

# From The Staff:

WTFDA Headquarters, P.O. Box 97, Calumet City, IL 60409

**A WICKED WINTER...** The winter of 1982 has produced very severe weather conditions for much of the Northern Hemisphere. For large areas of North America, it's now being called the worst ever. For DXers, high winds and heavy antenna ice build-ups have brought extensive destruction. Many DXers have lost their entire DX antenna arrays, and a few towers have come down as well. Incredibly enough, good DX conditions have taken place—though briefly—between the storms. This winter has exhibited a remarkable number of out-of-season E-skip sessions, and they have not been centered around a specific week, as is usual for the winter E-skip period. Good tropo openings have taken place also, although not as widespread.

**POSTAL PROBLEMS...** We've been receiving word of recent apparent foul-ups with the mail. Some DXers have reported copies of WUDs arriving with damaged covers, and Canadian members have been experiencing extreme delays. Please bear with us for now—we intend to look into this.

**WTFDA PROMOS AVAILABLE...** You may be hearing WTFDA mentioned on the air during that next FM DX opening. The club now has two 30-second public service announcements ready for airplay on any radio station that wishes to use them. Designed to make listeners aware of FM and TV DX, and of WTFDA, they feature WTFDAer John Zondlo's voice, and give our club's address for those interested in writing for information. If you'd like to hear them on your local FM station, and if the station will be willing to use them, write to John at 1308 SW 74th, Apt. 421, Oklahoma City, OK 73159 for more information.

**SPECIAL OFFER ON CLUB SUPPLIES...** If you've been considering ordering some club supplies, now's the time! With an order of \$5.00 or more, you can get a free copy of the classic WTFDA "DX Den" drawing by Harry Hayes. Check page 31 of this issue for more details.

**BITS...** We are trying to get earlier WUDs to you. Lately, the weather has been a major problem...A few columns that have been absent in the WUD in recent months will return in the next two months—and we're considering adding a new one on propagation, as well as a test pattern section.

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# MAILBOX

John Zondlo  
1308 SW 74th, Apt. 421  
Oklahoma City, OK 73159  
(405) 681-5991  
Deadline: 5th

### New Member:

Alan Millmaker

RR 6, Box 78

Centralia, IL 62801

### Renewals:

Bruce Elving, Neil Grandjean, Michael Hollis, David Janowiak, W.R. McIntosh, Gary Olson, David Rogers, Robert Schweitzer.

### Rejoin:

Armand DiFilippo-1825 S. Rosewood St.-Philadelphia, PA 19145

### Renewals Due in March:

John Bolduc, Fred Forn, Danny Buntin, John Callarman, Bob Coomler, Thomas Cornell, David Curvin, Clinton Day, Bill Draeb, Pat Dyer, Ronald Green, Christopher Hanley, Gerard Hart, Daryl Herzog, Glenn Jacobs, David Legler, Camilo Molina, David Nieman, Guy Ogden, Jim Pizzi, Les Price, John Robertson, Bob Seybold, Joseph Smith, Jr., Richard Steinberger, Robert Stonier, John Sulak, Philip Sullivan, Bob Umhoefer, Thomas Walsh, William Wild.

Let's let our only new member this month, ALAN MILLMAKER, intro himself: "I have been DXing FM a little over a year now, and as of 12/2/81 I had 259 stations both logged and on cassette. My receiver is a Lafayette 3030 with one CH6065 up about 30' with an inline amplifier. Plans for next spring are for a pair of 6065's up about 50'. I am also a member of LWCA and an active member on the two meter amateur band with a call of KA9GUL (sic)." Good to have you with us, Alan!

### Tidbits.....

Leading off this month is Hank Holbrook: "Regarding Mike Dalton's proposal on counting call changes- yes, we certainly should count call changes! In my first Statistics Column 'Rank with Hank,' which appeared in the NNRC bulletin of 11/69, I had questioned DXers who tuned BCE, FM, TV and other bands. The results-

(1) Do you count call changes?	Yes 29	No 19
(2) Do you count frequency changes?	30	18

I started out as a BCE DXer in 1946 and most listeners in those days not only counted call changes, but 'verified' their catches as well. It was not until I stepped down as Statistics editor in 1973 that the column included 'heard totals.' I think that statistics columns today have been cheapened by the use of 'heard' totals. My policy is that if a station has not been verified it does not count!!! It does not exist in my log until it has been QSLed by the station. Read Danny Buntin's comments in the November 1981 WHP-UHF Digest- 'Be positive you heard enough information from each station to constitute a 'catch.' Unfortunately, one of my reporters evidently did not follow that sensible pointer and ended up reporting stations not on the air, as I later learned. I don't care to tolerate such reports like that again and will consider rejecting any more reports received that show signs of indulging in such a dubious practice as evidenced by logging 4-8 stations within one minute (ex pg. 28-31 Sept.). Surely, it's not possible to adequately identify that many stations within a minute, especially when it's not hear the top of the hour.' A serious DXer who verifies his catches may only log and report 5 or 10 stations during an opening while the opportunist who only lists heard stations may say he heard 50 or 75 or more stations on the same opening. So how many DXers are including such information in their log totals that are submitted to the statistics column? Let's revamp the rules of the statistics column to allow for verified stations only (QSLed by the station) and count the call changes. Tape totals should not count as veries as listeners can swap tapes and falsify their totals. Some will say that some stations verify anything and that is true, but it certainly will be more accurate than heard and tape totals. Let's separate the men from the boys. The hobby is not complete unless you have a verification. After a long hard day at work, what can be more enjoyable than having that QSL from a rare station waiting for you? That makes it

(HOLBROOK, cont.) a complete hobby!!!!!!" Thanks for your comments, Hank. Allow me to make a few comments. First, DXing is the hobby of receiving distant stations. It is not to be confused with QSLing, which is only an adjunct to the hobby, and not the hobby itself. Second, QSLing is a dying art. With postage up to 20¢ in the U.S. and 30-35¢ in Canada, fewer and fewer DXers are verifying their catches, and since they receive fewer reports, station personnel are less likely to know what the hobby of DXing is all about and disregard any reports. Third, I've seen more written QSLs falsified than tapes, especially with the increasingly popular composite tapes DXers are putting together of their catches. Fourth, the DXer in question needs to review Bruce Elving's DXers Constitution for help in determining what is and isn't a catch. Although many don't follow RFE's rules to the letter, they're an excellent guide. Fortunately, said member is a rarity in the club. Finally, shouldn't the switch to including heard totals in NNRC indicate a changing attitude in the hobby away from purely verified-only totals? Again, I appreciate your comments, Hank. My comments on the call letter question have appeared earlier. Further comments are appreciated.

Now, a few words from Greg Kelley, "Do the members know that Delta Electronics is selling a kit to decode STV signals? It sells for \$125 and am wondering is any members have built one. I understand it will not work on channel 61 in Cleveland, but what about channel 20 in Detroit and 31 Ann Arbor? I've been reading the ads in Radio-Electronics about microwave converters...is there anything to it? Is any member testing out microwave equipment?" If you have the answers, write Greg at 211 St. Clair SW, New Philadelphia, OH 44663.

A correction from Dave Walcutt: "The photograph on page 29 of the October VUD is of someone other than me. I can't recall his name, either, but certainly he is owed an apology! But with the address change (last issue), you will probably get a second chance next meeting on Staten Island." Thanks Dave. The mystery DXer, incidentally, is none other than John Clemmer (isn't it nice to know you make such an impression on people, John, hi).

The next few comments are from member Eric Fader: "As a ten year 'veteran' (at 22??) of ECB and FM DX, I have developed my own philosophy regarding call letter changes. If I log a station with new calls, I count it as a new 'station.' I agree with Mike Dalton's observations as to 'wasted' DX time deserving of 'reward,' and also find that my system helps keep my interest alive in the 'dead' months. So, Mike, don't apologize for wanting to raise your totals, as though that were an 'evil'- as long as you don't mislead anyone by saying your totals represent 'z' instead of 'x,' who has the right to complain? My personal definition of a 'station' is an assigned set of call letters on an assigned frequency, in an assigned city of license. If any one of these assignments changes, I add a new number to my log. I don't report my totals to any column in the VUD, nor pretend to use any standard other than the above. I have logged a certain number of 'licensed FM entities.' I'm not out to fan the flames of DX controversy. When I report to Northern FM DX or to Dr. Elving's column, I use the prescribed forms and standards, but when I count my FM totals, behind my own closed doors, I freely confess to being a 'DX Deviant.' I have set certain personal guidelines for the sole purpose of adding to my enjoyment of the hobby, guidelines which differ from those of the club 'aristocracy.' I urge any of you to do the same, as long as you don't imply that you've heard anything you haven't. (In other words, recalculate your totals to conform to club rules before submitting them to the VUD! Just remember, it's your hobby!!"

Finally, this is from Ronald Purdue: "There is just a possibility that I may get the Winegard AC-9880 preamp installed at the antenna by mid-March 1982. The AC-9880 incorporates the UHF super low noise circuitry."

Thanks for all your comments this time around. I must confess to being a 'DX Deviant,' as Eric coined the phrase. I count stations by city of license, rather than transmitter site. Hence, WYCA 92.3 Hammond IN goes in the log as IN, rather than IL. The transmitter is 300' inside the state line (I used to work for the station, and it was quite a hassle to get to the transmitter, even when it wasn't raining!). I have IL logged anyway, so it doesn't affect my state total. Incidentally, WTFDA recorded PSAs are now available. There's a :30 on FM DXing, and a :30 on TV DXing. If you work in radio, or can get it on a local station, let me know. See y'all next month.....73.....jz

# QSL CORNER

FM-qsl's

- ON CKCU 93.1 Ottawa, Room 517, Carleton University zip K1S 5B6. Letter from Randie Long, Wood
- CO KYGO 98.5 Denver, 5350 W. 20th Ave, zip 8-214. Received a form letter from R. Lane (?) Engineering Dept in 2½ months. The form letter was stupid; began "Dear ECB DXer." (for FM side report? ed.) Hascall
- IL WRRG 88.9 River Grove, Triton College, 2000-5th Ave. zip 60171. Letter from Roy P. Millonzi, General Manager. Reply in 5 weeks for a 10 watter. Strobel
- LA KMAR 95.7 Winnshoro, Box 312, zip 71295. Memo sheet from Bob Henry, GM. Zank
- MI WIAA 88.3 Interlochen, 49643. Short, but friendly letter from Thomas M. Paulson, Station Manager in 19 days, return report too, so don't keep on file. Chernos
- WJFM 93.7 Graed Rapids, Letter after follow-up in 9 months from Dave Myers, Operations Manager. At 320,000 watts, they are the most powerful in USA & regularly get calls & letters from IL, WI, IN, ...I don't get them often here, I guess they protect WBLK- NY. Chernos
- WLDR 101.9 Traverse City, Broadcast Center, zip 49684. 9 months after a follow-up a letter from Don Wiitala, GM. Chernos
- MO KXCV 90.5 Maryville, Postcard, hand written, signed Warren Stucki, CE. Cooper
- NJ WRGO 88.3 Newark, 54 Park Place. Letter from Robert G. Ottenhoff, GM. Cooper
- WSNJ 107.7 Bridgeton. Card from Edward L. Rold, Exec. VP. Card shows their plant at night, with floodlights. Cooper
- NY WFUV 90.7 New York, Fordham University, The Bronx, zip 10458. Letter from Bryan D. Doyle, Asst. CE. Cooper
- WNCN 104.3 New York. Letter from James Koziol, CE. Address 1180 Ave. of the Americas Also send program schedule. Cooper
- WNEM 102.7 New York, 655 3rd Ave. Letter from Frederick J. Moore, CE. Cooper
- WNYU 89.1 New York, NY University. Letter from Vincent Montour, GM send a post card, hand written in. Cooper
- WGMC 90.1 Greece, P. O. Box 300, zip 14515. Letter from Louis Betstadt, GM & Supervisor of Bd & Comm. Send bumper-sticker & book (FCC oriented) on WGMC objectives & guidelines-63 plus pages. Chernos
- OH WKHR 88.3 Brainbridge, 17425 Snyder Rd, Chagrin Falls, Oh 44022. Letter in 1 week, 100 watts, signed by Andrew L. Kenen, Director. Says "I believe that you are the furthest listener that we have heard from." I heard then the day before they when off air for school summer vacation. Strobel
- WOSE 94.5 Fort Clinton, Box P, zip 43452. Send a thank you note & information about station at the bottom of my return report. Signed by Randy Hugg, Program Director also send bumper sticker, in 14 days. Wheeler
- OK KCSC 90.1 Edmond, Central State University, 100N. University Dr, zip 73034. Letter from William DeMand, CE. Holbrook
- KTEN 93.3 Ada, Box 10, zip 74820. Letter from James Lollar, CE. Holbrook
- KATT 100.5 Oklahoma City, Box 25787, 716 SE 79th St. zip 73125. Rugs Bunny stationary featuring him watching a cat on tv, signed by "Angie", a friendly note of verification. Chernos
- KLAW 101.5 Lawton. Letter in 12 days from Tween Scott, PD. George
- SD KIXX 96.1 Watertown, Box 96, zip 57201. Return my prepared card after follow-up, from Bruce Erlandson, Mgr. Holbrook
- KOAA 94.9 Aberdeen, Box 1770, zip 57401. Return my prepared card after follow-up signed by Laura J. Keller, Program Operations Mgr. Holbrook
- KVSR 97.9 Rapid City, Keystone Rt., box 15, zip 57701. Letterhead paper has erroneously states frequency as 97.2mhz. Letter from Jack J. Russell
- TX KYKR 93.3 Port Arthur, 3333-25th St., zip 77640. Form on report was signed by Phil Williams, PD & station pin send in 6 days. George
- KVLU 91.3 Beaumont, P. O. Box 10064, Lamar University Station, zip 77710. Form letter signed by Darrell Brosaou, PD in 10 days, George.

Reporters this time around are the following: Wood, Hascall, Zank, Chernos, Cooper, Strobel, Wheeler, George, Holbrook. Due to the postal strike in Canada I got alot to do for Saul Chernos, so I will try to use his items more often. I usually like to do a breakdown of states, & not do a real lot of one state, and then I like to get a little bit of everybody reports in so they don't have to wait so long to see their report item. If the membership would like to see another way let me know. Maybe do half of an page on one state of station instead of a breakdown of all states & provinces, etc. 73's Tom

Bill Fahber  
336 Atlantic St.  
Bridgeton, NJ 08302

## RETROSPECT PART TWO: BEGINNING OF THE BIG FREEZE

Last month's feature gave an idea of how television frequencies have been, and may still be, in a constant state of change. This month, and for the next few months, we will be dealing with a period known as the "Freeze." This covers a period from around 1948 to 1952. During this time, there were only twelve channels available, offset carrier frequencies did not exist, and the minimum mileage separation for co-channel stations was only 150 miles, and shorter in some cases. By October 11, 1948, there were about 150 licensed stations and permittees (various sources all differ as to how many were broadcasting at this time). While the vast majority of cities in the United States were without television stations, the northern Atlantic Coastal area was already becoming crowded, and the need for additional channels was already being felt (New York City, for example, had only four channel assignments). Another problem began to arise during the summer months of 1948, making it impossible for viewers as close as 20 miles to a transmitter to watch a decent picture; the culprit: tropospheric propagation, a favorite among VHF DX'ers. The public was bothered with pulsations, flutters, and bars across the screen, in addition to humming sounds of varying pitch.

On October 11, 1948, Wayne Coy, chairman of the FCC, announced a freeze on television applications. 303 applications already sent to the FCC were set aside; until the freeze was lifted, no more would be accepted. This freeze was expected to last only three to six months. It wasn't lifted until 3½ years later. Other problems arose, including a war and a fight for color television standards, not to mention heavy lobbying by pressure groups for educational television.

The FCC established an Ad Hoc committee to study tropospheric propagation, but the Radio Corporation of America (RCA) took the initiative to find ways to eliminate the problem.

Working on the theory that synchronizing the frequencies of two interfering stations would eliminate the bars and flutters, RCA began work at a laboratory in Princeton, NJ. A dipole with single reflector was built to receive WNBT, then channel 4 in New York City, 45 miles distant. An elaborate bridged dipole antenna with a very high front/back ratio was aimed at WNBW, channel 4 in Washington, DC, 180 miles away. To eliminate a weak signal from WNBT on the second antenna, a controlled amount of the WNBT signal from the first antenna was fed into the second antenna out-of-phase to cancel it out.

A phase detector developed a direct voltage proportional to the phase difference between the two stations. This voltage modulated a 1000 Hz FM generator, with the resulting FM signal transmitted by ordinary telephone to WNBT in New York, where an FM detector converted that FM signal back into voltage, which was applied to the reactance tube connected to the crystal control of the WNBT transmitter.

From November, 1948, to January, 1949, the two stations' frequencies were periodically synchronized, and observers in Princeton reported a notable improvement in reception of WNBT during those times when the signals were synchronized.

In January, 1949, RCA found it necessary to conduct its experiments at a point more centrally located between WNBW and WNBT, so a site was selected at the Western Union microwave site in Brandywine, Delaware, a few miles north of Wilmington. RCA made plans to include WGAL-TV in the project. WGAL-TV, which already had a construction permit before the freeze, planned to begin broadcasting shortly on channel 4. The synchronization project resumed on January 22.

General Electric and Westinghouse made arrangements with RCA to include WBZ-TV in Boston, and WRGB-TV in Schenectady in the project (both being on channel 4). A receiving point was selected at Wilbraham, Massachusetts, and antennas were erected, and synchronizing equipment was all ready to go, but the entire synchronizing project was suddenly scrapped. Somebody came up with an idea which was much simpler, much cheaper, and more effective: carrier offset frequencies.

If the beat difference between two stations could be made to differ by exactly one half the 15,750 kHz line frequency, the interference would appear as a very fine pattern of lines instead of wide bars or fluttering. Closed circuit studies showed that a greater signal strength from an interfering station could be tolerated when offsets were used.

But if two stations differed by 7875 kHz, a third interfering station could not have an effective carrier frequency for both of the other two stations. But by using an offset of 10,500 kHz above and below the normal frequency (a difference of 2/3 of the line frequency), three different stations could still be effectively protected, and the offset would still be close enough to cause a fine line pattern.

In the late spring of 1949, RCA got approval from the FCC to offset the frequency of WNBT by 10.5 kHz. Observations at Princeton showed tremendous improvement. On 6/17/1949 WNBT was restored to its original frequency. WRGB-TV and WGAL-TV were given a +10.5 kHz

offset; WBZ-TV and WNBW were given a -10.5 kHz offset. After numerous observations in various places from Massachusetts clear on down to Virginia, it was decided that the CCI problem had been solved at last.

And so one barrier to lifting the freeze has been torn down; four more remain: (1) the need to select a national standard for color television from among three proposals; (2) the need to find more television channels somewhere in the radiofrequency spectrum; (3) the need to redesign the table of channel assignments for maximum utilization of every available channel; and (4) the need to set a policy with regard to noncommercial television in response to pressure groups unhappy with what is beginning to be known as the "Vast Wasteland."

NEXT MONTH: The FCC adopts a national standard color system, but a lot of people see only red, in "A Change of Color."

### APPLICATIONS FOR NEW STATIONS

- ch ERP HAAT City/State/Applicant
- 68 2054 3040 Los Angeles, CA; Jewish Television network, Inc.
  - 32 3162 2263 Pueblo, CO; FEM Broadcasting, Inc
  - 32 1850 2140 Pueblo, CO; tvUSA/Pueblo, Ltd.
  - 34 4182 1035 Athens, GA; Georgia MountainCorp
  - 34 3034 1534 Athens, GA; Sunbelt Television
  - 8 100 1127 Johnstown, PA; Laurel Television (Can somebody tell me what happened to WJAC? It's still listed in the TV Guides for Dec. 1981, but neith it nor Pittsburgh Press give any program listings)
  - 21 5000 1949 Beaumont, TX; Focus Broadcasting of Beaumont, Inc.
  - 21 4610 1025 Nederland, TX; Gulf Communications, Inc. (Beaumont asgt.)
  - 7 10 .... Fairhope, AL; Crown Electronics & Instrument Company. Antenna 80' above ground. (Experimental, to test computer control of station while rebroadcasting local stations, satellite signals, and videotape.)
  - 68 2198 2884 Los Angeles, CA; Black Television Workshop
  - 68 1950 2879 Los Angeles, CA; Corporation on Disabilities and Telecommunications Corporation (sic.)

### Construction Permits Granted

- 51 1117 945 Ocala, FL; Big Sun Telev. Corp.
- 16 229 389 Jackson, TN; Golden Circle Bc'g
- 27 4270 760 Cheyenne, WY; Chrysoatham Corp.
- 25 ? ? Waco, TX; Blake-Potash Corp.
- 58 5000 1800 Stockton, CA; William H. Schuyler Company, Inc.

### Applications Dismissed

- Waco, TX; ch. 25; Business Communications, Inc.; Central Texas Broadcasting Company, Ltd.; Heart O' Texas.
- Tallahassee, FL; ch. 40; Octagon Broadcasting Company; Vencap Investment Corporation.
- Salt Lake City, UT; ch. 14; Golden West Broadcasters.

### Applications Modified

- 62 4775 862 Lawrence, MA; MFP, Inc.

### Applications to Modify Construction Permit

- 28 2950 ? Tampa, FL; WFTS; change TL.

### Construction Permits/Modifications Granted

- 12 122 2249 Helena, MT; KTVG
- 20 2888 1002 Waterbury, CT; WATR-TV
- 59 2588 1309 New Haven, CT; WTVU

### Applications to Change Existing Facilities

- 12 316 Walker, MN; KNMT
- 45 5000 896 Baltimore, MD; WBFF

### Changes in Existing Facilities Granted

- 19 1290 460 University Center, MI; WUCM-TB (began 11/12/81)
- 40 1706 417 Wildwood, NJ; WAAT; TL 2.4 mi. west of Sea Isle City (began 11/27/81) (They've been using only 102 kW for ten years, so look for a change in signal strength next DX season!)
- 6 100 1866 Temple-Waco, TX; KCEN-TV; TL 2.4 miles SE of I-95 on Eddy Blevins (any relation to Don?) Road near Eddy, Texas.

### Call Letter Applications: New Stations

- KLWY Cheyenne, WY; ch. 27, Chrysothom Cp.

### Call Letters Granted: New Stations

- KSPR Springfield, MO; ch. 33; Springfield Family Television, Inc.
- KWBA Pembina, ND; ch. 12; Satellite Television Service, Inc.
- WSWB Scranton, PA; ch. 38; SWH Associates
- KJAA Lubbock, TX; ch. 34; Troy Raymond Moran. (note Jim Pizzi's comments in last month's column.)
- WSCO Suring, WI; ch. 14; Northeastern Wisconsin Television, Inc.

### Call Letters Granted: Change Existing

- KTXH Houston, TX; ch. 20; KEON
- WRLH-TV Richmond, VA; WRHP-TV

### Stations On The Air

- KECH Salem, OR; ch. 22 as of 11/21/81 (Also, an article which appeared in a recent issue of Newsweek mentioned that the first LPTV station in the contiguous 48 states, K26AC in Bemidji, MN, and owned by John W. Bolter, began transmitting in December, 1981.)

### Changes in the Table of Assignments

- Oroville, CA; add 28z
- Arcata, CA; add 23z
- Roanoke, VA; add 38-
- Fort Walton Beach, FL; delete 52; add 53z. (The 52 assignment, added earlier in 1981, would result in either short-spacing, or aeronautical problems, or both, depending on where a transmitter would be built. An assignment on 53 does not present this problem.)

- Joplin, MT; delete 38; add 35z. (Petitioner, Garryoven Corp., intends to build a 1000 kW station to rebroadcast KTVQ in Billings. The ch. 38 assignment could not allow a good site due to short-spacing with new assignment of ch. 24 in Coutts/Milk River, Alberta. Garryoven plans transmitter site in Sweet Grass Hills, Montana.)

**Consolidated Hearings**

• Hollywood, Florida; ch. 69; Whiteo Broadcasters, Inc.; Family Television 69, Inc.; Golden East Broadcasters, Inc.; Christian Media of Florida, Inc.

• Melbourne, Florida; ch. 56; Broadcast Production & Management Corporation; Ellen Ann Thiessen

• San Juan, Puerto Rico; ch. 18; Comark Television, Inc.; Three Star Telecast, Inc.

• Toledo, Ohio; ch. 36; Toledo Telecasting, Inc.; Toledo Family Television, Inc.; Toledo Ohio T.V., Inc.; Channel 36, Inc.; TVUSA/Toledo, Inc.

• Wilmington, North Carolina; ch. 29; Wilmington Telecasters, Inc.; Cape Fear Telecasters, Inc.

• St. Petersburg, Florida; ch. 38; Bay Television, Inc. (TL 1 mile short-spaced to WXLN-TV, Sarasota, FL.); Home TV, Inc. (STV proposed); Oak Television of Tampa Bay, Inc. (STV proposed). Minority Broadcasters of Florida, Inc., a previous applicant, merged with Home TV, Inc., and their application was dismissed by the FCC.

• Denton, Texas; ch. 2 (noncommercial); Public Communications Foundation for North Texas; Denton Channel Two Foundation. The intentions of Public Communications Foundation are seriously questioned. The channel is assigned to Denton, but PCF proposes its city of license at Flower Mound, between Denton and Dallas, its transmitter site 28 miles from Flo. Mound, and only 12 miles from Dallas (near the site of several Dallas and Fort Worth stations), and studio location within Dallas City limits. The FCC questions PCF's intentions to serve Flower Mound rather than Dallas. (information sent in from Bruce Elving.)

**Results of Consolidated Hearings**

• Portland, Maine; dismissed application by Crosby Family Television, Inc. and granted application by Greater Portland Telecasting, Inc. for channel 51.

• Waco, Texas; ch. 25; FCC granted application by Blake-Potash Corp. and dismissed competing applications.

**Other FCC Actions**

• The FCC is fining John F. Cornell \$2,000 for unlawful operation of a low power television station on channel 7 from October 15 to 22, and for retransmitting satellite services such as ESPN and The Movie Channel. He claims he had verbal authorization for both from the FCC. (FCC report sent in by Bruce Elving.)

• Two applications for new television broadcast stations in Santa Fe, New Mexico are from New Mexico Media, Inc. (channel 2) and from Son Broadcasting, Inc. (channel 11). Although unrelated and not mutually exclusive, the FCC assigned them to consolidated hearing because of two issues they have in common: The question of city-grade contour coverage of Santa Fe, and the feasibility of reassigning those two channels to Albuquerque instead of Santa Fe. This action by the FCC results in red tape and foot-dragging. Because of the absence of any existing

station in Santa Fe, and because of its status as a minority applicant, Son Broadcasting is telling the FCC to either put up or shut up. The FCC, in passing the buck, gave the presiding judge authority to decide whether or not to separate the two applications. (FCC report #16689, supplied by Bruce Elving; cynical retorts supplied by you-know-who (not Dr. Elving) mainly because the FCC report betrayed obvious whitewashing. The report also failed to mention that both applications are over four years old.)

• I would LOVE to reprint an "agency evaluation" questionnaire that appeared in the November, 1979 issue of STV.

• Despite Section 73.642(a)(3), barring STV unless there are at least five broadcast stations supplying Grade "A" coverage to the community to be served by the STV station, the FCC is giving STV approval to Satellite Television Service, Inc for channel 12 at Pembina, North Dakota, whose only television service comes from WDAZ-TV in Devils Lake. However, Satellite must broadcast local programming during prime time. Spokane Television Service, Inc., owner of KTHI-TV in Fargo, North Dakota, objects on the grounds that Satellite bigwig John Bolter hadn't kept his promise to retire years ago. At least CKND-TV in Winnipeg had enough guts to admit it was afraid of competition. (report # 18089 from FCC, supplied by Bruce Elving; cynical retort supplied.)

**FCC Proposed Ruling on Teletext**

(This article is based entirely on a submission to the Federal Register, printed on December 14, 1981, pages 60851-60859. I felt it best to simply summarize the text in the same order in which it was written. In short, this is an FCC proposal for rule making. No decision is being made for any of the teletext standards submitted, but the FCC wants to set up guidelines for blanket approval for anybody wishing to experiment with teletext, or make teletext service available to the public.)

Teletext development has been pursued in several countries and there is interest in introducing this in the United States. The Commission received petitions from CBS and the United Kingdom Teletext Industry Group to authorize teletext service. These petitions make separate requests for a single system of technical operation. These requests are being denied. The term "TELETEXT" is used to describe broadcast systems that superimpose alphanumeric or graphic information on a television signal. They can be viewed on receivers equipped with special decoders. Teletext has a wide variety of possible uses, both program-related and unrelated, such as closed-captioning, weather reports, news, community bulletins, and comparative shopping prices. Videotext, a related service on common carriers and cable systems, can provide two-way capability.

Three basic systems have been competing for U.S. acceptance: the British system, the French "Antiope" system, and the Canadian "Telidon" system. Tests of each system have been conducted over the past few years in the

United States. The first was conducted by KSL-TV in Salt Lake City, using a modified British CEEFAX system. CBS also began using Ceefax over stations in Los Angeles and St. Louis. Stations presently using teletext are KNXT and KCET in Los Angeles, WFLD in Chicago, and WETA in Washington, D.C.

Efforts have been made by teletext developers to produce a common system for teletext. AT&T, CBS, and Telidon came up with the "North American Teletext Standard," a hybrid of Telidon, Antiope, and additional enhancements. The Conference of European Postal and Telegraph Authorities developed a videotex standard incorporating features from Britain, France, and Germany.

Recognizing teletext to be in the public interest, the FCC is considering opening some of the lines in the vertical blanking interval to teletext, but also leaving use of those lines for possible technologies in the future.

Rather than adopt one particular standard for teletext, the FCC is opening it up to free enterprise and competition. By introducing competition into a teletext market, the general public will tend to set its own interests into the policies of those competing in teletext, diversity of uses will come about, further development of the technology will come about, less government intervention will be needed, and there will be no monopoly to fix its own price.

The FCC does, however, propose certain technical standards under four general areas: vertical interval lines to be used, the bit transmission rate, pulse shape, and signal level of the pulse. Lines 14-18 and 20-21 are proposed for teletext except for remote control stations which are required to use lines 17-18 for test signals. The line-21 caption system will not be eliminated, but the FCC points out the superiority of teletext in closed-captioning over line-21. Tests conducted at KCET using lines 10-13 showed noticeable picture degradation in old TV receivers, but the FCC sees potential for future use of those lines with no interference to the picture. High bit transmission rates reduce waiting time for data, but it results in increased error resulting from ghosting by terrain or other factors, and may also produce harmonics interfering with the audio and video of the regular program. CBS's use of a 100% raised cosine pulse shape caused notable problems to cable systems, but a 55% roll-off as used in Telidon tends to produce overshoots which the TV can mistake for sync pulses. Signal level is measured in IRE units. Teletext uses a binary code where zero IRE units represents "0" and maximum level represents "1." 70-100 IRE units seems to be a proper range for teletext. Line-21 uses 50 IRE units. CBS and United Kingdom both suggested a reference pulse be used which an equalizer device in the decoder could use to compare data pulses and distinguish actual pulses from ghost images.

The line-21 caption system is designed to give priority to any emergency messages that

may appear open-captioned on the regular visual image. The FCC is proposing that teletext likewise yield to emergency open-captioning.

Regarding cable television, the FCC is concerned about the potential for adjacent channel interference being produced, and about the ability of cable systems to relay teletext pulses clearly. The question is also raised as to if cable companies are required to include teletext signals with the broadcast signals, or if they are permitted to erase them.

Comments by interested parties sent into the FCC have been mixed. Some oppose any rule making as yet, others suggest, as the FCC is proposing here, rule making, but with no preference to any particular standard. There were also replies supporting the CBS proposed standard.

ABC's comment called to remembrance the problems which developed when the FCC dealt with a standard for color television (which coincidentally happens to be the subject of next month's "Retrospect.") and stereo-AM standards. The United Kingdom argues that CEEFAX would be much cheaper, and is less susceptible to interference and transmission errors. The Canadian government is trying to push TELIDON as more flexible than the CBS proposal, even though no TELIDON proposal has been sent to the FCC. The National Captioning Institute, predicting that the hearing-impaired may need more than one type of decoder once several teletext systems come into use, requested that the FCC require that any teletext transmission containing closed-captioning must be accompanied by a line-21 captioning at the same time.

Many of the responses to the FCC urged that rule-making be done right away so that teletext may become a household reality. So this move by the FCC may be a major step toward that ultimate goal.

**REFERENCES FOR THIS MONTH'S RETROSPECT:**

I had intended to include references to articles and publications used in some of the feature articles in this column, but I often forget, as I did with this month's Retrospect. They are as follows:  
B.G.F., "Synchronization of Television Stations," *Electronics*, Feb., 1949, pages 72-74.

Fink, Donald G., "Television Broadcasting in the United States, 1927-1950," *Proceedings of the I.R.E.*, February, 1951, pages 116-123.

"A Study of Co-Channel and Adjacent-Channel Interference of Television Signals, Part One," January, 1950, published by the Radio Corporation of America, RCA Laboratories Division. (This is 20 pages long, and cost me a fortune ordering it from the Downtown Copy Center, but since it is not copyrighted I will send a copy to anybody sending \$2.00 and requesting it.)

REPORTS FROM CLUB MEMBERS:

From Danny Buntin, this article from the Tulsa Tribune, supplying some more informa- tilm on the squabble between KOKI-TV and two other stations, KJRH and KOKD in Oklahoma, on which I commented a few months back. In the article Mark Lipp, of the legal department of FCC's Policy Rules Division said that the Oklahoma Educational Television Authority may not be able to drop its request for the controversial change in the Table of Assignments, and that the FCC would listen to arguments by Jim Lavenstein on KOKI-TV challenging OETA's attempt to withdraw its request. Bob Allen of OETA dismisses Lipp's comment by citing a recent FCC ruling that once an application is dropped, the matter will not be pursued. So it seems that Lavenstein's sheer greed is doing a disservice to residents between Eufala and Tulsa.

Ronald Purdue sent in an article from the Minneapolis Star describing a problem in the Twin Cities. The applicants are now on the verge of getting their applications approved but this article, dated 4/13/81, gives some background. Two applicants have been uncontested and are waiting for approval. Buford-Wiking Television of Minnesota is the applicant for channel 23, and proposer STV. It already has the call letters KTMA-TV. Faith Broadcasting Network is the applicant for channel 29. Both stations lack a transmitter, and the financial means to build their own. The commercial VHF stations are legally obligated to provide room on their towers for future UHF stations. But one station has FCC approval to raise its tower, making it infeasible to put up another transmitter. Now the other VHF stations want to raise theirs also, and don't want additional UHF transmitters on them. In turn, the FCC refused to renew their licenses five years ago (that would be 1976). Ron also sent me a card from Sea World and notes that KJOG-TV, channel 51 in San Diego, Calif., is not on yet (as of Dec. 28).

Robert Grant sent in some network corrections for the WTPDA TV Station Guide. He uses the same codes as the Guide, and uses t and m to designate table and map, denoting which parts of the Guide should be changed.

Table with columns for call letters, station name, and status (e.g., former, new, t, m, AC, AN, ANC, AC).

Table listing station call letters, state, and frequency (e.g., 7 ND KQCD AC, 9 OH WTOV N, 11 GA WXIA A).

(additional note concerning ch. 7 in ND: new station in Dickinson, ND is KQCD-TV; ERP is 316kw; HAAT is 730 feet. -wbf)

VINELAND, NEW JERSEY:

WRBV, channel 65 in Vineland, New Jersey, has been having serious financial problems. The phone service had been cut off, and they are trying to avoid bankruptcy. Very few newspapers carry program listings; the TV Guide doesn't list it. The Selec-TV service provided by WWSG-TV, channel 57 in Philadelphia, seems to be superior to WHT. There has been talk of WHT taking it over like it did with WSNL in Smithtown, New York. I have noticed a surge of WHT advertising lately, so chances are WRBV may survive.

Canadian Notes

FROM WALTER PATTON
ch ERF primary city/province/network
2 99 CKND Minnedosa, Manitoba (ind.)
7 84 CICA Timmons, Ontario (TVO)
11 .46 CBCT Elmira, Prince Edw. Is. (CBC)

POWER CHANGES GRANTED

31 100 Charlottetown, P.E.I. (CBAFT-5)
11 1.9 Sept. Iles, Que. (CFER-TV-1)

APPLICATIONS FOR NEW STATIONS

21 .04 CBXT Viking, Alta. (CBC)
13 287 - Portage La Prairie, Man.(ind)
20 192 - Halifax, N.S.
20 .23 CBHT Caledonia, N.S.(CBC)
26 27 - Halifax, N.S.
2 .48 CJCH Sheet Harbour, N.S.(CTV)
5 .47 CKCWTV1 St. Edward, P.E.I. (CTV)
3 .26 - Camp Randall, Que.(SRC Anik)
Powers listed here are in kilowatts. Only those stations and applicants greater than .01 kilowatts are listed.

Speaking of Canada, doesn't Bigfoot live somewhere around Sasquatchewan?

NEXT MONTH: Retrospect, part 3; Meteor Scatter, part 2; and a look at FCC regulations of STV and its proposed changes.

FCC FM NEWS

Bruce F. Elving, Ph.D., Editor
4515 Avenue "E"
Kearney NE 68847, U. S. A.

READERS REPORTS, COMMENTS

WUTK \*90.3 Knoxville TN was to have come on the air last month, stereo, rock with some jazz. On 18 hours a day, 7 days a week. "In your Sept. column is a bad error...WRVR 104.5 Memphis is still mor (adult contemporary), not rock! Also, it does use "The River" as a nonID interchangeably with "FM-104."

WBOE \*90.3 Cleveland is still silent, while the SCA is active every morning with the "Cleveland Radio Reading Service" for the handicapped. The FCC was supposed to have held a hearing on its fate Dec. 7. In the Buffalo area, WBIV 107.7 has been sold and will become rocker WUWU. John Combs noticed I failed to list WUPT-FM #99.1 Gainesville FL on the maps. WGAG Orlando is, as I say, off, "and I have not heard another 10-watter WPFL #88.9 in Winter Park FL for a long time now..."

Danny Buntin also found some EMA errors, and notes: KMYZ 104.5 Pryor OK has been off the air for several months. KOCC in Oklahoma City is still on 88.9 rather than 88.5. "I am now hooked up for SCA. My interest in SCA got revived when I got specific instructions from Tom Yingling on how to install the adapter in my tuner. I got an adapter several years ago but was unable to install it myself and laid it aside and forgot about it. I received your new FM Atlas. It sure seems to be a dandy. I enjoyed the article on translators...I didn't particularly appreciate your remarks in the Atlas on AM radio...If the FCC approves of stereo for AM, it won't seem so antique any more..."

Nick Lombardi supplied many corrections to the new Atlas, and adds: "I am sorry to see the coverages on the 'New York City FM Dial' in Km instead of miles...I just hope you don't pull a fast one some day and change all coverages in the station directory to kilometers...I note the price of the Atlas has gone from \$4.50 to \$6.95. This represents a 54.4 percent increase in 18 months, and if this trend continues the edition for the year 2000 will cost \$1280!...I question the existence of WGRH #102.5 Marietta GA. I have never heard a trace of them in two years." Nick mentions an article in the Jan. Audio on rhombic FM antennas.

Eric Fader points out a problem channel 6 Philadelphia has from WXPX \*88.9, which makes that channel unviewable in parts of town.

The subscriber of KFJN 107.9 Jonesboro AR is the Arkansas Radio Network. Greg Monti has supplied a list of New York City "pirates": NINE-FM 91.9 noted the wee hours of a Sunday morning in Dec. "This pirate's been kicking around for years. KSNJ 91.5 has been heard simulcasting with NINE from time to time, but with separate IDs and local programming. WQVN 108.5 Queens NY is another pirate which has been heard with Q-108 nonIDs...A NY TV station recently did a piece on WBUZ 108.1 Sayville NY, a pirate who chose a good channel - it's wide open on Long Island."

CONTRIBUTORS: Frank Aden, Jr., Portland OR; Greg Ballak, Joliet IL; Michael Brodie, Wichita Falls TX; D. Buntin, Stillwater OK; John Combs, Orlando FL; Eric Fader, BaySide NY; W. Fat, Painesville OH; Ted Fleischaker, Louisville KY; Wendell Ford, Westville IN; N. Lombardi, Atlanta GA; Tim McVey, Knoxville TN; G. Monst, Silver Spring MD; David J. Nieman, Akron NY; Ken Onyszuk, Park Forest IL, who sent a clipping on WENF 98.7 Chicago celebrating its 30th anniversary as a quality, fine-arts station; Mike Reid, Willowdale, Ont.; Paul W. Urbahn, Radcliff KY; Roger Winsor, Portage IN. Typed on a loose IBM Man Card Composer. Contributions welcomed to this column!

New FM Stations Authorized

CA Covelo \*90.7 740, v; 3290; ethnic. Round Valley Inter-Tribal Radio.
FL Fort Myers \*90.1 100000 h,v; 870' U of South Florida.
MI Twin Lake (not "Twin Lakes," which is in Upper MI), near Muskegon \*90.3 100000 h,v; 480'; cj. Fine Arts Camp.
MT Havre 95.1 100000 h,v; 790'.
OK Enid KUAL 103.1 3000 h,v; 300'.
SD Pierre 92.7 3000 h,v; 270'.
WI Rhinelander \*91.7 100000 h,v; 365'. White Pine Community Broadcasting.

Call Letters

AL Ozark 103.9 WORJ (WAYD-FM)
AL Sylvauga 98.3 WMLS-FM "WMLS-FM"
AK Fairbanks 102.5 KQRZ (KEME)
CA Angwin \*89.9 KPRM (KANG)
CA Apple Valley 102.3 KAPV (KAVR-FM)
CA Woodlake \*90.5 KUFV (apparently not on 88.7)
CO Craig 93.7 KXRC (KRAI-FM)
FL Havana 104.9 WHHL
KY Central City 101.9 WKYA (WNES-FM)
MI Detroit 97.1 WJOL (WWJ-FM)
MN Crookston 97.1 KYCK (KDWZ)
NV Tonopah 92.7 KPAH
NJ Toms River 92.7 WOBM-FM (WOBM)
NM Clovis 99.1 KCLV-FM (KKOQ)
PA Central City 101.9 WKYA (WNES-FM)
TN Cleveland 100.7 WLVC (WQLS), S [AP Audio], not UPI Audio
WV Huntington 100.5 WKEE-FM (not WKEE-FM, as AM has different call letters), Key-100 nonID.
WI Sturgeon Bay 100.1 WSBW

FM ATLAS ERRATA

AR Fort Smith KMAG p. 114, list as \$, 2000', 100000 v, e
GA Jackson WJGA-FM 92.1 p. 74, not shown as \$ [stereo]
LA New Orleans WWOZ \*90.7 missing from maps
LA Springhill KTKC p. 77, list as 11, not 11 MA Springfield WSCB \*89.9 (not 89.3 - correct map)
MO Kansas City KBEQ 104.3 p. 80, has an unnecessary [after SCA symbols]
PA Ephrata 105.1 p. 123 listed under PQ
TN Chattanooga WMBW \*88.9 p. 87, U network left out
VA Norfolk stations p. 90 listed under Newport News
NF Red Rocks CKSS p. 93 has two \$ symbols
p. 12 no "\$" symbol for below average terrain.

Slogans/nonIDs

A.L Birmingham WQEZ 96.5 FM-96
AL Decatur WRSA 96.9 Beautiful-87
KY Jeffersonton WJVL 101.7 Joy-101
MA Lawrence WCGY 93.7 FM-94 (not strict)
MA Boston WHUE 100.7 101-FM
MA Brookline-Boston WBOS 92.9 Boston Stereo-93
MA Worcester WRSR 96.1 FM-96 (not strict)

Facilities

GA Milledgeville WKZR 102.3 300' (3000 h)
MA Springfield WSCB 89.9 has vertical, not 89.3. MN Bemidji KBSB \*88.7 vertical
MN St. Cloud WQVC \*88.1 vertical
NY Brooklyn WKRB \*103.1 (from 90.9) ON AIR with a "signal easily equaling second-adjacents WNEW-FM and WTFM..." along the Shore Parkway in South Brooklyn. Eight watts horizontal and vertical at 120 feet.
PA Edinboro WFSE \*88.9 has vertical
TX Marshall KBWC \*91.1 has vertical

SCA (67 kHz)

AL Albertville WQSB 105.1 no SCA, "The Country Giant"
AR Fort Smith KISR 93.7 TX (steady tone)
CA Pasadena KPCC \*89.9 talking book KROD-FM 106.7 no SCA
GA Atlanta WABE \*90.1 talk [ing book?]

IL Aurora WAUR 107.9 no SCA
IL Elmwood Park WXFM 105.9 no SCA
KY Paducah WKYQ 93.3 no SCA
OH Canton WTOP 98.1 TX
OK Clinton KCLL 95.3 no SCA
OK Grove KGVF 99.3 no SCA
OK Hobart KQDZ 105.9 no SCA
OK Lawton KLAU 101.5 music
OK Oklahoma City KATT 100.5 TX [chirps]
OK Owasso KCMA 106.1 TX
SC Seneca WBFM 98.1 CBS (not Mutual)
TX Wichita Falls KLUR 99.9 no SCA
KKQV 103.3 no SCA
WI Milwaukee WVCV 107.7 no SCA (had music)

Formats/Networks

CO Denver KADZ 105.1 k (no jazz), 105-Country
AR Rogers KAMO-FM 94.3 k, CBS, dual-city ID with Bentonville
CA Glendale KUTE 101.9 ABC-FM
CA Los Angeles KLOS 95.5 ABC Rock Radio, coded "k"
CO Greeley KGBS 96.1 rock, no network
FL Dunnellon WTRF-FM 102.9 k[country]
FL Ocala WFUJ 93.7 mk (days "very campy stiff, like cocktail lounge organ")
GA Columbus WCGQ 107.3 RKO (not T), The O
IN Lafayette WASK-FM 105.3 NBC
KS Parsons KKKC-FM 93.5 Mutual
KY Elizabethtown WQXE 100.1 ABC-1
KY Fort Knox WKKK 105.5 progressive rock
KY Hodgenville WKMO 106.3 k[country]
NY New York WPLJ 95.5 k (ABC Rock Radio)
WBLS 107.5 ABC-FM
NY Oneonta WIEZ 103.1 rm, The Source
OK Okmulgee KOKL-FM 94.3 rm
OK Tahlequah KEOK 101.7 all rock, UPI Audio, "OK-102"
TX Dallas KKDA-FM 104.5 soul, Mutual
TX Fort Worth KNOK-FM 107.5 B network

ABC DIRECTION NETWORK affiliates named (coded "D"):
MD Baltimore WPOC 93.1
MI Cadillac WITW 96.7
CA Carmelina Bay KEZC 101.7 (was Mutual)
MS Drew WKZB 95.3 (was ABC-FM)
MA Falmouth WCIB 101.9
OH Lorain WZLE 104.9 (was Y)
MI Pittsfield WUPE-FM 95.9
PA Pittsburgh WSHH 99.7
CO Pueblo KYNR-FM 99.9 (was I)
KY St. Matthews WRKA 103.1 (was Y)
OH Urbana WCOM 101.7

A.L Birmingham WQEZ 96.5 FM-96
AL Decatur WRSA 96.9 Beautiful-87
KY Jeffersonton WJVL 101.7 Joy-101
MA Lawrence WCGY 93.7 FM-94 (not strict)
MA Boston WHUE 100.7 101-FM
MA Brookline-Boston WBOS 92.9 Boston Stereo-93
MA Worcester WRSR 96.1 FM-96 (not strict)

# NORTHERN FM-DX

FEBRUARY 1982

For FM DXers in Canada, the Northwest-Central states of WA OR ID MT WY ND SD NE MN IA MO and states east of the Mississippi River and north of the Mason-Dixon line.

E-SKIP HITS THE NORTH ON JANUARY 3rd!

John Callarman - 1122 Maple - Mount Vernon, IL 62864

I've been severely limited on my ability to take advantage of tropo openings because of the flimsy antenna system I had until a little over five weeks ago. Even so, I had been able to get as far west as Lawrence, KS, and as far north on a Class A channel as Dowagiac, MI. November, I guess, is not a good DX month for FM, but with the new antenna system, it seems good.

We hired a commercial firm to put up the antenna, with instructions from Winegard, and amazed them when they got it up by nulling several locals and bringing in other stations on their channels, and by bringing in local quality signals on Nashville stations at about 195 air miles. The first day up, found WBLZ loud and clear on 103.5 and thought I'd really enhanced my normal listening. Unfortunately, the first day up was a particularly good day.

I suppose I should introduce myself. I started DX'ing BCB in the 7th grade in Corvallis, OR in 1947, turned to SWBC in 1950 when I discovered a fine shortwave column in the old Radio & Television News and learned I wasn't the only one DX'ing. In 1956, after I'd been working at KCOV (now KFLY) for about a year, I got a reception report from an NRC member, verified it, and learned about the NRC, of which I have been a member ever since.

I have sympathies with the volunteer editors of the various club publications, as I have filled that roll on several occasions. I edited a shortwave column for the old Universal Radio DX Club back in the late 50's, and did the foreign DX column from the NRC in the mid-60's. For about 15 months, I was the NRC publisher, and I have typed three full editions of the NRC Domestic Log. Right now, I'm tapering off..... doing a little listening for a change!!! (You deserve it, for sure.-RS)

I've been in the broadcasting business since 1955, working for stations in Oregon, Texas, Massachusetts, and here at WMIX as News Director since May of 1970. That will all change in the next couple of weeks, though, as I have accepted a position as City Editor of the Mount Vernon Register-News.

My wife, Janice, is a school teacher, second grade, and doesn't have much sympathy for DX'ing. Taped Highlights of a good E-skip opening do not thrill her at all. We have no children.

I enjoy reading the Bolin - Elving - Ernie Cooper style reports with comments about the reception as well as the listing itself. It's interesting that Ernie Cooper, who has been musings editor of the NRC since 1946 and an NRC member since the late 30's, should expand his interests to FM about the same time I'm getting serious about the FM band. Ernie and I have compared notes since I met him in Brooklyn in 1956 when I was stationed at Fort Slocum, New York.

On July 17th, while we were in Florida, a storm knocked over a tree, plunged a chimney through our roof, and toppled the old TV antenna that had been frozen onto St. Louis (and that was the only FM antenna I had). Insurance was available to replace it, so up went the Winegard's on a new tower, but I couldn't get the busy tower people to make the installation until October 29th! I've been "peeling the onions" on the various channels since. Here's a day-by-day rundown of the highlights. Equipment used is a Fisher 220, 2 stacked Winegard 6065's at 55 ft. Time is EDT.

October 31 - 0925 WBLZ-103.5, FM-103.5, the Class of the Tri-State, Hamilton-Cincinnati, Ohio, makes it in for first log on the channel previously squeezed by impenetrable KMOX-103.3. WJBM-FM 104.1 Jerseyville, IL, in with oldies, local Demento style, as I'd never before cracked WIKY Evansville, IN on this channel. Several other never before heard semi-locals like WAAW-103.7 Murray, KY; WNES-FM 101.9 Central City, KY; WVLJ-105.5 Monticello, IL; WTPR-FM, 105.5, Paris, TN; WBIF-105.5 Bedford, IN all taped.

November 2 - found the new WNNs-98.7 on with RKO Net News at 0937; WHLP-FM, 96.7 Centerville, TN taped with k and girl announcer, along with WVST-96.7 Bolivar, TN with k and girl announcer 2158-2230; WRTB Vincennes IN dominant on the channel.

November 3 - WOCH-FM 106.1 heard broadcasting donkey basketball game from North Vernon, IN at 1858.

+ Continued +

Ralph Strobel, editor  
2510 E. McCalliard Rd.  
Muncie, Indiana 47303  
Deadline: the 5th

NORTHERN FM DX

John Callarman cont'd:

FEBRUARY 1982

November 4 - WKYU-88.9 Bowling Green, KY with the mayor of Bowling Green aiding fund-raising campaign at 0957; the new WNKJ Hopkinsville, KY on 89.3 doing the same at 2055-2100, with address P.O. Box 1029, Hopkinsville, KY 42240, often non-ID's as "Christian Radio" and gives calls "Wonderful News of King Jesus."

November 5 - WVEZ-106.9 Louisville, KY good 2243; WTHI-FM 99.9 Terre Haute, IN with Beautiful Music; first station besides WEBQ Harrisburg, IL heard on this channel; First (and only so far), log on 98.3 at 2254-2300 in form of WRJB Camden, TN.

November 6 - KTKY-106.9 Jefferson City, MO new calls and format, playing adult contemporary instead of beautiful and giving non-ID "FM-107;" WKIR-104.1 Jackson, TN with k 2255-2300.

November 7 - Good Memphis opening, with WRVR-104.5, WHRK-97.1, and KWAM-101.1 all new to the tape file, along with KJEZ-95.5 Poplar Bluff, MO, and KHLs-96.1, Blytheville, AR, still on this channel with k music. WVKI-100.5 Kokomo, IN, with non-ID "KI-Country" (but plenty of call letter mention), noted after midnight.

November 9 - Budget cutbacks have trimmed WSIU-91.9 Carbondale, IL's schedule to 0700-0100 EDT, and at 0558, I had WFPK Louisville, KY on this channel. At 1000, KWK-FM 106.5 (ex-WWVK), for tape library. (I'm an old BCB DX'er dating back to 1947, and follow the tradition that the elements of a station are call letters and city of license. Just because I have WWVK does not mean I have KWK-FM...but what happens to WWVK when I get KWK-FM, throw the tape away?) (I keep all call changes on tape as a part of DX history-RS)

November 10 - Harbinger of things to come at 1658 when WMKY 90.3 Morehead, KY was taped at local level with local news. My target became Huntington, WV! At 1706-1715, WCNB-FM Connersville, IN was good with local news on 100.3; 96.5 is my bell-weather frequency and there was "Kiss-96" (WSKS Hamilton, OH), at 1715, with WBLZ-103.5 in too. Spent a lot of time with weak signals on 88.1 and 88.3, the latter turning out much stronger later in the evening for WAIJ Cincinnati tape; and other Cincinnati stations brought in loud and clear most of the evening were WAKW-93.3 with religious programs; WVEZ-92.5 "EZ-FM-92" with beautiful music, WRRM-98.5 "Warm-98," with adult contemporary; WKRQ-101.9 "Q-102," with harder rock, WUBE-105.1 "UBE \$-Country-105," WEBN-102.7 with black soul-jazz type stuff; and WVKU-91.7 ending "Lord of the Rings" Episode 11 at 2000. Unfortunately, I had to go cover a Rend Lake College Board meeting in my capacity as News Director at WMIX, but it was mercifully short. WNAS-88.1 New Albany, IN, was on special for a high school soccer game and was taped signing off at 2210. By gum, at 2254, my target for the night came in - WEMM-107.9 Huntington, WV, with religious programming, and beautiful music from WHEZ-103.3 with taped ID through hard-to-null KMOX at 2206 full ID (late). WENS-97.1 in Shelbyville, IN pretends to be an Indianapolis station, like WIKS-99.5, and was taped for the first time at 2315; WHIO-FM Dayton, OH found with beautiful music 2325-2335, and taped ID; WKDZ-FM Cadiz, KY taped in passing on 106.3 at 2343, and turned tape on 105.5 when heard station sloganing "Great American Country" at 2348, but it wasn't until several days later that I discovered taped ID added "Aberdeen-Amory's WHAT, FM-105." I'm not used to openings to OH & MS at the same time. If I'd been alert then, I'd probably have stayed up longer after MS stations. At midnight EDT I taped a full ID from WSKS-96.5 (which I'd heard on car radio earlier on way back from board meeting), mentioning only Hamilton in the legal ID.

November 18 - WMOT-89.5 Murfreesboro, TN noted 0928-0930 with local news by Wayne Murphy, followed by NPR news. That's not DX'er Wayne Murphy, is it? (Last I heard was that Wayne had moved to Nashville, so I suppose this is possible.-RS)

November 21 - KZNN-105.3 Rolla, MO in well 2218-2230 with a lot of promo's with call letters plus non-ID "Cousin Country-105," KMIS-FM 106.3 Portageville, MO s/off 2300, just after local WQRX Benton, IL departed. WCBK-FM Martinsville, IN on 102.3 in local WKSI null with long sports show to s/off 2326, presumably after basketball game. WJYN-105.9 Nashville, TN "Joy-106," with a true MOR format (similar to beautiful music but nearly all vocals), noted 2356 to 2358 ID. WBDJ-97.7 Brazil, IN, "DJ-97," taped with the seldom heard legal ID at 2300, "The Rock of Indiana." Then on 97.7, antenna south for KSTG Sikeston, MO with news and "Bootheel Weather" to 0006 11/22. WHOW-FM 95.9 Clinton, IL says it programs beautiful music from 8:30 to midnight CLT at full ID 0045; "Country-96" on 95.9 has automated format, and novice local announcer at 0100 break with NO ID AT ALL, only "Next up will be UPI News" in frightened voice. Left tape roll for 0201½ full ID from KWWR, Mexico, MO.

November 22 - conditions trying to open into Chicago area, but very sporadic. (Sporadic Tropo????) (Come now). WYEN-106.7 taped for half ID - calls, but no Des Plaines - "FM-107." WBEZ-91.5 was the only other Chicago station I could get, this at 2156-2159, closing Radio Visions program. On 92.3 logged first station besides WIL-FM is WGTC Bloomington, IN, ending ABC's This Week and going into local news at 2200. (I'd been switching back and forth for half an hour, and Murphy was good to me, taped both ID's). On 94.7 WKID Mayfield, KY conveniently gave full ID plus "Music Radio, D-94" at 2311.

+ Continued +

November 25 - "Tradio on the Radio" heard on 93.5 at 1005-1020 from WMMG Brandenburg, KY with call letters mentioned several times, but mostly "G-93." Never got 'em to say Brandenburg, though.

November 30 - 89.9 at 0955 had rocker NNW where WSOB with gospel and WCBU with classical held forth. Held til 1000 ID by little kids as WLCA in Godfrey. Must be up to 700 watts now. (They are, but haven't heard them as yet.--RS)

December 1 - noted at 1000 break on 97.1, KCFM gives only Florissant and not Florissant-St. Charles as they used to do when KSCF.

December 14 - I will make what may be a surprising change to some who knew me from other clubs. After 1 1/2 years as news director at WMIX and 26 years in the broadcasting business, on that date I become City Editor of the Mount Vernon Register-News.

Best Regards, John

\*\*\*\*\*

Ronald Purdue - Route # 1, Box 224 - Byron, MN 55920

Equipment: Realistic Modulaire-8 and Archer "Stereo Supreme" FM Antenna with Coax Lead-in. All new.

11/14 Au		11/21 tr	
1804 unID	92.9 ?? American FM Radio nx ???	1500 KCMR	98.3 IA Mason City, ID, ads 70
11/21 tr		1503 KRIT	96.9 IA Clarion, FB Game 112
1416 KNWS	101.9 IA Waterloo, r	11/28 tr	
1419 KXJX	103.3 IA Pella, r, "\$-103"	2125 WKKQ	93.9 MN Hibbing, r, ads, 235
1428 KEZT	104.1 IA Ames, EL, "FM-104"		Adj. WAYL off
1433 KBNQ	102.5 IA Des Moines, "Q-102"	11/29 tr	
1437 KIOW	102.3 IA Forest City, FB Game	1705 KWOA	95.1 MN Worthington, 153
1441 KLYF	100.3 IA Des Moines, EL, "K-Life-\$-100"		ads, Xmas Carols
		2120 KLGA	92.7 IA Algona, wx, ad 109
1453 KOSG	92.7 IA Osage, r, ads	2129 KLOH	98.7 MN Pipestone, r 184
(Time is CST)		2138 KZEV	103.1 IA Clear Lake, oldies 76

Hi There! This is my first report to the Northern FM-DX column, with the very first an unidentified auroral burst on the 14th of November! The loggings are all new. I started listening to FM back in 1969 when I was 16 years, with the old Realistic Astronaut-5 receiver which later went to the garbage. I hope to get a better stereo system sometime late in 1982. I don't know what brand name to buy at this time. Any recommendations? It will be a digital frequency readout. My old stereo is prone to overload on strong local stations. The new stereo will have MOSFETs in the FM front end and better sound.

Have any WTFDA members had problems with the mail lately? I had ordered the station QSL report forms and the stationery back in August and I still haven't got the two items yet! It seems the USPS is to blame for the mixup and I have a suggestion: Why can't the WTFDA supplies be sent by the United Parcel Service? It's safer and quicker that way. That's all for this month. See you in 30. 73 & Good DX, Ronald (Ed. Note: I ordered stationery on July 17, 1981, and have yet to receive it. According to Mike Hogan, the stationery was sent twice, but never arrived here. My August VUD did not arrive, but was sent with the September issue. The December VUD arrived with the cover almost torn completely off. It looked as if it had gone thru a war, with the back page being partly torn off! I suggest the covers be stapled to the VUD as they used to be. As of a great New Year's Eve party, Dave Brumfield told me he's never received an October VUD, even after writing headquarters some time ago. If the front cover was torn off in the mail, it will never be received. I hope this situation has been corrected long before now.--RS)

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Robert Ross - Box 4373 Stn C - London, ON N5W 5J2

10/31 gw		11/15 tr	
0840 CHRW	94.7 ON London, new station, University of Western ON, First day of operation, 50 watts of power	0159 WBFO	88.7 NY Buffalo 120
		0202 WGSB	89.3 OH Cleveland 110
		0207 WRVO	89.9 NY Oswego 240
		0245 WABR	88.3 NY Syracuse 260

Only five loggings since Oct. 31, but four are new stations. CHRW has a tower and transmitter located about one mile from my home. Power is only 50 watts. This station was previously on our cable TV system only, but finally got a regular broadcasting license after several years of trying. I am using a butchered Radio Shack FM Yagi now - was ten elements, but is cut down to four elements. Isn't the best, but can't fit anything larger on the balcony or the apt. Present log totals - 199 heard; 120 verified. Tuners used were Panasonic RF 1115 and Marantz 2226. 73, Robert

\*\*\*\*\*

Dr. Bruce Elving - 4515 Avenue "E" - Kearney, NE 68847

Not much to report, except that I picked up on 10/17 KAUB 105.5 monaural easy listening from Auburn NE at sign off just before 10 p.m. local time. Also, KDCR 88.5 Sioux Center IA is on the air, having moved from 91.3. They have satellite UPI Audio news, breathtaking quality! KHOK "K-101," Hoisington KS, just moved from 100.9, and now on 100.7 with 100,000 watts h & v at 450 feet. Owner confirmed my report, told me to visit and have lunch on him! I am revising my Kearney log, which now stands at 350 stations, with very few regulars in KS or NE counted. This winter I will add to this log and increase the quantity totals, if not the quality totals. I also am compiling a Kearney FM DX tape, which will have examples of FM receptions from CA and WA to PQ and FL. My last DX report was printed wrong in part. The call letters of the French-speaking station in Quebec on 89.1 are CKRL-MF, not CKRL-FM. "MF" is the way they say it, and makes it distinguishable as CKRL to DXers! I am now using a double-stacked 10-element Antenna craft yagis atop a rotator for FM. Stations like KHOK come in virtually all the time with full quieting. 73ily, Bruce

\*\*\*\*\*

Dave Nieman - 12284 Nice Rd. - Akron, NY 14001

On December 26th I put up a Channel Master (made in NY) Stereo Probe 9 at 40 feet. What an improvement over my fifteen year old Winegard at 27 feet. \*ID on tape. Tuner is Sansui G-8000.

11/10 MS (w/old Winegard Antenna)		12/13 tr	
0810 KFNH*101.1 KS Oberlin,	1140	0001 WJGS	*98.5 MI Houghton Lake, 320
"KFNH nx and wx"			m, s/off, WZIR off
11/14 tr		12/13 MS	
1700 CFQR	*92.5 PQ Montreal, m	0002 KTJJ	*98.5 MO Farmington 715
11/15 MS		12/26 tr (w/new Channel Master Antenna)	
1030 KBHP	101.1 MN Bemidji, r	WMHT	89.1 Schenectady, NY, WVWR 89.1
12/6 MS			Roanoke, VA, WBCL 90.3 Ft. Wayne, IN,
0202 KAOL	*101.1 MO Carrollton, k	820	WFUV 90.7 New York, NY; Nothing from
12/9 MS		415	these with Winegard; with C/M Ant. all
0231 WYVA	*94.1 VA Yorktown, k		were heard.
12/12 tr		12/27 MS	
1700-1730	E-skip MUF Ch. 2	1118 KAOL	101.1 MO Carrollton 820
1800 WFSE	*88.9 PA Edinboro, rk, ex-88.7105	12/29 MS	
1930-2100	E-skip MUF Ch. 5, ID Ch. 3 OK	0105 WUOA	*95.7 AL Tuscaloosa 830
I haven't received a reply on my request for a QSL from KBHP Bemidji, MN. I guess they don't bother to verify reception reports. I did receive a quick reply (7 days), on a request for a QSL from KAOL Carrollton, MO. In the letter they said they had recently heard from a DXer in Provincetown, MA. Maybe it was Ernest Copper?			
The Best of DX, Dave			

\*\*\*\*\*

Ralph Strobel 2510 E. McGalliard Rd. - Muncie, IN 47303  
Akai AT-V04 with \$-Probe 9 at 60 feet.

12/12 MS		1/3 Es	
0005 WKNC	88.1 NC Raleigh, prev. tr	1732 KKTt	95.9 TX K. Igore-Longview, 810
	"....This is NC State University...."		Ad for Putt-Putt Golf, Longview, "96-X"
1/3 Es		1734 KIKt	95.7 TX Houston, "Kick" 850
1723 KUHF	88.7 TX Houston, PSA, L	1738 KIXS	93.3 TX Killeen, "Kicks" 1000
1728 KRLY	93.7 TX Houston, d, "Love-94"	1740 KAYD	97.5 TX Beaumont, k, 900
1730 KTSU	90.9 TX Houston, j	850	"FM-97," ads

Many thanks to Dave Nieman for calling me when skip was heard on January 3rd. I then phoned Bob Zent. The entire band was full of skip. Unfortunately, it was a short-lived session and was gone in no time. Most stations were giving some stupid non-ID, so impossible to identify much in such a short period. Most Houston stations were as strong as locals for a few minutes. This will probably be the last skip any of us will hear until next May. Depressing, isn't it? 73, Ralph

\*\*\*\*\*

# SOUTHERN FM DX

Danny Buntin, editor  
1312 N. Skyline  
Stillwater, OK 74074  
DEADLINE: 5th

SOUTHERN FM DX

Holbrook, cont.

FEBRUARY, 1982

For FM DX reporters from: AL, AR, AZ, CA, CO, DE, FL, GA, KS, KY, LA, MD, MS, NC, NM, NV, OK, SC, TN, TX, UT, VA & WV.

## 1982 GETS OFF TO A GOOD START WITH ES

Jim Pizzi, Box 1778, Lovington, NM 88260 - Oct. 10 to Dec. 12 - MDT/MST

Equip: Akai AT-V04, JVC VT-900, JVC VT-700; TV ant. @35', Antennacraft 10 el. @5'.

Log totals 76.

10/10 tr (MDT)  
0802 KERA 90.1 TX Dallas

10/12 tr  
0035 KQIZ 93.1 TX Amarillo

10/29 tr (MST)  
0953 KFNN 107.9 TX Abilene

11/11 tr  
2359 KGNC 97.9 TX Amarillo, ID

11/13 tr  
2034 KOCV 91.3 TX Odessa  
2037 KKKK 99.1 TX Odessa  
2215 KBAT 93.3 TX Midland

11/22 Es  
2017 WMBI 90.1 IL Chicago, g

11/27 tr  
1627 KLR 99.9 TX Wichita Falls, sports, ID  
1630 KRLE 99.5 TX Lubbock, new call

11/28 gw  
2130 KTBA? 92.9 NM Artesia, new call?

11/29 tr  
1103 KHOC 105.5 TX Levelland, TX nx, ad, ID  
1127 KMUL 103.1 TX Muleshoe, r, Master Control  
1142 KKCQ 106.9 OK Clinton, "KC Radio" 294  
1515 KDKC 104.3 TX Borger, "Q-94"

12/9 tr  
2130 KNCK 107.5 TX Ft. Worth, s, FM 107  
2132 KKDA 104.5 TX Dallas, r, K-94 368

I bought an Akai AT-V04 on Nov. 9th in Houston, TX. My JVC VT-900 digital isn't working as of Dec. 10th--good timing on my part. I'll try to get the JVC fixed soon. The AT-V04 is very good--better sensitivity than either the JVC VT-900 or VT-700, selectivity slightly better on the AT-V04, audio frequency response much better. Should have Antennacraft 10 el. FM up @65' by the end of January. Will also have one (Ant.craft 10 el.) up @25' vertical, too, by then. Above loggings are with ant. @ 5' above ground. My location is 4000' above sea level and slopes down in almost every direction, very flat land out here, excellent DX location! 73's, Jim.

Hank Holbrook, 7211 Chestnut St., Chevy Chase, MD 20815 EDT

DXpedition #4, Fall trip of '81 season. Super Toyota FM rx and vertical antenna. From KEYES GAP, WV, route 9 between Hillsboro, VA and Charles Town, WV. Conditions were only so, so, but turned out to be a nice warm day and trip worth it for the scenery with trees changing color!! Logged for the firsttime!

10/16  
1020-1045 88.7 WSHC WV Shepardstown, about 15 mi., listed as 10 watts, a lot of talk (joking around and rock music) Strong but only heard when I went over to west side of the mountain.

1211-1244 102.9 WJSE MD Cumberland, 60, Playing a lot of old records with few ads.  
Remarks: IRP is 50kw but station having financial problems and are feeding 10 watts into the antenna which they figure gives them 200 watts ERP. Transmitter is at Dans Rock, cont.

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12/9 tr cont.  
2140 KVIL 103.7 TX Dallas  
2142 KMGC 102.9 Dallas, ID at 2202  
2144 KTXQ 102.1 TX Ft. Worth, Q-94, r  
2145 KOAX 105.3 TX Dallas, Unity Village MSG/ID  
2147 KMEZ 100.3 TX Dallas, ID  
2149 KNUZ 98.7 TX Dallas  
2153 KVTI 91.7 TX Dallas  
2155 KERA 90.1 TX Dallas

12/10 tr  
0910 KQIZ 105.9 OK Hobart, KQ-106, r 272  
1930 KACT 105.5 TX Andrews, K-485, r

ms  
1958 KZZB 95.1 TX Beaumont, "...KZZB".... 574  
tr  
2000 KFNE 95.3 TX Big Spring, mutual ID+K-95  
2205 KATK 92.1 NM Carlsbad, r, ID

12/11 tr  
0020 KGLV 99.1 NM Clovis, k, ID  
2338-0100 Dallas-Ft. Worth 102.1, 103.7,  
104.5, 102.9  
2346 KATX 97.40 TX Plainview (off freq on  
AT-V04--Does this count as new?) (No, DB.)  
2352 KOXE 101.5 TX Brownwood, k, ID

11/12 tr  
0035 KDDC 106.1 TX Denton, k  
Es  
1704 unID 89.9 (CKCO-2 & other Ont. stations)  
tr  
1713 KOHM 89.1 TX Lubbock, disco \$  
1810 KOMX 100.3 TX Pampa, k, Texas State Net.  
News, ID @2000  
1955 KPAN 106.3 TX Hereford, ID @1959,  
Diamond Shamrock Football Net.

at an elevation of 2400 ft. WDVN-TV CH 9 did a special program on this station a few days after my reception, and owner ran out on station about a year ago and a couple of staff members have hung on at no pay plus volunteers from the high school, etc. are keeping the station going.  
1056 to 1120 104.3 WJSY Harrisonburg, VA, 80 mi., Verie lists power at 20.5 kw and antenna is 130' with elevation of 2400 ft.

-From Fair Haven Cliffs, MD cottage 15 miles south of Annapolis, MD -DATE 11/14:  
1824 to 1902 103.1 WBEY Grasonville, 25 mi., 3kw, ex WAQA (Grasonville, MD)  
0755 to 0835 103.9 WOCQ Berlin, MD, 60 mi., 3kw, Brand new station but difficult to tune at bay. A lot of splash/WXTR. Their most distant report since coming on air June 25th.  
-1612 to 1642 12/4, 92.3 WYST Baltimore, MD, 40 mi., "92 star" and often gives WYST calls. That no doubt wraps up the FM activities here for 1981. 31 stations reported during the year on FM.

Danny Buntin, 1312 N. Skyline, Stillwater, OK 74074 (Dec. 7 to Jan. 6) CST

1/1 Es  
1715 WRVL 88.3 VA Lynchburg, ID, g  
1729 WHOV 88.3 VA Hampton, ID, s  
1743 WDAV 89.9 NC Davidson, ID  
1900 WPCS 89.3 FL Pensacola, ID

1-3 Es (MUF to 107.9!)  
1606 WFLS 93.3 VA Fredericksburg, ID  
1611 WPOC 93.1 MD Baltimore 1125  
1615 WGNV 107.9 VA Amhurst, ID, nx  
"Country stereo 108"

1/3 Es cont.  
1619 WTNJ 105.9 WV Mount Hope, ID, k  
1629 WPVR 94.9 VA Roanoke, ID, wx 970  
1630 WEXM 107.5 VA Exmore, ID, w/Meet the Press  
1635 WFVA 101.5 VA Fredericksburg  
1638 WMZQ 98.7 DC Washington, ID, r 1105  
1646 WWDE 101.3 VA Hampton, "2WD FM 101", nx  
1647 WKAY 99.5 DC Washington, ID, m  
1649 WAVA 105.1 VA Arlington, ID  
1651 WOOK 100.3 DC Washington, "OK-100"

I had to call off watching the rest of the Rose Bowl after I noticed signs of Es flashing on the playing field on ch 2, 1/1, which was just as well since CATV went off soon afterwards. Even so, caught WRBL-3 of Columbus, GA.

With a lot of emphasis in the club placed on using inexpensive receivers for FM Dxing, Radio Shack's mini-stereo tuner, the TM-102, may deserve some mention. Priced at \$59.95 (a \$20 reduction) the TM-102 has a sensitivity rating of 5 microvolts, comparing favorably with GE Superadio's 25 microvolts(max.). Unfortunately, R. S. does not provide a selectivity rating, so selectivity may not be a fine point with the TM-102 when compared with the superadios. Image rejection is a measly 40 db. Anyway, someone more interested than I might as well give the TM-102 a closer look if in the market for something like that. If the TM-102 seems good, getting sound out of it won't mean much extra cost if hooked up to R. S.'s \$12 battery powered amp/speaker. Throw in a \$12 pair of FM rabbit ears and one would possibly have a better performing DX system than a GE superadio alone at little more cost. I've also noticed that R. S. has an indoor FM amp and wonder if that could make a worthwhile addition to indoor antennas? Also the Jan. issue of Audio has an interesting article on indoor FM antennas of the rhombic type. All in the interest of better dxing without it costing a fortune. 73  
+ + + + +

## NEXT MONTH in the V.U.D.

THE YAMAHA T-2  
FM TUNER--  
IS IT IDEAL FOR  
FM DXING?

# VHF-UHF DIGEST

the official publication of the  
Worldwide TV-FM DX Association

THE PHYSICS OF  
METEOR SCATTER--  
PART TWO OF AN  
IN-DEPTH LOOK

THE "WORST WINTER  
OF THE CENTURY"  
ALSO HAD SOME DX!

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# EASTERN TV-DX

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

Deadline: 1st

February 1982

During the past reporting month Tropo activity was down, however there were a few days of unexpected E-Skip activity.

Thomas J. Yingling, Jr., 221 Pinewood Road, Baltimore, MD 21222 EST

September 1981	October 1981	October 1981
20 Tr 2306 W25AA VA W41AC VA 2312 W60AC VA W64AS DE	(WCQR) new semi local testing. Will be STV. 31 Tr 2030 WPCB-40 PA Greensburg 2100 W36AB MD Oakland(WWPB) 2105 WVVU-24 WV 2115 WKBN-27 OH 2125 WUTV-29 NY 2130 CBLFT-25 ON 2145 CICO-19 ON 2200 CITY-79 ON 2217 WENY-36 NY 2228 WAKR-23 OH 2254 WPTT-22 PA Pittsburgh 2258 WPGH-53 PA 2304 WKPI-22 KY Pikeville	31 Tr 2330 WMSY-52 VA t  November 1981 1 Tr 0010 WFMJ-21 OH 0030 WKPT-19 TN 3 Tr 2318 WKFT-40 NC Fayetteville (CBS Late Movie) 2357 WUNK-25 NC 4 Tr 0000 W19AE NC Jacksonville(WUNK) 0002 WUNJ-39 NC Wilmington 0030 WSBA-43 PA(rare) 0054 WPE-15 SC Florence 0058 W52AB NJ(with WPDE) 0115 W25AA VA(w/WLYH & WPDE.)
21 Tr 2000 WREB-65 NJ	2100 W36AB MD	
27 Tr 0015 W25AA VA (w/WHYN)	2105 WVVU-24 WV	
0021 WSNL-67 NY	2115 WKBN-27 OH	
0038 WTVB-51 PA	2125 WUTV-29 NY	
0045 WHAG-25 MD	2130 CBLFT-25 ON	
0050 WTVZ-33 VA	2145 CICO-19 ON	
0046 W61-- unided with movie.	2200 CITY-79 ON	
0100 WXTV-41 NJ	2217 WENY-36 NY	
0105 W35AB PA	2228 WAKR-23 OH	
0131 WSEK-38 MA t	2254 WPTT-22 PA Pittsburgh	

October 1981

27 Tr 1632 WCQR-50 DC

"I got a surprise opening 10-31, 11-4 which was fun to watch when I thought the good tropo were over; and I got SC finally SL'ed on uhf after the many I logged. A new state on uhf, (SL'ed)." Equipment: Finco 5' uhf dish up 50' with Blonder Tongue CMA-Ub; Channel Master Quantum 1114 for vhf.

Frank Wheeler; 6589 Wattsburg Road, Erie, PA 16509 EST

August 1981	November 1981	November 1981
1 Tr 1000 WCTE-30 OH 185	13 Tr 2320 WNDU-16 IN 318	14 Tr 0801 WTVS-56 MI 154
5 Tr 0730 WILX-10 MI 236	2326 WPTA-21 IN 261	0810 WKON-20 MI "
6 Es 1300 WESH-2 FL 902	2330 WSEB-22 IN 318	0830 WFUM-28 MI 195
1330 WKY-4 OK 1040 (now KTVY)	14 Tr 0755 WCMU-14 MI 262 Flint	
19 Tr 0829 WNDU-16 IN 318	0800 WKBD-50 MI 154	1900 WQPR-62 MI 154

Log totals: 282 seen - 215 verified. Equipment: Sylvania 24" TV; Archer WU-160 antenna and Servo-Rotor.

Marvin Shults; R.R.#1, Toulon, IL 61483 CST

November 1981	November 1981	November 1981
12 Tr 1900 Detroit U's CKCO-42 ON 2100 WCLQ-61 OH WQLN-54 PA 2103 WUAB-43 OH WVIZ-25 OH	13 Tr 1930 WIHT-31 MI 28 Tr 2054 WCTE-22 TN Cookeville "pledge drive" 2059 WLKY-32 KY 2129 WDDD-27 IL Marion "Independent Network News"	29 Tr 1030 WLKY-32 KY 30 Tr 0829 WLKY-32 & WDRB-41 18,27,36 Lexington 0830 WBGU-57 OH W68AA IL 0840 WKYH-57 KY 0859 KET stations - 23,29,35(which one?), 46,52,53,68.
13 Tr 1824 WKYT-27 KY 1825 WTVQ-36 KY 1828 WFIE-14 IN 1930 Detroit U's	2200 WKPD-29 KY t	

"I heard an ad on Milwaukee FM asking for pledge donations for a new ch. 30."

Robert Ross; Box 4373 Station C, London, ON N5W 5J2 EDT

"Not too much TV-DX during November, but did have three good tropo days - 13,14 & 15. Managed to pull in four new stations on uhf. CBLFT-44, Peterborough, a real surprise on the 14th. Nothing else from that area in but it was in like a local. I generally have bad reception to the Northeast as I live in an apartment bldg. and NE is pretty well blocked by buildings. Present log totals - 190 seen, 119 verified."

Eastern TV-DX

November 1981
13 Tr 0505 WTVQ-36 KY 380
0508 WIET-31 MI 175
0510 WFTI-64 OH 315 Cincinnati
0515 WHME-46 IN 275
0517 WSNS-44 IL 335 Zanesville
0518 WYTV-33 OH 140
0524 W28-- OH?
0531 WGR-2 NY 125

Ross; continued---

November 1981	November 1981
13 Tr 0534 WKBN-27 OH 140	13 Tr 0654 WHME-40 IN 330
0541 WKCF-22 OH 275	0658 WGTB-30 OH 150
0543 WOTV-8 MI 225	14 Tr 0828 CBLFT-1-44 ON Peterborough 175
0545 WUHQ-41 MI 215	15 Tr 0000 WUHF-31 NY 185
0550 WHIZ-18 OH 225	0005 CITY-79 ON 120
	0230 WXXI-21 NY 185
0555 WPGH-53 PA 200	Equipment: 12" Toshiba TV -
0614 WJRT-12 MI 130	rabbit ears on VHF - Flying
0656 WIPB-49 IN 300	

Arrow ant. on UHF. All antennas on balcony at 120'.

William R. Hepburn; 5659 Highland Ave., Niagara Falls, ON L2G 4X2 EST

"It's the end of the month and time for another DX report. 'Friday the 13th' ended up being lucky again with my best tropo since '76 from Niagara. Thirty-two and 38 Chicago at 460 miles and 16 & 34 South Bend made Illinois & Indiana states #27 & #28. Totals now up to 236.

Also, some Es yesterday (the 29th) -- just enough to remind me what it looks like (coincided with great LW-DX). First identifiable Es since August 6th.

Also, some Ms bursts on ch. 2 on the 23rd not recorded. Some notes from the October WUD:

Is CKTV definitely a new call sign for CKCK-TV as I too saw a "CKTV" I.D. (I haven't seen their new call yet; all I know is what's reported in the WUD. -wd) Since I.D. is not mandatory here in Canada, CKTV could be short for CK-CKTV just like ITV in Edmonton (instead of CITV), ICTV in Vancouver, MTV in Toronto, and so on - these stations do not give their proper call signs. Maybe some official word of the change, if not already received, will come soon!

CEKT-1 is the new call for ch. 4 Moose Jaw, SK since they no longer originate broadcasts. They now rebroadcast ch. 9 Regina, CEKT (formerly CEKRT). Also, affected is ch. 10 Willow Bunch which is now CEKT-2. CEKST Saskatoon still originates broadcasts and is unaffected.

As far as CICI-TV (or CICA-TV?) ch. 5 is concerned: These may or may not be the new call letters for CKSO-TV Sudbury. I myself still have not been able to verify this change since ch.5 no longer has an audio I.D. - only video - which has not broken thru CBLT well enough for quite a while.

Also, CKNY North Bay has moved from ch. 10 to ch.6."

November 1981	November 1981	November 1981
2 Tr 0740 Detroit U's 210	13 Tr 0732 CBOT-4 ON 230	13 Tr 2022 WTOL-11 OH 250
0808 CLOT-4 ON 230	CICO-24 ON "	2231 WGVC-35 MI 325
0813 CEFT-9 ON "	CEOT-40 ON "	2308 WQAP-49 MI t
CICO-24 ON "	0735 WNPI-18 NY "	(testing yet?)
0814 CIWO-30 ON "	0830 WJRT-12 MI "	(not that I know of -wd)
Hull-Ottawa ("Radio quebec")	0833 WNLW-5 MI 240	14 Tr 0011 CICO-19 ON t
0815 CHOT-40 ON 230	0836 WPEH-7 MI 335	0709 CICI-24 ON 230
Hull-Ottawa (TVA net.)	0838 Traverse City	0858 CBOT-4 ON t
0825 CJOH-13 ON "	WNDU-16 IN 375	WUCM-19 MI 240
0910 WCMU-14 MI 280	South Bend	0901 WCMU-14 MI 280
0918 WUCM-19 MI 240	0839 WUCM-19 MI 240	Detroit U's 210
University Ctr.	0840 WKZO-3 MI 335	1102 WNPI-18 NY 230
1048 WKAR-23 MI t	Kalamazoo	1117 CHOT-40 Pq "
5 Tr 0820 CICI-5 ON 255	0852 WFLD-32 IL 460	1541 CIVM-17 Pq 315
0825 W33AB NY t	Chicago	Montreal
13 Tr 0710 Detroit U's 210	0855 CIVO-30 Pq 230	1600 CFCF-12 Pq "
0711 WEYI-25 MI 245	0856 WKAR-23 MI 275	CJOH-8 ON 250
0714 WDIV-4 MI 215	0903 CICI-5 ON t	1607 CFTM-10 Pq 315
0715 WWTV-9 MI 325 (in all day)	0922 WCFC-38 IL 460	Montreal
WCMU-14 MI t	Chicago	2326 W33AB NY t
0716 WIHT-31 MI 240	1006 WFIT-34 IN 375	29 Es 1853 KFDX-3 TX 1230
WUHQ-41 MI 315	South Bend	1859 KOET-3 OK 1045
	1021 CEFT-9 ON 230	2015 KBTX-3 TX t
	1646 WFUM-28 MI 240	Total now at: 236

J.J. Rosenberg; 10 Van Horn Court, Thornhill, ON L3T 5R1 EST-EDT

"This is my first report for quite some time. My medical practice has been keeping me very busy. Without any notice of conditions from a couple of friends in town who are no longer active, it has become a little difficult to pick up any good DX. With the TV hooked up to cable for viewing, I get lazy to routine-ly monitor conditions."

Table with columns for month/year and station details. Includes entries for May 1981, June 1981, July 1981, and September 1981.

"I was interested to see reports by Southern Ontario and Michigan DX'ers (in Sept. & Oct. WUD's), of strange signals over CBLT ch.5 Toronto. This prompted an immediate telephone call to CBC inq. I spoke to a technician at CBC 'TV Masthead' Dept. There was a strike by CBC technicians beginning early Spring and lasting until late Summer. He said that during the strike the CBLT transmitter was turned on all the time and people not knowing what they were doing could have pushed the wrong buttons. Unfortunately, there are no logs or official documentation of what signals were broadcast. I certainly hope that our Michigan friends are not serious about counting CBUT-15 Nimpkish, BC in their logs! I also told the CBC fellow about the common occurrence of SW Ontario UHF translators showing improper signals during tropo conditions. Although he was quite ignorant about propagation, DX, Tropo, etc., he was very delighted that the 'system' does get screwed up occasionally. I hope I'll have something more to report in a few months."

Fred Nordquist; 7945 Boxford Rd., Clay, NY 13041 LST-EDT

Table with columns for month/year and station details. Includes entries for January 1981, October 1981, November 1981, August 1981, and October 1981.

Es noted on 1-21; 5-22,28; 6-5,8,18,21,23,25,28; 7-5,8,23,26; 8-6,8 but no new loggings.

Equipment: GE 12" b&w portable Model #ASF 2223 WD; Jerrold VU-935 S antenna at 30' AGL with rotor. "Wish list" items include Finco 7' dish, RG-11 cable & preamp. (Mabey next year).

Totals: 216; Tr-122, Es-69, Ms-3 and Translators-7.

Frank Merrill; P.O. Box 7207, Toledo, OH 43615 EDT-EST 419-866-8589 anytime

"Hello DX'ers and any other incidental readers. If you were DX'ing this summer I hope that you were always around when the conditions were good, and filled your log full of unexpected new loggings. And whether or not you were DX'ing, I hope that all of your non-DX related activities were enjoyable and triumphant as well! As for this season (virtually all of which is summarized below, at least the stuff I was around for), I thought the Es to be about "normal" overall, but the Tr seemed to be "far below normal" including a non-appearance of the annual late August blow-out for the first time I can ever remember. For those wondering what I mean, I have always noted three of four consecutive days of 500 to 700 mile Tr during the last half of August, or more specifically during the period August 16 to 26. Though there was some trace of it on 8/19 and 8/28 it didn't really "click" like it normally does. The openings this season were weird - both Es and Tr. A lot of the Es was much longer than usual distance stuff (6/25 a prime example), and a lot of the Tr was 500 mile plus stuff rather than the mid-range 400-450 mile stuff which is usually the most common during good Tr openings. I attended the convention in Oklahoma City, and had a blast seeing people I hadn't seen in a long time, as well as making many new acquaintances there. Listening to Ralph Stroebel's obscene WAIF-FM tape was an experience in itself. Some of you know that I buy and sell used records (virtually all kinds of 45's and LP's and I'm usually ready to buy). Well, I drove to Oklahoma City and planned a mammoth record excursion around it, because the convention's location coincidentally shuttled me into the dead center of a 300,000 square mile area that I badly wanted to do some hunting in. I didn't get many records in Oklahoma (and didn't expect to), but ended up getting 15,000 records in Camden, Arkansas (purely by accident, I hadn't really started looking yet), another 10,000 in Houston, another 24,000 in Havana, Illinois (on the last leg of my trip), and many thousands more in Kansas, Texas and Missouri. I had to make two truckline shipments of record freight, and ended up coming home with a U-Haul trailer jammed with the Havana records. Now, that's what I call making good use of a convention trip. Total acquisitions pushed 60,000. Yes, July and August were good months this way (plus I flew to the IRCA convention in Calgary, Canada - and the return plane was kind of a "puddle hopper" - therefore, I visited Alberta, Saskatchewan, Manitoba for the first time ever, leaving only D.C., Newfoundland territories unvisited in Canada). But September turned itself inside out and disrupted everything. On September 3 Toledo got a very heavy rain (about 7 inches in the part of Toledo I didn't want it in) and a storage garage full of records got water in it and I spent most of September trying to dry out records, un-stick labels, etc. And on Sept. 24 (I found out about this on the 30th, upon returning from Canada) my house was broken into, and all of my stereo and DX equipment was taken, also, Norman speakers, a tape deck, an amp, etc. I have replaced everything except for the tuner. Some friends in Chicago have been telling me that Sony is supposed to have come out with a tuner which runs circles around the Mc Intosh and the Carver (I) is suppose to be doing the same very soon. Does anybody know anything about this stuff? I don't want to re-buy a Mc Intosh if it turns out I can get something even better and maybe even cheaper as well! Unfortunately my friends can't seem to find anything more out about these tuners. On to the DX. My unofficially logged total is now at last 605. (I'm saying unofficial because I've always counted these in a hurry and may be off a couple) and maybe more if I can decide to do about the August 28 stuff. I know all too well what they were, but I got no I.D.'s (would you count them in these cases?) (May I suggest you follow the guide lines on page 41 of the Oct. '81 VUD.-wd)

Table with columns for month/year and station details. Includes entries for September 1981, October 1981, and November 1981.

Table with columns for month/year and station details. Includes entries for June 1981 and June 1981.

Eastern TV-DX

Frank Merrill; continued---

February 1982

June 1981
8 Es 2155 CKCK2-6 SK
Willow Bunch
17 Tr 2325 WKEX-8 VA 1460
Petersburg
18 Tr 0150 WMLV-24 MS 740
Meridian; s/off, WPTY ccl
and WTVa-9, WTVF-5, WHEAT-19,
WMAZ-31, WKHC-6, WWHN-13, WNGE-2
but nothing else unusual.
Es 2000-2100+ Southern/Mid-FL, MUF
to 94.9.
19 Tr 0230 WTVF-5, WWHN-13, WERC-6,
WZTV-17, nothing else!
WERC virtually snow-free, 590mi.
1600-1700 KEMW-3, KOCO-5, lots
of Texas. Busy on FM though MUF
only 96.1.
23 Es 2000 CBHT-3, CBIT-5, CJCB-4.
MUF to 90.5 briefly.
24 Es 0000-0130 CBAU5-2; Perce, P. t.
0130-0520 CKOW-2 t., dominant;
occasionally CBFT-2, both test-
ing. CBFT and CJBT testing on
ch.3.
0307 "700 Club" Briefly on ch.3
1240-1306 WEDU-3, WEAR-3, WLET-3
tent., WUFT-5, WLAB-2 tent., MUF
to 95.7.
25 Es 1400 KRMA-6, KOAA-5, KLINE-3.
1530 KYCU-5 WY
1600 KOUS-4 MT 1200
Hardin
1635 KTVM-6 MT 1460
1725 CHAT-6 AT t
1734 briefly, apparent MUF to
channel 7. Looked like minus
flutter against WXYZ. Many
other things were possible
but I was too busy on FM during
this barn burner.
26 Es 1327 KHAS-5 NE 750; Hastings.
1357 KPLO-6 SD 880; Reliance.
1430 CKBY-2 SK ; Melfort.
Again, too busy on FM to mark
most of the stuff down. Strange
opening, moved from N.Texas to
Sask. in 2 hours. Nothing stayed
in for long, making FM I.D.'s al-
most a nightmare: Missed the pre-
noon stuff. MUF to 105.7.

July 1981

4 Es 2000 Santiago de Cuba-5, Holguin-
3, WPT-2, WTVJ-4.
5 Es 1800-1900 only noted common Tex-
as stuff.
1950 KAVE-6 HI 1300; Carlsbad
0000-0600 CKGN-2; Bancroft, OH;
0750 W56V NY; Rushford(WNED)
W58-- NY; ? (WNED)
W59-- HI; ? (WNED)
W60-- HI; ? (WNED)
0912 W66-- OH; ? (WBTI)
And: CKVR-3, CBLT-5, WROC-8,
WIBC-10, WNPE-16, WKXI-21(rare),
Buffalo, Toronto, Lexington,
WRAU-19, WAND-17, W46AB, CITY-79.
8 Tr 0310 CICO-24. Most Toronto/Buff-
alo in earlier while still on.
Es 1340 Santa Clara, Cuba ch.5; "o"
1345 XHY-3 t

July 1981
8 Es 1400 WEDU-3, WTVJ-4, WPTV-5.
1536 Santa Clara, Cuba; ch.3.
1616 CM-6 t; had 3/4 c.b. as on
ch.3 but audio never came in for me
to get a parallel.
1850 WCBF-2 t; "Don Lang" name
seen but call to them later did no
good.
9 Es 1020-1100 WPT-2, Santa Clara-3,
WEDU-3, WTVJ-4, Santa Clara-5, WCIX
-6.
Tr 2100-2200 WOI-5, WAAQ-5, KCRG-9,
KREG-14.
2221 CBLFT-55 ON; Barrie.
2234 Brief Binghamton; gone fast;
CICO-19, Buffalo, WMT-36, WTV-17,
KRIN-32.
10 Tr 0030-0200 KAIN-32, KIIN-12, KREG-
14, WKOW-27, WMTV-15, KTTC-10, WHO
13, KCCI-8.
0530 KDKA-2(snow free); rare that
way.
Es 1230 KOTA-3; 1300 KDIX-2.
Tr 1400 KCRG-9, WAD-8, WGEN-10 all
day.
2300 KCRG-9, KTEJ-19, WFIE-14, Lex-
ington U's.
11 Tr 0007 WML-15
0045 KRIN-32, KNDL-30, KIIN-12
1700 WRAU-19, WIGS-20, WEEK-25,
WMBD-31.
2200 WROC-8, WAD-8, Madison, Rock
for U's, WKXI-21, WCEB-23.
2256 CKC01-42; unwatchable because
they were picking up too much of
WTVG-13 up there!

August 1981

15 Tr 0010 WNLN-9 IN 330 Evansville
18 Tr 2248 W58A OH 170 (WAO)
2330 KREG-14 IA 680. Amazing! At
680 miles, this is my most common
Tr catch more than 450 miles from
here. Why? (It must be the topog-
raphy of the land which makes for
the good path. I have a few "good
paths" from here too-wd.)
19 Tr 0011 KLEB-19 NE.
0209 KCAU-9 IA 680; Sioux City.
20 Tr 0000 KREG-14, KTEJ-19, M. tropo to
SD both days (RESD 88.3, 720mi.)
27 Tr 0448-0456 WTM-4 MI 280; Cheboygan
0500 CKS01-3, CKS0-5, CKCY-2, CKIC
-9, CKNY-10(now on ch.6-wd), CJOH-8
-8, CJOH-6(CKGN-6 off), CBLFT1-7.
28 Tr 0000 WZLZ-22, WETR-33 both tent.
0420 CKC04-11 ON; The Muskokas
0000-0600 CKGN-2; Bancroft, OH;
CBLFT-15, CBLFT-44, CBLFT-76, CBL-
FT-55, all Toronto, CKS-11.
0501 CBLFT-34 ON; Penetanguishene
0523 CBLFT-32
0654 CICA-19 Toronto fades briefly
and WUTV-29 jumps in! Mixing prod-
uct of them and WOH-24? I note
all three have "-" offsets.

October 1981

31 Tr CBLFT-34 blasting in! Not much
else noted; even Toronto & Buffalo
weak.

Eastern TV-DX

Frank Merrill; continued---

February 1982

November 1981
1 Tr 0100 WFFN-66 IL; Joliet(Chicago)
2 Tr 2130 WREX-13 IL; 17 & 39 snow-
free + KDUB-40.
3 Tr 1920 WPE-38, CICA-19, WPTN-7
1926 WLEB-26 Green Bay 300.
12 Tr 2030 WLEB-36, WKPT-19, WGTU-29.
2230 KRIN-32, WTV-36, WMTV-36,
WPI-42, WKMR-38, WSWN-47,
WCVN-54, W36AA, WKPI-22.
13 Tr 0115 WFIE-14 (noted carrying
Rockford Files instead of Tom-
orrow: Network change? (No, I
don't think so; I know of sever-
al stations which don't car-
ry the Tomorrow Show because
of it's low ratings.-wd)
1330 Toronto blasting in, CBL-
FT-44 strong, CICO-32, WNPI-18,
CICO-18, WNPE-16, CKIX-8(rare).
1530 WMAZ-7 NY
1600 CKGN-22 perfect; CFTO
bombing CBLT.
1900 WMAZ-7, WNPE-16, CKWS-11,
WGTU-29, CITY-79.
2323 CICO-60 ON (where??)(you
got me-wd) Previously deleted
from my log as I had concluded
it was only an image of some
kind from ch.59. But it isn't.
Fifty-nine's picture was watch-
able, while 60's picture, thoug-
h it was strong, was ripped to
shreds by ccl that they were
picking up from whichever CICO
station they relay. Help!

Very little FM-DX since September due to no tuner. However, I've had a resur-
gence of interest on broadcast band (AM) with 63 new stations logged in Novem-
ber bringing my total there to 1944. So it's been a very nice month for that!

William J. Draeb; Ellis St. R.R.#2, Kewaunee, WI 54216 CST

November 1981
28 Tr 1800 WKLE-46 KY 473
WTV-36 KY "
1812 WVUT-22 IN 405
2059 WKSO-29 KY 538
WKLA-35 KY 551
29 Es 1752 WDIQ-2 AL t
WTVY-4 AL t
1754 WRAL-3 GA t
1814 KETX-3 TX t

December 1981

4 Tr 2131 KNDL-30 MO 432
5 Tr 1859 KNDL-30 MO 480
WPTT-22 PA 480
7 Tr 0802 KCBJ-17 MO 450
11 Tr 2109 WCET-48 OH 400
12 Es 1531 WMA-2 NS t
1724 WTHS-2 FL t
WTVJ-4 FL t
1730 WKRG-5 AL 967
WEAR-3 FL 986
WCTV-6 FL t
WTVY-4 AL t
1746 WRAL-3 GA t
Tr 2009 WKYT-27 KY 473
WTV-36 KY "
WKLE-46 KY "
WKSO-29 KY 538

November 1981
14 Tr 0028 CICO-19
0229 WICD-15, CBLFT-15
0238 CBLFT-13, CKS03-11, CKS0-5,
0244 CBLFT-15 Temagami, ON (Where?
Cannot find on map)(It's about 60
miles North of North Bay.-wd) Carry-
ing CBC North programming; really a
trip to see Yukon weather forecast!
Zero offset, same as WMTV. Took
effort to track this down as CBC is
a huge bureaucracy.
0309 CFEM1-10 PQ; Val d'or 680
CFEM-13 PQ; Rouyn 650
(Sign off in parallel)
0323 CBLFT4-12 ON; Kapuskasing 600
0326 CBLFT5-7 ON; Hearst 650
0427 CCF-12 PQ; Montreal 570. (My
notes of 12 hours earlier were kind
of prophetic!)...to 0630 CFEM1-10
left 3/4 CB on all nite, persisted
even with WBS/WNEC/WUP on! And,
CBLFT1-7, CBLFT6-12; strange to get
two separable CBLFT's on 7 & 12.
15 Tr 0110 WPE-16 strong, WKXI-21, CBLFT
-25, WUP-31, W46AB, W64AK, CITY-79,
WNPI-18 (first time in 10 years),
CBLFT-32. The New York educationals
on late with football.
0204 CICO-59 carrying WNPI-18. Lon-
don-18 off.
0238 W58-- , W64AS (both WNED) just
seconds after W64AK off (WVIZ-25
also had football).

December 1981
12 Tr 2010 WCET-48 OH 400
WKON-52 KY 437
WPTT-22 PA 480
WKPC-15 KY 437
WLAZ-32 KY "
2206 1650 WCET-48 OH 400
14 Ms 0651 KARD-3 KS 694
Es 0645 KFDX-3 TX 945
0700 KTVY-4 OK 820
0719 KTX-5 TX t
0722 KNID-2 TX 1176
0736 KAMR-4 TX 991
0742 KENW-3 NM 1103
0810 KIII-3 TX t
Tr 1852 KNDL-30 MO 432
1856 WTV-36 KY 473
WKLE-46 KY "
2104 WKSO-29 KY 538
2112 WKYT-27 KY 473
(WLRE off)
2114 WJTC-26 OH 368
15 Tr 0800 KNDL-30 MO 432
(WLRE off)
2020 KNDL-30 MO "
2028 WCET-48 OH 400
Es 2204 CJBT-3 PQ t
2223 CFCM-4 PQ t
CJCB-4 NS 1350
17 Tr 1853 KNDL-30 MO 432

December 1981
17 Tr 1914 WTV-36 KY 473
WKLE-46 KY "
18 Tr 1918 KNDL-30 MO 432
19 Tr 0808 WCET-48 OH 400
20 Tr 0804 WPEY-33 WY 498
1650 WCET-48 OH 400
24 Es 1528 KBTX-3 TX 1079
KIII-3 TX 1295
KHOL-4 TX 1213
KOET-3 OK t
1533 Unided-6; "5"
KPRC-2 TX 1118
29 Tr 0804 WPTT-22 PA 480
30 Tr 2053 WTV-36 KY 473
WKLE-46 KY "
WKIX-19 OH 400
WCET-48 OH "
WPTT-22 PA 480

TV Dyer Paul Petosky was
here a few weeks ago with
some of his DX gear (pre-
amps, etc., etc.) which I
purchased from him. If
anyone's interested in buy-
ing some of it send a s.a.-
s.e. to me and I'll send
you a list of the stuff.-wd
More DX next month.

# WESTERN TV-DX

February 1982

New \_\_\_ New Mode \_\_\_ Tentative - t Unidentified - unid

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

(Pat sent a copy of a report on some F2 loggings last November 25. The report should have appeared somewhere in last month's VUD. Look for it! He mentioned a lot of November TV/FM Es and said that he would probably pick a date and begin regular TV reports again. I am sure we all look forward to that. fm)

Ronald Purdue, Route #1, Box 224, Byron, MN 55920

CST

Equipment: RCA 1982 XL-100 Color, J.C. Penney 5" B&W portable, Archer VU-120 with coax lead-in.

November 1981	December 1981	12 Es 1616 unid 2
27 tr 1823 WFO 13 IA 178	5 tr 0725 WIFR 23 IL 194	(NFL football )
1828 KSFY 13 SD 217	0726 WTVQ 17 IL 218	Es 1800 KATC 3 LA 960
29 tr 1630 KCRG 9 IA 148	0728 KDUB 40 IA 145	(MUF 72 MHz )
1634 WOI 5 IA 148	0740 WMTV 15 WI 168	1801 WPKY 2 NC 860
1916 KTTN 21 IA 128	0753 WHA 21 WI 168	1803 KPRC 2 TX 1005
	0804 WQRE 39 IL 218	1809 WBRZ 2 LA 938
		1832 WUNC 4 NC 900
		1900 WCBD 2 SC 1027

December seems to be a poor TV-DX month with a tropo opening on the 12th. I was expecting more E-skip openings later in the month. The UHF tuner on my new XL-100 needs cleaning. Stations won't stay in place, even when the AFT is on! The TV serviceman says it will cost from \$35-45 just to clean the tuner, but I won't have it done right away. I hope to get it cleaned before the AC-9880 preamp goes up next spring.

I have some news on the status of WMB-TV in Tomah, Wisconsin. It has run into financial problems of going on the air and presently is in limbo. If any member knows a target date for WMB-TV, drop me a line, and also whether or not it will be a network affiliate or an indie station. That's all for this month. See you in 30. 73 & Good DX, Ronald

Jim Pizzi, P.O. Box 1778, Lovington, NM 88260

MST

November 1981	(Lubbock-new on air)	12 tr 2252 KAUT 43 OK
21 Es 1940 KTVU 2 CA 1116	7 F2 0905 BBC-1 41.50	(with STV )
KRONT 4 CA	0915 France 41.25	14 Es 0900 KTVQ 2 MT
1958 unid 3 west	0925 BBC-2 48.25	0900-45 unids 3,4,5,
(20 kHz to KENW )	2100 Dallas U's	6 n/ne
unid 2 sw Sp.	2120 Austin 24,36	(left for work )
2007 unid 2 w	Abilene 32	24 Es 1500 WDTN 2 OH
2021 unid 4 w	11 tr 1830 KJAA 34 TX 90	1605 WOAY 4 WV
22 Es 1940 unids 2-4 ne	(Reg programs @1930,	1619 WSJK 2 TN
1957 WFTV 4 1059	KJ Television 34 )	1622 KTVI 2 MO
2009 unid 5 ne	12 tr 0042 Dallas 21-27-33	1627 WFTO 2 IN
25 tr 0805 Dallas U's 368	(all STV )	1628 WCYB 5 VA
2200 Dallas U's 368	0100 WFAA 8 TX 368	1652 WBTW 3 NC
30 Es 2140-52 unids 2,3 nw	KVUE 24 TX 377	1700 WPMY 2 NC
2200 unid 4 nw	Es 1642 CKCO2 2 OW 1418	1729 WCBD 2 SC
	1655 unid 5 (Ø-KTXX)	1730 WCVI 4 SC
	1657 CKGN 6 ON	
	tr 1805 Ok City 25,34	

Es on the 12th of December was tipped off of me by an unknown caller from Toronto. At around 1600 local time, I got a collect call from Toronto for a "Mr. E. Skip." It took me awhile to get to the phone - I was working on my towers (should be in operation in Jan.) By around 1630, first signs of Es on ch 2 with CKCO with rapid rise in MUF. Missed ID on ch 6 (1657 end of Happy Days and 20 kHz offset to KAVE - suspect CKGN-6). Short opening, but nice DX @1400+ miles with strong signals.

F2 reception is on a vintage Motorola R-220/URR receiver (Army Signal Corps with NASA serial number), Vandenberg AFB surplus. It has 20-230 MHz continuous tuning

Western TV DX

February 1982

Jim Pizzi (continued)

with AM and FM and BFO and 200/50/10 kHz selectivity. (Very nice - especially in FM band). Using a Radio Shack scanner antenna @ 25'.

Es on 12-24 was very strong and lasted about 3 hours. 127 total for this new location. 73's, Jim.

(Jim, I would suggest that you send the program data for your unids to Robert Grant for the newly returned CCI column, fm)

Fred McCormack, 135 Prairiewood Drive, Fargo, ND 58103

CST

November 1981	29 Es 1730-1800 unids 2,3 e	12 Es 1745 unid 2 se
20 tr 1725 KDSD 16 SD 105	December 1981	1748 WPMY 2 NC 1150
KKNE 19 NE 320	5 tr 1150 KTTN 21 IA 305	(MUF 90.5 @ 1810 )
KHNE 29 NE 425	KHIN 36 IA 390	1830 WHAY 3 NC 1315
KHIN 36 IA 390	1525 KRIN 32 IA 395	31 Es (MUF 92.3 @ 1124 )
2200 KMEG 14 IA 300	1529 KAVT 15 IA 290	1130 KNAZ 2 AZ 1120
KSIN 27 IA 300	1900 WHWC 28 WI 270	January 1982
21 tr 0900 KXNE 19 NE 320	1900 WHLA 31 WI 340	3 Es (MUF 106.9 @ 1713 )
KTTN 21 IA 305	1919 WKBT 8 WI 325	1713-2000 unids 2,3,
22 Es 1902 unid 2 NBC s	1924 KTTC 10 MN 310	5 se

Have been trying to get a solid logging of the new LPTV at Bemidji, MN, but so far, only bits and pieces. Also found that previously reported channel 45 from Eagle Bend, MN has an experimental license and broadcasts in school programming. I am hoping to get more data. 73, Fred

## STATION BREAK

c/o Bill Thompson  
1907 Seneca Street  
Buffalo, NY 14210

WTFDA member ads only. 3 line or 30 word limit.

WANTED - VUD back issues; Jan. '76, Aug. '74, Jan. thru Apr. '72, Sept. '72 and any previous to 1972. Will trade May '72, May, Aug., Nov., Dec. '73 for issues or buy. M. Hollis, 102 Star St., Enterprise, AL 36330.

FOR SALE - 1979 Television Factbook, both volumes. \$35.00 post paid. Fred McCormack, Box 5221, State University Station, Fargo, ND 58105.

WANTED - TV GUIDE editions from all parts of the country. The upper Mid-West, Eastern, and Southern I need the most. Ronald Purdue, Route #1, Box 224, Byron, MN 55920.

Your non-commercial ad can appear in the VUD free of charge! Got a piece of gear you'd like to sell? Looking for something? Advertise in STATION BREAK.

# VHF UTILITY DX

Donald L. Blevins  
1715 Earhart Road  
Baltimore, MD 21221  
phone 301-574-2714

## VHF UTILITY DX

February 1982

This month's feature will continue to list mobile telephone information. Of course there are reports of DX'ing included for your information. I am in hopes that the recent change of format will enlighten you.

Thomas J. Yingling, Jr. 221 Pinewood Road Baltimore, MD 21222  
Equipment: Bearcat 300 1/2 wave ground plane @ 50' T=tropo E=E-skip  
L=Local F=F-2 skip

7-8-81	1830	KGD 743	46.06	Middletown, PA	Snyder County Fire T				
7-12-81	0940	KBC 469	159.18	New Brunswick, NJ	New Jersey State Turnpike T				
	2103	KIC 392	158.85	Virginia Beach, VA	Virginia Beach Police Depart	T			
7-16-81	1830	KOL 697	46.06	Salt Lake City, UT	Salt Lake County Fire	E			
	1830	KOL 697	46.10	Salt Lake City, UT	Salt Lake County Fire	E			
7-19-81	0119	WZJ 450	158.79	Lakehurst, NJ	Manchester Township Police	T			
	2227	KSZ 232	155.685	Lancaster, PA	Lancaster County Police Radio	T			
7-24-81	1632	KDU 438	45.64	La Plata, MD	Charles County Sheriff	T			
7-25-81	2225	KWL 393	39.58	Denton, MD	Caroline County Sheriff	T			
	2259	KEB 237	39.56	Mineola, NY	Nassau County Police	E			
				(received through Latin repeater on 39.96)					
	2359	WZM 869	37.32	Havre de Grace, MD	Police Department	L			
7-26-81	1543	KEC 414	46.44	Lapeer, MI	Lapeer Fire Department	E			
	1545	WPB 720	46.02	Milwaukee, WI	Milwaukee Police Department	E			
	1550	KIC 372	46.02	Arcadia, FL	Desoto County Sheriff	E			
	1600	KSZ 404	46.24	Asheboro, NC	Westside Volunteer Fire Dept	E			
	1630	KTU 790	45.62	Chambersburg, PA	Franklin County Sheriff	T			
	2255	KYB 852	39.46	Leonardtown, MD	St. Mary's County Sheriff	T			
8-6-81	1801	KXX 462	46.42	Palm Harbor, FL	Tarpon Lake Volunteer Fire	E			
	1804	KAG 461	45.74	Newport Richey, FL	Newport Richey Police	E			
	2304	KSB 228	42.36	Metamora, IL	Illinois State Police	E			
	2325	KSF 387	46.06	Princeton, IL	Bureau County Fire	E			
	2330	KDK 806	46.06	Castalia, OH	Magaretta Township Fire	E			
	2335	KGJ 498	46.06	Princeton, IL	Princeton Fire	E			
	2340	KKM 779	46.06	Benbrook, TX	Benbrook Fire Department	E			
8-14-81	2242	WZJ 450	158.79	Whitting, NJ	Manchester Township Police	T			
8-15-81	2030	KNM 939	500.6375	Burlington, NJ	Burlington County Police Radio	T			
8-16-81	0145	KQL 750	453.475	Havertown, PA	Haverford Township Local Govern	T			
	1545	KIB 472	45.06	Cross City, FL	Florida Highway Patrol	E			
	2010	KSS 283	44.66	Dumas, AR	Arkansas State Police	E			
8-17-81	2014	KDD 947	44.94	Garden City, KS	Kansas State Patrol	E			
	2052	KJB 957	46.08	Monroe, LA	Quachita Parish Fire	E			
	2052	KKY 584	46.08	Seagoville, TX	Seagoville Fire	E			
	2130	KDZ 422	45.66	Dade City, FL	Pasco County Sheriff	E			
	2133	KWI 645	46.20	Nashville, TN	Belleville Volunteer Fire	E			
	2138	KIU 862	46.38	Leesburg, VA	Loudoun County Fire	E			
	2140	KBJ 221	46.38	Elkhart, WI	Walworth County Fire	E			
	2158	KDK 667	46.48	Media, PA	Delaware County Fire	T			
	2200	KEG 261	46.38	Inverness, FL	Citrus County Fire	E			
	2225	KUU 515	46.06	Aiken, SC	Aiken County Fire	E			
	2230	KKZ 711	45.22	Prentiss, MS	Jefferson Davis County Sheriff's Department	E			
	2240	KXG 814	45.22	Aberdeen, MS	Monroe County Sheriff	E			
8-18-81	2000	KEE 873	154.43	Salem, NJ	Salem County Fire	T			
	2030	KEE 555	154.43	Trenton, NJ	Rushing Hose Fire	T			
	2030	KDR 480	155.805	St. Clair, PA	Schuylkill County Police	T			
	2030	KQD 894	46.42	Dayton, OH	Mad River Township Fire	E			
	2045	KSZ 404	46.36	Asheboro, NC	Westside Volunteer Fire	E			
8-19-81	2105	KYM 693	46.44	Baraboo, WI	Sauk County Fire	E			
	2125	KKC 881	44.70	Chickasha, OK	Oklahoma State Patrol	E			
	2130	KDE 700	44.62	Springdale, AR	Arkansas State Police	E			
	2140	KSK 937	37.40	Conway, AR	Conway County Sheriff	E			
	2200	KSI 983	42.34	Garmi, IL	Illinois State Police	E			
8-20-81	2000	KBK 793	46.06	Chambersburg, PA	Franklin County Fire	L			
8-21-81	1635	KAK 360	39.58	Wellington, KS	Elk County Sheriff	E			
	1710	KFN 443	37.22	Bel Air, MD	Bel Air Town Police	L			
	1742	KSA 838	42.42	Putnamville, IN	Indiana State Police	E			
	1747	KSC 889	42.42	South Bend, IN	Indiana State Police	E			
	1800	KYO 343	46.50	St. Clair, PA	Schuylkill Fire	T			
	1830	KJB 910	46.38	Lyons, WI	Lyons Township Fire	E			
12-5-81	1310	KYC 226	46.42	Diamond Springs, CA	Diamond Springs Fire Protection District	F			
	1538	KCA 629	39.18	Globe, AZ	Gila County Sheriff	F			
12-13-81	1242	KMJ 434	46.32	La Habra, CA	La Habra Fire Department	F			
	1300	KFI 462	46.16	Grass Valley, CA	Gold Flat Fire Protection	F			
	1401	KMA 473	46.46	San Francisco, CA	San Francisco Fire	F			
	1407	KAW 550	46.50	Inverness, CA	Inverness Fire Depart	F			
	1414	WSB 48	46.02	Sonora, CA	Tuolumne County Sheriff	F			
	1602	KOB 246	39.74	Spokane, WA	Spokane Police Depart	F			
12-21-81	1724	KXU 756	46.42	Collins, WI	Village of Collins Fire	E			
	1725	KDA 398	46.42	Silver Creek, WI	Silver Creek Fire	E			
	1727	KSC 461	42.38	Wausau, WI	Wisconsin State Patrol	E			
	1753	KVN 541	42.38	Holcombe, WI	Wisconsin State Patrol	E			
	1755	KRG 633	42.92	Golden Valley, MN	Minnesota State Patrol	E			

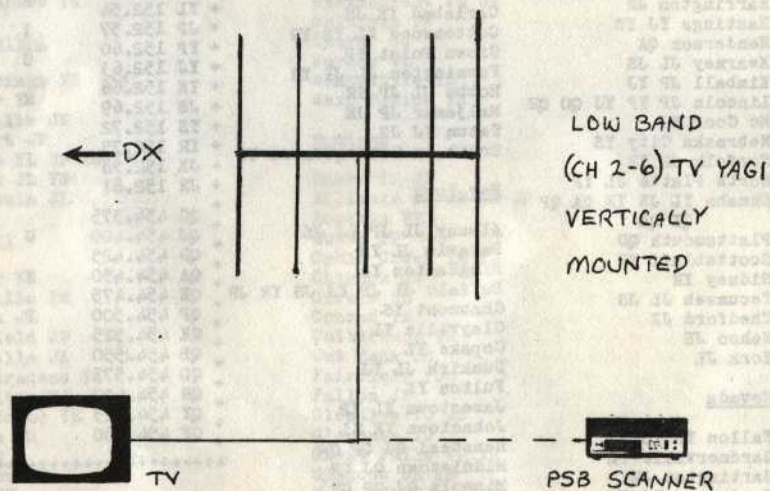


Q: "I have an old five element low band TV yagi (ch 2-6) that I would like to use as a second E-skip antenna for TV DXing. I understand that some interesting skip effects can be seen if I mount the antenna vertically, rather than in the usual horizontal way. What can this do for my TV DX?"

A: Using a vertically mounted antenna for TV E-skip DXing can cut down the local and semilocal TV signals that may be preventing you from getting IDs on their channels. Since most TV broadcasting in North America utilizes horizontal polarization, a vertically mounted yagi will pick up much less of the local or semilocal signal. In fact, this method can reduce these signals by more than 20 dB. The reason that it can be effective is that the incoming E-skip signals are often "re-polarized" during their path through the E-skip "cloud" in the ionosphere. The strength of the DX signal will not always be reduced by the same amount as the local signal, thus giving the DX a better chance to be seen through the local than it would have with a conventional horizontally-mounted antenna.

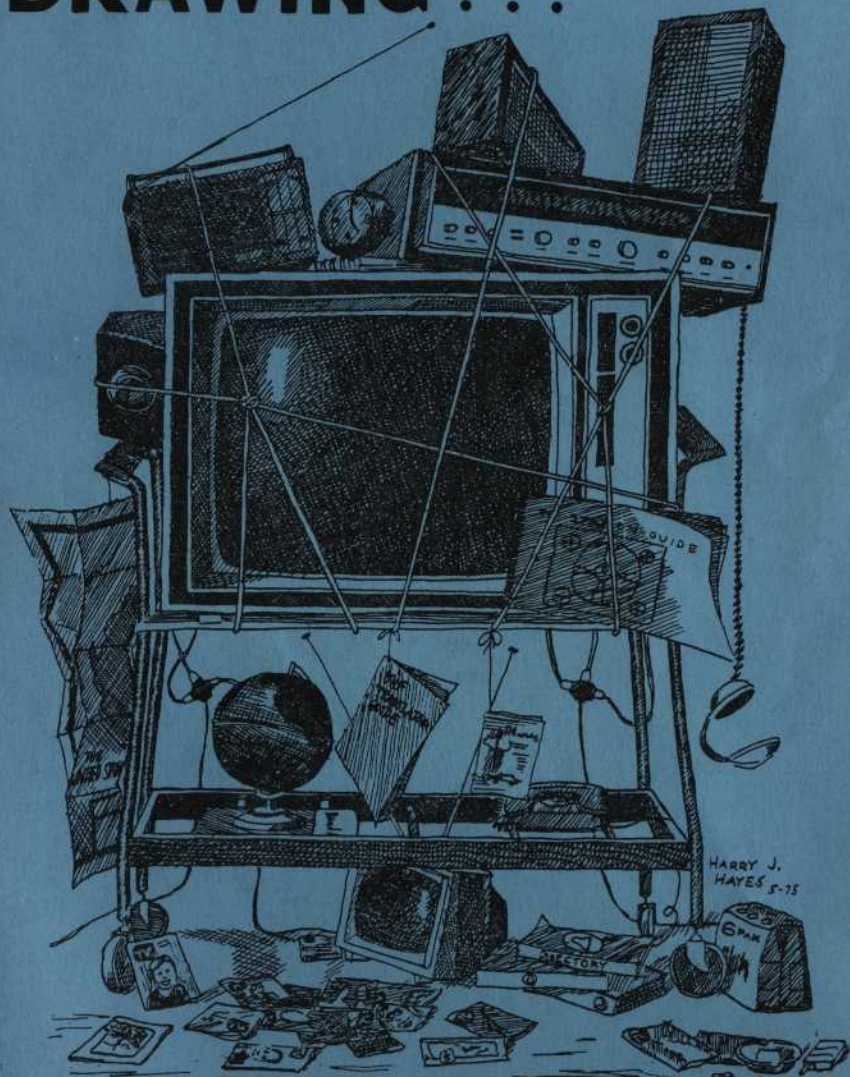
Q: "Is there a way that I could also use this vertically mounted low band TV antenna for DXing PSB with my scanner?"

A: If you mean to use it for DXing lowband PSB (30 to 50 MHz), it wouldn't really work too well. A ground plane vertical antenna would be a better choice—or you could make a wire dipole antenna quite cheaply and easily. However, if you'd like to DX highband PSB, this antenna could be made to work quite well as a directional antenna, as shown below:



It works because of a harmonic relationship between the lowband TV frequencies that it's designed to cover; twice the 54 to 88 MHz range happens to be 108 to 176 MHz—where most of the best highband utility and PSB DX is located. Keep in mind the fact that this type of arrangement will work best only if the antenna is mounted vertically (most PSB signals are vertically polarized) and rotatable. Also, if you try this, it's best not to split the output of the yagi between the TV and PSB scanner (for maximum signal strength). Use 75 ohm coaxial TV cable; you'll need adapters to connect the cable to the PSB scanner—don't use a 300-ohm balun with the scanner, as you do with TV and FM receivers. The scanner's nominal 50 ohm input is close enough to the 75 ohm coax. The gain of the antenna on PSB will depend upon how well-designed the five element is for lowband TV. 3 to 4 dB at the best PSB frequency should not be hard to get with the average lowband TV yagi of this kind.

# SPECIAL OFFER: A FREE 'DX DEN' DRAWING!!!



Get your own copy of this classic "DX Den" drawing with any supply order of \$5 or more (does not include TV STATION GUIDE or FM ATLAS orders). Drawn by DX artist Harry Hayes for the September 1975 VUD, this print is suitable for framing in your own DX den. See the back cover page for a list of supplies.