLA 3243 600
	Es 1230	east. 2 & 3	until 1337.			23	tr 1018	KFPW 40 FtSmithAR 4545 300
12	tr 1055	KTSB 27	Topeka KS	5545	340	24	tr 0640	KOSA- 7 Odessa TX 5544 285
	1056	KBMA-41	KansCityMO	3445	385			KMID- 2 MidlandTX 5544 265
		KCPT-19	KansCityMO	3545	385		0644	KODE-12 Joplin MO 3443 310
	2002	WIBW-13	Topeka KS	4543	340		0652	KBIM-10 RoswellNM 5544 280
		KTWU 11	Topeka KS	4543	340		Es 2030	ch2, east, weak, gone 2040.

Total now 416. DX will probably slow down in November. 73.

Richard Allen, Billings, Oklahoma 74630 (1-30 Oct) (CST)

Receiver: Sony model KVI212 Trinitron. (New stations, and
Antennas: Winegard 11-element VHF log & new mode of propagation)
Archer 44-element UHF log, at apx. 30 ft., w/7ChMaster rotor.

8	MS0441	WCBD- 2	Charleston SC	1030	(20)	tr 0845	K7OAZ 70	AlvaOK(KOCC-5)N 75	
	0445	WLW-D 2	Dayton OH	800		0900	K7LBF 74	Higgins-CanadianTX (KVII 7) N 150	
11	tr 0510	KPRC- 2	Houston TX	400			0945	K3LAA 34	Salina KS N 165
12	MS0405	WJBK- 2	Detroit MI	875			0955	K18AA 18	Salina KS N 165
13	tr 0525	WFAA- 8	Dallas TX	N 260					(KAKE 10, KCKT 2, resp.)
15	Es (MUF channel 3)								
	2004	WGR - 2	Buffalo NY	1080			1030	KAYS 7	Hays KS 200
	2100	WSYR- 3	Syracuse NY	N1210	21	Es (MUF channel 3)			
	2130	WKTV 2	Utica NY	N1255			1950	KQTV 2	Billings MT 860
16	MS0405	WJBK- 2	Detroit MI	875			2100	WBAY- 2	Green Bay WI 720
	0408	WLW-D 2	Dayton OH	800			2130	KDKA- 2	Pittsburgh PA 980
	Es (MUF channel 4)						2135	WGR - 2	Buffalo NY 1080
	2030	KREM- 2	Spokane WA	N1270			2140	CKC01-2	Wairton Ont N1020
	2100	KLEW- 3	Lewiston ID	N1215	23	MS0429	WBAY- 2	Green Bay WI 720	
	2130	KORK- 3	Las Vegas NV	980		tr 2025	KOLR 10	SpringfieldMO N245	
17	tr 0610	K77HL 77	AlvaOK(WKY-4)	N 75			2045	KYTV 3	SpringfieldMO 245
18	tr 2040	KVUE 24	Austin TX	N 420			2100	KMTC 27	SpringfieldMO 245
	2105	KTVV 36	Austin TX	N 420			2105	KGTO-36	FayettevilleAR 195
	2135	KDTV 30	Dallas TX	260			2115	KCBJ-17	Columbia MO N 245
	2140	KXTX 33	Dallas TX	260			2131	KCFT 19	Kansas CityMO N 250
	2145	KTCB- 7	Austin TX	N 420			2210	KBMA-41	Kansas CityMO 250
	2155	KTVT II	Ft Worth TX	255	24	tr 0600	KTVV 36	Austin TX 250	
	2230	WFAA- 8	Dallas TX	260			0605	KVRL 26	Houston TX N 490
20	tr 0810	K75EM 75	Mooreland OK	N 95			0610	KSEL-28	Lubbock TX N 330
	0820	K73RT 73	Mooreland OK	N 95	25	MS0438	WCBD- 2	Charleston SC 1030	
	0825	K71BJ 71	Mooreland OK	N 95			0450	WJXT 4	JacksonvilleFL N1000
		(KWTVO, KOCC-5, WKY-4 resp.)			29	MS0506	WLW-D 2	Dayton OH 800	
	0830	K72CB 72	Higgins-CanadianTX (KFDA 10)	N 150			0507	WESH- 2	DaytonaBeachFL 1075
							0524	WBAY- 2	Green Bay WI 720

(Richard Allen, continued)

Totals to date: 118 stations (including 24 UHF & 10 translators) from 30 states, 4 provinces & 4 estados. October was an outstanding DX month here, with 24 new stations logged via tr, MS and Es. Three good evenings of E-skip opened on the 15th, 16th & 21st. New Sony color receiver has replaced my old Philco-Ford B&W set. Also, a Channel Master rotator was added, resulting in many new loggings. Good DX & 73s.

Bob Cooper, Jr., Rt 5, Box 782, Guthrie, Oklahoma 73044 (24 Sep- (CDT) (Report continued from last time) (Tune-in times are underlined)

The new location is ne. of OK City & 15 air ml from WKY-4, KOCO-5, KWTVO KETA 13--it sure is a lot better than being 1-2 mi from those powerhouses!

(24) tr 2115	WAPT 16 MS	(20)(MS) 0538	WCIV 4 SC	(10)(MS)(0508)	WBMM- 2 IL
	WRBT 33 LA	2035	KDNL-30 MO	0500	WMAR- 2 MO
	KLNI-15 LA		KCBJ-17 MO	0526	WLW-D 2 OH
25 tr 0526	KLFY-10 LA	2222	KHNE-20 NE	tr 0540	KNOE- 8 LA
	0527 WWL - 4 LA	30 MS 0535	WCIV 4 SC	MS 0546	WCIV 4 SC
	(575 mi)	tr 0550	WOW - 6 NE		0553 CHNB- 4 SC
	0536 WJTV 12 MS	MS 0620	KSTP- 5 MN		0553 WGBD- 2 SC
	0547 KFVS-12 MO	tr 0631	WMC - 5 TN		0554 WTMJ- 4 WI
MS 0557	WCKT 7 FL	0632	KHAS- 5 NE	tr 0606	WOW - 6 NE
	(1223 mi)	2200	KCBJ-17 MO	MS 0621	WLUC- 6 MI
tr 0600	KMOX- 4 MO		KHNE-20 NE		0630 KTVG 6 KS
0602	KNOE- 8 LA	31 tr 2030	KHNE-20 NE		0638 KGIN-11 NE
0630	WAFB- 9 LA	Oct 1 tr 1045	KHNE-20 NE		0644 KMNE- 7 NE
0641	WTWV 9 MS		KDNL-30 MO		0650 KHNE-20 NE
0650	KRCG 13 MO	2 MS 0554	WTVN- 6 OH	(MS was relatively upon	
0658	KVUE 24 TX	0555	WRGB 6 NY	10w-lowband this AM)	
0702	WRBT-33 LA		(1334 mi)	tr 1610	KHNE-29 NE
	WAPT 16 MS	0910	KDNL-30 MO		WAPT 16 MS
	KCBJ-17 MO	1030	KCBJ-17 MO	2038	KXNE-10 NE
	WHBQ-13 TN		KDNL-30 MO	2040	KMEG 14 IA
	KTVV 36 TX		KHNE-29 NE	2054	KVNE-26 NE
0758	KPOB-15 MO	2055	WAPT 16 MS	2056	KVPD-21 IA
0825	KVRL 28 TX	3 tr 0501	KHTL- 4 NE	2115	WAPT-16 MS
2055	WKOW-27 WI	MS 0535	WITI- 6 WI		WMAA 20 MS
2230	KCBJ-17 MO	0603	KDAL- 3 MN	2110	KCBJ-17 MO
	KRCG-13 MO	tr 0640	KMOS- 6 MO	2145	KETV 7 NE
26 tr 0628	KHQA- 7 MO	MS 0651	WLUC- 6 MI	2220	KVRL 26 TX
0654	WAND-17 IL	4 tr 0610	WMT - 2 IA		KHTV 30 TX
0724	WIGS 20 IL		WOW - 6 NE	11 MS 0440	WMAR- 2 MO
	WICD 15 IL		1830 KHNE-20 NE	tr 0440	KMOX- 4 MO
	WLPT-18 IN	5 MS 0544	WCIV 4 SC	MS 0508	WJBK- 2 MI
	(660 mi)	0558	KMOX- 4 MO	0511	WBMM- 2 IL
0925	WEEK-25 IL	0605	WOW - 6 NE		WSYR- 3 NY
	WCIV 26 IL	6 MS 0520	WBEN- 4 NY	0520	WLW-D 2 OH
	KDNL-30 MO	0544	WCIV 4 SC	0528	WECT 6 NC
	WMBD-31 IL	7 MS 0504	WJXT 4 FL	0533	WCIV 4 SC
	WKOW-27 WI	0511	WJIM- 6 MI	(MS was relatively	
	WFLD 32 IL	0514	WTVN- 6 OH	down this AM)	
	WSNS 44 IL	0517	WECT 6 NC	tr 0615	WOW - 6 NE
	WTVD-17 IN	0537	WKRQ- 5 AL	2230	WAPT-16 MS
	WNDU 16 IN	tr 0603	WOW - 6 NE		KHNE-29 NE
	WRAU-19 IL	2100	WAPT 16 MS		KDNL-30 MO
	WKJV-33 IN		KHNE-20 NE	12 (No early AM observa-	
	WSJV 28 IN		KMEG 14 IA	tions: PM normal)	
	WKBD-50 MO	8 tr 2121	WAPT 16 MS	13 MS 0524	WLW-D 2 OH
	1051 KDUB-40 IA	2112	KHNE-20 NE	0544	WESH- 2 PL
27 MS 0507	WRC - 4 DC		KDNL-30 MO	0556	WBTV 3 NC
	0510 WECT 6 NC	9 MS 0643	WCCO- 4 MN	0600	30 KUTV 2 UT
	0524 WPMI- 6	tr 2025	WAPT 16 MS	(MS was relatively	
	0531 WCTV 4 SC		KHNE-20 NE	way down this AM)	
(MS) 0552	WJCT 7 FL	10 MS 0444	WLW-T 5 OH	15 tr 0650	K72DU(KTXS-12)
	(982 mi)	(MS) 0453	WITN- 7 DC		Brownwood TX(305ml)
29 MS 0500	WSM - 4 TN		(1164 mi)		0703 K76??(KPDO-8)
0521	WPVI 6	0508	WJBK- 2 MI		0705 KTVV 36 TX

(15) (tr) 0705 KHNE-20 NE
 KVUE 24 TX
 KTRK-13 TX
 0724 KVRL-26 TX
 KHOU-11 TX
 0730 K65?? (KPDO-8)
 K67?? (KGNC-4)
 K69?? (KVII-7)
 K71?? (KGNC-4)
 K73?? (KPDO-8)
 K75?? (KVII-7)

(21) (tr) 0103 KTVS 3 CO
 0118 KSTP 10 NE
 MS 0126 WLW-D 2 OH
 tr 0130 KMOX- 4 MO
 KDUH- 4 NE
 0138 KETV 7 NE
 0148 WQAD- 8 IL
 MS 0515 WRC - 4 DC
 tr 0535 KSD - 5 MO
 0538 WRTV 6
 0554 KDNL-30 MO T
 (tent, test, no Id)

(2)(MS) 0538 WCBJ- 2 SC
 tr 2220 KCBJ-17 MO
 KDNL-30 MO
 3 MS 0447 WSB - 2 GA
 0448 KMOX- 4 MO
 0455 WJBK- 2 MI
 0513 WSYR- 3 NY
 0514 WMAR- 2 MD
 0510 WLW-D 2 OH
 0522 WTVN- 6 OH
 0543 WCBD- 2 SC
 tr 0540 KPV3-12 MO
 MS 0540 WCIV 4 SC
 055630 WCSG- 5 SC
 tr 0558 KSD - 5 MO
 0607 KTVI 2 MO
 0634 KGIN 11 NE
 0640 KHNE-20 NE
 0643 KTVV 36 TX
 0652 KRCG 13 MO
 0853 KDNL-30 MO

(None of these on my lists.
 Dozens of others same area
 no other new loggings)

0850 KAPT-16 MS
 1530 KDNL-30 MO
 1604 KCBJ-17 MO
 1820 KRCG 13 MO
 1845 WDXR-20 KY
 1840 WAPT-16 MS
 2255 KHTV 30 TX

22 MS 0538 WLW-D 2 OH
 (Meteors down; heavy
 local thunderstorms)

Es 1130-1230 approx
 ch 2-3, no time to Id
 (Gone until eve of 6th)

16 tr 1030 KDNL-30 MO
 KCBJ-17 MO
 17 MS 0522 WLW-D 2 OH
 0525 WSYR- 3 NY
 WESH- 2 FL
 0531 WAVE- 3 KY
 WCBD- 2 SC
 0550 WBAY- 2 WI
 0628 WMT - 2 WI

tr 0541 WWL - 4 LA
 0603 WDSU- 6 LA
 0608 KNOE- 8 LA
 0610 WAFB- 9 LA
 0637 WRBT-33 EA
 0643 KATC 3 LA
 1015 WAPT-16 MS
 1040 KDNL-30 MO
 WAPT-16 MS

6 tr 1750 KHNE-20 NE
 KXNE-10 NE
 KMEG 14 IA
 (all until 2130 approx)
 7 MS 0552 WTVN 6 OH
 0607 WCIV 4 SC
 0637 WCCO- 4 MN
 tr 1200 KMEG 14 IA
 1216 KETV 7 NE
 1717 KDSD-16 SD
 (UHF state #21)(655mi)
 (tr) 1822 KUSD- 2 SD
 (ch2#60) (505mi)
 (Loads of SD FMs, Acting)

18 MS 0517 WJBK- 2 MI
 0525 WCBD- 2 SC
 0526 WLW-D 2 OH
 0534 WAVE- 3 KY
 0558 WBAY- 2 WI
 tr 0603 WOW - 6 NE
 (MS poor this AM)

1046 KVRL-26 TX
 1047 WGN0 26 LA
 1048 KHTV 30 TX
 2025 WMAA 20 MS
 KHNE-20 NE
 WDXR-20 KY
 2055 WMAO 23 MS
 2125 WHBQ-13 TN
 2130 WMAV 18 MS
 2225 WMAU 17 MS
 2305 KCBJ-17 MO

8: out of town.
 10 MS 0507 WBBM- 2 IL
 0508 WSYR- 3 NY
 0515 WTVN 6 OH
 0516 WJBK- 2 MI
 0517 WLW-D 2 OH
 0524 WECT 6 NC
 1035 KHNE-20 NE

10 MS 0528 WLW-D 2 OH
 0520 WAVE- 3 KY
 0557 KGBT- 4 TX
 tr 0605 WOW - 6 NE
 2100 KHNE-20 NE
 20 MS 0510 WJBK- 2 MI
 WSYR- 3 NY

23 tr 0520 K04LDY (KTEW 2)
 Talhequawok (145mi)
 K04EJ (KTEW 2)
 Coffeyville KS (150mi)
 0547 KPV3-12 MO
 MS 054930 KCIX-6 FL
 tr 2145 KHNE-20 NE

Es 2000-2145 2-3week
 WMAR-2, WPSX-3 tent
 11 tr 2110 KCBJ-17 MO
 12 MS 0507 WSYR- 3 NY
 tr 0510 KMOX- 4 MO
 MS 0516 WTVN 6 OH
 0521 WLW-D 2 OH
 WECT 6 NC
 052830 WBAY- 2 WI
 0541 WDTV 5 WV
 tr 0620 KALB- 5 LA
 0657 KHAS- 5 NE
 2120 KHNE-20 NE

0510 WBLT 5 Ont
 0530 WLW-D 2 OH
 tr 0535 KALB- 5 LA
 0543 KNOE- 8 LA
 0556 WWL - 4 LA
 0603 WDSU- 6 LA
 (MS count down again)

24 MS 0520 WLW-D 2 OH
 0523 WBBM- 2 IL
 0538 WCIV 4 SC
 (MS way below average this AM)
 DXing considerably cur-
 tailed last week of month
 due to press of business.

13 tr 0831 WTVO 17 IL
 WAND-17 IL
 WCEE-23 IL
 KCBJ-17 MO
 KMEG 14 IA

tr 1830 KDNL-30 MO
 KHNE-20 NE
 2045 WAPT-16 MS
 2103 KCBJ-17 MO
 2231 WMAA 20 MS
 WMAH 10 MS
 WMAU 17 MS
 WRBT 33 LA
 KMEG 14 IA
 2250 KTRN-13 NE

Oct 1 MS 051730 WTTG-5 DC
 0519 WLW-D 2 OH
 0528 WPMY- 2 NC
 0536 WCIV 4 SC
 0541 WCBD- 2 SC
 2 MS 050830 WBZ-4 MA
 0518 WLW-D 2 OH
 0525 WPMY- 2 NC
 0526 WECT 6 NC
 0528 WBAY- 2 WI
 0533 WCIV 4 SC

21 tr 0035 KHOL-13 NE
 0040 KQTV 2 MO
 0045 KOLN-10 NE
 0051 KTVI 2 MO
 0100 KGIN-11 NE

(13)(tr) 2045 WDXR-20 KY
 2245 KPOB 15 MO T
 14 tr 0734 KMEG 14 IA
 K70EK KS
 0746 K55AE
 K57AC K50AD
 all Perryton TX
 K58AC
 K60AG K62AD
 all Guyman OK
 1010 K61AC
 K65AB K68AD
 all rural Perryton TX
 K70DB, K71BK,
 K73BK, K74BF,
 K75BN, K76AU.
 K77AQ
 Memphis TX
 K79BA
 K81AR Cheyenne OK
 K82AZ Memphis TX
 K82AK Miami TX
 K80AY
 1030 K80BD
 Matador TX
 K78CM, K78AZ,
 K76BD, K76AU,
 K75AV.
 K74CH Childress TX
 K73BJ, K73AW.
 K72CB Arnett OK
 K72BZ Childress TX
 K71BJ
 1050 K70CF
 Arnett OK
 K81AN

-8 loads of unids of course)

15 MS 0501 WSYR- 3 NY
 0503 WLW-D 2 OH
 0503:30 WBTV 3 NC
 0510 WBBM- 2 IL
 0523 WTVN- 6 OH
 0525 WBAY- 2 WI
 0526 WECT 6 NC
 0537 WCIV 4 SC
 0545 WCBD- 2 SC
 0550 CHNB- 4
 tr 0610 WHBQ-13 TN
 0615 WHNT-10 AL
 (630 mi)

16 Es 0626 WMC - 5 TN
 1305 WMAR- 2 MD; T
 1002 n.n.e. 2-3
 (Canadians likely)
 2027-2145 e./s.e.
 WPBT 2 FL; T

17 MS 0445 WSB - 2 GA
 0452 WLW-D 2 OH
 0453 WPBC- 4 SC
 0458 WCIV 4 SC
 0505 WBBM- 2 IL
 0521 WTVN 6 OH
 0550 CHNB- 4
 0553 CBFT 5
 tr 0013 KDNL-30 MO
 0024 K70CF & others

18 (Effects of Orionids meteor shower starting to show)

MS 0453 WPBC- 4 SC
 0455 WLW-D 2 OH
 0456 WCCO- 4 MN
 0507 WJBK- 2 MI
 0510 WKTV 2 NY
 (CB-2 #61)
 0511 WLW-T 5 OH
 0517 WTVN- 6 OH
 0522 WECT 6 NC
 0528 WCBD- 2 SC
 0537 WAVE- 3 KY
 0544 WCIV 4 SC
 0546 WTAE- 4 PA
 0550 CBFT 5
 tr 0600 KALB- 5 LA
 0615 WJTV 12 MS
 0620 WRBT 33 LA
 0835 WMAU 17 MS
 KLNI-15 LA
 1000 K76AN K70BH
 Turkey TX
 K73AW, K72CB,
 K80BD & many
 other semi-regulars
 20C5 KTVV 36 TX
 K70EK KS
 2150 KVUE 24 TX
 KNCT 46 TX
 KHTV 30 TX
 KVRL 26 TX

10 MS 0453 WLW-D 2 OH
 0500 WCBD- 2 SC
 0501 WBBM- 2 IL
 0511 WTVN- 6 OH
 0520 WECT 6 NC
 0530 WTAE- 4 FA
 0543 WCIV 4 SC
 0553 CBFT 5
 tr 0601 KALB- 5 LA
 0603 KCEN- 6 TX
 MS 0618 WMT - 2 IA
 0610 KTVV 36 TX
 WRBT 33 LA
 KHTV 30 TX
 KNCT 46 TX

(MS showing very few good signs this AM; little Orion effects)

tr 0830 KDNL-30 MO
 2200 WMAV 18 MS
 2235 WBMG 42 AL
 (618 mi)
 20 MS 0534 WSB - 2 GA
 0535 WLW-D 2 OH
 0542 WTMJ- 4 WI
 0550 WCCO- 4 MN
 0605 WCIV 4 SC
 0607 CHNB- 4
 (MS below average on random meteor; little Orionids)

21 tr 0708 WAAY 31 AL
 WHNT 10 AL
 (605 mi)
 0710 WBMG 42 AL
 (618 mi)

0711 WKPT-19 TN
 (821 mi)
 0717 WMSL-48 AL
 (500 mi)
 0720 WTGG 17
 WHAE-46 GA
 (748 mi)
 0730 WAPT 16 MS
 0745 WDXR-20 KY
 (501 mi)
 0746 WYEA-38 GA
 (745 mi)
 0802 KDNL-30 MO
 0854 KCBJ-17 MO
 0955 WICS 20 IL
 WICD 15 IL
 (600 mi)
 1950 WAPT 16 MS
 Es 1050 KYW - 3 PA
 WPSX- 3 PA
 & others to napast 2300
 tr 2115 WMAV 14 MS
 WMAU 17 MS
 2123 WRBT 33 LA
 WMAO 23 MS
 2130 WKZT 23 KY
 (580 mi)
 2132 WKYT-27 KY
 (730 mi)
 WDXR-20 KY
 WMAA 20 MS
 2141 WKMA 35 KY
 (630 mi)
 2150 WMAH 10 MS
 (635 mi)
 2235 WIRL-10 IL
 WEEK-25 IL
 WMBD 31 IL
 (553 mi)
 KDNL-30 MO
 2240 KCBJ-17 MO
 2248 KRCG 13 MO
 2300 WLOX-13 MS
 (635 mi)
 2304 KVRL 26 TX
 WHBQ-13 TN
 WJTV 12 MS
 22 tr 0600 KALB- 5 LA
 0613 WICS 20 IL
 0626 WRBT 33 LA
 MS 0628 WMT - 2 IA
 tr 0628 WICD 15 IL
 0645 WAND-17 IL
 0656 WMAO 23 MS
 WMAV 18 MS
 WMAW 14 MS
 WMAU 17 MS
 WMAA 20 MS
 WHBQ-13 TN
 0704 WDHO-24 OH
 (854 mi)
 0824 WFIQ 36 AL
 (620 mi)
 0936 WAPT 16 MS
 KLNI-15 IA
 WBMG 42 AL

Best of DX to all

Dennis

WESTERN FM DX

Roger S. Horie
P.O. Box 784
Missoula, Montana 59801

Dennis Smith, 450 Poplar Ave. Wasco, California 93280 (1-10 Sept) (PST)

After the stable hot temperature and inversion condition returned to California's Central Valley at the end of August (see Oct Western FM report), more general cooling and disruption of the inversion took place, with tropo condx being down since early September.

I left Wasco on 10 Sept to head north for the school year, but caught one more new logging before leaving. Local KZIN 107.9 Bakersfield CA (4.3kW, 35mi, country) is 2h hrs, but off Monday morning midnight-6AM. That Monday, 10 Sept, KZIN signed off (t/off) 0003, then caught KAPX 107.9 giving wx, then s/off & t/off at 0004 (San Clemente, CA, 28.5kW, apx 150mi).

This would give my Wasco FM log an even 200 stations to end up the summer. However, I have added up all the stations and have come up with 201: I often spot a previous error or omission when going through the list and hope I've gotten them all this time. Equipment includes a 1057 Fisher FM-00X mono FM tuner and a 1058 TACO 10-element FM yagi antenna 40 feet above ground. Ground elevation is 325 feet above sea level. Best of DX.

Glenn Hauser, 620 N. Husband, Stillwater OK 74074 (16 Oct - 17 Nov 1973) (CST)

In case this reaches you in time, KOSU-91.7 tentatively plans a fund-raising all-night marathon two weekend nights before Christmas like 14-15 Dec; some Geminids may still streak; send reports, even tentative, to me. Incoming DX here smatteringly interesting...

- | | |
|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| 16 Es 1838 ?? 88.3 ?? foreign ax, NE | (24 Tr) 0901 <u>KBIA 91.3 MO Columbia</u> ID 325 |
| 1942 <u>WUSF 89.7 FL Tampa</u> jazz 1015 | 0903 <u>KCUR789.3 MO?Kansas City?</u> heart disease discussion not //WHA |
| 1945 <u>WMCU789.7 FL?Miami?</u> sermon | 0907 <u>KRES 104.7 MO Moberly</u> jingle 740 |
| 21 Es 2001 ?? 88.5 ?? opera iv; PA on TV | for "KRES, Radio 104" (no \$\$\$?) |
| Tr 2229 <u>KUMR 88.5 MO Rolla</u> temp, 315 | 0919 <u>KASE 100.7 TX Austin</u> o/KIMP 405 |
| soft YL DJ; 2259 nx w/Barb, s/off to | EL south; Austin TV in |
| Brahms Lullaby; STL WKT86-949.5 MHz | 7 Tr 2134 <u>KGNC-97.9 TX Amarillo</u> ID; 275 |
| 23 Tr 2122 <u>WMC- 99.7 TN Memphis</u> wx 395 | 2159 end TSN nx, back to "Panhandle Pizzicatti" (:) |
| 2130 <u>KSWM-100.1 MO Aurora</u> reverb ID 190 | 8 Tr 0800 <u>KOYL-97.9 TX Odessa AM&FM</u> ID 425 |
| "Uptown Country KSWM-FM multiplex \$, 100.1 on the dial, Aurora, Missouri" | "KOYL Country News" |
| 2329 <u>KUDD 98.1 MO Kansas City</u> 245 | 0835 <u>KLDG 95.7 NM Hobbs</u> KHOB talk 420 |
| "Cuddle" wx, ads | 13 Tr 0106 <u>KDJW-94.1 TX Amarillo</u> local 275 |
| 24 Tr 0736 <u>WHA- 88.7 WI Madison</u> cl ax; 625 | diabetes discussion; KSPI off |
| 0805 David Berger; 0843 end UW Extension/WHA prod.; 0855 pga promo, -nx | 14 Tr 0725 <u>KOFO-95.7 KS Ottawa</u> "Ko-fo wx" 200 |
| 0739 <u>KMMU 90.7 MO St Louis</u> lcl nx 405 | 17 Gw 1808 <u>KBJH 98.5 OK Tulsa</u> new on air 60 |
| 0900 <u>KSOZ 88.1 MO Pt Lookout</u> ID nx 215 | asking reports for "Radio Voice of American Christian College" to Box 702, 74129; BJH=Billy James Hargis |
| (not yet moved to 91.7, fortunately) | |
| Total now 142 from 20 states. 73 de Glenn. | |

NEXT MONTH
in the V.U.D.

STATION BREAK
RETURNS!



VHF UTILITY DX

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

DECEMBER 1973

Richard T. Colgan, PO Box 18268 - Serna Station, San Antonio, TX 78218
dates given as June in the October column should have been May; Realistic PRO-2; Petersen HL-44; Midland 13-920; A/S Mon-9 @ 40 feet; GMT

<u>6-13:</u>	2209, KSA	857	42.42	Ligonier, IN (state police)
<u>14:</u>	0053, KGB	245	39.42	Sharon, PA (police)
	0121, KQB	273	42.10	Moundsville, WV (state police)
	0145, KIC	212	37.26	Rockwood, TN (police)
	0200, KBA	474	33.94	Wilmington, OH (fire)
<u>16:</u>	1932, KJE	973	39.58	Howard, KS (local government)
	2023, KJD	356	37.10	Sac City, IA (police)
<u>17:</u>	0216, KCQ	240	42.88	San Dimas, CA (state police)
<u>20:</u>	2316, KMJ	212	45.94	San Diego, CA (sheriff)
<u>24:</u>	1551, KQW	467	39.90	Wolbach, NE (local government)
	1707, KDA	432	42.82	Daniel, WY (state police)
	1722, -	-	35.54	Fergus Falls, MN (mobile phone)
	1742, KJB	902	42.82	Casper, WY (state police)
<u>25:</u>	0216, KAF	564	39.58	Concordia, KS (police)
	0225, KAA	987	37.10	Jefferson, IA (sheriff)
	0235, KAB	510	39.10	Kimball, SD (state police)
	0332, KOB	218	42.94	Park City, UT (state police)
<u>27:</u>	0100, KRA	436	39.32	Rapid City, SD (state police)
	0116, KBD	918	37.26	Iowa City, IA (police)
<u>30:</u>	2011, KEL	394	42.62	Bald Mountain, NC (state police)
	2028, KBK	288	37.26	Altamont, TN (sheriff)
	2115, KIQ	521	37.26	Collierville, TN (local government)
	2131, KIC	567	44.62	Richmond, KY (state police)
	2147, KAH	771	39.58	Johnson, KS (sheriff)
	2202, KDJ	479	33.94	Amelia, OH (fire)
	2231, KSB	228	42.60	Metamora, IL (state police)
	2354, KSA	961	39.50	Taylorville, IL (sheriff)
	2355, KCI	650	39.50	Pana, IL (police)
<u>1-1:</u>	0100, KAB	233	37.10	Clarinda, IA (sheriff)
<u>4:</u>	1424, KQB	924	39.58	Chillicothe, OH (sheriff)
	1457, KCR	942	42.02	Milledgeville, GA (sheriff)
<u>22:</u>	1620, KLE	822	33.86	Hebron, OH (fire)
	1640, KQB	523	39.58	Mt. Vernon, OH (sheriff)
	1842, KAC	979	39.90	York, NE (sheriff)
	1901, KRG	638	42.92	Minneapolis, MN (state police)
	2036, KAF	985	37.10	Decorah, IA (police)
	2112, KOE	272	39.18	Coolidge, AZ (police)
<u>23:</u>	0018, KJV	803	37.26	Dover, TN (sheriff)
	0041, KSP	257	37.26	Halls, TN (police)
<u>8-8:</u>	2010, KJK	581	39.10	Starke, FL (state government)
	2116, KQD	303	35.62	Detroit, MI (pager)
	2125, KKD	614	39.72	Covington, LA (sheriff)
<u>9:</u>	1528, KKC	591	39.50	Franklin, LA (state police)
	1625, KQN	976	42.50	Glendale, CA (state police)
<u>12:</u>	2313, KKQ	994	37.18	Shamrock, TX (police)
<u>13:</u>	0018, KAD	416	39.58	Ulysses, KS (police)
	0029, KRC	625	39.90	Grand Island, NE (sheriff)
<u>Hank Holbrook, 7211 Chestnut St., Chevy Chase, MD 20015</u> QSLed DX; GMT				
<u>1-22:</u>	2117, KKE	501	39.50	Donaldsonville, LA (sheriff; 500 watts)
	KKJ	403	39.50	Napoleonville, LA (sheriff; 500 watts)
<u>8-1:</u>	2213, N754PA	128.7		15 mi nw Baltimore (PanAm-57; B-747; 100 w)
<u>5:</u>	0004, KIA	233	37.26	Berry Hill, TN (also Car 3; 100 watts)
	0034, KSA	450	39.42	Portage, WI (county; 250 watts)
<u>7:</u>	0153, N3304L	128.1		vic Phila. (Southern Air-718; DC-9-14; 25 w)

VHF UTILITY DX

DECEMBER 1973

8-7: 0330, N323GN 128.1 ov Kenton, DE (August Aviation, Inc; Aztec 15w)
 8: 0337, N7595 128.1 vic Phila. (American Airlines Flight 110;
 Boeing 707-323CL; Dulles-Newark; 25 watts)
 0353, N7568 128.1 vic Allentown, PA (American-828; Boeing 707-
 323CF; Freighter; SFO-Newark; 25 watts)
 10: 1445, KIJ 503 37.26 Somerville, TN (sheriff; 100 watts)
 1457, KIJ 945 37.26 Sparta, TN (police; 100 watts)
 1504, KAB 295 39.58 Iola, KS (police; game protector; 60 watts)
 12: 2136, N100WB 128.1 ov Woodstown, NJ (General Battery Corp.;
 Beechcraft King Air A-90; 2-eng, 9-seat; 10,000')
 19: 2301, N3706D 122.6 10 mi se Annapolis (Charles D. Mason; Cessna
 182, 1-engine, 4-seat; 1500 feet)

Mark L. Lewis, 599 Gainsborough Rd., London, Ontario, Canada joins the ranks of VHF Utility DXers with a Juliette MPR-3184 with 20' of wire on 2nd story floor for lo-band and a built-in whip for hi-band; EDT used.

Normal trop condx bring in the following National Weather Service stations - KEC 58, 162.4, Erie, PA (80 mi); KHP 59, 162.55, Cleveland (Chesterman), OH (110 mi), sometimes KEC 63, 162.55, Detroit (300 w ERP on 360' level of WXYZ in Southfield) and 162.55, Buffalo, NY. The Canadian DOC puts taxi radios in the 162.4-162.55 region. A VBG was heard testing while in Toronto on 161.65 for future 24-hr broadcasts.

10-21: 2107, OK City 42-AR state police
 2110, 42-AR state police 42-Jeff. City, TN-sp
 10-23: 0050, VE3III (2m) Windsor, ON
 0114, 151-MHz mobile phones Hamilton, ON; Detroit; Cleve.

Now, my loggings. Hallicrafters SX-62 with 30-ft of indoor random-wire antenna; all are F2 (* F2 backscatter) unless noted, with the peak daily Latin American unID MUF noted if 35 MHz or more; new underlined; CST used. (50-MHz loggings on Swan 250 with 3-el CushCraft horizontal Yagi at 15 ft)

10-13: 1530, 36.9	25: 1230, R. Canada	27: 1656, KKV 690 *
15: 1022, KMA 829 (Es)	1415, 36.9	1709, KOK 418
1118, KFL 936 (Es)	1446, KAI 927 (Es)	1725, KLF 527
1720, 35.58 *	1502, KQA 606 (Es)	28: 1235, R. Canada
16: 1140, KMA 829 (Es)	1610, KKV 690 *	1257, KCC 482
1147, KSC 645 (Es)	1845, KMA 829 (Es)	1500, KCA 378
1530, 45.3-Spanish	26: 1017, solar noise	1302, KCD 244
1657, L Beach *	1345, R. Canada	1332, KDQ 223
1718, KLF 527	1550, 38.3-Spanish	1339, KCE 358
1723, KKV 690 *	1717, KLF 527	1342, KCH 954
1851, KGA 805 (Es)	1801, KFJ 891 (Es)	1346, KCB 526
2003, KCS 815 (Es)	1810, KQC 877 (Es)	1401, <u>KCD 511</u>
2004, KAA 893 (Es)	27: 1000, KBQ 744	1420, <u>KCD 806</u>
2006, KIE 953 (Es)	<u>KCF 944</u>	1430, 46.5-Sp.
2015, KQC 877 (Es)	<u>KCB 526</u>	1500, KCA 695
2019, KFL 943 (Es)	<u>KCE 358</u>	1503, KCC 532
2307, L Beach (Es)	1357, <u>WYFR</u>	1509, KCE 518
17: 1520, 40.1-Spanish	1504, KGL 714	1514, KCE 816
18: 1215, 42.5-Spanish	1517, KCE 357	1614, OK City *
19: 1455, 41.8-Spanish	1519, KCB 844	1615, KLF 527
21: 1555, KKV 690 *	1520, <u>KCD 307</u>	29: 1158, KFL 936 *
22: 0250, KIE 953 (Es)	1522, KCD 471	1215, 44.5-Sp.
0258, KIM 905 (Es)	1533, KCC 825	1306, KKV 690 *
0306, KQD 313 (Es)	1535, KCF 389	30: 0735, 36.5-Sp.
1510, 50.420	<u>KOP 303</u>	1232, KLR 503
1612, OA6CW	1542, Portland	1516, KKV 690 *
2218, L Beach (Es)	1545, KCA 303	31: 1000, KQC 877 (Es)
23: 1224, KFL 943 (Es)	1548, KCC 482	1025, KIF 653 (Es)
1343, L Beach (Es)	1613, 37.5-tones	1129, KFJ 891 (Es)
1525, 38.7-Spanish	1640, KMB 306	1440, 40.8-Sp.
24: 1420, 37.5-tones	OK City *	1950, KQC 884 (Es)
1902, KSC 645 (Es)	KFL 936 *	2029, KSJ 815 (Es)
	1647, <u>KOB 683</u>	2055, KSC 645 (Es)

VHF UTILITY DX

DECEMBER 1973

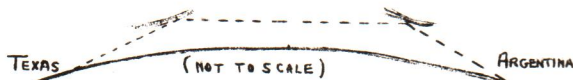
11-1: 1220, 35.58 *	4: 1415, WYFR	7: 1534, WYFR
1430, 35.2-Sp.	1621, KOG 634	8: 1035, 35.2-Sp.
1505, WYFR	1645, 35.7-tones	9: 1055, 38.7-Sp.
2: 1400, WYFR	5: 1503, WYFR	11: 1155, 35.58 *
1450, 35.2-Sp.	6: 1000, 35.2-Sp.	

The last few days of October produced the highest F2 MUF's over the US since the large magnetic storm of February. October 22 South American opening matched exactly the 27-day interval from the September 25th one.

KAAs 893 35 + St. Louis, MO	KFL 943 35.58 Las Vegas, NM **
KAI 927 35.34 Denver, CO	KGA 805 35 + Pittsburgh, PA
KAQ 606 35.58 Denver, CO	KGL 714 31.10 New York, NY-t
KBQ 744 33.62 Whitesville, MA-f	KIE 953 35 + Atlanta, GA
KCA 303 33.50 Dover, MA-f	KIF 653 35 + Memphis, TN **
KCA 378 33 + New Haven, CT-f	KIM 905 35.22 Charlotte, NC **
KCA 695 33.78 Manchester, NH-f	KKV 690 35.62 Houston, TX
KCB 526 33.70 Kennebunkport, ME-f	KLF 527 35.58 Honolulu, HI **
KCB 844 33.70 Greenfield, MA-f	KLR 503 33.02 Boston, MA-h
KCC 482 35.22 Concord, NH *	KMA 829 35.58 San Diego, CA
KCC 532 33.94 Plainville, CT-f	KMB 306 35 + (west)
KCC 825 33.70 Kennebunk, ME-f	KOB 683 33 + Klamath Falls, OR-f
KCD 244 33.70 Falmouth, MA-f	KOG 634 33.82 Kent, WA-f
KCD 307 33.70 Augusta, ME-f	KOK 418 35 + (west)
KCD 471 33.70 Wells, ME-f	KOP 303 35.46 Langley, WA-mp
KCD 511 33.70 Camden, ME-f	KQC 877 35 + Cincinnati, OH
KCD 806 33 + Nichols, CT-f	KQC 884 35 + Detroit, MI
KCE 357 33.70 Bethany, CT-vf	KQD 313 35.50 Dayton, OH
KCE 358 33.54 Greenfield, MA-cf	KSC 645 35.58 Chicago, IL
KCE 518 33.86 Shelton, CT-f	KSJ 815 35.22 Fort Wayne, IN
KCE 816 33.94 Southington, CT-f	OA6CW 50.1 Tacna, Peru-a
KCF 389 33.5 Westwood, MA-f	WYFR 30.25 Scituate, MA-ha
KCF 944 33.54 Brattleboro, VT-f	R.Canada 30.64 Sackville, NB-ha
KCH 954 33.70 N Branford, CT-f	- 35.58 Long Beach, CA *
KDQ 223 33.82 E Brunswick Twp, NJ-f	- 35.58 OK City, OK *
KFJ 891 35 + Columbus, OH	- 35.26 Portland, OR-mp
KFL 936 35.58 (west)	

a-amateur; f-fire, c-county, v-volunteer; h-hospital; ha-harmonic; mp-mobile phone; t-transit; rest are tone pagers, except * voice and ** tone messages with voice ID's.

Geomagnetic control of F2 is very pronounced, especially near the geomagnetic equator where at some distance on each side "bulges" build up amounting to tilts - see the figure below.



This situation produces unexpectedly high MUF's (due to the very low angle of incidence) and the F2F2 mode (double-hop without any intermediate ground reflection and absorption losses). This path may be somewhat critical as either too much or too little ionization either end will cause an overshoot or undershoot of the other bulge.

Future parts of this "mini series" on VHF F2 effects will consider the seasonal effects, magnetic storm influences, WWV forecasting, and transequatorial scatter (TE). It is hoped that this has (and will) been of use to those DXers only experienced in the Es and trop propagation forms. As always, direct comments are welcomed.

73, Pat

WA5IYX



FCC TV NEWS - DATA

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

New on the air:

WPBO-TV ch 42 Portsmouth, OH ETV 9-28-73
Seen by several DXers
WDTB ch 13 Panama City, FL NBC 10-3-73
Also noted by Florida clubmembers
WHFV ch 69 Fredericksburg, VA NBC 10-5-73
KLCS ch 58 Los Angeles, CA ETV 11-1-73

Changes in operating stations

WTOC-TV ch 11 Savannah, GA CP for 1440'AAT
relocate transmitter
WVIZ-TV ch 25 Cleveland, OH STA for 1000KW
KATU ch 2 Portland, OR STA for 87KW, 1560'AAT
KMEX-TV ch 34 Los Angeles Auth 500KW
WOSU-TV ch 34 Columbus, OH mod of CP for
1200KW, 1100'AAT
WTOL-TV ch 11 Toledo, OH CP for 316KW
WJET-TV ch 24 Erie, PA STA for 590KW
WTPA ch 27 Harrisburg, PA CP for 2400KW
KOLR ch 10 Springfield, MO Auth 300KW,
2100'AAT
WCOV-TV ch 20 Montgomery, AL STA for 620KW
KINY-TV Juneau, AK CP for 200W, -950AAT
KTCM ch 12 Helena, Mt CP for 200KW, 2300'AAT
WXII ch 12 Winston-Salem, NC STA for 2000'AAT
KUMW ch 8 Williston, ND STA for 170KW
WTTW ch 11 Chicago Mod of CP for 90KW,
1470'AAT, transmitter to Sears Bldg.
KYUK-TV ch 4 Bethel, AL STA for 5KW, 255'AAT

Returned to the air:

WSLA ch 8 Selma, AL returned 10-25-73

Applications for new stations:

Ch 51, Ocala, FL 1200KW, 1000'AAT
Ch 18, San Juan, PR 1500KW, 1200'AAT
Ch 24, St. Louis, MO 1200KW, 1000'AAT (STV)
Ch 22, Pittsburgh, PA 1450KW, 1000'AAT
Ch 67, Salinas, CA 24KW, 2200'AAT
Ch 3, Gallup, NM 100KW, 2000'AAT (KGGM Sat.)
Ch 8, St. Ste Marie, MI 250KW, 1000'AAT (WGTV
Sat.)
Ch 22, Annapolis, MD 2000KW, 900'AAT

Call Letters:

WHLA-TV ch 31 La Crosse, WI (was WWWG)
(WQXI-TV) ch 11 Atlanta wants WXIA-TV
ch 26 Biddeford, Me wants WMEG-TV
WGPR-TV ch 62 Detroit, MI (was WRIH)
(KREZ-TV) ch 6 Durango, CO wants KOBD-TV
KGFE ch 2 Grand Forks, ND (was KLHZ)
KXON-TV ch 5 Mitchell, SD (was KORN-TV)

CPS Granted for new stations:

Ch 6, Alpena, MI 100KW, 1500'AAT to be Sat
of little WCMU-14 Mt. Pleasant!

From readers--Florida's Ken Simon notes WSWN-35 Orlando will be on soon. Also, WCBN-45 Miami plans 1-1-74 start. WEVU-26 Naples expects to start soon. Bob Baker, Humboldt, IA (and others) note the collapse of KCRG-9's new 2000' tower on 10-3. Tower was being prepared for KRIN-32 Waterloo addition, plus an FM. The disaster will delay station plans at least a year. KCRG was off the air for 36 hours, is now back on at old location. J.J. Rosenberg, half of the Rosenberg-Lewis Ontario Connection forward a note from Mark Lewis concerning proposed test of circularly polarized broadcast antenna by WLS-TV, Chicago. Tests will see if that type transmission works better in built-up areas. By the way, apparently only 3 stations will broadcast from the new Chicago Sears Tower...WLS-TV, WCUI& WTTW. Most interesting article passed on by N. Dakota DXer Fred McCormack about delay in airing KGFE-2 Grand Forks because of FCC error! Station was due on this fall, but Canadian gov't objected because tx sight was too close to ch 2 allocation in Brandon, Man. No solution is in sight. Much effort and \$ may have been wasted on the project. Briefs from Broadcasting... lead article in Oct 29 issue notes Office of Telecommunication study that "asserts a substantial number of new VHF stations could-from a technical standpoint, at least-be established in many of the nation's top-100 markets." Included was a list of 66 proposed drop-ins of VHF channels in Critics of the proposal include the Association of Maximum Service Telecasters and various UHF owners. By the way, proposed tests of ch 12 drop-in D.C. (short space to Wilmington and Richmond and adjacent 11 and 13 Baltimore) are dead for now. Other news... WHFV-69 Fredericksburg, VA is latest NBC affiliate...CP for ch 19 Cleveland has been sold and may be activated...KMEX-34 L.A. has abandoned partial all-news format...WMCV-17 Nashville should be first all-black TV on the air (if the beat WGPR-62 Detroit to it)...WFAN-14, WMET-24 Baltimore are still under orders to return to air this winter. That's enough for now. 73 Rog.



C.C.I.

Leslie J. Prus
1615 Pierre Street
Manhattan, Kansas 66502
(Phone: 913-537-7886)

Unidentified TV DX

DECEMBER 1973

William G. Thompson, 1907 Seneca Street, Buffalo, New York 14210

Wed Jun 6 Es ch 5 1651 CDT - - delayed ABC "Let's Make A Deal" with PTA (prob. target area): ND, SD. Chief suspect is KDSJ.
5 1653 CDT - - "Snooper & Blabber" cartoons, same PTA as above plus Manitoba & Saskatch. Suspect: CKBI, CJFB, CKX, KFVR, KDSJ, KORN.

John F. Combs, 816 W. Harvard Street, Orlando, Florida 32804

Sun Jul 22 Es ch 3 1514 EDT - - Hockey: Team Canada vs. USSR. PTA: S. Ont. & PQ. CKVR, CKSOL, CJBR ??
Fri Jul 27 Es ch 4 1203 EDT - - delayed CBS "Secret Storm" with PTA: North Central & Eastern US, E. Canada. A TVG check of CBS stations negative, but the logging is definite and should be checked further by readers.
Sun Aug 5 Es ch 3 1148 EDT - - "Oral Roberts" PTA: Central/East U.S.

Glenn Hauser, 620 N. Husband, Stillwater, Oklahoma 74074 (TX loggings)

Mon Jan 1 Es ch 2 1959 MST - - ID slide with a double-lined "2" in upper right, and call under it. Maybe KTVU (PTA: NV, CA) or even KOTI, KTVN.
Mon Feb 5 Tr ch 7 0921 CST - - ETV program "Science 8" with Dave Thomas, seemed b.w. PTA: S.E. USA
1021 EST Suspect: WCIQ, WJCT, WITV

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

Fri Apr 20 Tr ch 5 0024 CST - - English language movie with Spanish subtitles. PTA: Mexico. XEJ, XHFI ?
Sun Apr 29 Tr ch 11 2130 CDT - - delayed PBS "Firing Line" with PTA central US. KOED? (not KTWU, KDIN)

Paul E. Petosky, Box 140, Munising, Michigan 49862

Sun Oct 21 Tr ch 20? 2245 CDT - - Jackson State vs. Mississippi football on TVS network. PTA: IA, IL, MO. Suspect WICS, also WIRL-19 & KVFD-21.

Richard Noel Allen, Billings, Oklahoma 74630

Sat May 26 Es ch 3 1849 CDT - - local movie "The Robe." PTA: unknown but probably NW or SE United States. Western Canada also a possibility.
Mon May 28 Es ch 2 2047 EDT - - silent Charlie Chaplin movie. PTA: northeast USA and eastern Canada.
Wed Jul 11 Es ch 2 2155 EDT - - Baseball: Cincinnati vs. Montreal with Dave Van Horn & Duke Snyder. CBC Network, PTA: Ont, PQ. CJIC?
Mon Oct 29 MS ch 2 0643 EST - - "Flying Nun," PTA: Northeastern US
Wed Oct 31 MS ch 2 0716 EST - - "Flipper" Northeastern US, also midwest

More unIDs will appear next month. Meanwhile, please check back in your back issue TV Guides and logbooks to help identify these. If you solve an unID, send a card to the DXer. It WILL be appreciated. 73, LES

TV QSL CORNER

KEN SIMON
528 Pilgrim Rd.
West Palm Beach,
Fla. 33405

I realize this is rationalization, but...I've gotten bogged down with old reports. Let's face it, some of them are close to two years old, and some members, I'm sure they ment to be helpful, sent lists of their entire QSL collection. So, I'm putting these aside for now and working with the current reports. If you think some report is important, resubmit it to me on a 3 x 5 card. In a pinch, a postal card will do.

l=letter; fl=form letter; c=card; x=fill-in

FLORIDA: WPBT ch 2 MIAMI -xl-40 days.-SASE sent. (GK)
WTLV ch 12 JACKSONVILLE -xc- NILES E. HUNT, ce (KRS)
W69AA ch 69 HOLLYWOOD -WCLX's c w/ QTH, power and channel written on.-JACK COWART, ce-3 days. (KRS)
MARYLAND: WJZ ch 13 BALTIMORE -l- 30 days.-stamp sent. (GK)
MISSISSIPPI: WLEP ch 3 JACKSON -xc-1 week-CE signature unreadable.(KRS)
NEBRASKA: KMTV ch 3 OMAHA -fl- 13 days.-stamp sent. (GK)
NEW YORK: WNPE ch 16 WATERTOWN, WMPI ch 18 NORWOOD-l-(one for both)-ROSS NEY, asst.ce.-23 days-(GC/O)
TEXAS: KWAB ch 4 BIG SPRING -l on back of coverage map-GEORGE GATLIFF, ce (JC)
VERMONT: WVNY ch 22 BURLINGTON -friendly l, c-ANDREW N. COBURN, ce, mint stamp returned. (GC/O)
VIRGINIA: WCYE ch 5 BRISTOL -xl w/ coverage map- 2 days- mint stamp.(GK)
WVIR ch 29 CHARLOTTESVILLE -l-coverage map-22 days-mint stamp (GK)
WCWV ch 57 RICHMOND-xc-4 days on 4th try. (GK)

so much for U.S. reports...

CANADA, N.S.: CBHT-3 ch 11 YARMOUTH -CBC c-PETER MCGILLIVRAY (of CBHT in HALIFAX) 2 weeks-mint stamp (GC/W)
ONT.: CHOV ch 5 PEMBROKE-l-BROOKE DUVAL, prog. dir. 1 week (GC/O)
CKCO-1 ch 2 WIARTON-l w/ info on AM/FM/TV-D WILLCOX-18 days.(JC)
PUERTO RICO: WAPA ch 4 SAN JUAN-l-JULIO BRITO-26 days (JC).

A WORD OF THANKS GOES TO NEW MEMBER JOHN F. COMBE OF ORLANDO, FLA., WHO IS THE FIRST TO SEND A REPORT ON 3 x 5 CARDS...WELL DONE. cards with the state in the UL corner & a 1" x 1" sender's name w/ the LL corner. One station per card.

CONTRIBUTORS:

GK=Greg Kelley, STAUNTON, Va
JC=John F. Combs, ORLANDO, Fla.
KRS=me, WEST PALM BEACH, Fla.

GC/O, GC/N=Gregg A. Calkin, Ottawa and
New Brunswick

REMEMBER, keep the 3 x 5 cards coming....

HAPPY NEW YEAR, MERRY YULETIDE,
HAPPY CHANNUKAH...(did I leave anyone
out?)

73s



KENNETH R. SIMON
528 Pilgrim Road
West Palm Beach, Fla. 33405

FM QSL CORNER

Greg Kelley
108 Archer Street
Staunton, Virginia 24401

- Arizona Flagstaff KAFF 92.9. Letter, no time, v/s Joe Anaya, PD. My report is the farthest from due East, but has many reports from Midwest. (RW)
Mesa KBUZ 104.7. Brief letter, no mention of time or FM. v/s Harry W. Reith, GM. Says my report most distant. (RW)
Mesa KDKB 93.3. very pleasant, specific letter. v/s James Groll, CE. (RW)
Phoenix KRFM 95.5. Picture postcard of station. v/s Charles Spencer CE. (RW)
Show Low KVWM 93.5- Pleasant, specific letter v/s S.J. Woodworth owner-M. (RW)
Tucson KXEW 93.7- pleasant, specific letter v/s Lynden Holsclaw. attractive letterhead featuring Don Quixote & Sancho Panza. Enclosed CM. (RW)
- Arkansas Little Rock KLAZ 98.5- letter, CM, bumper sticker. v/s Dale Seidenchwarz, CE. (RE)
Little Rock KARN 103.7- letter, CM- v/s Lynn Rockenbach, CE. (RE)
Paragould KHIG 104.9 letter, v/s Davis Higgins-Engr. (RE)
- Colorado Colorado Springs KPIX 94.3- totally inspecific acknowledgement from MS. Bonnie Paris, GM (first MS.-signed QSL ever received) E.R.P. is 1400 watts, but will change calls and increase power to 3000w stereo soon. Enclosed bumper sticker. (RW)
Pueblo KVMN 98.9- specific letter v/s Jack Duane, GM. (RW)
Alamosa KGIW 93.5- specific letter v/s Geroge H. Kettle, CE. Enclosed CM. (RW)
Boulder KBVL 94.7- memo-pad ltr, specific, CM, info sheet. v/s Bill McBride, OPS Mgr. (RW)
Denver KOA 103.5- unsatisfactory QSL card, date only, fails to specify FM or time, no signature. (RW)
Colorado Springs KRDO 95.1- specific ltr v/s Ed Wittrock, Radio Mgr. Enclosed CM. has had reports lately from Dearing, Ga., and Franklinton, La. (RW)
Fort Collins KIIX 93.3- specific ltr, v/s Dan Lacy, Pres. (RW)
Denver KLZ 106.7- utterly inspecific, equivocally worded ltr and CM. v/s Max Floyd, PD. Later, a specific QSL Card, no mention of FM, another CM. (RW)
Security KWYD 105.5- pleasant, v/s specific ltr. v/s J.W. Fagg, Stm. My report is first and therefore also most distant. Included newspaper FM listing. (RW)
Fort Collins KCSU 90.9 brief, specific ltr. v/s Gene Pope, CE (unsigned) (RW)
- District of Columbia Washington, WMOD 98.7- form ltr, specific. v/s Frank Kramer, CE. (on closer inspection, it is not a form ltr, but individually typed to look like one) (RW)
- Connecticut Bridgeport WPSB 99.9- pleasant, specific ltr. v/s Richard A. Ferguson, GM. My report is most distant. (RW)
- Delaware Wilmington WJBR 99.5- blue/white FM dial QSL Card. gave date. no v/s name. My first verification from Del. (Ed)
- Florida Miami WLRN 91.3. ltr v/s Henry Cronin, Dir. (PD)
- Georgia Dawson WDWD 92.1- ltr. v/s Owen Parnacott, Prog. Dir. (PD)
Toccoa WLET 106.1- ltr. v/s H. McDonald, Mgr. (PD)

- Illinois FloraWNOI 103.9-ltr. v/s Terry Noblin,CE. (RE)
Moline WMDR 96.9-ltr,CM. v/s N.H.Posenthal,CE. (RE)
Monmouth WVPC 97.7-ltr,CM.v/s Richard Lamoreaux,owner. (RE)
Mt. Vernon WMLX 94.1-QSL card. v/s Lewis Pifer,Jr.,CE. (RE)
Monticello WVLJ 105.5-ltr,CM.v/s Dorothy Smith-ofc. mgr. (RE)
Robinson WTAY 101.7-ltr. v/s Roger Reynolds pgm. dir. (RE)
Rock Island WHBF 98.9.9/v/s James Booth,CE. (RE)
Salem WJBD 100.1-verie on CM. v/s Bryan Davidson,mgr. (RE)
- Indiana Greensburg WTRE 107.3-ltr.v/s Randy Schneider,pgm.dir. (RE)
Hammond WYCA 92.3-vy specific ltr,CM,thick,attractive pgm guide
v/s Mike Corniak,asst. CE.,who is DX'er and understands skip. (RW)
La Porte WLOI 96.7-specific ltr.v/s Robert J. Holmes,CE.
transmitter is in Murnham,Ill. (RW)
Lowell WLCL 107.1 pleasent ltr, specifically confirmed pgm
details but no date & time. v/s Jim Pounds,OpsM. (RW)
New Castle WMDH 102.5-ltr,CM. v/s William Van Arsdall,DE. (RE)
Terre Haute WPPR 102.7-ltr,CM,bumper sticker-v/s Paul Dear Ford.(RE)
- Iowa Ames WOI 90.1 QSL card,v/s Keith Ketcham,CE. (RE)
Algona KLGa 92.7-specific ltr but failed to specify FM.
data sheet, CM. v/s Lyn Anderson,CE,Says my report most distant. (RW)
Atlantic KJAN 103.7-specific ltr,sked,CM,data sheet. says my
report most distant. v/s Dennis Ballard,CE. (RW)
Boone KFGQ 99.3-exuberant ltr.v/s Louis Crawford,Mgr.
mine is most distant report. (RW)
Cedar Falls KHKE 88.1-specific ltr. v/s Douglas U. Verneir,Dir,broad.
sked. Verneir was formly verie-signer at WMOT Murfreesboro,
Tenn, still on 88.1, but will change to 100kw on 90.9 late
Sept. or Oct. (RW)
Des Moines KLYF 100.3-QSL card. (RE)
Le Mars KLEM 99.5-pleasant, specific ltr,ratecard,CM from
v/s Ray R. Heaton, WA0DYZ,E. (RW)
Mason City KLSS 106.1-ltr,record survey.v/s Phil Sonksen,CE. (RE)
Waterloo KFMW 107.9-ltr,CM. v/s Edward Tink(VP E.) (RE)
- Kansas Garden City KUPK 97.3-ltr,unsigned.v/s Rick Cheatum,CE info sheet,
specific card,CM. my report most distant. (RW)
Lawrence KANU 91.5-specific ltr, prgm guide, dial card,info.
v/s Steve McComas,PrpPromo Dir. (RW)
Leavenworth KCLO 98.9-specific ltr on attractive ltrhead.
v/s Art Pemberton, PD. (RW)
Scott City KFLA 94.5-pleasant,specific ltr.v/s Claude Van Horn,CE.(RW)
Topeka KSWT 107.7-totally inspecific,impersonal xeroxed form ltr
no name, no details, and dial cards. from James A. Campbell,Tech,Dir.
(RW)
- Kentucky Madisonville WFMW 93.9-ltr from Millie Van Sandt(unsigned)
in one year and 4 days. no date or ~~him~~.returned my ltr,date sheet.
CM. (RW)
- Louisiana La Place (Garyville) WCKW 92.3.ltr,tech info. v/s Sidney
Levit,III(K5BQI),Pres&CE. (PD)
- Maine Augusta WFAU 101.3-verified my postcard on 2nd try. v/s Joseph
Roy,CE. (Ed)
- Mass North Adams WMNB 100.1. verified my postcard on 2nd try.
cannot make out v/s, but is from mgr. (Ed)
Waltham WCRB 102.5-QSL card/ v/s Kevin Mostyr,CE. (RE)
Williamstown WCFM 91.9-verified my QSLform,with handwritten
note on ltrhead. v/s Barbara Rubin,Pres. (Ed)

Contributors:

AE-Albert Ellis,Brantford,Ontario Ed-ye old editor
RE-Richard Eddie,St.Louis,Missouri
RW-Richard Wood,Baton Rouge,Louisiana
PD-Pat Dyer,San Antonio,Texas

SERVING THE
VHF-UHF DX
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