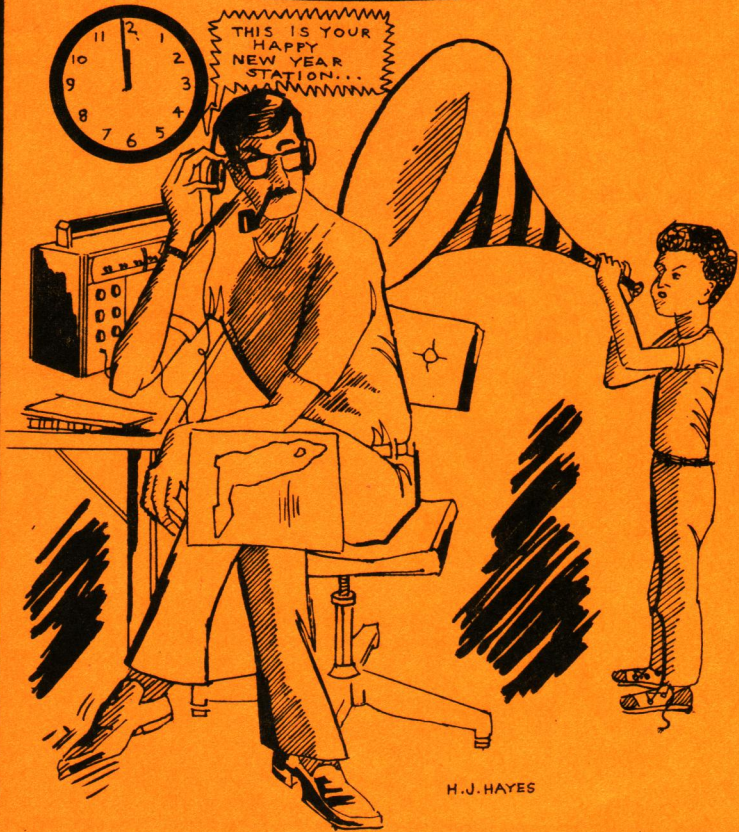


VHF-UHF DIGEST

HAPPY NEW YEAR 1973



publishers' notes...

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

NEW YEAR'S GREETINGS! With this issue, the first of 1973, WTFDA begins its sixth year of operation! Today's VUD looks quite a bit different than those of five years ago. We like to think that each year will bring us a better VUD and many more new members. And what a super year we should have in '73, the "year of DX"!

WTFDA CONVENTION ANNOUNCED... Well, now's your chance to start planning early to attend the 1973 WTFDA convention! It will be hosted by Bob Seybold in Dunkirk, New York. Bob also hosted the the 1970 WTFDA gathering and even has experience as an AIPA convention host. We have no exact date to announce this month, but the likely dates are the last weekend in July or the first weekend of August. We hope to have a confirmed date in time for the February issue.

WTFDA CHANGES PRINTERS... This first issue of 1973 is also the first by a new printer. We were most satisfied with the work of our former printer, but increased rates made the change a matter of necessity. Our new printer is using the same equipment as the former printer, and we expect little, if any, change in the mechanical format of the VUD.

TWO "SPECIAL" ISSUES STILL AVAILABLE... A supply of two back issues thought to be sold out has suddenly appeared! The issues are July 1970 and August 1971. Neither is a small issue by any means. A great opportunity for our newer members. While supply lasts, 75¢ each.

FCC TV COLUMN CHANGE... Chuck Dobbins has informed Hq that he will no longer be able to continue as an editor. Chuck has done a fine job with the TV column, as he did with FM before Bruce Elving took over. A replacement editor will be announced shortly.

DX IN DECEMBER... DX wise, 1972 went out in style. The month brought several interesting Es openings, meteor scatter, and a UHF duct or two. Speaking of ducts, many members are starting to realize that they occur far more frequently than previously thought. Why not form a telephone "DX network" in your area to alert others of improving conditions. You'll catch many more openings in this way.

DUES CONFUSION... A number of members have been enclosing checks for the wrong amount when they re-up. The dues structure and supply prices are printed on the back cover of each issue. Please refer to your latest issue when making payments.

OUR COVER CARTOON... This month's cover is by member Jim Hayes. Our thanks to Jim for a great cover to start the new year. Cover and cartoon ideas are still needed.

FM REPORT FORMAT... The question of what is the best way to present FM column DX reports still goes unanswered. How would you like to see reports presented? How much information should be included with each logging? Do you favor the elimination of re-logs from printed reports? What information would you like to see that isn't being presented? What information do you consider as wasted space? Please send your comments on these questions to your FM editors.

73 in 73!

Gary and Morrie

FCC TV NEWS

Bruce F. Elving, Editor
1646 No. Prospect Ave. - Apt. 414
Milwaukee WI 53202

I want to thank all who sent Christmas cards, and hope all had a fine [and DX filled] holiday season!

New Construction Permits

Montgomery AL *90.7 10
Elk Grove CA *90.1 10
Danbury CT *91.7 10
New Haven CT *88.7 1700 h,v; 150'
West Haven CT *88.7 1700 h,v; 150'
[Above two confirmed by FCC; it is believed they will share time and possibly be directionalized to protect the new Hamden CT *58.7 10-watt.]
Preston ID K288AG 105.5\$ 10 [To relay KSL-FM Salt Lake City UT]
Knoxville IA 92.1 3000 h,v; 300'
Knoxville-Pella IA 92.1 3000 h,v; 300'
[Above two stations to share time]
Gorham ME *91.1 10
Piscayune MS 106.3 3000 h,v; 177'
Butte MT *91.5 10
Bellevue OH 92.1 1100; 125'
Findlay OH *88.3 10
Bethlehem PA *91.3 10
Oak Ridge TN 100.3 100,000 h,v; 2000'
Teasdale UT K257AC 99.3\$ 10 [To relay KALL-FM Salt Lake City UT]
Wayne County (rural) UT K296AC 107.1\$ 10 [To relay KALL-FM]
Charlottesville VA K257AA 99.3\$ 1 w [To relay WIVE-FM Ashland VA]
Virginia Beach VA 94.9 50,000 h,v; 467'
Beckley WV *91.7 10,500 h,v; 920'

On the Air and DX Ready!

Talladega AL WHTB 92.7 250 h,v; 870'
Thomasville AL WJDB-FM 95.3 3000 h,v; 300'
Rio Vista CA KRVM *90.9 10 w [Calls, too]
Melbourne FL WTAI-FM 107.1 3000; 300'
Rexburg ID KRIC *90.1 10
Brazil IN WUCM-FM 97.7 3000 h,v; 190'
[See Andy Bolin's report, last month]
Crown Point IN WFLM 103.9 3000 h,v; 300'; MOR format 6 am-Midnight.
Lowell IN WLCL 107.1\$ 3000 h,v; 300'; 5:30

a.m.-Midnight, modern country format.
Thanks to John Zondlo for information on the two preceding.
Williamsport MD WYII 95.9 3000 h,v; 300'
Gaylord MI WWRM 106.7 or ~~WWRM~~-FM 50,000 h,v; 570'
Moberly MO KHTS *90.1 10
Lubbock TX KLSO *91.1 10
Petersburg VA WPAV-FM 95.3 3000 h,v; 240'

Licensed with New Facilities (Selected)

Chicago IL WEFM 99.5 6000 h,v; 1170'
Conroe TX KNRO-FM 106.9 100000h,v; 240'
Dual-City Identifications Granted
Brookline MA WBOS 92.9 to Brookline-Boston
Medford MA WVEL 107.9 to Medford-Boston
Ridgway PA WKBI-FM 94.3 to Ridgway-Johnsbury
Deletions
Port Huron MI *91.9 WFCL -- Confirmed by FCC, although a later item in Broadcasting contradicts this, saying their construction permit has been extended to 5-10-73.
Dayton TN 104.9

Changes in New and Existing Stations

Salinas CA KRSA-FM 100.7 to 910 h,v; 2420'
San Francisco CA KCSB-FM 98.9 4300 h,v; 1450'
KSFZ 103.7 7000 h,v; 1450'
KFOG 104.5 1444' (13500)
San Luis Obispo CA KUNA 96.1 to 38000 h,v; 1410' \$, Dennis Smith?
Waterbury CT WIOF [W-104] 104.1 12,500 h,v; 600'. \$?
Washington DC WGTB *90.1 10,000; 285'
Atlanta GA WRFG from *91.9 to *89.3 10
Bangor ME WABI-FM 97.1 adds V
Boston MA WHDH-FM 94.5 6700 h,v; 1140' **
East Lansing MI WKAR-FM *90.5 910'
(125,000) **Now WCOZ (WHDH-FM) Thanks, R. Steinberger, Hudson MA.

Petoskey MI WBNM-FM 96.7 1000 h,v; 320'
Waynesboro MS WABO-FM 105.5 145' (3000h,v)
Springfield MO KTTB-FM 94.7 29000 (660') \$
Carson City NV KNIS 94.7 60,000 (2150') \$
Cambridge OH WILE-FM 96.7 adds V
Cincinnati OH WKRG 101.9 2300 h,v; 690'
Middleton OH WPBF 105.9 34000 h,v (410')
Yellow Springs OH WYSO *91.5 2400; 390'
Hazleton PA WVD 97.9 25000 h,v; 660'
Pittsburgh PA WJAS-FM 99.7 10500 h,v; 930'
Williamsport PA WILQ or WILQ-FM *105.1 adds V [Calls changed from WLYC-FM]
Lebanon TN WGOR-FM 107.3 9000 (173')
Red Bank TN WSM 94.3 22' (3000 h,v)
Houston TX KRLY 93.7 97000 h,v (790')
Appleton WI WAPL-FM 105.7 48000, 215' h; 3800, 200' v.
Ft. Atkinson WI WFAW-FM 107.3 adds V
Kenosha WI WLIP-FM 95.1. Permit cancelled for power increase. Remains 6190; 256'.
Oshkosh WI WRST from *88.1 to *90.3, 960; 125'. Adds \$.
Call Letters Assigned

Upp AL 102.3 WAMI-FM
Troy AL 105.7 WTUB
Arcata CA *90.5 KHSU (was KHSC)
Tulare CA 106.7 KNWSM (was KNNU)
Elberton GA 92.1 WSGC-FM
Waterloo IA 107.9 KRFM (was KWWL-FM, reports Dennis Koe. \$ rock format continues, he says.)
Barbourville KY 93.5 WTVY-FM
Grand Rapids MN 96.7 KOZY-FM
Richfield MN 101.3 WRAH (was WPBC-FM)
Rolla MO 105.3 KZNN
Greece NY *90.1 WGMG
Circleville OH 107.1 WNRK-FM (was WNRK)
Hilton Head Island SC 106.3 WHHR
Morristown TN 95.9 WAZI (was WMTN-FM; goes to rock, according to Broadcasting)
Cleveland OH 105.7 WWWW (WKYC-FM/WGAY)
Columbus OH 96.3 WTVN-FM (WBUK)

COMMENTS FROM READERS

A new, powerful \$ pirate radio station in Syracuse NY operates on *90.3, Allen Rockford reports, calling itself "WNSR." It supplants now-defunct "WMOG." Which makes me wonder if "KRJB-FM" 107.3 Mankato MN still operates; I have a verification from its young owner.

J. A. Markewicz, Winnipeg, reports KBHB 101.1 Bemidji MN to be monophonic, and his seventh best FM signal. He wonders if KANR 98.9 Great Falls MT is country and western, and if anybody has ever verified the telephone talk station, KLIO-FM 92.3 Portland OR. Mike Northan, Portland, says NQIV 106.7 is in Lake Oswego (not Milwaukie) OR, quad stereo [K-Q-4], progressive rock albums.

Anybody know of a good, up-to-date listing of SCA-equipped FM stations? Please send the info to this column and I'll pass it along to an Atlas reader having a special interest in the subject. In Maine, an FM Atlas reader has heard the new WGHM-FM [which will be changing its call letters to WTOS] testing in \$ on 105.1 from Skowhegan. An article in the Bangor Daily News reports the station expects to have a 200 mile coverage radius [I estimate 80 miles!], transmitting from Sugarloaf Mt., Kingfield with 25000 h,v; 4237' above sea level. Its automated, "up-tempo, easy listening programming" was to begin in mid-December. Richard Steinberger writes that it will initially operate 6 p.m.-Midnight. And WAGY 102.1 Springfield MA is now \$ rock and "sounds automated."

The FCC [not exactly a reader of this column] informs that KLRK *90.5 Little Rock AR will have 3600 h,v; 265'; WCLA-FM 107.1 Claxton GA will be 3 kw h,v; 195'; WKDU *91.7 Philadelphia is only 10 watts [shares time with WFWT]. WZAR 101.9 Ponce PR is 11500 h,v; 2580'; WIPR-FM *91.3 San Juan is 125,000 h,v; 2720' [leaving WJFM still the highest-power FM station licensed by the FCC], and WMLD 96.9 Manati PR has a height of 0'.

FREQUENCY MODULATION STATIONS IN SANTO DOMINGO, D. R.

With the kind help of César F. Objío, Santo Domingo, we are able to present this listing, based on Mr. Objío's own listening and observations. He notes that some stations are announcing FM but not using it (Radio Guarachita-690, Onda Musical-1150, etc.). This perhaps accounts for the great discrepancy between the following and the U. S. Foreign Broadcast Information Service (CIA) list. Other stations, Mr. Objío notes, are using FM frequencies outside the 88-108 MHz band, and are not listed, as are not stations located in the country's hinterland. Power and antenna heights are estimated, with most stations contacted not knowing what the caller meant by "power." Antennae are usually modest structures atop 3- or 4-story buildings. The symbol [-] used by itself after call letters implies a studio-AM transmitter link, with FM broadcasting only incidental to the station's purpose.

HJJP-FM	95.1\$	10,000	150'	Radio Comercial
HJJB	95.9\$	1,000	100'	HJJB
HJSD-	96.1	500	50'	Radio Televisión Dominicana
HJMS-	96.5	100	30'	Radio Cristal
HJG-	97.0	50	15'	Radio Difusora HIG
HJGO	97.5	100	50'	Radio HJGO
HJAT-	98.0	50	15'	Radio Universal
HJL-	98.2	50	15'	La Voz Del Trópico
HJXZ	99.1\$	100	50'	Radio Listín
HJLX	102.0	200		Radio Centro Estéreo [not \$]
HJBE-	103.0	100	50'	Radio #11
HJBA-	103.5	50	30'	Radio Reloj de Emisoras Unidas
HJND	104.5	500	50'	Radio Ciudad Primada
HJCA-	105.0	50	50'	Radio ABC
HJLR-	105.5	1,000	50'	Radio Clarín
HJIT-	106.8	50	50'	Radio Visión
HJFA	107.1\$	1,000	100'	La Voz de las Fuerzas Armadas

Corrections or additions to this list are, of course, most welcome.

FCC-FM NEWS, Continued The FCC confirms that the following stations are definitely deleted: KOOM 107.1 Benton AR, WWJS 95.3 Falmouth KY, and [see "deletions," previous page] WFCI *91.9 Port Huron MI. The following, reported silent or not yet on the air, are NOT deleted: WGCT *90.1 Guilford CT, WKYX-FM 93.3 Paducah KY, KZAK-FM 93.1 Tyler TX. A number of "educational" stations, listed in the Journal of College Radio, the FCC has no knowledge of. These may be confined to CATV distribution or be true pirates. The list includes "KAPA" *89.7 at the U. S. Air Force Academy CO and "WHCR" *88.9 Tiffin OH.

In the preceding paragraph and on page 1, you'll note that I am beginning to use quotation marks around certain sets of call letters or portions of call letters. I find it convenient to adopt a Glenn Hauser practice of using the quote marks around what I believe to be a variant use or assigning of call letters, in much the same manner as he does around Canadian stations beginning with "CB. . ." J. Joel Rosenberg, Downsview, ON, Canada, says to use the LEGAL call as assigned by the FCC or CRTC. "After all, who are we, the DXers, to argue with the decisions/wishes of the government and stations, the people who provide us with the hobby?" I do not agree that DXers have to be all that passive — in fact, we as concerned, alert listeners should work more prominently in apprising stations of the good [and bad] that they do; and, if necessary, participate in petitions to deny station licenses.

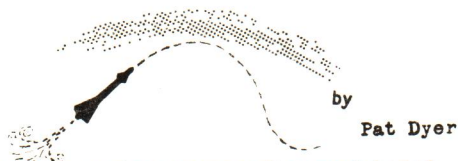
Getting back to call letters and quotation marks—I will, for a while at least, indicate the full set of assigned call letters — even for FM stations assigned six call letters when not having a like-call lettered AM or TV affiliate, but the added calls [which may be a mistake or oversight on the part of the FCC, as easily as it may be intentional] will be set off with quote marks. Thus KGRF becomes KGRF"-FM." In last month's VUD, WWRM Gaylord MI should have thus been WWRM"-FM."

Another Canadian reader, Al Ellis, Brantford ON, complains of the poor audio quality feeding WBIV 107.7 Wethersfield NY, and disputes that this station, at least, is \$. He also finds the programming of the Christian Broadcasting Network to leave much to be desired. Al says WYSU *88.5 Youngstown OH was off the air for almost three months because of antenna work, returning Nov. 26. Oxidation of the antenna and pollution in the air plagued both WYSU and WPHD 103.3 Buffalo NY. Variety reports pollution is forcing WPHD to locate its antenna at the same site as WYSL (AM). New \$ stations are 10-w KAUR *89.1 Sioux Falls SD, KGOY 104.9 Bethany OK, KLCO-FM 98.3 Poteau OK, while KMDD 97.5 Tulsa is reportedly off the air, and awaiting a hearing in its sale bid to one of the owners of WGGP 105.1 Duluth MN. Not heard on a trip in OH in November: WERM 92.1 Wapakoneta and WHBM 103.9 Xenia, both owned by the H. B. Miller family. Anybody heard these stations lately? Also in OH news, Kenyon College, Gambier, plans a 10-watt FM station, as does the Bexley [OH] high school.

Bill Dickerman, Williamsport, says WKOK-FM 94.1 Sunbury PA should increase power to 12500 h.v; 875' by Jan. 1. WILQ 105.1 Williamsport will be country 6 am-6 pm; rock 6 pm-6 am. Currently, they operate with rock until 2 am. WMPT-FM 99.3 S. Williamsport resumed 24-hour operation, he reports.

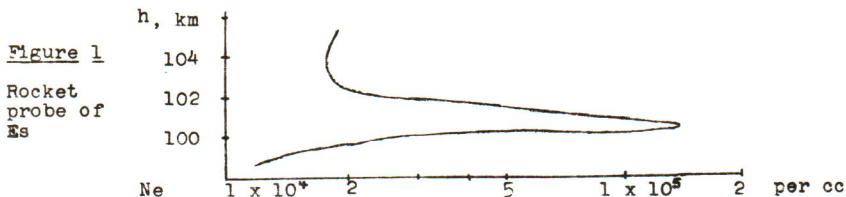
The FCC has proposed a rule to limit the use of the stereo pilot subcarrier during periods when an FM station is broadcasting monaural programs. Although not yet in effect, I've noticed many stations now turning off their stereo pilot during news or during the playing of monophonic records. A much-needed rule, in my opinion. 73, R

Es in Depth



Part I of this series dealt with the various means of ground-based radio probing used to measure the condition of the ionosphere, in particular Es.

Rocket shots into Es regions were first made in the late 1940's. What they found was not too unexpected, i.e., a sharp rise in the electron density at the height of the Es patch as shown on the ionogram. Figure 1 is a typical example, though the shape of the peak varies in case to case and often exhibits much 'fine-structure'.



Up to now I've avoided the mention of electron densities. The reason is that there is some disagreement in what rockets find and ionograms imply.

Classical electro-dynamics shows that an electromagnetic wave at a vertical incidence to an ionized region will undergo full reflection when the electron density per cubic centimeter (cc) is: *

$$N_e = 1.24 \times 10^4 \cdot f^2$$

with f (frequency) in MHz. For the more inquiring, this is when the refractive index reaches zero. From Snell's Law in optics the solution for oblique incidence (the Secant Law) is found. (See July 1972 VUD VHF Radio, p. 12).

Simple calculations using the table there enable one to see that for a Ch 2 MUF we need N_e 's on the order of 10^6 (a million free electrons/cc). The big stumble occurs in that the rocket probes are always finding peaks in the range 10^5 , a factor of ten too low.

In 1968 it was determined that these rockets were finding agreed very well with what had been labelled as fbEs (the blanketing frequency) on the ionograms, not foEs etc. Thus the preference of calling the highest Es reflection from the ionosonde fEs instead of foEs as it appeared behave like a critical frequency should. Part III on theory will get into this dispute more.

Rocket probes can use two main methods to determine the ambient electron density in flight. One involves what is known as a Langmuir probe where a fixed-voltage is maintained across two points (one often being the rocket body itself) and the current read. The other method requires the use of two harmonically related signals transmitted from the rocket with the accurate recording of the phase differences as received on the ground. The latter system has the difficulty of Es often soaking up (or shielding) the lower frequency signal from the rocket after it is in (or above) the Es region.

* for those not familiar with scientific notation

$$10^2 = 100 \quad 10^3 = 1000 \quad 10^4 = 10,000 \quad \text{etc.}$$

	Temp, °K	# particles per cubic cm
sea level	288	2.6×10^{19}
100 km (Es height)	200	7.8×10^{12}
400 km (F2 region)	1480	2.8×10^8

As can be seen in the above table, the particle number density at Es heights is about one ten-millionth of what it is at sea level. The temperature is down (ice melts at 273 Kelvin), though not much.

So even with a million free electrons per cc, that is but only one out of every million particles at Es levels. Compared to F2 densities, that leaves a lot of neutral particles for the electrons to collide with and thus cause signal loss.

The main molecular constituents at the E-layer heights are NO (nitric oxide) and O₂ (molecular oxygen). Thru the ultraviolet (mostly the Lyman wavelengths of hydrogen) and x-ray radiation from the sun these are changed as:



(h, Planck's constant; ν , the frequency of the ionizing 'light'
the product is the energy required to free the electron)

So, now you see how we get our free electrons. Though radio signals can affect the positive ions, the relatively high masses (and thus high inertia; NO⁺ is some 60,000 times as 'heavy' as a free electron) limit the results. The electric field of the signal causes the charged particle to undergo a force, $F = qE$ (q, charge; E, electric field intensity). Now, from Newton we have $F = ma$ (m, mass; a, acceleration). Invoking a little algebra, the answer is:

$$a = \frac{qE}{m}$$

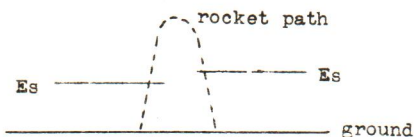
In January 1966 a rocket over New Mexico carrying a mass spectrometer (a device using electric and magnetic fields to sort out the positive ions by their masses) found what so far has been one of the most important discoveries in Es research. In a strong Es layer high levels of metallic ions were located, such as sodium, magnesium, iron, etc. The normal NO⁺ density was curiously found to be depressed within the layer as well. The free electron count was the 'usual' for Es. Similar rocket flights into Es since have upheld this general finding.

The positive metallic ion species (varieties) are long-lived (i.e., they have a very low coefficient of recombination) with lives on the order of days compared to magnitudes shorter for NO⁺. So in effect, the regions of positive metallic ions (being so 'reluctant' to recombine) were allowing a high concentration of free electrons to build up, which in turn was actually decreasing the normal (NO⁺) ion species by enhanced recombination.

On some flights rockets are able to make Es measurements on the downleg of the flight. Results there can reveal any layer tilts. Those cases show the majority of layers have tilts well under a degree (see Smith and Mechtly, Rocket Observations of Sporadic-E Layers, March 1972 Radio Sci.)

Often on rocket flights there is a problem of more than one peak in the ionization density. In effect, that is multiple layers. As seen in Figure 1 below this can cause very large errors in tilt calculations if layer identification is not carefully maintained.

Figure 2



For reasons more evident in Part III, there is a great need to be able to sample the Es structure in a horizontal direction within the layer. As Figure 1 showed, the region is extremely thin as ionospheric layers go, usually in the range of a kilometer (0.621 mile).

There have been some satellite observations of Es, using mostly the topside ionospheric sounder (a satellite-borne ionosonde aimed down). However, as the F region has to be penetrated first in these cases, there are complications and limitations in interpreting the ionograms (e.g., Es below foF2 cannot be detected). (see Cathey, Some Midlatitude Sporadic-E Results from the Explorer 20 Satellite, Journal of Geophysical Research, 74 (1969), pp. 2240-2247)

Other satellite measurement methods are possible, such as measuring the deviation angle of arrival of a signal from the line-of-sight path. Faraday rotation (shifting of the signal polarization) is also useful in indicating electron densities. However, none of these has been particularly useful for Es investigations.

There are even more exotic modes that could be used for Es probing. Faraday rotation from a moon-reflected radar signal is one. Also, the observation of relatively stable extraterrestrial signal sources (i.e., various cosmic-noise generators) is very useful in noting the passage of ionospheric irregularities. (See NBS Monograph 80, pp. 248-253).

Next time, Part III with notes on theory mixed with personal opinions.

The March 1972 issue of Radio Science is devoted entirely to some of the papers presented at the Third Seminar on the Cause and Structure of Temperate Latitude Sporadic E, held at Utah State University in September 1971. Though most of the papers are highly mathematical in nature, some make for much easier reading. Issue copies are available for \$ 5 from:

American Geophysical Union
Sixth Floor, 1707 L Street, N.W.
Washington, D.C. 20036

The February 1966 issue covering the results of the first conference (June 1965 at Estes Park, Colorado) might be available also (originally at \$ 1). The second meeting (June 1968 - Vail, Colorado) had its results printed in a limited number of 'Conference Proceedings', perhaps still available from the Institute for Telecommunication Sciences, Boulder, CO 80302. A similar publication for the 3rd gathering was made and includes several papers (one by Mel Wilson) not used in Radio Science. Best chances for catching these in libraries would be with the science departments of large universities.

Deadlines:

Glenn Hauser

12 January

Box 62

13 February

Von Ormy TX 78073



NEW FMDX RECORDS, 88-103 MHZ

Contributors! Cooper, Dyer, Ebeling, Elving, Hauser, LeBlanc, Moe, Ossowski, Remington, Sawatzky, Seybold, Wood, Yingling. Thanks to you all.

Mhz	Prop	Call	Location	Miles	Dxer, Location	Old Record
90.3	Au	WPLN	Nashville TN	685	John Ebeling, Bloomington MN	WMKY 500 Fela
90.5	Tr	WKAR	East Lansing MI	930	Richard Wood, Baton Rouge LA	KXCV 790 Hauser
90.7	Au	KWUU	Saint Louis MO	725	Bruce Elving, Duluth MN	none
90.9	Tr	WILL	Urbana IL	570	Ron LeBlanc, Marrero LA	WILL 705 Bishop
91.7	Tr	WHRS	Boynton Beach FL	725	Richard Wood, Baton Rouge LA	KOSU 585 LeBlanc
93.7	2E	WJIT	San Juan PR	2275	Robert Cooper, Oklahoma City OK	KTBC 1475 Nordquist
94.7	MS	WPTF	Raleigh NC	1060	Glenn Hauser, Enid OK	WJMD 925 Elving
97.1	Es	KWXI	Fort Worth TX	1375	Richard Wood, Medicine Hat Alta	KWIC 1305 Brown
98.1	Es	KTAL	Texarkana TX (LA)	1455	Richard Wood, Medicine Hat Alta	KABL 1370 Cooper
98.5	Es	KPAC	Port Arthur TX	1635	Richard Wood, Medicine Hat Alta	WROR 1480 Cooper
98.9	Es	KRNY	Kearney NE	1350	Shelby Remington, New Haven CT	KCBS 1345 Hauser
100.7	Es	WDAA	Tampa FL	1410	Bruce Elving, Duluth MN	WDAA 1310 Ebeling
	Tr	WJTS	Jackson TN	790	Bruce Elving, Duluth MN	now 104.1 WBIZ 715 Cooper
100.9	Es	XHTO	Ci Juárez Chih	1290	Bruce Elving, Duluth MN	XHTO 1170 MGCormack
101.3	Tr	KWBB	Wichita KS	685	Bruce Elving, Duluth MN	now KPFI 645 Brown
	MS	KQTY	Wichita KS	540	Glenn Hauser, Albuquerque NM	was KWBB; now KFDI none
101.7	Tr	WTGR	Myrtle Beach SC	620	Shelby Remington, New Haven CT	WYFI 475 Howington
102.7	Tr	KWHG	Lincoln NE	890	Robert Seybold, Dunkirk NY	WRVM 810 Cooper
	MS	KCYS	Richland WA	1015	Glenn Hauser, Albuquerque NM	now KORD- none
103.5	MS	WBIR	Knoxville TN	770	Glenn Hauser, Enid OK	KSYM 575 Hauser

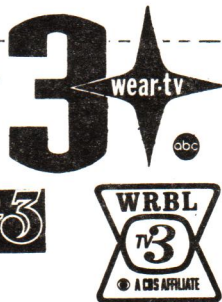
104 MHZ FMDX RECORDS

104.1	Es	KRBE	Houston TX	1320	Fred MGCormack, Des Lacs ND	
	Tr	WJEM	Jerseyville IL	840	Fred MGCormack, Des Lacs ND	
	MS	WLAG	La Grange GA	1025	Bruce Elving, Duluth MN	
	Au	WIKY	Evansville IN	560	John Ebeling, Bloomington MN	
104.3	Es	WRKT	Cocoa Beach FL	1420	Bruce Elving, Duluth MN	now WKPE 104.1
	Tr	KBEY	Kansas City MO	630	Richard Wood, Baton Rouge LA	
	MS	WOMC	Detroit MI	885	Glenn Hauser, Enid OK	
104.5	Es	WEAT	West Palm Beach FL	1880	Fred MGCormack, Des Lacs ND	
	Tr	WEAT	West Palm Beach FL	715	Richard Wood, Baton Rouge LA	
	Au	WWST	Wooster OH	635	John Ebeling, Bloomington MN	
104.7	Es	WBOC	Salisbury MD	1450	Glenn Hauser, Von Ormy TX	
	Tr	WJLN	Birmingham AL	960	Bruce Elving, Duluth MN	
	MS	KRES	Moberly MO	825	Glenn Hauser, Albuquerque NM	
104.9	Es	KVOE	Emporia KS	1275	Dennis Smith, Wasco CA	
	Tr	WNRE	Circleville OH	680	Bruce Elving, Duluth MN	now 107.1

Contributors! Dorner, Dyer, Ebeling, Elving, Fela, Hauser, Hobday, Howington, Le Blanc, McCormack, Merrill, Sawatzky, Smith, Vogt, Wood. Out of hundreds of members!

CHANNEL 3 MS TV DX RECORDS

Call	Location	Miles	Dxer, Location
WEAR	Pensacola FL (AL)	800	Steve Weinstein, Pittsburgh PA
WRBL	Columbus GA (AL)	840	Bill Draeb, Kewaunee WI now in GA
KTVK	Phoenix AZ	870	Richard Lowry, Temple TX
KIEM	Eureka CA	880	Jim Grover, Crossfield Alta
KCRA	Sacramento CA	1215	Glen Neal, Sayre OK
KEYT	Santa Barbara CA	775	Ed Hepp, Portland OR
WTIC	Hartford CT	990	Jerry Dee/Easter, Waterloo IA
WSAV	Savannah GA	1085	Glen Neal, Sayre OK
KID-	Idaho Falls ID	1000	Ken Neal, Hamlin TX
WCIA	Champaign IL	1020	Chislain Girard, Arvida PQ
WAVE	Louisville KY (IN)	1040	Fred MGCormack, Des Lacs ND
KGLO	Mason City IA	1045	John Cody, Middletown CT
KARD-	Wichita KS	1330	John Cody, Middletown CT



STATISTICS

JANUARY 1973

KATC	Lafayette LA	1180	Mark Lewis, Downsview Ont
KTBS	Shreveport LA	1085	Mark Lewis, Downsview Ont
WJMN	Escanaba MI	870	Roy Barstow, Teaticket MA
WKZO	Kalamazoo MI	910	Ed Bourgeois, Norco LA
KDAL	Duluth MN	1465	Doris Johnson, Longview WA
WLBT	Jackson MS	1250	Fred McCormack, Des Lacs ND
KTVO	Kirksville MO	695	Fred McCormack, Des Lacs ND
KYTV	Springfield MO	1115	John Cody, Middletown CT
KRTV	Great Falls MT	455	Fred McCormack, Des Lacs ND
KMTV	Omaha NE	1300	Ray Barstow, Teaticket MA
WSYR	Syracuse NY	1235	Glenn Hauser, Enid OK
WBTW	Charlotte NC	950	Glenn Hauser, Enid OK
KYW-	Cleveland OH	1100	Carlton Howington, Homestead FL
KYW-	Philadelphia PA	1130	Les Prus, Manhattan KS
KDLO-	Garden City SD	1265	John Cody, Middletown CT
KOTA-	Rapid City SD	1175	James Habermehl, Clarington OH
WRGP-	Charranooga TN	810	John Cody, Middletown CT
WRBC-	Memphis TN	895	Pat Dyer, Gunbarrel Hill CO
KBTX-	Bryan TX	1135	Steve Weinstein, Pittsburgh PA
KFDX-	Wichita Falls TX	1105	Steve Weinstein, Pittsburgh PA
WSVA-	Harrisonburg VA	295	Richard Nieman, Buffalo NY
WTAR-	Norfolk VA	1135	Ed Shorey, Derby KS
KLEW-	Lewiston ID (WA)	815	Jim Pizzi, Orcutt CA
WSAZ-	Huntington WV	1095	Jim Himes, Joes CO
WISC-	Madison WI	905	Ed Bourgeois, Norco LA
CFRN-	Edmonton Alta	875	Eddie Albright, Medford OR
"CBWFT"	Winnipeg Man	975	Robert Cooper, Oklahoma City OK
CJBR-	Rimouski PQ	845	James Habermehl, Clarington OH
CKOS-	Yorkton Sask	1135	Charles Wood, Ashland OR
CMH-	Santa Clara Cuba	1260	Richard Lowry, Temple TX
XEM-	Mexicali BCN	1010	Doris Johnson, Longview WA



now WKYC
was WRCV

now WRGB

WSVA-TV



WSAZ-TV

was ch 6

now XHBC

Among the many ch 3 stations for which we have no MS DX records are these!



WCAX-TV Channel 3

Others include KTWS, WEDU, WSIL, KYUS, KORK, WWAY, KVDO, WPSX, KIII, "CBHT", CKVR, XEFB, XHP, XHY, WIFM. If you have seen any of these by MS, you owe it to yourself to reveal it.

CHANNEL 21 TV DX RECORDS

K71BC	Lemon Cove CA	65	Dennis Smith, Wasco CA	Primary
W71AE	La Salle IL	605	Robert Cooper, Oklahoma City OK	KFSN-30
K71GE	Ottumwa IA	470	Robert Cooper, Oklahoma City OK	WMED-31
K71BP	Great Bend KS	205	Robert Cooper, Oklahoma City OK	KHQ-7
K71BO	Herington KS	215	Robert Cooper, Oklahoma City OK	KNAKE-10
K71CG	Willmar MN	375	Fred McCormack, Des Lacs ND	KAKE-10
K71BJ	Mooreland OK	105	Robert Cooper, Oklahoma City OK	WCCO-4
K71EK	Gruver TX	220	Robert Cooper, Oklahoma City OK	WKY-4
K71BH	Turkey TX	95	Glen Neal, Sayre OK	KGNC-4
K71BG	Wellington TX	45	Glen Neal, Sayre OK	KGNC-4
W71AC	Rhineland WI	125	Bill Draeb, Kewaunee WI	KFDA-10
				now off WFRV-5

CHANNEL 22 TV DX RECORDS

W72AN	Gary IN	195	Bill Draeb, Kewaunee WI	WCAE-50
KS2XCA	Montpellier IN	370	David Kanaar, Buffalo NY	now off; airborne
W72AJ	Escanaba MI	95	Bill Draeb, Kewaunee WI	WLUK-11
W72AA	Iron Mountain MI	100	Bill Draeb, Kewaunee WI	WLUC-6, WBAE-2
K72DJ	Olivia MN	395	Fred McCormack, Des Lacs ND	WTCN-11
W72AQ	Great Valley Twp NY	100	Mark Lewis & J Joel Rosenberg, Downsview Ont	WNED-17
K72DU	Brownwood TX	170	Glenn Hauser, Von Ormy TX	KTXS-12
K72BZ	Childress TX	70	Glen Neal, Sayre OK	KSWO-7
K72CD	Clarendon TX	70	Glen Neal, Sayre OK	KVII-7
K72CB	Higgins-Canadian TX	60	Glen Neal, Sayre OK	KFDA-10
K72BN	Knipka & Uvalde TX	65	Glenn Hauser, Von Ormy TX	WOAI-4
K72DN	Leakey TX	75	Glenn Hauser, Von Ormy TX	KENS-5
K72DW	Mason TX	100	Glenn Hauser, Von Ormy TX	KTBC-7
K72BD	Miami TX	60	Glen Neal, Sayre OK	KGNC-4
K72BB	Texhoma TX	145	Glen Neal, Sayre OK	KGNC-4





VHF UTILITY DX

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

JANUARY 1973

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

<u>8-3:</u>	1403, -	132.5	near Lancaster, PA (TWA 73; Boeing 727-31;25w)
	1411, -	132.5	nr Pottstown, PA (TWA 143; Douglas DC-9; 25 w)
<u>6:</u>	1456, N7643J	119.7	12 mi se Friendship Apt, Baltimore, MD (Clipper Flying Club, Inc.; Piper Cherokee; 1500')
<u>7:</u>	0237, KKA 614	37.26	Denton, TX (police, 100 watts)
<u>10:</u>	0033, N5118G	119.7	ov Bay Bridge Apt, MD (Civil Air Patrol, Maryland Wing; Piper Cherokee; 1-eng, 4-seat; 2K ft)
<u>9-17:</u>	1926, D-ABUO	128.3	ov Sea Isle, NJ (Lufthansa 494; Boeing 707C; 25w)
<u>23:</u>	2030, N92428	134.5	ov Cambridge, MD (Professional Flight Services, Cessna 182; 1-engine, 4-seat; 3,000 ft; 10 w)
<u>24:</u>	1512, N362G	122.1	nr Dulles Apt, Wash., DC (General Electric Co.; Grumman Gulfstream I; 2-eng, 21 seat; 18K ft; 25w)

Richard T. Colgan, P.O. Box 18268, Serna Station, San Antonio, TX 78218
Realistic PRO-2; Petersen HL-44; Midland 13-920; A/S MON-8, A/S MON-13,
Ground Plane at 40 feet; GMT used.

<u>8-7:</u>	0201, KJL 692	42.02	Gray, GA (sheriff)
	0216, KBJ 642	45.10	Collin, MS (police)
	0254, KKY 729	39.50	Covington, LA (state police)
	0331, KFO 856	39.50	Lockport, LA (sheriff)
<u>16:</u>	0305, KAG 526	39.90	Valentine, NE (sheriff)
<u>20:</u>	0021, KIL 218	37.30	Crawfordville, FL (sheriff)
	0036, KKD 616	39.50	Livingston, LA (sheriff)
	0041, KKE 860	39.50	Lafayette, LA (state police)
<u>21:</u>	2358, KSA 938	39.50	Bloomington, IL (sheriff)
<u>22:</u>	0123, KLV 285	45.06	St. Augustine, FL (state police)
	0135, -	35.46	Oakland, CA (mobile phone)
<u>10-10:</u>	0050, KLF 527	35.22	Honolulu, HI (pager, verified, 350 w)
<u>16:</u>	0014, KIN 645	35.22	Miami, FL (pager, A2)
<u>17:</u>	0000, KFN 721	42.02	Macon, GA (sheriff)
	0018, KIB 484	45.06	Melbourne, FL (state police)
	0104, KIB 593	42.02	Donalsonville, GA (state police)
	1720, KAF 996	39.90	Rushville, NE (sheriff)
<u>18:</u>	0224, KAA 984	37.10	Knoxville, IA (sheriff)
	0315, KAA 305	39.50	Garden City, KS (police)
	0327, KQW 462	39.90	Beaver Crossing, NE (local government)
<u>21:</u>	2001, KCI 981	33.70	Union, ME (fire)
	2017, KCC 921	33.90	Old Lyme, CT (fire)
	2038, KLR 503	33.08	Boston, MA (hospital)
	2059, KGX 978	33.70	South Berwick, ME (fire)

Now, to my loggings. Allied A-2586 with 30-ft indoor random-wire antenna; all are F2 unless noted; peak daily Latin American F2 MUF noted if 40 MHz or more; 50-MHz Es not given; new underlined; CST used.

<u>11-15:</u>	1220, KLR 503	<u>16:</u>	1029, KCC 482	20:	1414, Portland
	1226, KCC 482		1034, KCB 217		1424, Roseburg
	1230, KGD 344		1236, KCA 695		1430, <u>Bend</u>
	1239, KCB 897	<u>18:</u>	1319, KLR 503		1955, L Beach (Es)
	1240, KGB 360	<u>20:</u>	1240, 43.7 Spanish		2002, KIN 645 (Es)
	1255, KOA 796		1322, KLF 527		2003, KME 438 (Es)
	1258, KCB 217		1335, KOG 634	<u>21:</u>	1210, <u>KLL 390</u>
	KCE 475		1338, Eugene		1214, KOA 796
	1324, KDD 941		1349, KOP 303		1216, KOP 303
	1359, KCA 695		1352, KOA 796		1221, Salem
	1400, KBZ 283		1403, KOK 418		1234, KCB 217

VHF UTILITY DX

JANUARY 1973

21: 1235, KOK 418	26: 1200, KJE 934	28: 1501, KDB 386
22: 1202, KOG 634	1258, KCC 482	1539, KOG 634
1229, KOA 796	1259, KCE 358	12-2: 1843, KMA 829 (Es)
1233, KGC 482	KCA 695	1849, KQD 313 (Es)
1234, KOP 303	1308, KCD 658	1855, Pittsbg (Es)
1240, KCD 492	13--, KGC 524	1904, KME 438 (Es)
1249, KCD 823	1335, KLF 527	1942, KQC 884 (Es)
1300, KGC 957	1449, L Beach (Es)	1943, OK City (Es)
1318, KCD 472	1502, KME 438 (Es)	1949, KSJ 815 (Es)
23: 1000, EGL 706	27: 1158, KLR 503	1958, KDN 402 (Es)
25: 0919, KLR 503	1259, KGA 695	2036, KSD 326 (Es)
0924, KCD 586	KBZ 283	2115, KSC 645 (Es)
0935, 45+Spanish	1335, KCB 999	2232, L Beach (Es)
1041, KCF 246	1344, KCD 498	3: 1200, KGL 718
1046, KCK 671	1349, KOG 634	1914, KII 508 (Es)
1108, KCE 681	1415, KCC 482	4: 1120, KAI 927 (Es)
1136, KCC 482	1447, KCC 825	5: 1436, KII 508 (Es)
1141, KGG 651	1527, KCD 575	1457, KIN 645 (Es)
1145, KGD 390	1554, KCD 244	1528, KIF 651 (Es)
1147, NY City	28: 1018, KLR 503	6: 1855, KIN 645 (Es)
1733, KII 508 (Es)	1254, KCD 457	1953, KII 508 (Es)
1905, L Beach (Es)	1453, KCD 845	(add.
22--, KMA 829 (Es)	1500, KCA 695	11-26: 1038, KLR 503)

KAI 927 35.34	Denver, CO	KDN 402 35.54	Omaha, NE
KBZ 283 33.9	Gilford, NH-f	KGC 524 33.78	Dover, DE-sf
KCA 695 33.78	Manchester, NH	KGD 390 33.94	Boyertown, PA-f
KCB 217 33.90	East Lyme, CT-f	KGL 706 30.86	New York, NY-t
KCB 360 33 +	Leominster, MA-f	KGL 718 30.90	New York, NY-t
KCB 897 35.66	Portland, ME	KIF 651 35.58	Ft. Lauderdale, FL
KCB 999 33.78	Burlington, VT-f	KII 508 35.22	Orlando, FL
KCC 482 35.22	Concord, NH	KJE 934 33.90	Rochester, MA-f
KCC 825 33.70	Kennebunk, ME-f	KLL 390 35.26	Langlely, WA-mp(50w)
KCC 957 33.70	Bethel, CT-f	KMA 829 35 +	San Diego, CA
KCD 244 33.70	Falmouth, MA-f	KME 438 35.22	Orange, CA
KCD 344 33.94	Blue Hills, CT-vf	KOA 796 35.58	Portland, OR
KCD 457 33.90	Mystic, CT-f	KOG 634 33.82	Kent, WA-f
KCD 472 33.92	Windsor Locks, CT-f	KOP 303 35.46	Langlely, WA-mp
KCD 492 33.70	Dennis, MA-f	KQC 884 35 +	Highland Park, MI
KCD 498 33.70	Sandwich, MA-f	KQD 313 35.50	Dayton, OH
KCD 575 33.70	Cheshire, CT-f	KSC 645 35.58	Chicago, IL
KCD 658 33.70	Westminster, MA-f	KSD 326 35.58	Indianapolis, IN
KCD 823 33.90	Abington, MA-f	KSJ 815 35.22	Fort Wayne, IN
KCD 845 33.70	Brewster, MA-f	-	Bend, OR-mp
KCE 358 33.54	Greenfield, MA-cf	-	Eugene, OR-mp
KCE 475 33.86	Wilton, CT-vf	-	Long Beach, CA
KCE 681 33.70	Rockland, ME-f	-	35 +
KCF 246 33.90	Marshfield, MA-f	-	35.58
KGG 651 33.70	Derby, CT-f	-	35.58
KCK 671 33.90	Lake George, NY-cf	-	43.58
KDB 386 33.66	Pepperell, MA-f	-	35.26
KDD 941 33.62	Darien, CT-f	-	35.26
		-	35.26

c-county; f-fire; mp-mobile phone; s-state; t-transit; v-volunteer
rest are paggers

A2 tone ID's used by: KAI 927, KDN 402, KLL 390, KMA 829, KME 438,
KOA 796 (as of Nov 22), KOK 418, KOP 303, KQC 884, KQD 313, KSC 645,
KSD 326, KSJ 815.

F2 levels did rise well again in November, though not as good as the late
October openings had. Solar activity was up thru the first half of Dec
but F2 MUF's didn't show it very much.

73, Pat

WA5IYX

WESTERN TV DX

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

January 1973

In November, there was some long-range tropo on 8 & 9, seen only by Glenn Hauser at Bremont TX, with Florida low-band 104.5 mi, high-band 1055 and UHF 960 mi. Other reporters noted a little around the 15th in OK & TX to 500 mi. Early December (1 to 5) saw 600-mi VHF-UHF to Midwest from OK and TX monitoring locations. As noted from OK & TX reporters, Es was seen on many dates from Florida, Arizona, Mexico, El Salvador and Guatemala, always in late afternoon/evening, except 22nd around noon and 26th in early PM as well. Es dates: November 11 20 22 23 25 26 Dec 2 3 4 5
 (*5 Dec MUF was at least Number of reporters: 1 1 2 1 2 1 3 1 1 1
 88.5 Mhz, maybe even 94.5) MUF at least (channel): 2 2 3 5 3 2 5 3 2 6*

Frank E. Aden, Jr., 915 South Curtis, #71, Boise, Idaho 83795 (Jul-Sept) (MDT)

Equipment: Arvin 9" B&W portable; 23-el. yagi antenna on rotor; preamp.

Jul 25 Es 1706 KNEC & Los Angeles CA, fair.

Jul 27 Es 2020 XEJ -5 Ciudad Juarez, Chihuahua, weak.

(Frank also sent the October IDEX, the bulletin of the Idaho DX Association (IDX). It includes MW & SW sections as well as separate columns for both TV and FM and excellent drawings of Id slides. Though reproduced by the "ditto" process, it makes use of multi-color techniques and is well copied. Thanks, Frank. dps)

Robert J. Williams, 251 6th Avenue East, Twin Falls, Idaho 83301 (Jul- 11 Sept) (MDT)

Equipment: RCA 21" color; RCA 21" B&W "Deluxe"; Airline B&W portable; 10-el. multichannel yagi 30' up with rotor; other ants., boosters, etc.

J17 Es 2033 XEPM- 2 Ciudad Juarez Chih. N	15 Es 2130 KMID- 2 Midland TX
19 Es 1828 CKCK- 2 Regina Sask	16 Es 1959 KCKT- 2 Great Bend KS
20 Tr 1937 KID - 3 Idaho Falls ID	17 Es 0959 KQTV 2 St. Joseph MO
27 Es 1500 KMID- 2 Midland TX (exc. A&V)	1029 KETS 2 Little Rock AR N
1522 unId 2 ("Kn Cadena / 8")	1159 KPRC- 2 Houston TX
1630 KTVU 2 Oakland CA	(on vertical polar. dipole)
2057 KROD- 4 El Paso TX N	1229 KTBS- 3 Shreveport LA
29 Es 1929 KBTX- 3 Bryan TX N	1258 WKY - 4 Oklahoma City OK
(Id also at 1958)	(Id also at 1358)
31 Es 1730 KTEW 2 Tulsa OK	1259 KCKT 2 Great Bend KS
1944 KEY-T 3 Santa Barbara CA	1420 WDAF- 4 Kansas City MO N
A1 Es 2029 KTGA- 2 St. Paul MN	29 Es 2125 WKY - 4 Oklahoma City OK
2 Es 1446 WISC- 3 Madison WI N	S11 Tr 2000 KSL - 5 Salt Lake City UT N
1459 WBAY- 2 Green Bay WI	(weak)

Glen E. Neal, 1005 North 5th, Sayre, Oklahoma 73662 (November) (CST)

After a several-month hiatus from reporting, I hope to resume each month again. During this time, I have gone over the 400 mark in total stations received, now resting at 414. I may worry Bob Cooper yet. Not bad for my modest equipment, but this almost ideal location helps a lot (only 1 TV station within 100 miles, and am on high ground). November wasn't good here for tropo; a little Es was seen. A record amount of snow fell in western Oklahoma this month (6'4") and the cold weather has not helped. Oh well, a good time to work on equipment, prepare logs, etc., and get ready for 1973 (which it will be when you read this, so Happy New Year!). Three new translators are on air in Perryton, Texas, on ch 55 (KFDA-10, on their xltr Id slide), 57 (KGNC-4) and 59 (KVII-7); will be looking for them. 4 more years.

3 Tr 2055 unId 65 (NW, of KVII-7, not in TVF... (14) (Tr) Pampa TX?)	3145	1210 KOMC 8 McCook NE	4040 325
(Doesn't Pampa have VHF xlters? dps)		(hvy CCI to local KFDO-8)	
2055 unId 64	1045	KPNE- 9 No. Platte NE	4544N395
(NW, vyweak, not Perryton)		1300 KHNE-29 Hastings NE	2035 375
2136 K78AZ 78 Matador TX (KCEB1) 3243 110		K10FR 10 Fargo OK (KWT9) 9	3040 80
K80BD 80 Matador (KVII-7) " "	" "	K12GA 12 Fargo OK (WKY-4)	3040 80
K83AC 83 Matador (KLEK-13) " "	" "	15 Tr 1124 KDTV 39 Dallas TX	5545 230
		25 Es 2000 unId 2 (weak vid, WTHS?)	3033
14 Tr 1154 KTBC- 7 Austin TX	2030 360	26 Es 1340 KTVU 2 Oakland CA	4534 1255
KVUE 24 Austin TX	2035 360	(weak)	

Bob Cooper, Jr., 4670 Willard Drive, Oklahoma City, Oklahoma 73105 (11Nov-8Dec) (CST)

Not much of a DX period from this observation point. There may have been some interesting tropo and more Es than I noted...but travels outside of Oklahoma City during the month occupied considerable time, and I haven't figured out a way to monitor effectively when I am not at home (yet!).

Nov 11 Tr 0930 tune-in, weak to NE, likely KCBJ 17 Columbia MO (360 mi).
 Nov 15 Tr 0800 t/in to 0830 t/out, heavy N, NNW such as KMNE-7 BassettNE (485).
 Nov 20 Es 1810 t/in, ch 2 to apx 1845, no Ids.
 Nov 25 Es 1845 t/in, XEW-2 Mexico City, TGBOL-3 Guatemala (double hop E).
 No time to watch it closely. Fade at apx 2155.
 Nov 26 Es 1235-1245, ch 2, no Ids. 1340 & 1600 t/ins, weak ch 2 in & out.
 1830, 1905 to 2010, in & out w/ Mexico in at 1910 check (XEW-2).
 2100-2115, CKPR-2 Thunder Bay, Ontario.
 Nov 27 MS 0636, WPMY-2 Greensboro NC.
 Dec 2 Es 1635 & 1740 t/in, NE, ch 2, no Ids. Es out at apx 2115.
 1820 WMAR-2 Baltimore MD 2000 WWAY-3 Wilmington NC
 1858 KYW -3 Philadelphia 2023 XEZ -3 Guanajuato (no sign of XEW-2)
 Dec 3 Tr 0615 on...heavy CCI ch 4 from one or more KTEW translators in NE
 Oklahoma, SE Kansas. No way to Id which was which.
 Es 1919 t/in, chs 2,3. Es 1945 to 2100, in & out.
 Dec 4 Es 2000 t/in, in & out.
 Dec 5 Tr Probably bang-up session until cold front hit. I had less than an
 hour to reap the crop, and this was just the top surface layer.
 0731 KDNM-30 St. Louis MO Mi:458 (Tr)(0746)WKMA 35 MadisonvilleKY
 KDFT 16 530 0825 WESH 25 EvansvilleIN 576
 0737 WMAB 2 565 (...and shut down.)
 (ch. 2 number 59) (tropo) Es 1630 XEW - 2 MexicoCity(t/in)
 0741 KVUE 24 Austin TX 359 1715 WCBD 2
 KHFI-42 Austin TX 359 1812 WSAV- 3 Savannah GA
 (change to 36 apx 1Jun73) 1900 WEDU 3 Tampa FL
 WMAU 17 Bude MS 505 WESH- 2 Daytona Beach FL
 WMAA 29 Jackson MS 473 1928 WCIX- 6 Miami FL
 WKAO 23 Greenwood MS 420 WFBT 2 Miami FL
 WMAV 18 Oxford MS 450 2006- XEW - 2 Mexico City
 0746 WKMU 21 Murray KY 570 2130+ TGBOL-3 Guatemala
 WKGB 53 Bowling Green KY 618 (double hop E)

Pat Dyer, 5315 Silvertip Drive, San Antonio, Texas 78228 (10 Nov - 10 Dec) (CST)

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

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

15 Tr 0035 WBAP- 5 Fort Worth TX 240 (4)(Tr)2225 KAUZ- 6 Wichita Falls TX 310
 22 Es 1220-1230 2 unId (Mex or El Sal.) 2230 KACB- 3 San Angelo TX 180
 23 Es 1945-2000 2 unId (ditto) KMKN 34 Lubbock TX N 350
 25 Es 1900-1920 2-4 unIds (again) 2305 KSEL-28 Lubbock TX 350
 1950-2200 2-5 unIds (same) 5 Tr 0035 KSWO- 7 Lawton OK N 340
 2215-2300 2 KNXT Los Angeles CA 1190 0045 KAUZ- 6 Wichita Falls TX 310
 2 Es 1859 XHBC- 3 Mexicali BCN 1015 KDFW 4 Dallas TX 250
 2118 KOAI 2 Flagstaff AZ 850 0048 KOCO- 5 Oklahoma City OK N 400
 2200 KTVK 3 Phoenix AZ 840 0100 WKY - 4 Oklahoma City OK 400
 unIds 2-3 (by MS 1970)
 4 Tr 1430 KCTV 8 San Angelo TX 180 0102 WFAA- 8 Dallas TX 250
 WFAA- 8 Dallas TX 150 0110 KVII- 7 Amarillo TX N 450
 1500 KNCT 46 Belton TX 235 Es 1730 unIds 2-6 (MUF 88.5, maybe 94.5)
 1700 unIds 33,39 1900 WSDJ- 2 Sneedville TN 1020
 2200 KCBD-11 Lubbock TX 350 1930 KTCA- 2 St. Paul MN 1110

This period's trop ducting is about the best in nearly a year to the north, though I wasn't using a rotor in past spring.

A lot of Es has been in, though most of it unided due to heavy CCI. The Dec 5 evening Es very remindful of last year Dec 14 behavior, even complete with a cold front passage. Les Prus will no doubt note that.

Geminids appear to be getting off to some start with a lot of noticable CCI on local 4 and 5 in evenings, though I'll probably concentrate on FM again.

With WKY-TV log on trop, it becomes my only TV station on trop and MS (I've several MS-Es loggings). It also seems this is about the best low-band VHF trop I have over an all-land path. 73, WA5IYX.

Glenn Hauser, Box 62, Von Ormy, Texas 78073

(7 Nov - 2 Dec)

(CST)

Before closing down the CADCO signal survey series, another Gulf tropo opening hit, this time at Bremond TX—and for the third week in a row, I had to dismantle the antennas in the midst of the opening! Nevertheless, some fine signals came from south Florida, many VHF QRM-free because of the time difference! As before, I have underlined those stations which have not been seen yet at Von Ormy, though of course they will not be counted in the same totals. By the way, I learned from a visit to KAMU-15 College Station TX that the station planned to return to the air in early December after going off last March. The antenna is to be on a new, higher, tower, and the power is to be doubled. Live PBS affiliation, however, may have to wait on telco until next spring.

KWTV 9
THE NEWS STATION

7 Tr	0959	KWTV 9 Oklahoma City OK	310
8 Tr	0835	WMAW 14 Meridian MS	450
	0835	WMAH 19 Biloxi MS	460
		(many other times; 1200)	
	0835	WMAU 17 Bude MS	345
	0840	WMAA 29 Jackson MS	380
		(1700 vy good //23)	
	0909	WAPT 16 Jackson MS	380
		(B&W*CB*keyed Id; Ø CCI; not KEDT)	
	1200	WMAO 23 Greenwood MS	390
		(1847 fair in frequent "Job Bank" pgm)	
	1215	WTOG 44 Saint Petersburg FL 900	
		(1359 Id; 1729 Id; 2200 Id, One Step Beyond; 0016 Peter Gunn)	
	1215	WXII-40 Sarasota FL	910
		(1259 Bradenton/Plymouth had, Id; 1530 fair; 2301 Id, Cavett; 0003 s/off; Indian Lord's Prayer)	
	1216	WGNO-26 New Orleans LA	400
		(TT, ØCCI to KVRL; but by 1340 one or both had drifted to 10kHz separation! same 1715)	
	1225	WBBH-20 Fort Myers FL	960
		(local talk show; 2105 NBC)	
	1252	WINK-11 Fort Myers FL	T
	1710	WTVT 13 Tampa FL	900
		(editorial; 1725 Id, wx; heavy CCI incl Ø-KTRK)	
	1759	WLOX-13 Biloxi MS	455
	1802	WAAY-31 Huntsville AL	T
	1829	KHMA-11 Huoma LA	365
	1830	KNOE- 8 Monroe LA	280
	1833	WIIQ 41 Demopolis AL	520
		(1847 b&w AL political discussion; 2146 10CCI w/KWEX; 2258 s/off, SSB, no local Id; after SSB AETC TP)	
	1848	WMAV 18 Oxford MS	460
	1854	KTEM 10 Ada OK	T
	1858	WQHN 18 Dothan AL	T
	2115	WEMG 42 Birmingham AL	T
	2202	WPBT 2 Miami FL	T

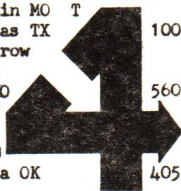
WAAY 31

eight
KFFW-TV

(8)Tr	2340	KTUL- 8 Tulsa OK	T
	2345	KFFW-40 Fort. Smith AR	325
		(0026 plug ch11 LateMovie, so gets net from KTHV; frequent checks for WKID-51 fruitless)	
2 Tr	0005	KARK- 4 Little Rock AR	345
		(3/4CB, CL keyed in white/white)	
	0006	KLTV 7 Tyler TX	115
	0008	KGTO 36 Fayetteville AR	365
		(0029 s/off)	
	0010	WTWV 9 Tupelo MS	T
	0022	KUHI 16 Joplin MO	425
		(0030s/off, 3040/408kw, Brahm's Lullaby, HighFlight; same cube-16 Id slide still used since tbnegan)	
	0023	KXII-12 Ardmore OK	200
		(Id slide; on fortropo DX?; still 0115)	
	0025	KMTC 27 Springfield MO	460
		(Prus Id)	
	0032	WIBW-13 KS	545
		(0037s/off, HighFlight, MIH TP, TT)	
	0034	KWTV 9 Oklahoma City OK (Id)	310
	0035	KODE-12 Joplin MO	T
	0044	KDFW- 4 Dallas TX	100
		(Id slide w/arrow design in 4)	
	0045	KMBC- 9 KC MO	560
		(0057 many, many ads & FSAs, finally s/off)	
	0046	KTEM 2 Tulsa OK	405
		(Id, s/off, 0047 off)	
	0109	WVUE 8 New Orleans LA	405
		(10CCI exactly same dir:WFLA)	
	0109	WFLA- 8 Tampa FL	900
		(TP; 0501 custom TP)	
	0111	WPLG-10 Miami FL	T

WTWV
TUPELO

WIBW
TV Color 13
Topeka Kansas



KDFW-TV

10
WPLG-TV

(9)(Tr) 0451	WTVT 13 Tampa FL	900	Below QTH: <u>Von Ormy TX</u>
	(FL map w/radar sweep from Tampa; QRM-free!)		
0455	WFTV 9 Orlando FL	925	<u>11 Es</u> 1635 WESH- 2 Daytona Beach FL T (gone before 1700)
	(screen full of 9s, TT; 0500 SSB)		
0503	WCKT 7 Miami FL	1055	YSR - 2 SanSal, El Salvador 1205 (TP&mx; 1200 vintage penguin cartoons; 1206 Popeye w/centered subtitles; 1237 beautiful Id; 1307 Id, ads; 1400 TV almost gone)
	(b&w ITV; 0532 end Univ of FL hour; 0552 only S FL hi band VHF still QRM-clear, local nx)		1140 2 Managua Nicaragua? T (w/20 CCI to YSR)
0505	WLCY-10 Largo FL	T	1254 TGV - 3 Guat, Guatemala T
	("Television 10" Id)		<u>24:</u> Out of town.
0505	WEAT-12 West Palm Beach FL	1050	<u>1 Tr</u> 2330 KLN1-15 New Iberia LA 405
	(Id slide, beautiful! like pictured logo; 0524 Paul Harvey)		2334 WAPT 16 Jackson MS 530
			2336 WGNO-26 New Orleans LA 510
			(heavy Ø CCI w/KVRL, alternately dominating)
			2337 WRBT 33 Baton Rouge LA 455
			2338 WVUE 8 New Orleans LA 515
			2338 WAFB- 9 Baton Rouge LA 455
			2345 KLFY-10 Lafayette LA (auction) 390
			2350 KALB- 5 Alexandria LA T
			<u>2 Es</u> 1859 XHFA 2 Nogales Sonora T
0509	WPTV 5 Palm Beach FL	1045	(W2 logo; 1954 W2 Id, definitely not from S)
	(TP: 0510 s/on)		
0513	WINK-11 Fort Myers FL	955	1859 KTVK 3 Phoenix AZ 855
	(MDH TP: 0528 s/on "till 1 am," Lord's Prayer)		1859 XHBC- 3 Mexicali BGN 1020
0515	WBHH-20 Fort Myers FL	960	(1901 Id w/knobbed 3; 1932 Id, v. good, ads; in for sometime w/cartoons, black carrier, west, mixing Mexican; 2001 breaking up, freq jumps from offset of about 20 to 5 w/Mexican; still 2030)
	(RTMA TP; 0529 s/on 524 kw vis, KFD-68 STL; 0530 Id, "Covering South-west FL like sunshine..."; Bible read)		2059 KOAI 2 Flagstaff AZ 845
0520	WWL - 4 New Orleans LA	405	(Coca Cola of NAL ad; 2245 fading out)
	(TP w/xltrs incl W2AJ)		2145 KORK- 3 Las Vegas NV 1060
0535	WDSU- 6 New Orleans LA	405	(NBC not //KOAI; 2230 still)
0540	KNOE- 8 Monroe LA	280	2148 KVVU 5 Henderson NV T
	(c/on, wiping out DX; like KLFY-10 earlier; 0630 close down receiving eqp at Bremond!)		Until the next, 73 de Glenn.



Dennis Smith, 450 Poplar Avenue, Wasco, California 93280 (22-26 Nov) (PST)

Your editor spent the Thanksgiving Holiday 300+ miles south of Chico in Wasco, checking occasionally for DX while there. Apparently I didn't check often enough, according to the reports of Es around that time. A new local Fresno-area station was seen, however: KFTV 21 Hanford (100 mi), xmtr in the mountains NE of Fresno, from where KFSN-30 and KJEO 47 also send their big-area signals. Ch. 21 was formerly KDAS (65 mi) but was very weak because of valley location. KFTV is all-Spanish, operating presently as a semisatellite of KMEX 34 Los Angeles.

Best of DX to all

Dennis

EASTERN TV DX

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

As 1973 commences, I'd like for Eastern TV-DXer's to give some thought to the degree of support they gave the WTFDA in 1972. Additional participation in the Eastern column of the VUD is needed if this column is to be representative of DX conditions in the east. Since June, 29 eastern DXer's have reported to this column from 11 states and 2 provinces. This means that another 11 states and the District of Columbia have had no reporters. Therefore, I would like to invite members in those states especially to submit reports in 1973. (The states not heard from since June or earlier are Tennessee, Kentucky, Maine, Connecticut, Vermont, West Virginia, South Carolina, Georgia, Mississippi, Delaware, and Arkansas. Canadian reports were received from Ontario and Quebec. New York state led in the number of reporters with 6; followed by Pennsylvania with 5; and Maryland and Ontario with 4 each.

To begin 1973, only 3 reporters have submitted reports for the January VUD--a reflection of normally poor winter conditions. However, a skip opening noted here on December 14 and recent meteor showers will hopefully cause an upswing in reports for February. Ron LeBlanc's report on DX in Louisiana since July is truly international with 7 countries seen during that period.

Again, your report is needed if this column is to be representative of eastern TV-DX. Report often--even if your report is not large. And, thanks to those who have kept reports coming during the last year. The best of DX in '73.

Ken Simon 528 Pilgrim Road West Palm Beach, Florida 33405 (EST)
 11-9 Tr 2200 WSAV-3 Savannah, GA 1444N 11-25 Tr 2300 WFLA-8 Tampa, FL
 11-20 2300 WFLA-8 WFTV-9 WTVT-13 WEDU-3 2300 WINK-11 Ft. Myers, FL
 11-23 0740 WSEC-17 Miami "off airplane" 2300 WXLT-40 Sarasota, FL
 2000 WFTV-9 Orlando, FL 11-27 0732 WSEC-17 Miami, FL
 2000 WBBH-20 Ft. Myers, FL

"No Cubans, no Es, not much activity. On 26th, made 'DXped' to west coast of Florida--no sign of Immokelee repeater (translator). Richard Clark's TV was temperamental so we couldn't check Ft. Myers repeaters. QSL's from WEDU-3, CMQ-6, WDHN-18, CKCO-1, and WJKS-17. Will be checking for scatter from Apollo blast. (Let us know if you saw anything, dp) A note on common courtesy: I have written 5 or so members with explanations about CCI and only Les Prus was courteous enough to drop a line of thanks. I think it is the least you can do when someone helps you. Thoughts from members!"

Paul D. Traska 64 Weaver Street Buffalo, New York 14206 (EST)
 10-26 Tr 2140 WSAV-3 Springfield, OH 10-26 Tr WLIX-10 Jackson, MI
 10-27 0100 UNID-17 "good until 10 time" 11-9 0124 WDTV-5 Weston, WV
 0205 UNID-19 "TP with big 19 on left" 0213 WCPO-9 Cincinnati, OH
 10-26 WFLD-32 Chicago, IL WJAC-6 Johnston, PA
 WSNS-44 Chicago, IL WHTN-13 Huntington, WV
 WNDU-16 South Bend, IN WBNB-10 Columbus, OH
 WJHQ-41 Battle Creek, MI WLWI-13 Indianapolis, IN
 WUCM-19 Bay City, MI WSTW-9 Steubenville, OH
 WKBD-50 WTVS-56 WXON-62 Detroit
 WJRT-12 Flint, MI
 WOTV-8 WZZM-13 Grand Rapids, MI

Ronald J. LeBlanc 2524 Arizona Drive Marrero, Louisiana
 11-8 Tr 1705 KHFI-42 Austin, TX 3335R460 11-8 Tr 2053 WBBH-20 Ft. Myers, FL 3225R564
 1710 KHTV-39 Houston, TX 3334R321 2100 KATV-7 Little Rock 3342R350
 1715 KVUE-24 Austin, TX 3335R460 2200 WTVT-13 Tampa, FL 5554R488
 1720 KDTV-39 Dallas, TX 3344R456 2250 KTVE-10 El Dorado, AK3342R285
 #273 1800 KETA-13 Oklahoma City N575 2400 KTVT-11 Ft. Worth, TX3343R485
 1801 KERA-13 Dallas, TX 3322R456 11-9 0010 KTRK-13 Houston, TX 4443R321
 #274 2030 WUSF-16 Tampa, FL 3444N488 0015 KBFI-33 Dallas, TX 3325R456
 2031 WMFE-24 Orlando, FL 3324R510 0020 KPRC-2 Houston, TX 3335R321
 2035 WXLT-40 Sarasota, FL 3335R503 0030 KTHV-11 Little Rock 3345R350
 2043 WTOG-44 St. Pete, FL 4455R488 0040 KSAT-12 San Antonio 4445R510

"Seems these good openings always occur during the middle of the week when I have to get up early for work the next morning. Sure would love to see one start on a Friday evening. 73's Ron."

EDITOR'S NOTE: For a report of some of Ron's earlier DX see following page.

Ronald J. LeBlanc 2524 Arizona Drive Marrero, Louisiana

"I finally have acquired another typewriter. I have been without one for three months. Plus with all the DX and the part time TV repair, I haven't had too much time to send in any reports. We have had

a few good tropo openings in the past few months. On October 25 I received WISN-12 from Milwaukee, Wisconsin. Plus many others from Missouri and Arkansas. WISN is a new record tropo for me at 922 miles."

7-22	Es	1345	CMBF-2	Havana, Cuba	3222N0720	10-17	Tr	0020	KLRN-9	Austin, TX	4355R0460	
		1405	CMKJ-3	Holguin, Cuba	2033N1075			0031	XHX-10	Monterrey	3344R0690	
		1830	WCBS-2	New York City	3122R1174			0044	KX11-12	Ardmore, OK	3234R0516	
		1900	WMAR-2	Baltimore, MD	3122R1006			0054	KTVT-11	Ft. Worth, TX	3344R0485	
		1930	WMT-2	Cedar Rapids	3232R0841			0102	KDFW-4	Dallas, TX	3345R0456	
		2000	KDLO-3	Watertown, SD	2123R1112			0103	KBFI-33	Dallas, TX	3335R0456	
7-24		1800	YSR-2	El Salvador	4443R1132			0112	XEFB-3	Monterrey, NL	3345R0690	
7-29		1325	KWGN-2	Denver, CO	4432R1000			Es	0122	KOB-4	Albuquerque, NM	2325N1034
8-1		1738	CBFT-2	Montreal, PQ	4433R1395			0130	KSAT-12	San Antonio	3344R0510	
		1800	WPSX-3	Clearfield, PA	3122R1007	10-19	Tr	2000	WCFT-33	WBMG-42	WMSL-48	AL
		1930	CKVR-3	Barrie, Ont.	3122N1110			2349	WTWV-9	Tupelo, MS	4554R0314	
		1931	KDKA-2	Pittsburgh, PA	3232R0930			0020	WBIR-10	Knoxville, TN	3332R0549	
8-2		1700	YNTC-2	Managua, Nicaragua	N1270			0053	WHBQ-13	Memphis, TN	3345R0366	
		1730	HRTG-5	Tegucigalpa, Honduras				0100	WSM-4	Nashville	2245R0442	
					3114N1125	10-42	Tr	1720	KERA-13	Dallas, TX	3324R0456	
		1805	YSR-2	El Salvador	4432R1132			2200	KBFI-33	Dallas, TX	3335R0456	
8-6		1800	KMID-2	Midland, TX	3043R0741	10-25		1730	KHTV-39	Houston, TX	3345R0321	
		1950	WISC-3	Madison, WI	3234R0920			1735	KVUE-24	Austin, TX	4455R0460	
		1955	CKCO-2	Warton, Ont.	2022R1125			1740	KHF1-42	AUSTIN, TX	3335R0460	
		2120	WFRV-5	Green Bay, WI	4234R1006			1900	KNCT-46	Killeen, TX	4335R0456	
8-14		1430	WCBD-2	Charleston, SC	5555R0640			2319	KFPW-40	Ft. Smith, AK	3335R0472	
		1500	WUND-2	Columbia, SC	3132R0900			0030	KTBC-7	Austin, TX	4555R0460	
		1600	WJBK-2	Detroit, MI	2132R0945			0035	WBAP-5	Dallas, TX	3455R0456	
6-20		"Some of these Spanish stations were ID'ed at the convention with Glenn Hauser's help."										
		Tr	2245	XHAB-7	Matamoros, Mex	5555N0562		0044	KBFI-33	Dallas, TX	4555R0456	
6-21		0044	XHFN-9	Tampico, Tamps	3335N0750			0050	KSAT-12	San Antonio	4554R0510	
		0110	XHD-4	Tampico, Tamps	2235N0750			0110	KETC-9	St. Louis	3334N0610	
		0130	XHAH-8	LasLajas, Ver	2035N0850			0115	KPLR-11	St. Louis	4433R0610	
8-16	Es	1830	WUND-2	Columbia, NC	4333R0900			0120	WHBQ-13	Memphis, TN	3345R0366	
		1930	WAY-3	Wilmington, NC	3122R0780	10-29		0130	WISN-12	Milwaukee	2345N0922	
8-21		1718	KHAS-5	Hastings, NE	4334N0876			1045	WBHH-20	Ft. Meyers, FL	3325R0564	
		1900	KOAA-5	Pueblo, CO	5355R1000			1130	WXLt-40	Sarasota, FL	2225R0503	
		1930	KWGN-2	Denver, CO	3122R1000			1500	WTOG-44	St. Pete, FL	3225R0488	
8-30		2100	YSR-2	El Salvador	3232R1132			1830	WDHN-18	Dothan, AL	4554R0305	
9-1		1900	WMAR-2	Baltimore, MD	3122R1006			1930	W11Q-41	Demopolis	3345R0220	
		1901	WCBS-2	New York City	1322R1174			1931	WG1Q-43	Louisville	3345R0287	
9-14		1745	CMKJ-3	Holguin, Cuba	3122R1075			1950	WMAO-23	Greenwood, MS	3334N0259	
9-15		1830	WMAR-2	Baltimore, MD	3222R1006			1955	WH1Q-25	Huntsville	3345R0375	
		1900	KWGN-2	Denver, CO	4233R1000			2230	KTVE-10	El Dorado, AK	3132R0285	
9-23	Tr	0850	WCFT-33	Tuscaloosa, AL	4554R0263			2300	WKID-51	Ft. Lauderdale	N0676	
		0853	WBMG-42	Birmingham, AL	4555R0320	10-30		2330	W70AU-70	Biloxi, MS	3445R0077	
		0855	WAAY-31	Huntsville, AL	4555R0375			1715	WXLt-40	Sarasota, FL	3335R0503	
		0858	WMSL-48	Decatur, AL	4555R0375			1730	WTOG-44	St. Pete, FL	3455R0488	
		0900	WHNT-19	Huntsville, AL	4555R0375			1830	W11Q-41	Demopolis, AL	4555R0220	
		0901	WH1Q-25	Huntsville, AL	3555R0375			1900	WMAO-23	Greenwood, MS	4555R0488	
		1000	W11Q-41	Demopolis, AL	3235R0220			2200	WSRE-23	Pensacola, FL	5555R0183	
10-16		2029	KHTV-39	Houston, TX	3355R0321			2330	WSFA-12	Montgomery	4553AR289	
		2030	KEDT-16	Corpus Christi	3335R0485			2331	WCFT-33	Tuscaloosa	3222R0263	
		2200	KVUE-24	Austin, TX	4455R0460			2345	WKAB-32	Montgomery	4555R0289	
		2208	KHF1-42	Austin, TX	3455R0460			2346	WCOV-20	Montgomery	4555R0289	
		2217	KWEX-41	San Antonio	2255R0510			0120	WAPI-13	Birmingham	4455R0320	
		2300	KX1X-19	Victoria, TX	2255R0427			0132	WHBQ-13	Memphis, TN	5555R0366	
		2301	KTRK-13	Houston, TX	5555R0321	11-7		0140	WBRC-6	Birmingham	4555R0320	
		2302	KBMT-12	Beaumont, TX	4453R0244			1730	KTBC-7	Austin, TX	3233R0460	
		0050	KTBC-7	Austin, TX	5555R0460			1800	KHTV-39	Houston, TX	3225R0321	
		0051	XHX-10	Monterrey, NL	5555R0690			2010	KHF1-42	Austin, TX	3225R0460	
	Es	0130	KOAI-2	Flagstaff, AZ	3234R1310			2315	KVUE-24	Austin, TX	4555R0460	
10-17	Tr	2215	KEDT-16	KHF1-42	KHTV-39			0030	KBMT-12	Beaumont, TX	3345R0244	
	Es	2400	KWGN-2	Denver, CO	4333R1000							

CENTRAL TV DX

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

January 1973

Reports due here by the 15th!

For TV-DXers in Wi, Il, In, Mi, and Oh. Please support your column all year!!

As I said last month...don't give up on winter! We've had the usual downturn in tropo across the Great Lakes...but a very promising flurry of Es activity. Hope you've had the gear on because there has been quite a bit to see. Es were noted in East Lansing on 5, 13, 14 and 17 December. A couple of those openings were even springlike! We should be hearing more about them in next month's reports. I hate to say this but I missed most of the mid-December meteor activity. I had a busy week...and early rising wasn't part of the activity. Early riser Don Ruland in Kenosha, Wi. notes by phone that the Geminids were not particularly productive.. not as good as last year. We'll wait for further reports.

There is, of course, the chance for winter tropo. Several tropo openings in past years have been really great. Look for high pressure systems...not of the polar variety. Cold polar "domes" often have low pressure above them...and no upper-atmosphere inversions. As a high moves past you, warm, moist Gulf air should move in behind (in the Great Lakes area). If the pressure stays up...that warm air might stabilize...and stagnate. Watch for widespread areas of fog...when the pressure is high and steady. As I said, we've had some great openings in the past...openings that lasted all day.

I've received two reports for this month...and have a few loose ends to tie together so here goes...

Rod Luoma, 38540 Five Mile Road, Livonia, MI 48154 EST

10-31 GW WKAR-23 E. Lansing, MI (55)	11-16 Tr 0900 WMJL-33 Huntington, WVA (280)
11-15 Tr 2230 WBNS-10 Columbus, OH (175)	WKMR-38 Morehead, KY (290)
CFPL-10 London, Ont (120)	WSVN-47 Norton, VA (375)
2245 WKSO-29 Somerset, KY (375)	WKYT-27 Lexington, KY (310)
WNBU-16, WSBT-22 So Bend (160)	WKPI-22 Pikeville, KY (340)
WUTV-29 Buffalo, NY (225)	WKHA-35 Madisonville (#10)
WSEE-35 Erie, PA (160)	WKON-52 Owenton, KY (275)
WRFT-27 Roanoke, VA (390)	0915 WOSU-34 Columbus, Oh (175)
2300 WKPT-19 Kingsport, TN (410)	WSEE-35 Erie, PA (165)
WTAP-15 Parkersburg, (230)	WQLN-54 Erie, PA (165)
WHIZ-18 Zanesville, OH (180)	12-10 GW WXON-20 Detroit, MI (7)
CKCO-13 Kitchener, Ont (165)	UHF total now 109, VHF at 123. WRFT-27
CHCH-11 Hamilton, Ont (170)	a big surprise...temp only 30 degrees at
Unid-28 w/ Movie, due East	the time. Sig levels pretty good.

(Please note folks...Rod is in a new location. He erected his array on 10-31 after giving everything a good "Brillo-ing". Notes better chances at DX, especially on channel 3. His gear is all Channel Master, including a 6 foot dish. Rod, your request per telephoning is duly noted. Will keep in touch. RB)

Ferdie Dombrowski, 1311 W. Madison #11, Milwaukee, WI 53204 CST

10-17 Es 1135 WDIQ-2 Dozier, Al	10-29 Tr 2100 KESD-8 Brookings, SD (475)
1325 Unid-2, NBC	11-1 Au 0230..to channel 13 until after 0430.
1600 WCBD-2 Charleston, SC	No IDs.
10-27 Tr 1100 CICA-19 Toronto (440)	Bruce Elving told me of 10-27 opening..he's
1245 CKNX-8 Wingham, Ont (340)	in apt. overlooking lake and has better reception with a loop than I have with outdoor antenna!

WAIT! A last minute addition awaits on the next page. 73s Rog

Morrie Goldman, 5815 North Christiana Avenue, Chicago, Illinois 60659 CST

10-26 Tr 0012	KUHI-16 Joplin, Mo	10-27 Tr 0003	KCBJ-17 s/off
	WAPT-16 Jackson, Ms	0458	CFTO-9 Toronto, s/on
	WCWB-41 Macon, Ga (first	0505	WSPD-13 Toledo, Oh
	noted at 2230 on 10-25)	0507	WNEF-12 Binghamton, NY N2233
0700	KTSE-27, KUHI-16		w/wedge tp
1930	UnID-16 To south. Educ.	0532	CKCO-13 Kitchener, Ont
2145	WFIE-14 Evansville, In	0720	WSEE-35 Erie, Pa
	WMAW-14 Meridian, Ms(T)	12-23 Tr 1800	WKPT-19 Kingsport, TN
2150	WBRE-28 Wilkes-Barre, PA	1830	WMAW-14 Meridian, Ms
	WSEE-35 Erie, PA	2000	WDXR-29 Paduchah, Ky
	WAKR-23 Akron, Oh		
	WMJB-14 Oxford, Oh		
2230	WUTV-29 Buffalo, NY		
2255	KMTC-27 Springfield, Mo		
2258	WUAB-43 Lorain, Oh		
2305	KUHI-16, KCBJ-17, KDNL-30		
2325	KOMU-8 Columbia, Mo N3333		

"Es noted on at least four occasions, but no positive IDs. MS results were not encouraging at all. Half the time my alarm clock failed (too much throwing it against the wall perhaps? RB) and the other half, little was seen. Total at 295 logged.

J. JOEL ROSENBERG & MARK L. LEWIS
47 PANNAHILL RD 224 HONITON ST
DOWNSVIEW, ONTARIO
633-1769 -416- 635-0086

 Canadian Radio-Television
Commission

Conseil de la Radio-Télévision
Canadienne

NORTH OF THE BORDER: FOR NEWS IN CANADIAN BROADCASTING

TV APPROVALS

KENO HILL, YT ch. 13 .248/.0248 kw dir .. to receive CBC ENG via ANIK COMSAT
MELFORT, SASK ch. 2 11.5 kw dir Sat of CFQC- Saskatoon CTV & CKBI- Fr Albert CBC

TV APPLICATIONS

CHAPEAU, PQ ch. 11 .55/.06 kw dir Sat CBOFT Ottawa (CBC FR)
RAPIDES DES JOACHIMS, PQ ch. 8 .161/.0161 kw dir Sat ch. 11 Chapeau
HIGH LEVEL, ALTA ch. 8 .468 kw dir Sat CBXAT-3 Manning (CBC ENG)
FORT VERMILLION, ALTA ch. 11 .277 kw dir Sat ch. 8 High Level
FORT AU PORT, NFLD ch. 13 .504/.101 kw dir CBC FR via ANIK
ST MARY'S, NFLD ch. 10- .67/.13 kw dir Sat CBNT St John's (CBC ENG)



TIDBITS

###ANIK-1, Canada's new communications satellite, was successfully launched from Cape Kennedy on Nov 9. It will bring first LIVE, COLOUR TV to remote areas, especially in the far north (as well as extend phone service) and should become operational at beginning of Jan/73. Programs will be relayed from major southern centres. CBC will build northern production centres during the summer.

###CKBL-TV ch. 9 Matane PQ now CBGAT.

###DXers GUIDE to CDN TV-FM Stns" is available for \$2.10-MONEY ORDER payable to JJ ROSENBERG-only (cheques will be returned) from above address.

Mail moves the country - ZIP CODE moves the mail!



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NORTHERN FM DX



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

Deadline 10th of the month

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

Not much FM DX to report this month. However, a most unusual Es opening into South Dakota was noted on 11/26. WROC 97.9 now has MPX. The reason why WRUR 88.5 Rochester has not been heard is due to potential QRM with their research labs. A new 50kw XR is sitting there in mothballs, and not being able to broadcast! Es noted on 11/26 90.1 and 102.3 unIDs (102.3 probably KVRP Vermillion Fred. RWW) KWRY 93.7 (KWYR FM I assume hi. RWW) o/WBLK L&C for 20 minutes w/Mutual nx and Dakota Christian Hour in MPX 1537 to 1545 fadeout; riding on an Arctic Cold air mass that pm. 12/2 new WONT 103.1 Oneonta NY noted w/MoR @0040. I hope to catch some of the Gemini's MS DX this year on Dec. 14. Hope all had a nice holiday and 1972 will probably go down in the record books as the most outstanding Es season of all time, for FM, that is. 73. (Tnx for the nice comments with your report Fred, and keep in touch when DX starts uphill again. RWW)

John Ebeling 9209 Vincent Ave. So. Bloomington MN 55431

My latest report...you might find it useful for the January column, since DX will, in all probability, be rare. Had some rare end of November skip here on 11/26. Was watching Viking's football game on ch. 4 and noticed what appeared to be CCI. Then, for some reason, I switched to normally dead ch. 2 (local off until 5PM on Sunday) at about 1405 CST and was rewarded with a completely snow free color ID of WMAR 2 Baltimore w/antenna north, 90 degrees from the east. So much for TV, ran to the FM gear and found the band really active up to 98.3 logging WBJC 91.5 @1415 Baltimore w/beautiful \$ and having a rock request program in progress. Maryland is a new state for me. At 1420 WRDA FM 95.1 Grove City PA was booming in for an ID and promo for Grove City High School Christmas album. Could not get any other IDs, not because the stations weren't there, but because they would not ID. About 1430 the FM band pretty well died out, TV Es remained weaker until 1500 or so. During the opening, had strong signals on 88.1, 88.9, 92.1, 93.3, 94.1, 94.3, 94.7, 94.9 and 98.3 as well as other frequencies, but could not snag any IDs, and tape recorder wasn't set up properly. Outside of the Es, reception has been normal for the winter. As I write this it is 5 below zero, so I guess fall has gone and winter is here. Hope I can snag some good aurora in the next few months. That's it from the frozen north.

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

That's about it from the frozen north, to say the least. Only one new station logged, WVJL 105.5 Monticello IL on 11/23 @2245 w/ID "Stereo 10 55 with Randy Russell". Other than that, just the news that WFLM 103.9 Crown Point is now on from 0600 to 0000 daily, same sked for WLCL 107.1 Lowell IN, also new on the air. WFLM very effectively covers a dynamite progressive rock station WRBR, but WLCL is just another country music station on top of cw WSJM. WFLM is slushy MoR sweet talking DJ, etc, just what Chicago really needs. Hi hi. 73 and let's hope for green grass this coming summer. Oh yes, just noticed in the paper today that WEFM 99.5 has been sold to another company, and plans to change to soft rock, a real bomber format in rock/roll saturated Chicago what with WDAI/WGLD/WMAQ/WSDM all playing top 40 stuff. WIOE 103.5 has not begun, nor have I heard anything, but it would be nice if they would change January 1 with the new year. 73 again.

Time to renew? A change to 1st
class will bring your VUD faster!

WESTERN FM DX

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

DX FROM THE LAND OF BEGINNING AGAIN

Glenn Hauser, box 62, Von Ormy, Texas 78073	QTH: Franklin TX
10/28 S 2310 91.7 Tr KTRU Houston TX 100	undeground, offering prg sked, 10 w.
11/ 1 W 1709 93.1 Gw KZAK- Tyler TX 115	"Kay-Zak," "back on air." apologizing from AM daytime rules; sked FM 0530- 2200
11/ 8 W 1722 89.7 Tr WUSF Tampa FL 880	cl mx; 1728 USF female status call-in
1243 89.3 WPCS Pensacola Fl. 540	religious
1247 89.9 WNNC- New Orleans 400	NPR stn; heavy tropo from S Florida but too tied up with TV!!
11/16 X 0700 89.7 Ms WDYN Chattanooga 875	QTH: Von Ormy TX
11/21 T 1117 90.3 Ms ?	ID job opening anmt; ant E

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

The Leonid Meteor Shower: (95.1 - 95.3 range)

Nov 15: 0000-0030, a few 5 and 10 sec bursts
Nov 15: 0920-1005, numerous 1 sec or less bursts; best at 0920:25 ran 15-20 secs
Nov 16: 0045-0100; a few 2-3 sec bursts, best at 0056:20 only 5 sec; 0100-0200: again,
many 1-2 sec; 15 sec at 0119:25, 0125:20, 0129:20; 0133:20, the latter being
an audio test tone apx 1 khz. 0915-0940: sev 1 sec, largest 3 sec.
Nov 17: 0115-0205: nothing much over 1 sec. A pretty fruitless effort - perhaps others
were more lucky. I'm beginning to think there are only three showers worth it
a year for me (i.e., Geminids, Quadrantids, Perseids).
Nov 25: 2010-2130, Es MUF to Mexico hit Ch 5 several times but repeated searches for FM
skip found nothing making it.
Dec 4: vy good evening tropo on TV and spent most of effort on it; 2232 KLBK-FM 94.5
Lubbock TX (350 mi) with weather and ID.
Dec 5: though TV tropo still good, FM not all that spectacular; 0155, KBUY-FM 93.9 Fort
Worth TX (240 mi) with news. 1730, Es into FM band at tune-in. 1750, some 88-
92 mhz Es; 1800, apx 88.3 station mentioning WOSU net so likely Ohio. 1830,
MUF maybe touching 94.5, but tropo still up some, so confusing the mode deter-
mination. 1840, likely last of FM band Es. This sudden FM opening much like
the one we had last year on Dec 14 (even to the extent of a strong cold front
passage as well, Les Prus, take note.
Dec 7: 2055-2225, early Geminid shower effects (95.1-95.3) 63 'events,' 16 of which type-
of-music programming (music, etc.) was evident, longest being apx 2 sec.
Dec 8: 0000-0030, 31 and 5.
Dec 9: 2129-2230, 57 and 23, longest up to 10 sec.
Dec 10: 0035-0130, 51 and 10, longest to 5 sec.

Hopefully, by next reporting time the Geminid and Quadrantids will have provided me with
a little more meaningful meteor scatter results (e.g., 20-30 sec bursts) with a few IDs.

By the way, a report to WBIV in New York c/o the address you gave in the November
column was returned marked "refused"...so, it's one thing when stations don't answer
reports but when they don't even accept mail ... 73.

Ed. Note: Thanks to Frank E. Aden Jr., WDX7DX, Boise, ID, for sending a copy of the Idaho
DX Club's August monthly "IDXA." The club covers all the bands, not just TV-FM.

Copies of my Fourth Progress Report on FM construction are available for 24¢ in
postage at my address above. They list vacant FM channels in the Northeast, contain a U.S.
map showing the locations of vacant channels, detail station construction and channel
availability by region, class and community size. It runs six pages, and is published
every six months. Your interest is appreciated. Best of DXing in 1973.

** One out of every two FM stations under construction is located west of the Mississippi.

SOUTHERN FM DX



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

FEATURING FM FROM LOUISIANA TO MARYLAND

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

FM DXing from our cottage at Fair Haven MD, overlooking the Herring and Chesapeake Bays, 15 mi. below Annapolis MD. Time in EST & EDT (LST).

Not a lot to report since I last wrote in but am happy w/ my Sept. catches.

9/17 0630-57 89.7 WRUH Allentown PA (140) 7 watts Canned popular mx. Surprisingly good signal.

(Underlined have verified) Ltr states in pt: "WRUH is amazed and pleased to confirm yr reception of us...The info provided us corresponds to our BC logs and the mx selections on the auto tape played...Our normal ERP is 14 w. Remarkably, you were listening to us when we were operating under the worst transmission cx possible. Only 1 bay of the antenna was operational, and our ERP at the time was abt 7 watts...antenna is in need of replacement...and badly corroding." (Nice).

9/24 0125-0233 91.1 WNUA Amherst MA (310) 1 kW Mostly RR. New. Fair-gd.

9/24 0301-0405 91.7 WRPH Wilmington DE (75) 6.52w. On 80-hr. marathon to raise funds to keep them going. RR.

Letter states in pt: "This ltr is to confirm your recep. of...WRPH-FM.. We are all vey excited upon hring of yr recep. of our sig as it is the farthest yet rcd... Effective radiated power 6.52 watts...Our stn is a student-op'd non-comm. FM stn located in the Mt. Pleasant High School 4 mi. N. of the center of Wilmington...." (Nice again, REW)

11/26 0517-42 104.1 WIOF Waterbury CN (270) ex-WWCO. New call stands for 104 (100-4). C&W.

11/26 1049-1115 94.5 WRVQ Richmond VA (100) "Ctry. Giant". Freq. hrd on the Bay despite distance, crowded channel. ex-WRVA-. "WRVQ \$ RR 94." "Super Q-rolls on". Local at the Bay.

Some other veries in since last rpt - WWRJ NY 95.3 2.4 kW; WBLN NY 107.5 2 kW; WYSU Youngstown OH 88.5 22.5 kW and WUNH Durham NH 91.3 1.75 kW. All letters. Ltr from WUNH says "You have set the distant record for rcving us - old records were from New Bedford MA (abt 100 mi.) and from an oil tanker - somewhere out in the Atlantic." (Tnx, Hank, please send verie info to Dennis Moe's column).

Verifications on FM at 631 from 31 states, Ont., P.Q. and Man., and also from Bermuda, Cuba and P.R. Doubt if we'll have much to rpt before spring as we're going to close the cottage in late Dec.

HO HO HO - I almost forgot - Merry Christmas and a Happy New Year to All. 73. (Thanks for supporting the column during '72, Hank. Perhaps you got some December Es before closing the cottage. Keep reporting in '73. REW)

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

This seems to be one of the worst trop months I have seen in some time (but one of your trop logs is very significant, REW). Will be starting work on my amp next week. I have finally acquired all the parts necessary for construction.

- 11/11 Tr 2207 WJCT 89.9 Jacksonville FL \$ CL (503), 2218 WGOV 92.9 Valdosta GA \$ C&W s/off ID on tape (430), 2223 WFAM 91.1 Jacksonville FL RR \$ (503) (unheard here, REW), 2240 WJIZ 96.3 Albany GA Soul (380), 2320 WJAX 95.1 Jacksonville \$ wx (503).
- 11/12 Tr 0150 WZGC 92.9 Atlanta GA (406), 0203 WAJM 103.3 Montgomery AL \$ MoR (289), 0748 WMDW 92.1 Dawson GA very weak, caught ID only (365), 1033 WKND 91.1 Memphis TN CL \$ (366).
- 11/20 Tr 2325 WSHE 103.5 Ft. Lauderdale FL \$ RR (676), 2329 WDBD 92.3 Orlando FL \$ (510), 2330 WCCF 92.7 Punta Gorda FL \$ wx (538), 2335 WEAT 104.5 W. Palm Beach FL \$ EL (666), 2345 WIRK 107.9 W. Palm Beach \$ Old Gold (666).
- 11/21 Tr 0000 WAXY 105.9 Ft. Lauderdale FL \$ MoR (676), 0007 WFTL 106.7 Ft. Lauderdale FL \$ nx (676), 0015 WVJR 100.7 Ft. Lauderdale \$ EL (676), 0100 WDRJ 107.7 Mt. Dora FL RR (527), 0103 WAIA 97.3 Miami FL \$ MoR (686), 0104 WJND 97.9 Palm Beach FL \$ EL (666). Those FL stns were some good catches but they were all reruns.
- 12/1 Tr Tampa & Clearwater stns were in pretty strong plus some Dallas & San Antonio stns.
- 12/4 Tr Many Dallas/Ft. Worth stns in like local quality. 2355 KSEL 93.7 Lubbock TX s/off, right through WVMI in Biloxi MS (741). (You can't say trop was bad this month, then, Ron; that is a very important logging; I have yet to hear a trop W. of San Antonio, and my map of TX is blank between El Paso (Es) and San Antonio (Tr). Your excellent catch shows what can be done on Tr, even in those dry lands of C. and W. Texas. REW)
- 12/5 Tr Many Dallas-Ft. Worth stns hrd. Then at 1700 the skip broke on TV. by 1725 it was up into the FM band.
Es 1748 CJOM 88.7 Windsor, Ont. \$ (945) (a relog for you, but unhrd here, REW), 1800 KDKA 92.9 Pittsburgh PA (930), 1815 WHKW 89.3 Green Bay WI \$ ed wx. (1006). Skip faded at this time. About 45 mins. on FM. Also had about 10 unid. stns., just not enough info to ID. (Contrast my Es that day, which began in El Paso TX and ended in Honduras. REW)

Well that's about it for this month. Seems to be too many low pressure systems moving in for any tropo cx. 73s. Totals now stand at 376 sta., 27 states, 6 countries, 2 provs.

Dr. Richard E. Wood, 820 Arlington Ave., Baton Rouge LA 70806. CSI.

A fine though patchy month w/ excellent bursts of all 3 propagation modes usually observed here in the South. Mid-winter Es began Dec. 5; Dec. 14, first anniversary of my first-ever Es in my FM DX-ing experience, was a good day. Noteworthy were two days when areas covered in Es here were partly or totally different from those noted by Ron, 80 miles away.

Particularly fine was the MS from Geminids, which brought me my shortest yet MS (479 mi.) and my first MS from N and NW (all previously hrd was from the NE). Tropo was good at times, notably a rather duct-like opening to GA/extreme SE TN Dec. 7. Its narrowness was useful, as the Gulf Coast w/ its many stns was not enhanced; many new Class A channel loggings were made, in some cases w/ GA stns covering closer AL or MS stns in roughly the same direction. Totals increased to 542 stns. hrd., states to 32 hrd., DC was also added, and best of all a new country, Honduras, #5, reflecting the recent coup d'état there w/ stns. seemingly running in a nation-wide chain (hence no local ID). Stns in the 88-92 range stand at 64 (well over the 10% recommended by Bruce Elving in his article on educ. stns). In the verification picture, Guatemala verified in highly professional, technical form, for 88.1 and 88.8. FM is certainly progressing in Latin America.

A wall-map has been installed, with different colored pins reflecting different propagation modes from different locations, in my DX den.

Richard E. Wood (Cont.)

Nov 21

0737-0800 Tr 93.1 WTMI Miami FL 779 Fine CL mx, "BC'ing from Sail-boat Bay w/ World's Finest mx"
 Dec 1 Tr unid's noted on 95.3 and 100.1; McAllen, Corpus Christi excellent at the time, strongly suspect Tampico, but not a word heard spoken; beam & mx styles seemed right, however. Interesting, because Glenn Hauser, who passed thru Tampico last Oct., observed no FM's active (Morning, local time). However, this reception was between 2200-2400. Will continue checks.

Dec 3
 0050 MS 91.9 WGTS Takoma Park MD 995 religious; confirmed by letter
 Dec 4
 0025-0035 Tr/GW 100.7 WQXY- Baton Rouge LA 7 on exciter only, less than 5 watts; confirmed phone/letter
 0035-0100 " " " " 7 power amplifier filaments turned off, less than 2 watts; QSL'ed

(Engineer was amazed to hear stn was getting out; seems he had mx running only for his own entertainment)

Dec 5
 0530-0545 Tr 102.7 KAFG Oklahoma City OK 504 auto Solid Gold synd.
 0600-0603 Tr 95.1 KAMS Mammoth Spring AR 415 SSB s/on for KAMS & KALM (AM) Thayer MO, into mx; 0603 WQNZ on
 1729-1740 Es 88.5 KTEP El Paso TX 907 nx, wx.; unnn.; began opening
 1730-1736 Es 94.7 KSET- El Paso TX 907 home-produced auto EL
 1745-1755 Es 97.3 WHP- Harrisburg PA 1050 "Island of Beaut. mx." auto EL
 1750-1756 Es 105.9 WCHD Detroit MI 933 nx, tel. interview, Black
 1758-1802 Es 107.3 WMAL- Washington DC 989 Georgetown spot, C&W; my 1st. DC
 1800-1810 Es 106.5 WRFK Richmond VA 922 \$, then ann next prog not in \$, non-comm., film critics, promos unnn. German mx., CL

1807 Es 97.3 WHCU- Ithaca NY steady sig., revolutionary
 1820-1832 Es 88.7 HR.. ..., Honduras calls, "Si al progreso"; mono.
 1753 Es 104.7 unid. auto EL, PTA: Great Lakes, PA; spot for "bonded roofing applicator" for homes; which states license such?

Dec 8
 1800 Tr 88.7 KUHF Houston TX 254 noted on air again after a long absence, perhaps for power increase from 12 to 20 kW erp.

Dec 7
 0635-0650 Tr 106.7 WDUN- Gainesville GA 507 funeral notices, remote wx.
 0655-0705 Tr 92.7 WXLI- Dublin GA 500 state nx, 0700 into UPI audio nx
 0707-0720 Tr 92.1 WDWD- Dawson GA 395 extensive lost dog info, nx, \$
 0720-0740 Tr 99.1 WMAZ- Macon GA 471 "\$ 99", Solid Gold auto synd.
 0741-0755 Tr 103.9 WCEH- Hawkinsville GA 480 wx remote, Contemp.
 0757-0810 Tr 104.1 WLAG- LaGrange GA 385 // AM, MBS nx., commentary
 0500-0520 Tr 97.7 WKEU- Griffin GA 460 well over WEZZ AL; MBS nx, sport
 0518-0530 Tr 100.9 WCJM- West Point GA 375 Ctry Gospel live, local spots
 0527-0540 Tr 100.7 WCLE- Cleveland TN 495 C&W, much DJ talk, farm rpt
 0546-0600 Tr 105.7 WAUG- Augusta GA 560 comic mx, live, C&W

Dec 11
 2230-2300 Tr 96.5 WJCL- Savannah GA 603 \$ auto standards EL/MoR

Dec 12 Geminids
 2241-2245 MS 91.9 WHRM Wausau WI 1005 nx, s/off; earlier hrd by Es
 2258-2300 MS 92.9 WWTV- Cadillac MI 1002 s/off, SSB vocal; again hrd.
 2330 MS 93.1 WXRT Chicago IL 808 ID, MoR in EE (previously had for. lang. this time) (both above earlier hrd. by Es)

Dec 13
 1720-1730 Es 93.9 XHMO Morelia, Mich. 971 request Mex. mx live mono
 1725-1730 Es 91.3 unid. probably XERSM México D.F. MoR auto EL
 Unn. KTEP 88.5 TX and Fabuestéreo Guat. 88.1 also noted; muf. 98.6 Guat. 1730
 2100 MS 93.1 KNUJ- New Ulm MN 970 Oil Co. spot, \$
 2130 MS 92.9 KAKC- Tulsa OK 479 RR, ID; prev. by Tr (my first such, and my shortest MS)
 2159 MS 92.9 KVOR- Colorado Springs CO 964 FM only ID
 0000 MS 92.9 unid. Great Lakes area? s/off "to return 6:25", off 0001

Dec 14
 1700-1730 Es 89.3 WHKW Green Bay WI 979 NPR // most other w.S.B.S.

Richard E. Wood (Cont.)

Dec 14									
1700-1730	Es	89.7	WUWM	Milwaukee	WI	895	Bruce's stn		
1700-1730	Es	90.7	WHAD	Delafield	WI	892	none of these rptd as no local material hrd		
1700-1730	Es	91.5	WHMD	Suring	WI	1005	// other W.S.B.S.		
1700-1730	Es	91.9	WHRM	Wausau	WI	1005	tx; Rib Mountain, hence call		
1705-1730	Es	91.1	WGGL	Houghton	MI	1155	Book Bulletin, give tel. #		
1712-1725	Es	90.1	WMBI-	Chicago	IL	808	live rel./CL mx., wx		
1719-1727	Es	97.3	WISN-	Milwaukee	WI	895	\$ Milw.; pickles, wine spots		

Please support the column; there's plenty of DX around. Next deadline Jan.13.

C.C.I. FM

[UNIDENTIFIED-DX]

Bruce Rummel
R.D. 1, Box 385
Fleetwood PA 19522
Deadline: 10th of month

JANUARY 1973

Many FM DXers were probably pleasantly surprised at the December 5th skip opening...with more Es hopefully following throughout the winter. The December 5th opening was a typical mid-winter opening...even producing some CCI!

Mr. Pat Dyer, 5315 Silvertip Drive, San Antonio TX 78228 CST

Thu Nov 16	Ms	95.1*1	0133	CST	- -	Test tone on burst, about 1 kHz.
Tue Dec 5	Es	88.5?	1800	CST	- -	Station mentioning WOSU and OH state ed. network (Probably WYSU Youngstown) (WYSU shows dinner concert, maybe plug)
		88.3?	1802	CST	- -	William Buckley program (Poss. WIAA)
		88.3?	1840	CST	- -	Featuring works of Brahms (WHWC, WIAA in probable target area)

Dr. Richard E. Wood, Department of Foreign Languages, LSU, Baton Rouge LA 70803

Tue Dec 5	Es	104.7	1853	EST	- -	Automated easy-listening, spot for "Bonded Roofing Applicator" for homes. PTA: WYDD Pittsburgh and WCWA Toledo OH. (WRMI-FM Morris IL matches beautifully with Dyer's probable WYSU but is only 775 miles..at 104.7. All 3 are EL)
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Mr. Leslie J. Prus, 1615 Pierre, Manhattan KS 66502

Thu Nov 23	Tr	98.1	2100	CST	- -	Under open carrier of KUDL, following heard: "You're listening to the quiet sound of KUBI" (Not KABI as wrong format. A real stumper)
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Note on item 1 on Pat Dyer's report above. The *1 denotes the station may have been 1 channel higher as well (in this case, 95.1 or 95.3 MHz.)

IDENTIFICATIONS Thanks to Robert H. Baker of Humboldt IA, Fred Nordquist's 90.1 MHz, un-ID on 7/15/72 has been solved as WOI-FM. I originally refrained from saying WOI- was it as indeed several 10-watters (class D) were in the PTA. Has anyone ID'ed a 10-watt FM via Es? (It is possible, as a 10-watter can produce as much as 100 microvolts off a dipole antenna at 1000 miles, during an efficient Es opening. This from NES Monograph 80 by Davies, mentioned in Pat Dyer's article on Es last month. Winter offers the best chance for this, as most 10 watt FM stations are off the air all summer.) Pat Dyer's 21 Aug Es with test tone the afternoon on 90.1 definite WEPR; 22 Aug Es 88.5 at 1550 CST probably WRAS. Thanks to DX column pgm. notes for these.

(Continued on page 28)

FM QSL CORNER

Dennis Moe
8140 Storms Hall
ISU
Ames, IA 50010
Deadline: Jan. 13

- ALABAMA:** WARI-FM, Abbeville 94.3. Spec. ltr frm Bob Walker, GM. Enc CM & returned rpt.
WBRC-FM Birmingham 106.7. Ltr written with broad-brimmed marking pen frm David (RW)
gleason, PD. Says old WBRC was once most powerful FM in the country-500kW. (RW)
WFMC-FM Monroeville 99.3. Spec ltr frm Harold Harris, Manager. (RW)
WTUN Selma 100.1. Pleasant, spec ltr frm James E. Lumpkin, CE. Enc CM (with old call-
letters WHBB-FM). Says my rpt is most dx. Previous farthest was Gadsden, AL. (RW)
WJDB-FM Thomasville 95.3. Spec ltr for first day reception Nov. 2, 1972 frm Cecil
Goodreau, P. Mine most dx rpt so far. (RW)
- ARKANSAS:** KBRI-FM Brinkley 100.3 (? DMM). Pleasant ltr frm Gus Elledge, M. My rpt
most dx. Very specific, sent copy of log for period heard. Enc sticker (not frm
station), calling card, and football sked. (RW)
- COLORADO:** KUNC Greeley 91.5. Very spec, pleasant ltr frm James T. Lang, Asst. News
Director (whose voice I heard on air). My rpt is 2nd most dx after North Carolina.
Enc very useful list/map of all NPR stations (KUNC is only one in CO), sked,
and brochure. (RW)
- FLORIDA:** WYOR Coral Gables 105.1. Spec ltr frm Earl L. Miller, Dir. Eng. Most dx rpt.
WSOR Fort Meyers 95.3. Spec ltr frm Mrs. Ann S. Collier, GM. Enc two monthly (RW)
program skeds. (RW)
- WVFM Lakeland 91.1. Spec ltr frm Mrs. Teresa Burkey. Enc CM. My rpt is most dx. (RW)
WTHS Miami 91.3. Spec ltr frm Roger R. Kobzina, PD. Describes stn as "one-man oper-
ation" (himself). Enc copy of FCC log for period of my reception, plus sked. (RW)
WEZX Tampa 104.7. Spec ltr frm Frederic T. C. Brewer, P. (RW)
WHFL Winter Haven 97.5. Ltr frm Randall E. Jeffrey, VP. Enc folder, calling card,
CM. My rpt is most distant. (RW)
- ILLINOIS:** WSIU Carbondale 91.9. Ltr and sked frm Jerry Querciagrossa, PD. (RW)
- IOWA:** KDMI Des Moines 97.3. Spec ltr after f/up frm Buddy Tucker, P-GM. (RW)
- LOUISIANA:** KJKL Shreveport 101.1. Spec ltr; enc folder of materials inc CM. Frm Hal
Evans, M. (RW)
- LOUISIANA:** WQXY-FM Baton Rouge. 100.7. Spec ltr for reception at a power of less than 5 watts
with the power amp and drivers off, but the filaments on; and at less than 2
watts without the filaments on; frm Terry D. Langston, CE. Only 7 miles, but
my lowest-powered varies in my entire DX career (15 years) (RW)
- MICHIGAN:** WKAR-FM East Lansing 90.5. Spec ltr frm Bill Winters, CE. Enc lavish booklet.
WOOD-FM Grand Rapids 105.7. Enc CM and spec ltr. (verie signer? DMM) (RW) (RW)
- WRIE** Detroit 101.1. Spec make-shift QSL card and ltr frm Lee Abrams, PM, at tx site:
20777 W. Ten Mile Rd., Southfield MI 48029, after ltr to Broadcast House,
Detroit MI 48219 went unanswered. (RW)
- MINNESOTA:** KLFD-FM Litchfield 95.3. Pleasant, spec ltr after f/up frm Darryl Hensley,
GM. (RW)
- KTCR-FM** Minneapolis 97.1. Ltr, spec, after f/up frm Johnny Edwards, Ops. Mgr. (RW)
- MISSOURI:** KHA Columbia 91.3. Ltr. frm Roger Karwoski, CE. Enc sked (RW). Ltr frm
Roger Karwoski, CE. ERP 100kW H, 97kW V. (RE)
- KSHE** Crestwood 94.7. Ltr frm Rick Lee, Stn. M. Enc bumper sticker. 100kW H, V. (RE)
KSYN Joplin 92.5. Ltr, brief but detailed, frm Wm. B. Neal, GM (RW).
KRES Moberly 104.7. Pleasant, detailed ltr frm Dick Womack, CE. States FM DX is
rising in popularity; 5 times as many FM rpts are received as Am. Enc postcard
snowing stn building (AM KWIX alone Ided on it) and FM-only CM. (RW)
- KCLC** St. Charles 89.1. Ltr frm Mrs. Marty Ackmann. Enc bumper sticker. Lindenwood
College; ERP 1500 W. (RE)
- KADI** St. Louis 96.3. QSL card and CM frm James Mitchell, Tech Dir. 100kW H, V. (RE)
KMWU St. Louis 90.7. Spec ltr frm Robert W. Thomas, GM. Says he is amazed to be heard
at this distance. Enclosed sked. (RW) Ltr and sked in 10d frm Robt. W. Thomas.
- WIL-FM** St. Louis 92.3. QSL card frm Tom L. Perryman, Pres. and GM. 97kW H, V. (GL)
KWTO-FM Springfield 93.7. Card, all details, with name of CE, Richard (RE)
Bowman, printed on it; copy of FM log for period I heard; and two booklets
including CM, rate card, etc. (RW)
- KTXR** Springfield 101.5. Ltr and CM frm Pete Likens, Administrative Ass't. Senior
Staff Announcer. (RE)
- KWPM** West Plains 93.9. Brief but spec ltr frm Laurel R. Thomason, Stn Mgr. (unsigned)
(RW)

- NEW MEXICO:KMTY Clovis 99.1.** Ltr in 3 months, 5d signed Gerald F. Fisher, CE.
Stationery used was somewhat confusing as the letterhead used was for KFDA-TV in Amarillo and satellite stns, and the address on the envelope was Llano Electronics in Clovis. Mr. Fisher stated that he was CE for a number of AM, FM & TV stns in the area, and appreciated the dx of the rpt because he enjoys VHF Amateur work.(PS)
- KBIM Roswell 94.9.** Although this was my most dx E-skip, only a brief uninformative ltr signed by John King, VP Operations, was sent.(PS)
- NEW YORK:WRLX Auburn 106.9.** Short ltr sent in hd signed by Herbert J. House, CE.(PS)
- WBFO Buffalo 88.7.** Ltr in 8d signed Fred W. Winters, CE. He complained like I do abt interference frm CJOM 88.7 Windsor. WBFO's pwr of 770 watts is obliterated everywhere except a few miles around Buffalo by CJOM's 160kW.(PS)
- WBNY Buffalo 96.1.** Vague ltr after f/up frm Joyce M. Enke, looking a secretary.(RW)
- WBLK Depew(Buffalo) 93.7.** Mimeographed form ltr signed George B. Murray, CE, giving transmitter and antenna details.
- WCMP Rochester 96.5.** Ltr in 7d signed Jacob Z. Schanker, Director of Engineering, and 2 windshield stickers. He expressed surprise at reception at 150 miles with rabbit-ears.(PS)
- WROC Rochester 97.9.** Sent large card used by AM, FM, and TV with FM indicated.(PS)
- WMHR Syracuse 102.9.** Ltr in 3d signed Clayton R. Roberts, CE, who says he attended a propagation conference here at the U of Waterloo. Enc religious booklet.(PS)
- WNCQ Watertown 97.5.** Sent card(handmade) signed Robert S. Marchara(?), CE. No details.
- OHIO:WAKR Akron 97.5.** Card used by AM, FM, & TV with FM verie indicated. Signed (PS) by Irv Knopp(?), Chief Operator.(PS)
- WBOE Cleveland 90.3.** Ltr in 20d signed William V. Nelson, CE. Card with tech details also enclosed. WBOE is run by Cleveland Public Schools(Board of Education).(PS)
- WCLV Cleveland 95.5.** Mimeo ltr with considerable tech detail. In a pers note at the end, Stephen P. Bellamy, E, states that they are always interested in receiving rpts as they are using a prototype antenna, the world's first directional ant with dual polarization. He also states that WCTF-TV, Ch 19 is not yet on.
- WGCL Cleveland 98.5.** Ltr with details signed by Sam Garfield, CE.(PS) (PS)
- WNCR Cleveland 99.5.** Ltr in 10d signed Jerrett L. Earle, CE. He also makes an apology for not having QSL card because "as you know FM stations get very few requests for QSL's".(PS)
- WZAK Cleveland 93.1.** Ltr stating appreciation at hearing from Canadian listeners. They also enc a ballpoint pen and a sked and invited me to visit the stn if in Cleveland. A QSL card was not enc although the ltr stated it was.(PS)
- WCOL Columbus 92.3.** sent card with personal note and signed by Tip(?) Carpenter, VP.
- WOSU Columbus 89.7.** FL with xmtr details signed by A.J. Boggioni, CE(PS) (PS)
Ltr in 7d signed Allen B. Hundley, producer; sked. Ohio State University.(AO)
- WQOD Youngstown 93.3.** FL and lengthy pers ltr in 33d, both signed Michael G. Orto, Eng Dept. Tech details and state that most dx rpt from Bruce Elving. Ltr also states that call letter change frm WBBW-FM was made when they switched to h-ch broadcasting, but the incompatibility of systems has propted them to set h-ch aside until a standard system is picked by the FCC.(PS)
- OKLAHOMA:KTEN Ada 93.3.** Ltr and CM for KTEN and KEOR. S signed James Wm. Lollar, Eng Supervisor. Numerous tech details and states that mine is most dx rpt.(PS)
- KINB Poteau 107.3.** Pleasant detailed ltr, apologizing for 11 month's delay in answering. Included CM. V. F. Nowlin, Mgr.(RW)
- KOSU Stillwater 91.7.** Spec ltr frm Ed Paulin, SM. Enc calling card, sked.(RW)
- KRAV Tulsa 96.5.** Spec ltr after f/up; returned postage, unuse1. Cliff Allen, Ops Mgr.
- PENNSYLVANIA:WVEN Franklin 99.3.** Ltr in 28d on WFRA stationery signed Robert H(RW) Sauber, GM. He states that the only other dx reception rpt came frm Baton Rouge on June 2.(Probably Richard Wood.)(PS)
- WGRP Greenville 107.1.** Card used for AM, FM, & TV with FM indicated. Detailed tech ltr written on back and signed Ken Anderson, CE, W3JEB.(PS)
- WITF Hershey 89.5.** Ltr in 3d frm Walter P. Sheppard, Station Manager.(AO)
- KDKA Pittsburgh 92.9** sent "Golden Jubilee" card used for AM, FM, & TV with FM indicated. Two months.(PS)
- WWSW Pittsburgh 94.5.** Card used for AM, FM, with FM indicated.(PS)
- WPIC Sharon 102.9.** Card used by AM, FM, & TV with FM indicated and signed William G. King, CE.
- CONTRIBUTORS:** Peter Sawatzky, Waterloo ONT; Adela Ossowski, Erie PA; and Richard Wood, Baton Rouge, LA; and Richard Eddie, St. Louis MO. 73 de Dennis.

AKRON, OHIO 44320
853 COPLEY ROAD

WAKR

WAKR 1500 KC 5 KW. WAKR FM 93.5 1 KW. WAKR TV CH 93 1500 KW.
ANT. 500 FT. HIGH ANT. 500 FT. HIGH ANT. 500 FT. HIGH

Confirming your reception of 6/12/72
Richard E. Wood Chief operator

WASAU, WISCONSIN, 54401

WASAU

UNOFFICIAL RECOGNITION OF THE RECEIPTS RECEIVED BY
WASAU-FM ON June 2, 1972

SIGNED BY R.T. Colwell TITLE C.E.

THE FORWARD GROUP STATIONS

WASAU AM TV WATY TV WKAU AM WKAU TV WTRF FM TV

WASAU AM WATY TV WKAU AM WKAU TV WTRF FM TV

WASAU WATY WKAU WKAU WTRF

KDHL

Fairbault, Minnesota

5000 Watts 920 Kilocycles
3000 Watts H & V 95.9 MC

This Card Will Verify Your Reception Report on the Following Date and at the Following Time.

DATE: June 2, 1972

TIME: 6:12 - 6:20 EDT

Yours is the most distant reception report on KDHL FM. We are displaying your report in our lobby.

R. E. Wood
Chief Engineer

WROK

5000 WATTS 50,000 WATTS

June 12, 1972

Dr. Richard E. Wood
820 Arlington Avenue
Baton Rouge, La. 70806

Dear Doctor Wood:

We were delighted to receive your letter. I have enclosed a confirmation card of your reception of WROK-FM on June 2. Time is not indicated on the card, but according to the audio sample you noted, you did pick us up at 5:59 -- 6:05 PM C.D.T.

According to our Chief Engineer, David Peacock, your reception of our FM is the most distant point he has on record. As for our AM, we did receive a letter from San Diego reporting clear pick-up.

The enclosed coverage map is not the best, and it will be changing. Currently our FM has a horizontal antenna system, but we are in process of filing with the FCC for permission to change to Circular Polarization. I will send you a new copy once we have gone to this system.

Our FM is automated and broadcasts 19 hours a day seven days a week (from 5 AM til 12 Midnite)* Our engineers also wanted me to mention that we are on the Dolby system We are presently using a Collins 830-F 10 KW final with a 1 KW driver. We now have a 6 Bay antenna located 231 feet atop of our AM tower, total height 238 feet.

Also enclosed is a station profile. I hope we have answered your questions. If you're ever in this area, do stop in. We believe our facilities are the finest in Northern Illinois and Southern Wisconsin.

Sincerely,
Roanna Petrie
Roanna Petrie, FM Programming

encl.

WROK, INC. 1100 TAMARACK LANE
PO BOX 602, ILLINOIS CITY, ILL.
617 390-2233

FM CCI (continued from page 25)

Shelby Remington, who has recently moved to a quiet location in West Haven CT sends a listing of Holiday Inn music stations. The HI program is aired 0000-0500 local time, so it may be worthwhile checking for Ms from these:

WHRL 103.1 Albany NY	WLTA 99.7 Atlanta GA	WSM 95.5 Nashville
WGIL 94.9 Galesburg IL	WJFM 93.7 Grand Rapids MI	WOCN 94.9 Miami
KOTE 106.3 Lancaster CA	KNOB 97.9 Los Angeles CA	WPAY 104.1 Portsm'h

Thanks to Ken Simon, Les Prus, Albert Ellis (by way of Les Prus), and Robert H. Baker for their help with FM program schedule needs. In the next several months, I will be trying to build up program schedule information on educational (88-92) stations which will help ID, hopefully, alot of low-band Es.

Effective with this edition of FM CCI is the workbook approach started by Les Prus in his column, November 1972 issue. If you live within reception range of any of the probable stations for the un-ID, check them out on the same day of the week at the time shown. When reading the column, put an x (thus -x-) by the un-ID you might be able to solve. 73. Bruce.

CCI TV

[UNIDENTIFIED-DX]

Leslie J. Prus
1615 Pierre Street
Manhattan, Kansas 66502

Unidentified TV DX
deadline: 10th of month

JANUARY 1973

First, I'd like to wish everyone a Happy New Year! '73... How could it be anything but a good year for DXers?

For approximately the next five months, this column will be essentially a catch-up operation, with an earnest effort being made to conquer the accumulated backlog of several hundred 1972 unIDed TV loggings. I will continue to accept unIDs, but for the duration, low-priority 1973 reports will be delayed. Those loggings which reporters indicate by an asterisk as high-priority unIDs (loggings likely to result in new stations for the DXer) will be processed in time for the current TV-CCI column if received prior to the 10th of month deadline.

Another problem continues to be the low rate of identification of the loggings in both CCI columns. I'm grateful to the few regular contributors of IDs, but this makes only a small dent in the total number of loggings appearing on these pages. I can see no other major reason for this extremely low ID rate but apathy among the general readership. If one considers the size of WTFDA, the apparent indifference of our "silent majority" is at quite a high level. I would request that all VUD readers (This means YOU!) check these loggings and help in the effort to solve the mysteries. At least 90% of the work has already been done for you: geographical PTAs (Probable Target Areas) and call letters of suspect stations are listed, timezone conversion has already been done. All that you are being asked to do is check a back-issue of TV GUIDE or tune the station in for a few minutes. If you do identify a station, send a postcard to either this editor or to the DXer who made the logging. Your effort will be appreciated. (It's also a good idea for the DXer to show his appreciation by sending the Ider a thank-you note, otherwise he may not feel it worthwhile to go to the trouble again in the future.) So, if any of the above is applicable, please add it to your list of New Year's Resolutions. Being a member of WTFDA should be slightly more than just subscribing to the VHF-UHF Digest.

While we're on the subject of resolutions, the following ID was received:

Paul Luchter: Your 7/2 video trouble slide (drawing, Aug CCI, p. 53) is definitely WPBT-2 Miami. (Tnx to Ken Simon)

Also received were these non-IDs and related material:

Ken Simon: Your 8/1 ch 2 is not CKPR (Tnx to John Ebeling)

Pat Dyer: Your 7/19 "TV 3" is not WTAR (Tnx to Glenn Hauser) which narrows it down to a possible WAVE-3. Your ch 2 on 7/19 (IHTP) is not KTCA (Tnx to John Ebeling). KTLA-5 schedule (refer to Aug 22) is as follows, PDT: 0900 "Gallery" community affairs, 0930 "Hermanos Coraje" novella, 1030 local movie begins. KTLA-5 Los Angeles ID slide style at left.

KTLA 5

Many thanks to Dave Pomeroy for making available to TV-CCI another full set of TV GUIDES. As soon as these October TVGs are indexed and cross-referenced with this editor's TV lists and maps, and all information is updated, the listing of unIDs in this column will continue. Hopefully the revisions will be completed by the time you read this. Thanks also to DXers Roger Brown, John Ebeling, Al Ellis, and Bill Heusmann for sending needed schedules for Ontario and South Dakota TV stations.

Still needed are TV schedules for the following areas: Alaska, Puerto Rico, Northeastern Quebec, Newfoundland, New Brunswick, and Nova Scotia.

This year it will be necessary to reduce the number of unIDed loggings sent to this editor, and one way of bringing the input down to a more manageable level is to enable the DXer to identify a greater number of his own loggings. The more stations you can figure out yourself, the easier it will be for all concerned.

There are four basic references used in identifying unknown television stations, and all members of WTFDA will have relatively easy access to them: (1) TV Station List (2) Single-channel TV Station Maps (3) the telephone company service of "directory assistance" (4) TV GUIDE. An accurate TV station list and companion maps are essential in determining the probable target area and the possible stations that may have been received. A revised WTFDA station list and maps will be published in the near future, and I recommend it wholeheartedly to TV DXers. Once the preliminary work of reducing the number of possibilities is completed, the program content will often reveal the identity of the station, but it takes a little effort. "Directory assistance" enables anyone to check, at no charge, the city in which any local advertising may have taken place, given the name of the business or its telephone number. Full details regarding the use of directory assistance can be found in the September 1972 CCI column. Probably the best reference for television programming is TV GUIDE magazine, which currently publishes 83 regional editions.

Until recently, availability of TV GUIDE to DXers has been rather limited, but it appears that by this spring it will be possible for any WTFDAer to easily obtain any edition of TV GUIDE he wishes. I suggest that DXers get those editions which cover areas frequently received by tropo and Es.

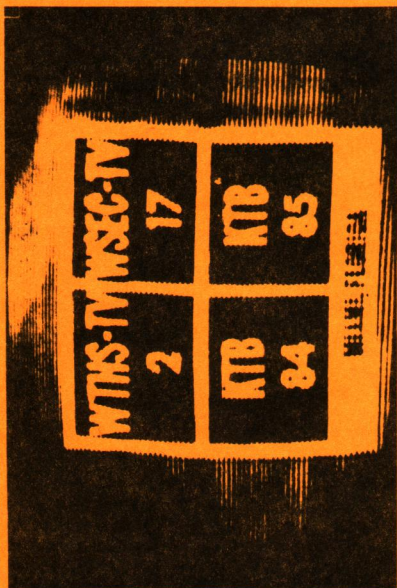
One way to do it is by trading with other TV DXers on a one for one basis; (See the TV Guide Coverage Map in the September VUD) though I do not want to discourage trading in this way, there are potential problems associated with it. To avoid duplication, it is probably best to order the TVG edition from the WTFDA member by enclosing 16 cents in coin and a stamped, self-addressed return envelope with your requests. I feel that under these conditions, any WTFDA member would be willing to fill the request for a TV GUIDE. A WTFDA membership list should be available soon.

Another way to obtain the TV GUIDES is to order them direct from the regional production office. At this time, several TVG offices are willing to make recent off-sale editions of TV GUIDE available to WTFDAers at no charge provided that a self-addressed, stamped TVG sized envelope is included with the request. This is being done as a special favor to DXers, and depends on the number of spare copies of TVG available at these offices. I hope no one will abuse this privilege and cause the TVG offices to cancel their kind offer. Guidelines to follow: use 6" x 9" envelopes or slightly larger (holds 3 TV GUIDES maximum) and write "2nd Class - TV GUIDE" on it. Second class postage rates, which can be used by DXers mailing TVGs to each other as well as the TVG office, are as follows: "Six cents for first two ounces, one cent for each additional ounce or fraction thereof." This rate is considerably less expensive than first class, but delivery is almost as rapid. DXers exchanging TVGs may want to remove the cover and glossy pages, and retain only the program section, as this cuts the total weight by 50%, and allows you to stuff more TVGs into the envelope. The return postage for one TVG in envelope is 9 cents (5 oz.), 2 TVGs in one envelope is 12 cents (8 oz.), and for 3 TVGs in one envelope it's 15 cents (12 oz.).

At this time, only six offices have agreed to send TVGs to DXers; these are CINCINNATI, MINNEAPOLIS, KANSAS CITY, SALT LAKE CITY, SEATTLE, and TORONTO. A complete list and addresses of the production offices and the TVGs available from each was on p. 43 of the December VUD. Please do not order from the remaining offices until I've notified you that they are willing to make the TVGs available. Also remember that the Toronto and Vancouver offices require return postage in CANADIAN stamps - perhaps in a couple of months WTFDA might have a stamp swap service available to take care of this eventuality.

Correction to TVG list: please delete the Southern Ohio edition from the Radnor, Pa. office and add it to the Cincinnati office.

Until next month, 73.



Top: WTHS-TV, ch. 2, Miami, 1155 mile Es on 5/15/72
 Bot: WSK, ch. 2, Sneedville, TN, 1010 mile Es, on
 5/10/72. Both from Glenn Hauser, Von Ormy, Texas.



Top: WIBT, ch. 3, Jackson, Mississippi, Ap '72 tropq.
 Bot: KRCV-TV, ch. 5, Meslaco, Texas by tropo. Both
 received by Ron Le Blanc, Nannero, Louisiana.

