

From The Staff:

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

IT'S STATEN ISLAND IN '82...The only formal bid for the 1982 WTFDA convention was submitted by Staten Island, NY member Jerry Pulice. Plan to be there next summer! The area is within easy reach to a large part of the WTFDA membership, so we can expect that this will be one of our best gatherings. Jerry promises a great program, with talks and demonstrations on such subjects as low-noise preamps, P2 TV tuning, and many other aspects of VHF/UHF DX activity. We will also hear the World Trade Center facilities of WOR-TV, New York City's ch 9. The other attractions of the New York area are too numerous to mention. Tentative dates for the convention will be the July 30th through August 1st weekend. Write for more details.

If you're sending in a DX report to a magazine, please just reporting new activity. We need your information early in the month, so you can have a new series deadline. In the month, your news can appear in the magazine. What kind of material would you like to see in the VHF-UHF DIGEST? We want to hear from you. Do you have an article? Write to your VFD editor (address on the back cover).

CGI IS BACK...After many months of absence, we were beginning to wonder if interest had been lost in the VUD's column for unsolved DX mysteries, CGI. Fortunately, we've been hearing from a few DXers on the subject lately, and we are glad to announce that CGI has returned. Detroit DXer Robert Grant is our new editor, and he wants to hear from you. If you have an interesting unsolved DX logging, or if you can help solve another DXer's mystery, see page 24.

BITS...TV DX pioneer and private satellite terminal "guru" Bob Cooper is profiled in December's issue of 73 magazine, an amateur radio publication...Prepare for winter E-skip! This fall had some very interesting out-of-season openings...Good tropo in late fall in the Midwest ended abruptly...

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MAILBOX

John Zondio
1802 N. Rockwell,
Apt. 107
Bethany, OK 73008
(405) 787-3717
Deadline: 5th
New address & #
next month!!!

New Members:

Doug Dornbos

The Leelanau Audio Works Traverse City, MI 49684
931 Boon St.

Richard Gagnon

2097 Addaleen

Milford, MI 48042

Renewals:

Mario Aliaga, Mike Brewer, James Filler, Fred Holland, John Jefferson, Ed Kowalski, A. Lazarus, August Miller, Erik Nagel, Richard Reese, John Rieger, Robert Ross, William Scully, Marvin Shults, Jim Wixon, Dr. Richard E. Wood, Tom Yingling.

Rejoin:

Tom Huehn-74 Silverspring Cr.-Kitchener, ON N2M 4P4

Address Changes:

William Higgs-1885 California St., #18-Mountain View, CA 94040
William Johnson-432 Hudson Ave.-Clarendon Hills, IL 60514

Renewals Due in January:

Mark Harms, Michael Hollis, Carlton Howington, Greg Kelley, Rod Luoma, W.R. McIntosh, Paul Mitschler, Douglas Neiferd, Ken Onyschuck, David Rogers, Robert Schweitzer, Paul Traska.

This month we welcome new member RICHARD GAGNON from the Wolverine state. He is an electronics consultant, and uses a Zenith 25" color TV, a 7' parabolic dish for FM, a JFD LPV-TV190 antenna for VHF, Winegard VHF and UHF preamps (antenna mounted), with both antennas on a 25' aluminum tower. Richard will soon be getting a 50" diagonal projection TV.

Tidbits.....

Let's lead off with some comments from member Saul Chernog: "I'm now living in Ottawa ON, where I have access to everything you always wanted to know about the CRTC but were afraid to ask. Now there's no need for fear...I'll be glad to answer, to what extent is possible, any of your queries re this bungling bureaucratic organization. Of course, I'll do my best to relay info on a regular basis to FCC FM & TV, and other columns as I see fit. It may take me time to sift through the piles of sludge at the CRTC; it may take me a few years, but I'll try! My offer to QSL non-verifiers now applies to Ottawa as well as Toronto and Peterborough. I'll also do the following networks: CKO-FM, TV-Ontario, Global TV (they should QSL), CBC (only stations on Montreal, Quebec City, Toronto and Ottawa networks, e.g., Radio and Stereo and TV, English and French). Anything within 50 miles of the three cities can also be handled here. Do not sent 'original' reports - copies are best in case they get lost. And lastly, re the Es alarm mentioned here in the July '81 VUD...if you call this way, be sure to call collect. Your 'callee' then does not have to accept it, as he understands the message. It may not be ethical in the opinions of some, but it does work. I would suggest calling only if a) the Es were MUF FM (88.1) or b) very strong tropo or aurora, or c) if you feel a DXer might really benefit. Unfortunately, I have no phone at my Burnt River DX shack, but I may work out an alternative. And re the Indiana pirate WELI 88.5... note the calls exist in New Haven CT for 960 kHz AM. Pirates can be confusing. If there are 7 pirates in the Indianapolis IN area, imagine how many exist in the US, Canada and abroad! Indy has long been a haven for pirates, Saul. A lot of older DXers will remember Radio Free Naptown, and others. Muncie also had an FM pirate in the early 70's-jz.

Next up, Ronald Purdue writes, "I bought an RCA XL-100 13" color TV back in August, 1982 model year, and replaced the old 'flat' ribbon twin lead with Archer brand RG6/U coax cable. Noticed slight improvement on UHF and must go to a Winegard super low noise preamp. I won't get that installed until sometime in the Spring of 1982. More later."

See y'all next month...Have a Christ-filled Christmas...73....jz



Bill Fahber
336 Atlantic Street
Bridgeton, NJ, 08302

VERTICAL BLANKING INTERVAL REPORT

One of the few parts of your television that never broadcast sex or violence, and one of the parts you never see unless your set is out of adjustment is the Vertical Blanking Interval (VBI). This area consists of 21 horizontal scan lines per field. There are two fields per frame, so you actually see 42 lines interlaced from both fields. The darkness of this area is mostly what is called "reference black," which means that this area should appear totally black, except for test signals and coded information along the lower portion.

If you adjust your vertical hold so that the VBI slowly floats across the middle of your TV screen, you will be able to study it. If your brightness is adjusted so that the VBI appears grey, you will notice a broken horizontal line along the upper portion that remains black, or, technically, "blacker than black." This bar is the vertical sync pulse interval, which cues your TV when to start back at the top of the screen for the next picture. The small square in the center is made up of equalizing pulses, which keep the two fields interlaced. This area takes up the first nine lines of each field of the VBI.

Lines 10 through 16 are normally not in use, but various stations have recently been experimenting with teletext systems on lines 13 to 16. Teletext is a system whereby a decoder attached to the set converts data from these lines into pictures, numbers, or letters in color and displays the information over part, or all, of the TV screen. CBS, which applied to the FCC to establish its own teletext system, based on a composite of the Canadian Telidon Videotext System and the French Antiope System, as a standard for the United States, has steadfastly refused any involvement with the closed-caption systems used by PBS, ABC, and NBC because it hopes to someday use Teletext for captioning in the future instead.

Canada has already established Telidon as its standard. The FCC is presently considering a choice between the CBS standard and a British proposal called CEEFAX, but the desire to establish a system compatible with Canada's Telidon may influence the FCC toward the CBS proposal.

In appearance, the teletext lines used consist of hundreds of blinking lights on lines 13 to 16, looking much like snow on an open television channel, with blinking patterns along the left portion.

CBS is considering modifying its proposal to include lines 10 to 12 for teletext if it wouldn't interfere with picture quality.

The following stations are either already experimenting with teletext, or are planning to in the near future: KNXT, KCET, and KNBC in Los Angeles, CA; WETA in Washington, DC; KPIX in San Francisco, CA. WFLD in Chicago is thinking of experimenting with CEEFAX.

Lines 17 and 18 of both fields are used for test signals required by the FCC for any broadcast station using remote control transmitters. These tests are for transmitter performance and response, and picture quality. They include luminance test signals, composite signals for frequency response, color bar signals, etc. The color bar signal is not required during black & white transmissions.

About 80% of all licensed broadcast stations in the United States operate remote control transmitters, and are required to transmit these signals at all times. The FCC is considering the possibility of dropping the requirement of these test signals. CBS hopes that, if the requirement is dropped, these lines may also become available for teletext.

Line 19 is optional for broadcasting stations to use for chrominance, luminance, and black reference signals, but no other type of test is allowed by the FCC. The broadcast station studio will send the test signal to the transmitter on field one, line 19, and the transmitter will repeat the signal on field two, line 19. By comparing the two, the studio can examine transmitter performance.

Line 20 has until recently been unused, but the FCC recently granted a petition by NBC to allow use of line 20 for Source Identification signals (SID). One of the methods previously used for rating programs according to popularity is to monitor selected television sets with a device that records what channels are being watched, and at what times. The ratings services still have to find out what those stations were broadcasting at the time before statistics can be compiled. NBC came up with a system whereby line 20 could be used to transmit SID signals, which would permit automatic devices attached to TV sets to indicate if the program being watched was a network or non-network program. The FCC ruling became effective 8/31/1981.

Line 21, field one, and the first half of line 21, field two are available for captioning devices mentioned earlier. The National Captioning Institute captions the programs for NBC, ABC, and PBS, in addition to a few independent programs and commercials. Decoders are available at Sears department stores. There are actually three

FCC TV NEWS

modes to this system, of which closed-captioning is only one. WHA-TV in Madison, Wisconsin, KCET in Los Angeles, and KMCM in Appleton, Minnesota are planning to begin using the other modes for farm news, Associated Press news, and information for the deaf.

By knowing which stations use remote control, and which stations use teletext, you can develop a method which can produce clues to identifying stations. If you keep a log of stations you received, add notes about whether they are using remote control test signals or not, and if they are using teletext. If that station comes in again at a later date, recognizing its VBI will tell you which direction to point your antenna for a better signal. Or when you receive a station and jot down notes about its VBI, but don't get an ID, you may recognize it next time it comes in again.

VBI watching may not be a guarantee to identifying a station, but until the FCC drops the rule requiring remote control test signals, you may more easily determine the stations using teletext or without test signals.

CCI notes from Robert Grant: The TV Station Guide should be corrected so that the offset for KBTX, channel 3 in Texas should read "0" offset (Don't know how I missed that one, but the table of assignments confirms.) He reports that John Combs logged KENW, ch. 3 in New Mexico with a "0" offset (All I can find on that says "+" offset, unless they got special approval to protect itself from KPDX and KENW); CBHT, channel 5 in Nova Scotia was seen with a + or - offset of about 3 to 4 kHz (Most likely, since CBHT is not covered by the Canadian Television Allotment Plan; hence, no offset is assigned to it, so the "0" on the TVSG map should be removed. Most of the stations in Canada are treated like translators: no assigned channel, no assigned offset frequency, no protection from interference, and must not interfere with existing services on assigned channels.); WMAU in Bude, MS, apparently does not control its offset. (The FCC lets stations stray as much as 1 kHz from its assigned offset frequency.)

Further reports by Robert Grant: KKMJ, ch. 68 in Los Angeles, California is no longer on the air; WTQV-TV, formerly ch. 62 in Lexington, Kentucky, is now on channel 36; CKGN-TV-22, channel 22 in Uxbridge, Ontario, is now using 5000 kw ERPvis.

DENVER, COLORADO: (From Fred McCormack) The 8/81 column mentioned "La Unidad Broadcasting Corp." being granted call letters KIMX. Fred dug up information from TV Factbook stating that LUB Corp. applied for channel 31. If this station begins broadcasting, the experimental Spanish station KAZXEG will be forced off the air until it can find another channel.

RENO, NEVADA: A friend of Peter V. Taylor mentioned to him that KAME, channel 21 in Reno came on the air sometime in early October, 1981.

DECEMBER, 1981

TELETEXT UPDATE: WFLD-TV, channel 62 in Chicago, which is presently experimenting with "KEYFAX," an American version of the British Ceefax teletext, using the VBI, is scheduled to begin a "NITE OWL" service from midnight to 6:00 a.m. central time. Instead of using the VBI and requiring a decoder to watch, the Nite Owl will broadcast an already-decoded teletext program. Nite Owl was scheduled to begin September 4, 1981. Background music is supplied by Kalamusic.

WGN in Chicago (apparently they have also been using teletext) is seeking a court order against United Video, a cable company which carries WGN. United Video has been erasing the teletext information from WGN's VBI, which includes a program schedule.

CBS is planning a test site for a joint venture with AT&T at Ridgewood, New Jersey. This teletext test will begin in the fall of 1982, and will last for seven months. AT&T will supply the computers, and CBS will supply the advertising and program contents.

STV PIRACY: Remember when pirates used to ride the waves at others' expense? Well, now they're electromagnetic waves, and more court cases are arising to fight them. In Miami, Florida, a US district court issued an injunction to eleven companies, barring them from distributing HBO decoders (HBO is a cable service of Private Channel). They are also required to provide Private Channel with names and addresses of all their customers. Private Channel hopes to change them into regular paying customers.

In Philadelphia, PA, a US district court ordered Mars Communication to stop selling Selec-TV decoders for WWSG, ch. 57.

Meanwhile in Congress, Representative Henry Waxman of California and House Telecommunications Subcommittee Chairman Timothy Wirth of Colorado introduced legislation which proscribes penalties up to \$50,000 and two years prison for violation of section 605 of the Communications Act, outlawing piracy of STV and MDS.

NHT TRANSLATORS: WSNL, ch. 67 in Smithtown, NY and WRBV, ch. 65 in Vineland, NJ (a suburb of Bridgeton), are using barker channels for STV promotion, and music. WRBV also includes daytime program schedule in its barker. The two stations began barking around September.

NEW JERSEY: New Jersey Public Television (NJPTV) is now New Jersey Network

MINNESOTA: Ronald Purdie reports that KRLL-TV, ch. 41 in St. Cloud, Minnesota plans to go on the air in the fall of 1982.

GOLDMINE OF INFORMATION: Ken Onyschuk found a reference in a library called the SRDS Spot (television Rates and Data (SRDS stands for Standard Rates and Data Services, an advertising firm.) The SRDS publishes monthly books on radio and other advertising sources also, but the monthly book on TV contains a lot of information. Ken's library went up to the May edition. After looking up this reference in a New Jersey Library, I found that this library went up to December, 1980. But I found that the book contains program schedules for many stations as well as

normal operating hours. So maybe this can be another source of help for all those unidentified stations you've been collecting. Ken sent me this list of starting dates for new stations, compiled from the SRDS.

1/79 WQTV, ch. 68, Boston, Massachusetts
 4/28/79 WGCBC, ch. 49, Red Lion, Pennsylvania
 6/1/79 WBHW, ch. 55, Springfield, Illinois
 6/79 WUHF, ch. 31, Rochester, New York
 8/1/79 CKIC, ch. 14, El Paso, Texas
 9/2/79 KTVW, ch. 33, Phoenix, Arizona
 9/9/79 KNXV, ch. 15, Phoenix, Arizona
 9/24/79 WTVZ, ch. 33, Norfolk, Virginia
 10/1/79 KOKH, ch. 25, Oklahoma City, Oklahoma
 10/6/79 KTAB, ch. 32, Abilene, Texas
 10/15/79 WOFL, ch. 35, Orlando, Florida
 10/22/79 KJCT, ch. 8, Grand Junction, Colo.
 10/28/79 KGMC, ch. 34, Oklahoma City, Okla.
 12/8/79 WQRF, ch. 39, Rock Island, Illinois
 1/80 WBFI, ch. 64, Cincinnati, Ohio
 3/80 WSPJ, ch. 52, Pataskala, Ohio (Newark)
 3/8/80 KADN, ch. 15, Lafayette, Louisiana
 3/17/80 WCGV, ch. 24, Milwaukee, Wisconsin
 4/11/80 WMDT, ch. 47, Salisbury, Maryland
 5/4/80 WTYE, ch. 51, Reading, Pennsylvania
 5/80 KNBN, ch. 33, Dallas, Texas
 8/1/80 WXAO, ch. 47, Jacksonville, Florida
 8/12/80 KCWY, ch. 14, Casper, Wyoming
 9/26/81 WTJC, ch. 26, Springfield, Ohio
 10/26/80 KOKI, ch. 23, Tulsa, Oklahoma (The Infamous Tulsa-23!)

11/80 WPDE, ch. 15, Florence, South Carol.
 11/3/80 KAUT, ch. 43, Oklahoma City, Okla.
 11/4/80 KCFQ, ch. 13, Tacoma, Washington
 11/7/80 WXTV, ch. 15, Greenville, Mississippi
 11/27/80 KOUS, ch. 4, Hardin, Montana
 12/31/80 WLRE, ch. 26, Green Bay, Wisconsin
 1/4/81 KTXA, ch. 21, Arlington, Texas
 1/26/81 KTWB, ch. 27, Dallas-Port Worth, TX
 2/15/81 WAWB, ch. 30, Jacksonville, Florida
 3/3/81 WCJQ, ch. 61, Cleveland, Ohio
 3/18/81 KGCY, ch. 41, Tulsa, Oklahoma
 4/4/81 KFTY, ch. 50, Santa Rosa, California

WASHINGTON, DC: WOQR, channel 50 began operating on 10/ /81 around 4:00 p.m. EST (seen by Tom Yingling), and began scrambled programs on 11/1. They are using "SUPER TV" subscription service; and are transmitting a positive image, which appears negative on your TV screen (Actually, North American TV broadcasts a negative image which appears as a positive image on the TV set). The color also appears as negative. Tom says that decoders can be shut off by remote control if you don't pay up. A series of 25 white dots on the VBI help make this possible somehow. Horizontal and Vertical blanking are black, just like normal TV. They are also using a barker (a Chesapeake Bay Retriever?). WSMW, ch. 27 in Worcester, MA has the same white-dot pattern on its VBI. Can somebody tell me if they can shut off decoders by remote control?

NOTE ON THE APPLICATIONS AND GRANTS TO FOLLOW To save space and make the columns straight, I am rounding the ERP on a few cases to four or five digits, still much more accurate than what the FCC tolerates for error when the stations actually transmit.

APPLICATIONS FOR NEW BROADCAST STATIONS
 ch ERP HAAT City/state/applicant
 62 13.3 376 Hammond, VA; Apogee, Inc.
 45 380 303 Sikeston, MO; O.L. Turner
 7 180 809 Mozean, MT; Bee Broadcasting
 7 185 892 Bozeman, MT; Tri-Broadcasting (other ref: Tri-B Broadcasting)
 48 1095 1550 Greenwood, SC; Metro Communications South, Inc. (other ref has ERPvis. at 1905 kw.)

68 2043 2900 Los Angeles, CA; Creation House of Research Institute of Science and Technology, Inc.
 14 1892 163 Honolulu, HI; Aloha Channel 14
 19 1143 1194 Madisonville, KY; Life Anew Ministries, Inc.
 54 166.5 371 Muskegon, MI; 6923 Bonnee Corp.
 23 1869 592 Cape Girardeau, MO; Cape Girardeau Family Television, Inc.
 32 1512 292 Appleton, WI; Appleton Midwestern Television
 32 2667 2114 Pueblo, CO; Pueblo Family Telev.
 62 2800 410 Hammond, IN; Cafrican Telev. Inc.
 62 5000 332 Hammond, IN; Cross Country Net.
 62 2496 348 Hammond, IN; Hammond Ind. TV Inc.
 62 2685 729 Hammond, IN; Hammond Telecasters
 62 5000 625 Hammond, IN; Jovon Minority Broadcasting Corporation
 62 2760 489 Hammond, IN; Pan American Broadcasting Company
 47 762 428 Rochester, MN; Sterling Communications, Inc.

APPLICATION MODIFIED: Omaha, NE; ch. 15; change "220 Television" to "Koplar Communications, Inc."

CONSTRUCTION PERMITS GRANTED BY THE FCC
 54 11.8 -219 Arecibo, PR; Arecibo Video Corp.
 61 6.62 559 Greensboro, NC; Consolidated Broadcasting Corporation
 12 316 825 Pembina, ND; Satellite Television Service, Inc.
 25 2140 1020 Victoria, TX; Community Broadcasting of Coastal Bend
 59 2818 978 Indianapolis, IN; New Indianapolis Television Corporation
 30 8.55 234 Meridian, MS; TV-3, Inc. (another DX super!)

APPLICATIONS DISMISSED BY THE FCC: all from Indianapolis for ch. 59; Channel 59 of Indiana, Inc.; Indianapolis 59, Inc.; United Television Corporation of Indiana.

APPLICATION TO MODIFY CONSTRUCTION PERMITS
 61 1963 631 Ashland, KY; WTSF
 34 3732 915 Lubbock, TX; Troy Raymond Moran.

CP MODIFICATION GRANTED BY THE FCC
 1300 1081 Grand Rapids, MI; WMMW-TV
 32 5000 1415 Chicago, IL; WFLD-TV
 40 n.c. n.c. WRJK-TV to change city of license to Bluefield, West Virginia

APPLICATION TO CHANGE EXISTING FACILITIES
 40 2113 Indianapolis, IN; WHMB-TV
 16 2600 1029 Joplin, MO; KTVJ
 39 4508 1679 Dallas, TX KXTX-TV
 35 1186 Erie, PA; WSEE-TV
 26 695 Houston, TX; KRIV-TV (aux. ant. 4 mi. SE of Missouri City, TX.)
 9 316 1601 El Centro, CA; KECC-TV
 45 5000 Baltimore, MD; WBFF
 10 114 Charlotte Amalie, VI; WBNB-TV
 32 5000 1415 Chicago, IL; WFLD-TV

CHANGES IN EXISTING FACILITIES GRANTED
 16 2600 1029 Joplin, MO; KTVJ
 22 1416 Raleigh, NC; WLFL-TV
 3 64.6 1953 Wilmington, NC; WWAY (TL 5 mi. NW of Bolivia on Lewis Swamp Rd; waiver of \$73.61(B)(1))
 64 5000 Providence, RI; WSTG
 39 4508 1679 Dallas, TX; KXTX-TV
 15 542 Phoenix, AZ; KNXV-TV
 6 1930 Wilmington, NC; WECT (began 8/6/81)

26 5000 1270 Knoxville, TN; WTVK
 6 100 1866 Temple-Waco, TX; KCEN-TV (began 9/10/81)
 2 100 Flagstaff, AZ; KNAZ (beg. 9/28)
 21 3720 Youngstown, OH; WFMJ-TV (began 8/10/81)
 32 5000 1415 Chicago, IL; WFLD
 3 64.6 1953 Wilmington, NC; WWAY (see above)
 4 100 903 Columbus, OH; WCMH-TV
 35 1186 938 Erie, PA; WSEE

CALL LETTER APPLICATIONS: NEW STATIONS
 ch c.l. city/state/applicant
 45 KGPC Lawton, OK; Great Plains Country Television Broadcasting Corp.
 49 WAQP Saginaw, MI; Saginaw Communic'ns.
 54 WATX-TV Arecibo, PR; Arecibo Video Corp.
 61 WLKI-TV Greensboro, NC; Consolidated Bc'g
 20 KEQO Enid, OK; Red Carpet Country Bc'g
 33 KSPR Springfield, MO; S'field FamilyTV
 12 KWBA Pembina, ND; Satellite Television Service, Inc.
 38 WSWB Scranton, PA; SWH Associates
 34 KJAA Lubbock, TX; Troy Raymond Moran
 14 WSCO Suring, WI; Northeastern Wisconsin Christian Television, Inc.

CALL LETTER CHANGE APPLICATIONS
 9 KECY-TV El Centro, CA; KECC-TV
 10 KISU-TV Pocatello, ID; KBGL-TV

CALL LETTERS ASSIGNED: NEW STATIONS
 49 WAQP Saginaw, MI; Saginaw Communic'ns
 54 WATX-TV Arecibo, PR; Arecibo Video Corp.
 23 WVAH-TV Charleston, WV;

CHANGE IN CALL LETTERS GRANTED BY THE FCC
 41 KSHB-TV Kansas City, MO; KBMA-TV

CONSOLIDATED HEARINGS
 ● Nashville, TN; channel 30; Carolina Christian Broadcasting, Inc.; American Television and Communications Corp (plans STV; amending their application); T.S.T.V., Inc (STV); Domesia of Tennessee, Inc.; Choice of Tennessee, Inc. (STV, amend application); Consolidated Broadcasting Corp.; Golden West Broadcasters (STV); Music City Thirty, Inc. (amend application); Nash Broadcasting, Inc. (STV); Page Broadcasting Corp.; Satellite Broadcasting Systems, Inc. (amd. application); Tillis Nashville Television (amd. appl'n); Television Corporation of Tennessee (amend application). (thirteen applications)
 ● Manchester, NH; channel 50; Channel 50, Inc.; Golden Triangle Broadcasting Corp.; CTV of Derry, Inc. (specifying Derry, NH as city of license and studio location.)
 ● Orange Park, FL; channel 25; Clay Television, Inc.; Christian Communications of Clay, Inc.; Orange Park Florida TV, Inc. The transmitter site proposed by Clay Telev. is 0.2 miles short-spaced to WACS in Dawson, Georgia. The other two are short-spaced to

Life Style, Inc., an applicant for channel 26 in Daytona Beach, Florida.
 ● Burlington, VT; channel 16; Carolina Christian Broadcasting, Inc.; National Group Telecommunications of Burlington, Inc.
 ● Iron Mountain, MI; ch. 8; TV 8, Inc.; John R. Powley.
 ● Columbus, GA; channel 54; Beacon Broadcasting, Inc.; Columbus Family Television, Inc.
 ● Kalamazoo, MI; channel 64; West Michigan Family Communications, Inc.; Channel 64, Inc.

RESULT OF CONSOLIDATED HEARING:
 Indianapolis, Indiana; channel 59; FCC dismissed applications by Channel 59 of Indiana, United Television Corp. of Indiana, and Indiana 59, Inc. and granted application of Indianapolis Television Corporation.

STATIONS ON THE AIR:
 WDDD-TV, ch. 27, Marion, IL; 8/24/81
 WCCT-TV, ch. 57, Columbia, SC; schedules to begin 10/2/81

WMSY-TV, ch. 52, Marion, VA; 8/1/81
 KTRV, ch. 12, Nampa, ID; 10/18/81
 KAME-TV, ch. 21; Reno, NV; 10/11/81
 WLFL-TV, ch. 22, Raleigh, NC (scheduled for mid-November)
 WOQR, ch. 50, Washington, DC; 10/28/81
 WFBN, ch. 66, Joliet, IL

STATIONS OFF THE AIR TEMPORARILY (stale news but for the benefit for those who couldn't log them when they should have: WVBD, ch. 44 in Aguadilla, PR; WKBM-TV, ch. 11 in Caguas-San Juan, PR; and WSUR-TV, ch. 9 in Ponce, PR are temporarily off the air until 11/30/81.

Coming up: 1982 "RETROSPECT" series.
 January, 1982: "What Really Happened to Channel One." We probably all know that the FCC dropped it because of interference, but what kind of interference? What frequencies did it cover? What's it used for now?
 February, 1982: "The Freeze on TV Broadcast Licenses." What caused it? How did the FCC handle CCI problems? How did RCA attempt to solve CCI before offsets were used?
 March, 1982: "Early Experimental and Broadcast Stations."
 April, 1982: "How Translators originated." I'm also open for suggestions for future subjects in this series.

CHANGES IN STATION ID APPLIED FOR:
 Mayaguez, PR; WORA-TV, ch. 5, to ID as Mayaguez-Aguadilla, Puerto Rico.

CHANGES IN STATION ID GRANTED BY THE FCC
 Portsmouth, VA; WVAH-TV, ch. 27 to ID as Portsmouth-Norfolk, Virginia
 Beaumont, TX; KBMT, ch. 12, to ID as Beaumont-Port Arthur, Texas.

PHILADELPHIA, PA: WWSG-TV, ch. 57, which has so far broadcast STV in the evenings and only a promo slide all day, will begin free programming on 11/30/81 with a schedule made up of material from the Cable News Network (CNN) and the Los Angeles-based Financial News Network (FNN).

NEXT MONTH: Translator information, update on what's been happening in Canada sent in from Walter Patton, and the first part of the "RETROSPECT" series.

NORTHERN FM-DX

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

DECEMBER 1981

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.

PLEASE NOTE NEW DEADLINE DATE.

David J. Nieman - 12284 Nice Rd. - Akron, NY 14001

Equipment: Sansui G-8000, Winegard Antenna w/T Rotor at 27 feet.

8/1 tr		8/30 tr	
1100 WHAD 90.7 WI Delafield	480	0107 WMKX 95.9 PA Brookville	130
1115 KUNI 90.9 IA Cedar Falls	680	8/31 tr	
1245 KQCR 102.9 IA Cedar Rapids	660	0134 WNCE 101.3 PA Lancaster	245
1251 KLIK 103.7 IA Davenport	605	9/2 tr	
1255 WEZW 103.7 WI Wauwatosa	460	1402 WIXX 101.1 WI Green Bay	490
1300 WBCS 102.9 WI Milwaukee	450	10/1 tr	
1415 WZUU 95.7 WI Milwaukee	450	1235 WGLE 90.7 OH Lima, testing	320
1423 WQFM 93.3 WI Milwaukee	450	10/9 MS	
1451 WTKM 104.9 WI Hartford	470	0102 KJEZ 95.5 MO Poplar Bluff	750
1542 WMBI 90.1 IL Chicago	455	10/23 MS	
8/2 Es		0202 WSNE 93.3 MA Taunton, "FM-93 WSNE" 390	
2030 ZEM 89.1 BM Hamilton	1000	10/27 MS	
8/6 Es		1015 KFFR 101.1 ?? ? "From the KFFR nx room"	
1804 WRMB 89.3 FL Boynton Beach	1175	10/29 tr	
1816 WLYF 101.5 FL Miami	1200	1354 WAQX 95.3 NY Manlius, r, "95-X" 125	
1902 WAMR 92.1 FL Venice	1100	(Heard o/100kw only 60 miles away)	
2336 WKGC 90.7 FL Panama City	950	10/31 tr	
8/10 tr		0230 WVSP 90.9 NC Warrenton, s	450
0101 WXTV 102.7 MD Baltimore	265	0307 WLTJ 95.7 VA ? r, "Y-96" ???	
8/12 MS		0325 WNC3 106.9 MD Hagerstown, k	240
0143 WEIC 92.1 IL Charleston	575	0412 WRAL 101.5 NC Raleigh, r	510
0330 KDMI 97.3 IA Des Moines	750	0437 WITN 93.3 NC Washington, "Rock-93" 550	
8/14 tr		0500 WQDR 94.7 NC Raleigh, r	510
0104 WTPA 104.1 PA Harrisburg	210	0514 WKGO 106.1 MD Cumberland, r	240
0121 WKKW 104.1 PA Allentown	230	0600 WVVV 97.5 VA Charlottesville, AoR 340	
8/15 tr		0630 WHRO 89.5 VA Norfolk, fund raise	450
0152 CKWR 98.7 ON Kitchener	115	0702 WOWI 102.9 VA Norfolk, s	450
8/18 tr		0722 WSYS 104.7 VA Crewe, k	400
0013 WKCQ 98.1 MI Saginaw	280	(Heard again at 1100 using new 100kw xmtr.)	
0134 WFBG 98.1 PA Altoona	185	0748 WWSL 97.3 NC Wilmington, r	610
8/18 MS		(New Underlined)	
1902 KBFL 90.3 MO Buffalo	830	The Best of DX, Dave	

Patrick Durkin, Jr. - 1940 Oakdale Ave. #305 - West St. Paul, MN

Equipment: Pioneer SX-850 with dipole antenna, or GE 7-2880B Superadio with whip. Both antennas at 35 feet.

10/3 tr		10/26 tr	
0009 WCFW 105.5 WI Chippewa Falls	90	0035 WIMI 99.7 MI Ironwood, r	190
0224 WZOK 97.5 IL Rockford, r	265	10/27 tr	
0226 WZUU 95.7 WI Milwaukee, r	280	1800 KJJO 104.1 MN St. Louis Park, 10	
2033 KRPR 89.9 MN Rochester, low pwr.	65	ex-KRSI, now k	
2100 WBWA 105.9 WI Washburn, m, new	170	2023 KTWV 107.9 MN Anoka, broadcasting on 107.7. See comments.	
10/11 tr		2027 WBWA 105.9 WI Washburn, m	170
2130 KOSG 92.7 IA Osage, new station	105		

DX is Minnesota during October was, as expected, lousy. The new stations I logged were either new to the airwaves or on frequencies left empty due to local stations being off the air. I tried during the Draconid and Orionid meteor showers to pick up a few new stations. I heard some bursts, but no ID's. For some strange reason, on the evening of 10/27, KTWV in Anoka, normally on 107.9, was broadcasting on 107.7. Someone must have been playing around with their transmitting equipment, since KTWV was back on 107.9 the next day.

Today (October 31st) on a trip back from South Dakota I tried DXing at a park about 12 mi. east of Watertown, SD, to see what FM DX conditions were like in that flat area of the country. Using the GE Superadio, I was able to pick up many stations in the 100-150 mile range, plus two distant stations: WCCO-102.9 Minneapolis, MN at 185 mi. and WY-94.5 Bismarck, ND at 235 mi. I also heard the new KJKK-96.5 Fergus Falls, MN,

NORTHERN FM DX

Pat Durkin cont'd:

DECEMBER 1981

with a strong signal, 110 miles away. Interesting to see what effect terrain has on FM reception (tropo conditions were not unusual at the time). I'm not expecting much DX in November, unless we're lucky and Es returns like they did last November. Present Log Totals: 145. 73s, Pat

Dave Brumfield - 1505 Kimberly Lane - Muncie, IN 47304

Equipment: 2270 Marantz receiver w/Winegard antenna and rotor at 40 feet.

3/17 tr		7/22 Es	
0400 KSEL 93.7 TX Lubbock	1070	1051 KEXX 93.9 TX Corpus Christi	1170
3/19 tr		1055 KIOU 96.5 TX Corpus Christi	1170
0200 WBLK 93.7 NY DePew-Buffalo	385	1100 KMFA 89.5 TX Austin	1040
6/4 tr		1103 KAMU 90.9 TX College Station	960
0022 WHVO 93.7 OH Mt. Vernon	130	1110 KTXN 98.7 TX Victoria	1100
0746 WAPS 89.1 OH Akron	200	1116 KASE 100.7 TX Austin	1040
6/29 tr		1120 KLBK 93.7 TX Austin	1040
0030 WVCT 105.7 IL Peoria, o/WTLC	245	1125 KAFM 92.5 TX Dallas	850
0040 WXFM 105.9 IL Elmwood Park-Chicago	170	1128 KMFM 96.1 TX San Antonio	1110
7/13 tr		8/4 tr	
0400 WDZZ 92.7 MI Flint	210	2300 WDBK 92.5 IL DeKalb	235
0401 CFPL 95.9 ON London	275	8/3 tr	
7/22 Es		0100 WKTI 94.5 WI Milwaukee	230
1040 KUHF 88.7 TX Houston	960	(Total from Muncie: 658)	

(Ed. Note: Dave has moved back to Richmond, IN where he has been DXing the TV band. His logging of KSEL Lubbock, TX by tr was a rare catch. The ID was taped.--RS)

Larry Weil - KAL BCP - 15 Davis Rd. Apt. A-12 - Acton, MA 01720 (617-263-3951)

Equipment: Kenwood KT-8005 Tuner w/twin-lead dipole outside window approx. five feet above ground. I was quite surprised by these distances, considering my rather modest antenna. (Time EDT).

8/6 Es		10/31 tr	
2245 KQDR 91.3 IA Souix Center, j	1380	2155 WIGY 105.9 ME Bath-Brunswick, r	145
2255 WYER 94.9 IL Mt. Carmel, rm	1000	2158 WBLM 107.5 ME Lewiston-Auburn, rp	140
2306 KXTR 96.5 MO Kansas City, r	1370	2249 WWMR 96.3 ME Rumford, ex-WRUM, r	150

73, Larry

Bob Zent - 1835 Fruit St. - Huntington, IN 46750

10/5 tr		10/12 tr	
2328 WTBZ 99.3 WV Parkersburg, p,	235	2306 WDFP 94.3 OH Marion, r, o/WKKI	115
PSA mentioned Marietta, OH Holiday Inn.		10/18 GW	
10/7 tr		2149 WLYT 92.3 OH Cleveland Heights, 210	
2259 WPOS 102.3 OH Holland, g	105	r, o/WTWR, Detroit levels down.	
2306 WYAN 95.9 OH Upper Sandusky, s/off	115	10/27 GW	
		1848 WGLE 90.7 OH Lima, new & testing	75
2321 WAOP 100.9 MI Otsego, k	110	10/27 tr	
2339 WZND 99.3 MI Zeeland, k	140	2301 WLYK 107.1 OH Milford-Mariemont, m	140
10/12 tr		10/28 GW	
2228 WFOO 98.3 OH Bellefontaine, o/WZZY 95	1534	WJVS 88.3 OH Cincinnati, r	135

To increase my totals I've been concentrating on class A channels which I've previously ignored. This has brought my total FM log to 722. Cincinnati is occupied most of the time by WAIF. I was fortunate to be home early enough this time to log WJVS, which operates daytime sharing channel with WAIF. 73s, Bob

Daniel E. Oetting - 2882 Old Cedar Grove Rd. - Broomall, PA 19008

Equipment: Panasonic RF-2600 w/Archer 10 element log yagi FM antenna directed NW at 25 ft., telescoping "whip" antenna, and two tape recorders.

Usually, at least in recent years, little VHF-UHF DX in October had turned my DX time from FM and TV to AM and SW. However, this October, it was a different story. VHF and UHF occupied all of my DX time. The tropo this October was fantastic. I've never witnessed tropo this good in October. In fact, the best tropo in the history of my DXing occurred on 10/14-15. Another excellent tropo occurred on Halloween, 10/31. Log total now stands at 417, including 99 educational band, 63 commercial class A stations, 85 GW, 205 tropo, and 123 E-skip.

See Next Page For Report

10/10 tr (EDT)
 0503 WXXI 91.5 NY Rochester, c
 10/11 tr
 2101 WDBA 107.3 PA Du Bois, g
 2118 WSBQ 97.7 PA Jersey Shore, r
 10/14 tr
 0925 WMDM 97.7 MD Lexington Park, r
 2300 WSFL 106.5 NC Bridgeton, r, (360)
 Called 'em up. Announcer said they don't usually do requests, but they made an exception for PA. WSFL in very strong at times.
 2323 WYVA 94.1 VA Yorktown, local on freq.
 2330 WITN 93.3 NC Washington, r, local on freq. (330)
 2359 WAZZ 101.9 NC New Bern, ID, (365)
 10/15 tr
 0035 WROV 88.3 VA Hampton, ID, s, watts, "Tidewater's best soul," "Voice of Hampton."
 0102 WAAF 107.3 MA Worcester, p, (240)
 0105 WBUR 90.9 MA Boston, ID, j, (275)
 0105 WSHU 91.1 CT Fairfield, r
 0134 WRCH 100.5 CT New Britain, m
 0137 WHSL 97.3 NC Wilmington, rp, (425) in good
 0141 WPBH 90.5 CT Middlefield, s/off
 0200 WICN 90.5 MA Worcester, pr, ID
 10/15 tr
 0203 WHUS 91.7 CT Storrs, s/off
 0210 WQDW 97.7 NC Kinston, s, "Super Soul Q-97" (360)
 0214 WKSS 95.7 CT Meriden, m
 0217 WHCN 105.9 CT Hartford, p
 0227 WRVQ 94.5 VA Richmond, r
 0251 WUUB 91.3 CT West Hartford, p, ID
 0324 WKCI 101.3 CT Hamden, r
 0330 WROR 98.5 MA Boston, r, ID
 0336 WFLR 99.1 CT New Haven, p
 0900 WRJA 88.1 SC Sumter, ID, (495)
 0915 WRKI 95.1 CT Brookfield, p, "I-95" (New stations and states underlined)

10/15 tr
 0927 WXTG 96.9 SC Charleston, m, "Ecstasy"
 My most distant FM station by tropo. (565)
 1005 WEZS 103.7 VA Richmond, m
 1215 WRJA 88.1 SC still in; E NC in v. good
 2049 WRCH 100.5 CT New Britain, m
 2152 WMNR 88.1 CT Monroe, m
 2220 WSFL 106.5 NC Bridgeton, r
 10/21 tr
 0946 WMNR 88.1 CT Monroe, c
 0947 WEZN 99.9 CT Bridgeport, m
 2248 WYVA 94.1 VA Yorktown, k
 2255 WXTR 104.1 MD La Plata, rk
 10/22 tr
 0850 Several CTs in.
 0900 WHUS 91.7 CT Storrs, strong signal
 0900 WLVB 93.7 CT Hartford, ID, SS
 0921 WBOB 92.9 MA Brookline, r
 0945 WAAF 107.3 MA Worcester, p
 10/30 tr (EST)
 0845 WQSU 88.9 PA Selinsgrove, ID
 0850 WQXX 94.1 PA Sunbury, k
 0850 WKSB 102.7 PA Williamsport, r
 2155 WDBA 107.3 PA Du Bois, m
 2200 WISL 95.3 PA Shamakin, r
 10/31 tr
 0800 WCRH 90.5 MD Williamsport, wx & ID
 1656 WPNT 92.9 PA Pittsburgh, m, ID
 1700 Excellent Central PA tropo.
 1812 WDMT 107.9 OH Cleveland, d, ID, (340)
 1817 WVOR 100.5 NY Rochester, r
 1852 WYRK 106.5 NY Buffalo, k, ID
 1900 WDUQ 90.5 PA Pittsburgh, ID
 1906 WTLR 89.9 PA State College, g
 1917 unID 95.5 ?? m
 2105 WFXZ 92.9 NY Buffalo, r, ID
 2130 WRRN 92.3 PA Warren, m
 2157 unID 99.9 ?? rp, not WKHI
 2210 CKDS 95.3 ON Hamilton, ID, m
 My first Ontario by tropo.
 2215 CHRE 105.7 ON St. Catharines, m, ID
 2304 WMIV 95.1 NY Bristol Center, g, ID

I'm planning an upgrade in my DXing equipment next spring. I now have an Archer 10 element log yagi FM antenna in the attic directed to the NW. I would like to put it up on the roof with a rotor at 35 feet. I'm debating whether or not to purchase GE's Superadio. My Panasonic RF-2600 is working fine, but I'm wondering if the GE Superadio will have better sensitivity and selectivity. Has anybody had experience with both the Panasonic RF-2600 and the GE Superadio? How does the Superadio perform in areas near transmitters?
 Season's Greetings to all. 73's, Dan

Roger Gravelle - 60 Valerie St. - St. Thomas, ON N5R 1A8

Equipment: Delhi 1047, Tac 84 Jerrold Amp. at 72 feet, Sony Earth Orbiter.

10/9 tr
 1400 CJFI 99.9 ON Sarnia
 10/17 tr
 0100 CKNX 101.7 ON Wingham
 10/30 tr
 1200 CHRW 94.7 ON London, U. of W. ON s/on, on 24 hrs., 50w, 182 ft. ant. ht.
 1205 WKHR 88.3 OH Bainbridge, where? (Two towns in Ohio are called Bainbridge. This one is S-SE of Cleveland near Chagrin Falls and operates with 100 watts.-RS)
 CJFI Sarnia competes with one of my favorite stations WLVU Erie, PA. CHRW "Radio Western" is listenable from London to Talbotville approx. 17 mi. on car radio. I need my tower to get it at home 3 mi. south of St. Thomas. CIXX London is so weak now I can't listen to it in my car or at home. Their transmitter got hit by lightning. Now 150 watts, not 3000.

10/30 tr
 1210 WOSE 94.5 OH Port Clinton 135
 1242 WCVJ 90.9 OH Jefferson 140
 1645 CJQR 97.7 ON St. Catharines, k 105
 1648 CKO-2 99.1 ON Toronto 130
 1700 WYRK 106.5 NY Buffalo, k 140
 1702 CILQ 107.1 ON Toronto 130
 1708 C?? 107.9 ON Burlington, 95
 no calls, "FM-108," German programming
 1728 CFNY 102.1 ON Brampton 90
 (Log Total: 381)
 73's, Rog

Present total logged is 2,067 with 100% of all stations logged coming from this (and only this) QTH. I do NOT count sharetimers or bootleggers. I do NOT count any DX that's not live - meaning I don't let the tape recorder run all night and then play the tape back at a later date. Although many stations have been heard off frequency, none have been counted except for XHRA. Also, I have never counted any translators that I didn't ID. Meaning even though KALL translators have been heard on almost every class A frequency none have been counted.

On probably 95% of my claims full call letters were heard. My MINIMUM standards for counting a station is two local (not area) commercials and both commercials must include the state. I think that means when you see a station underlined in any of my DX reports you may rest 100% sure the station was heard. Some DXers in (and out) of the WFDAs won't count a station unless they hear and tape a complete ID! Anyone that's not 100% sure of their claims is in effect saying, "but I could be wrong," and there sure have been a lot of DX reports with "wrongs" lately. (Ed. Note: I thoroughly agree with the above statements. If one didn't hear enough information from a station, it is an unID. Non-IDs should not count as a new station).

8/3 Es 1900-2100 WH-JY, WHOM, WSOX & many unIDable PQ & NS stations. 8/6 Es 2120-2245 many unIDable CN's + CFQR, CKMF; also from ME were WFMS, WBGW, WIGY, WKXA, WRUM, WABX, (from NH) WHOM, WXLQ, (from MA) WHAV, WMYS, (from CT) WWYZ & WLVB. Also WNYU & WPLJ both NYC. 8/7 Es 1200 KCFR 90.1 Denver CO. Later 2010-2050 Salt Lake City/Provo UT (1265) to the top w/KBYU, KWHO, KALL, KRSP & KSOP. 8/8 Es 1335-1520 @1402 KASK \$R 103.1 Las Cruces NM (1155); 1500 KDEM w/jingle ID/EZ/\$ 94.3 Demming NM (1210). Some MX, NM, TX relogs were KTEP, KFIM, KAMA, KSET, KLAQ, KHE-Y, XHGU, XHEM, XHTO, KPJH, K-BAT, KENW, KNIT, KGRD & KRWG. 8/14 Tr @0100 all Little Rock AR strong; 0130 KNOE 101.9 Monroe LA (535). 8/20 Tr @0000 KGOR 99.9 Omaha NE (440). 8/22 Tr @2030 til 0200 on 8/23 were WAYL, KEET & KTIS all Minneapolis-St. Paul MN (465). 9/9 Tr @2000 WZZK, WQ-EZ, WDJC all Birmingham AL (430); 2317 WLWI \$K 92.3 Montgomery AL (510) finally completing all stations logged from that city. 9/10 Tr @0001 WUWF \$/jazz 88.1 Pensacola FL (640); 0023 WEZB "B-97" \$R New Orleans LA (670); 0031 WKMX 106.7 Enterprise AL (590); 0100 WHHY 101.9 Montgomery AL; 0130 WA-JY (xWWL) 101.9 New Orleans LA; 0200 WPKR 94.9 Roanoke VA (470). 9/11 Tr 0000-0100 KESD 88.3 Brookings SD strong (560). 9/23 Tr @0200 WZZK Birmingham & WRAS 88.5 Atlanta GA (445); Later @1715 WVDQ MS (505); 2045 WJMI & WLIN both Jackson MS (530); 2105 WKTV now 24 hrs. 106.7 Vicksburg MS (520); 2320 WKMX S. AL (590). 9/24 Tr after 0000 WZZK, WJDQ, & WKTV. 9/25 Tr 0000-0200 WALT & WJDQ both Meridian MS (505) very strong; also in were WKTV, WZZK, WRAS, WHHY & WKMX. @0402 WJAD "97 Rock" \$ 97.3 Bainbridge GA (630). 9/26 Tr after 0000 WWID GA (450) plus WZZK, WRAS, & WJDQ. 9/29 Tr @0100 WJDQ & WZZK. 10/7 Tr @0100 WJDQ, WZZK & WDJC. 10/11 Tr @2300 KLUP 97.9 Poteau OK (475). 10/12 Tr after 0000 KRAV 96.5 Tulsa OK (480) & KOFM 104.1 Oklahoma City OK (590).

Happy Holidays!

Ralph Strobel - 2510 E. McGalliard Rd. - Muncie, IN 47303

10/28 tr
 2247 WGLE 90.7 OH Lima, \$, testing, ID 60
 11/1 tr
 0307 WMHD 90.5 IN Terre Haute, testing 140
 11/2 tr
 0200 WVIK 90.1 IL Rock Island, p\$ 300
 11/4 tr
 0113 CJFI 99.9 ON Sarnia, r, ID 250
 Even though the easterns had good DX in October, those of us in the Midwest found very little. A warmup in weather 11/11-13 produced strong openings, but not strong enough to find anything new. WGLE in Lima has destroyed 90.7 for me. WAUS can be heard thru WGLE, but that is all. Terre Haute's new WMHD has 160 watts. Modulation is very poor when the DJ speaks. The ID from CJFI "Sarnia's Music Leader, FM-100," was surprising right over 99.9 in Toledo. That is all from here. Merry Christmas and 73's, Ralph

WESTERN TV-DX

December 1981

Fred McCormack
Box 5221
State University Sta.
Fargo, ND 58105

Deadline: 1-1-82

New	New Mode	Tentative - t	Unidentified - unid	Log Total - 95	MDT
Jim Pizzi, P.O. Box 1778, Lovington, NM 88260					
September 1981					
1 tr	1830	KLKK 23 NM	240	7 Es	2026 KROW 4 CA 1116
		1900 KNME 5 NM	240	8 tr	0053 KOAT 7 NM 240
25 tr	0830	KAMR 4 TX 184			0147 ROB 4 NM 240
		KVII 7 TX 184		9 tr	0825 KTBO 14 OK 380
		KFDA 10 TX 184			KGMC 34 OK 380
	0900	K131L 13 TX 110			KAUT 43 OK 380
		(Ft. Sumner KOAT-7)		0831	KTWS 27 TX 368
26 tr	0820	K69CV 69 NM 74		0835	KOKH 25 OK 380
		(WSW Carlbad KENW-3)			KNEW 33 TX 368
	0825	K65CB 65 NM 123		0837	KTKA 21 TX 368
		(Forest KENW-3)		0838	KXTX 39 TX 368
		(20kHz to Clovis 65)		0905	Austin 18,24,39
	0850	Austin 18,24,36		0910	KNCT 46 TX 368
October 1981					
1 tr	1825	KGGM 13 NM	240		
	1830	KGSW 14 NM	240		

DX here has been good with several new ones and many relogs. 200-300 mile tropo scatter seems normal so far - still don't have tower (65') or other antennas up yet - pretty soon, I hope. 73's

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

I have recently become a member of WIFDA. My present equipment includes an RCA 1982 XL-100 color TV, a J.C. Penney 5" b/w portable and an Archer VU-120 antenna with an RG-6/U coax lead-in. I am also into FM DX'ing as well. Sometime in spring of 1982, I hope to get a Winegard AC-9880 installed at the antenna to bring in VHF & UHF "Cable Clear." I have already predicted the picture quality using the TASO grades mentioned in the October VUD. See you in 30. 73's

August 1981	September 1981	October 1981
30 tr 1457 KRIN 32 IA 118	5 tr 2139 WHA 21 WI 168	5 tr 2139 WHA 21 WI 168
15 tr 1041 WLEF 36 WI 170	6 tr 1920 WVTU 18 WI 237	6 tr 1920 WVTU 18 WI 237
1055 WSAU 7 WI 155	1922 WCGV 24 WI 237	1922 WCGV 24 WI 237
1057 WAOV 9 WI 155	1959 WKOV 24 WI 168	1959 WKOV 24 WI 168
1117 WKOW 27 WI 168	2006 WGVCT35 MI 336	2006 WGVCT35 MI 336
2258 WOI 5 IA 148	2014 WGVG 35 MI 336	2014 WGVG 35 MI 336
2318 WTVV 18 WI 237	(very pos. ID @2014)	(very pos. ID @2014)
2351 WMT 2 IA 148	20 tr 1002 unid 25, WI, IL?	20 tr 1002 unid 25, WI, IL?
2355 WABO 12 WI 178		
16 tr 1150 WCGVT24 WI 237	3 tr 2110 WCGV 24 WI 237	3 tr 2110 WCGV 24 WI 237
	5 tr 2107 WKOW 27 WI 168	5 tr 2107 WKOW 27 WI 168

Fred McCormack, 135 Prairiewood Drive, Fargo, ND 58105 CST

Only one new logging this time. On October 16 at 0914, I found a station on ch 45. The station was running a local program called Channel 45 Coffee Break and among other items had "Eagle Bend Community Calendar" and a local exercise program. I have not identified this station yet. All I know is that it is on channel 45, near Eagle Bend, MN (about 100 miles se of here) and is a new logging. It looked like what I expect some of the proposed LPTV's to look like, but since none have been authorized, I assume it was a translator with a waiver for local origination. I hope to identify it by next time.

Let's have some reports. I expect DX from this location to be rather sparse for a while now; so, without your help, there won't be much of a column. 73.

EASTERN TV-DX

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

Eastern TV-DX

Deadline: 1st

Tropo activity was at a standstill during the past month due to the much below normal temperatures and generally rotten weather in the Northeast. I didn't do much watching during the Orionids Meteor Shower so I don't know if there was much to be had this time. Please note the earlier deadline and get your reports here on time.

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

August 1981	August 1981	August 1981
6 Es 2100 WGBH-2 MA	18 Tr 0523 WKBT-8 WI	20 Tr 0546 KETV-7 NE
	0524 WTCN-11 MN	0547 KGIN-11 NE
	0530 KOKH-25 OK	0550 KOLN-10 NE
	Oklahoma City	0554 KXON-5 SD
	0549 KTVH-12 KS	0618 KEYC-12 MN
	0550 KCMO-5 MO	0621 KUON-12 NE
	0605 KOTV-6 OK	0630 K33-- Pawnee
	Tulsa	City, NE (KUON-12)
	0612 KODE-12 MO	K23-- NE
	0614 KBMA-41 MO	(KUON-12)
	0629 WKEN-27 OH	KYNE-26 NE
	0630 WFMJ-21 OH	KHNE-29 NE
	WAKR-23 OH	0305 KSTP-5 MN
	0645 KGMG-34 OK	0311 WCCO-4 MN
	0646 KOKI-23 OK	0312 WDAY-6 ND t
	Tulsa	2100 KELO-11 SD
	0659 KTBO-14 OK	2129 KMEG-14 IA
	Oklahoma City	0829 KEYC-12 MN
	0753 KAUT-43 OK	0830 26,29,33 Neb-
	Oklahoma City	raska ETV.
	19 Tr 0829 WBTV-64 OH	2130 KYNE-26 NE
	W66-- OH	KHNE-29 NE
	(x1tr of WBTV)	2159 KOLN-10 NE
	2100 KAUT-43 OK	KGIN-11 NE
	KGMC-34 OK	2200 9,14,27 Sioux
	KTBO-14 OK	City.
	KGCT-41 OK	
	1230 KHNE-29 NE	
	KYNE-26 NE	
	2058 KMEG-14 IA	
17 Tr 0534 KCMO-5 MO	20 Tr 0450 WKEF-22 OH	
0550 KTSB-27 KS	0451 WKYT-27 KY	
0854 KHNE-29 NE	0452 Lexington;	
0858 KTVJ-16 MO	18 & 36	
18 Tr 0436 WKEF-22 OH	0459 KTBO-14 OK	
WTVQ-36 KY	KMTC-27 MO	
0446 KTBO-14 OK	0500 KSTP-5 MN	
0447 KMTC-27 MO	0504 WXLX-19 OH	
0451 WKYT-27 KY	0511 KTIV-4 IA	
0459 WUAB-43 OH	0525 WQWT-6 NE	
0500 WKYZ-7 MI	0527 KELO-11 SD	
0518 KTUL-8 OK	0537 KTVH-12 KS	
	0539 KOKH-25 OK	
	0541 KQTV-2 MO	

"The Es season has been rather dismal. Actually, the first part of August produced the best E-Skip of the season rather than June or July. The best tropo has also occurred during August with the better openings to Oklahoma and Nebraska. I have yet to receive a significant opening to the East. I have had neither Buffalo 29 or Pittsburgh 53 this season. WFN-66 Joliet has been on since about the last week in September with a full color bar test pattern with I.D. across the bottom for several hours before signing on at 4:30 P.M. WFN's antenna is on the John Hancock Building. "Spectrum" is the name of their pay-tv service which begins at 6 P.M. Neither WSNS-44 or WFN-66 have a barker on their audio and are generally full quieting. Ch. 60, Aurora-Chicago is to be a newpay tv due on apparently April 1982 with

Eastern TV-DX Shults; continued--- December 1981
 "Sportsvision" carrying White Sox, Blackhawk, Bulls, and Sting games from atop the Sears Tower utilizing "ONTV" pay tv decoders. WCGV-24 Milwaukee is "SelectTV" and has a barker and negative type video."

Michael P. Hollis; 102 Star St., Enterprise, AL 36330 CDT
 June 1981 June 1981 August 1981
 14 Tr 0526 KMOE-8 LA 380 21 0554 Tr KSLA-12 LA 480 3 Tr 0517 KFVS-12 MO 460
 0606 WAVT-15 MS 300 Shreveport Cape Girardeau
 0614 WAMS-30 FL 280 Es 1500 KBJR-6 MN 1150
 0615 WFTV-23 FL 500 Duluth
 0821 WCIP-18 GA 250 24 Es 1700 KXZ-3 MO 1300 4 Es 0817 CBFT-2 PQ 1200
 Chatsworth Cerro del Zamorano 0830 KCOO-2 ON 1000
 0825 W49AD GA 160 28 Es 0900 KGKT-2 KS 900 12 Tr 0505 WSOO-9 NC 400
 Carrollton(WJSP) 1700-2000 MUF ch.6 0507 WGHF-8 NC 470
 15 Tr 0429 WCKT-7 FL 530 13 Es 1008 YSR-2 ES 1250
 0411 WTVJ-4 FL " July 1981 San Salvador
 Miami 4 Es 1800 CKCO-2 ON 1000 25 Tr 0400 WNGE-2 TN 350
 0450 WOFL-35 FL 330 Warton Nashville
 0455 WTSP-10 FL 290 5 Es 1300 CBFT-2 PQ 1200 (had to go to work; good
 16 Es 1832 KWGN-2 CO 1250 Montreal inversion forming)
 2000 DENVER-3 NM 1050 1800 CKVR-3 ON 990 1515 WDCN-8 TN 350
 Portales 8 Es 1000 KDHL-3 MN 1150 2000 WUSI-16 IL 530
 2100 KNID-2 TX 960 Duluth
 Midland 2000 KTCA-2 MN 1050 2200 WISH-8 IN 600
 20 Tr 0600-0630 KHTV-39 TX 590 24 Tr 0538 KPLC-7 LA 460 2230 WCTE-22 TN 340
 0635 KPLC-7 LA 460 0543 KHTV-39 TX 590 26 Tr 0425 WPCQ-36 NC 400
 0648 WSOC-9 NC 400 0547 KHOU-11 TX " 0430 WCCB-18 NC "
 0450 WGHF-8 NC 470 0606 KRIV-26 TX " 0435 WSOO-9 NC "
 Gastonia-High Point 0610 KUHT-8 TX " 0515 WGHF-8 NC 470
 0525 WDEB-6 FL 330 26 Es 1330 WRGB-6 NY 1050 0524 WKII-12 NC "
 Orlando Schenectady
 0544 KLTV-7 TX 470 31 Es 1000 KNID-2 TX 960 0711 WUNG-58 NC 410
 0545 KATV-7 AR 450 Concord
 0547 KTHV-11 AR " 0712 WGNM-45 NC 400
 Winston-Salem
 (now WJTM-wd)

"It has been a really slow summer for TV-DX. Very few E's and Tropo. This is probably one of the slowest summers since I started DXing in 1978. I missed out on several good tropo openings in late Sept. due to my work schedule. Especially the tropo on 9-25. It must have been good since I was still getting stations at +350 miles at 1500 that afternoon. I was able to get what was left over that evening."

Rich Turcsany; 4 Charlesgate East, Boston, MA 02215 EDF
 Loggings made at Shelton, CT:
 July 1981 July 1981 July 1981
 4 Es 1100 WLSH-2 FL 10 Es 1028 KMOS-6 MO 26 Es 1400 MUF to 106 Mhz
 WPST-2 FL 1100 WMT-2 IA 30 Tr 2145 WWAC-53 NJ
 WLDU-3 FL KATV-2 MO Atlantic City
 WPTV-5 FL KTVO-3 MO 31 Tr 0830 D.C. U's
 1130 WDEB-6 FL 17 Tr 2300 WITN-7 NC
 1200 WKRG-5 AL WNCN-9 NC
 1300 WDIQ-2 AL WAVY-10 VA
 2330 KPHX-4 SD WCTI-12 NC
 5 Es 1300 WMAZ-2 MS WVEC-13 VA
 1400 WPBT-2 FL WHRO-15 VA
 WTVJ-4 FL W25AA VA
 TR-2 Cuba Onancock
 1645 WPTV-5 FL W44AD VA
 WCIX-6 FL WBFF-45 MD
 1648 ICR6-3 Cuba W52AB VA
 1700 TR-5 Cuba W60AL VA
 1740 WLDU-3 FL W64AS DE
 1800 WRSL-3 GA WRBV-65 NJ
 WKRG-5 AL 19 Tr 0900 WDCB-20 DC
 1815 WDEB-6 FL WAPB-22 MD
 1900 MUF 99Mhz WETA-26 DC
 WTKK-66 VA
 10 Es 0949 KLMV-6 AR 1100 Onancock xlters 2200
 Mountain View WREG-3 TN, WNCN-5 TN
 1000 WTVF-5 TN 26 Es 1400 Unidses 2-6. 2300 KMOS-6 MO

Eastern TV-DX Turcsany; continued--- December 1981
 Loggings made at Boston: September 1981 September 1981 September 1981
 18 Tr 0700 WTNH-8 CT 26 Tr 2330 WATR-20 CT 26 Tr 2330 WKBS-48 NJ
 WOR-9 NY WLIW-21 NY WEDW-49 CT
 WPIX-11 NY WWLP-22 MA (testing with 2010 kw)
 WNET-13 NY WTAF-29 PA WJTM-50 NJ
 WLIW-21 NY WVIT-30 CT WWAC-53 NJ
 26 Tr 2330 WPHL-17 PA WNNE-31 NH
 WHCT-18 CT WGGB-40 MA

"Boston will serve as a temporary QTH while attending Emerson College here. At Shelton, the Es wasn't as great this season (figures), and would be in only twice a week. Tropo brought in the new logging of WWAC-53, Atlantic City's first (and only) TV station. It operates as an indie with syndicated shows, movies, and a magazine show featuring casino performers and chefs. Ch.53 is clearer than WRBV-65 on tropo. Here in Boston, WSTG-64 and WTR-66 are not on yet, although Broadcasting Yearbook 1981 has October as WGR-TV's target date. I'm also thinking about petitioning the FCC to allocate UHF channel 69 for commercial use at Hyannis, MA, which would help give Cape Cod it's own TV station. The Yearbook also shows two applications for channel 28 at New Bedford, but no STV plans. As of 10/24, F2 conditions are back at 1980 levels with daily reception of BBC video and traces of E-2 video. Next report could have reception of E-2 video in Boston using my multi-standard TV."

William J. Draeb; Ellis St. R.R.#2, Kewaunee, WI 54216 CST-CDT
 October 1981 October 1981 October 1981
 10 Tr 1858 WTVQ-36 KY 473 13 Tr 2249 WFIE-14 IN 420 30 Tr 0630 WETK-33 VI 707
 WKLE-46 KY " WEHT-25 IN " WEFZ-22 VT "
 WPTT-22 PA 480 2300 WEMG-42 AL t 1843 KOZK-21 MO 589
 1909 KOZK-21 MO 589 WHMA-40 AL t KMTG-27 MO "
 KCEJ-17 MO 450 WZTV-17 TN 585 2129 WFMJ-21 OH 420
 12 Tr 2200 WJET-24 PA 405 2319 WKOH-31 KY t WYTV-33 OH "
 WCLN-54 PA " 2331 WKYT-27 KY 473 31 Tr 1800 W59AQ MI 100
 13 Tr 2124 WPTT-22 PA 480 2333 WHNT-19 AL t Iron Mountain(WGN)
 WPCB-40 PA " 15 Tr 2007 WPEX-33 WV 498 1824 W61-- MI 100
 WPGH-53 PA " WPTT-22 PA 480 Iron Mountain(WYAH)
 2242 WKPC-15 KY 437 2145 KDNL-30 MO 432 W70AO, Fond du lac
 WDRB-41 KY " 16 Tr 0715 KDNL-30 MO " booming in but no
 WTVQ-36 KY 473 19 Tr 1935 KDNL-30 MO " sign of W75AJ; mabey
 2244 WCET-48 OH 400 24 Tr 0802 WTVQ-36 KY 473 off??
 WAFF-48 AL 685 WKLE-46 KY " November 1981
 WAAY-31 AL " 27 Tr 2120 WKON-52 KY 437 2 Tr 0615 CFMT-47
 WCET-48 OH 400 2 Tr 0615 CICA-19 ON 410
 WXIX-19 OH " Uxbridge-22 413

The opening of Oct. 30 was completely unexpected. None of the other "usual" stations I get each day were above normal. I saw 3/4 color bars on ch. 33 and thought it was some new Canadian station or something until they put their I.D. slide up there. I almost didn't believe it until I turned to ch. 22 and found WEFZ also in. The only other stations coming in from that direction were the usual Michigan stations and a trace of CKGN-29. There was nothing seen from New York or Pennsylvania.

I also noticed two new translators on in Iron Mt., MI. The one on ch.59 is as good as 72,75 & 77 and stronger than ch.69. The one on ch.61 is considerably weaker than ch.59 and even a little weaker than ch.69. The same evening W70AO (Fond du lac) was in very strong but I didn't see any sign of W75AJ from the same place. Mabey WBAY took them off; I don't know.

Ordinarily I would end it here but some good tropo activity occurred the morning of the 3rd (Nov.). Here are a few highlights. I turned the set on at 0615 and found CHLFT-16 booming in here. Others were in from Pittsburgh, Youngstown, Columbus (ch.34 snow free); saw WSPJ-52 for the first time this was followed by WLYJ-46 (also new) but not very strong and for the heck of it I decided to look beyond them (not expecting much) and found WVPT-51 which was very weak. This was my first station on ch.51 and the last channel I hadn't seen any station on (except ch.37 of course). Others in were WPEX-33, WOUU-44, WHIZ-18, WNEO-45, W47AB & others. Log total now at 796.

Another reminder, don't forget the new deadline (the 1st of each month). The reason for this is so you'll get your WUD sooner each month. Merry Christmas.

QSL CORNER

TV-QSLs

Thomas J. Yingling, jr.
221 Pinewood Road
Baltimore, MD 21222

HF UTILITY DX

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

- DC KA2XEH 56 Washington, % Los Cerezos Television Co, 904 Pennsylvania Ave. NW, 20003. Letter from Maria Stella Dabancens, Stn. Mgr. Reply in 7 days. Remarks 1kw (antenna at American Univ. only about 3 miles away, but poor picture & good audio) Transmits programs of the National Spanish TV Network (SIN), that is broadcast via satellite from its operational center in San Antonio, TX KWEX. Holbrook
- FL WPBT 2 Miami, P. O. Box 610001, zip 33161. Letter from Graham R. Simmons, Chief Engineer in 1 week. Reese
- WTVJ 4 Miami, 316 N. Miami Ave. zip 33128. Letter from Kenneth S. Littrell, Studio Mgr. also send coverage-map & logbook page in 2 weeks. Reese
- WCIX 6 Miami, 1111 Brickwell Ave. zip 33131. QSL card from Jack H. Lowarti, CE in 1 1/2 weeks. Reese
- WESH 2 Daytona Beach, P. O. Box 1551, zip 32015. Card from CE with an unreadable signature in 6 days. Durkin
- NY WXXI 21 Rochester, 280 State St, Box 21, zip 14601. Letter from Kathy Rizzo, Sec. to J. Bell, Mgr. B. C. Oper. Send confirmation letter with no details, also send Sept. 81 Program Guide. Ross
- WENY 36 Elmira, Box 208, zip 14902. Letter with full data from Carl C. Egolf, Dir. of Eng. reply in 2 months. Ross
- PA WVIA 44 Scranton, % Public Broadcast Centre, Pittston, PA 18640. Full data letter, antenna & power info from George Seymour, Dir. of Eng. reply 2 1/2 months. Ross
- WKBS 48 Philadelphia, 3201 S. 28 St. zip 19145. Full data letter; said I was only 2nd report from Canada in the past 16 years! Signer was Glenn Romsos, Eng. Mgr. Reply in 2 months. Ross
- KDKA 2 Pittsburgh, 1 Gateway Centre, zip 15222. Full data letter from John J. Cvetic, Eng. Mgr. Reply in 3 weeks. Ross
- WPTT 22 Pittsburgh, 500 Seco Rd, Box 2809, zip 15230. Full data letter from Mike Borkey, CE, reply in 2 months. Ross
- TX KSAT 12 San Antonio, P. O. Box 2478, zip 79298. Letter from Cheryl Porter, Advertising Promotion Secretary in 8 days. George
- KTVV 36 Austin, P. O. Box 490, zip 78767. Letter from Bill Hutchinson, CE, also send coverage-map & a button "Our Pride is Showing." George
- VA WYAH 27 Portsmouth, P. O. Box 1338, Spratley St. zip 23705. Letter from Ken Reichenback, CE. Also send program schedule that I requested. Got a reply back in 22 days. Fahber
- WTVZ 33 Norfolk, 418 Boush St. zip 23510. Memo from James W. Slate, Asst. CE. Send business card & program schedule in 3 weeks. Schweitzer
- WNVT 53 Annandale, 8325 Little River Turnpike, zip 22003. After 2 months, got letter from William F. Fenn, CE. Schweitzer
- VT WTA 41 Windsor, % Ethan Allen St, Winooski, zip 05404. Letter, & return my report from W. K. Edwards, Asst. Mgr. He says "For you information we had reports during the same period from a DX'er in Rhode Island & other locations. So it looks like there must have been some very unusual conditions on that day." This was my last New England state to get verified, & hardest to get. Yingling
- WI WSAW 7 Wausau, 1114 Grand Ave. zip 54401. New call letters for WSAU. Got card from Don Corhart, VP of Oper. with reply in 11 days. Durkin
- WA KREM 2 Spokane, South 4103 Regal St. zip 99203. Send letter & my cassette tape back, with a confirm message on it. No name or person taking, but used my first name. *(a taped recorded message of verification of reception, ed.) Gains

Reporters this all TV-QSL Month are: Hank Holbrook, Richard Reese; a new reporter-thanks, Robert Ross, Bill Fahber, Robert Schweitzer, Patrick Durkin, Charles George, Paul Gains, & Tom Yingling, ed. I hope the new postage increase don't make you stop send for those verification we all like to get, and then report to this column.

73's for now, Tom Yingling.

This will be a continuation of the mobile telephone service initiated in last month's feature. Because of the large number of cities involved, this month will be limited to a few states.

Alturas	YR	Riverside	YL YP
Bakersfield	YJ JS JK JR ZM	Sacramento	JL YJ JS JR ZM
Barstow	YP		ZY QB
Big Bear Lake	JS	Salinas	ZM
Blythe	JP YS JR	San Bernardino	YL
Boron	YL	San Diego	YL YP YJ JS JR
Burney	JS		ZM ZY QB
Chico	YJ JK	San Fernando	QC
Chualar	JL YJ	San Francisco	JL YL YJ QB
Clearlake Oaks	JL	Sanger	JP
Coalinga	YP	San Jose	JP JS YS QK
Colfax	JR	San Luis Obispo	YL
Colusa	YP YS	Santa Ana	YL YP QE QK
Courtland	Ross	Santa Barbara	YL
Covina	QR	Santa Maria	YK QR
Dos Palos	JK	Santa Rosa	JS YS JK
El Centro	JL YJ ZM	Stockton	JP YS QB QF
Elk Grove	QY	Susanville	YS
Eureka	YJ JR	Taft	YR
Exeter	YK QK	Tahoe City	JL
Fall River Mills	JL	Tulare	YS
Fort Bragg	JS	Ukiah	YJ
Fresno	JS JR ZM	Vallejo	YP QA
Garberville	YS	Ventura	JL YJ ZM
Gilroy	YL	Victoville	JP YJ
Hemet	YS	Vista	YL JK
Indio	JP	Weaverville	YK
Kerman	YS	West Los angeles	QD
Lancaster	YK	Willow Creek	YP
Lebec	ZM	Yreka	JS
Lompoc	JK	Yucca Valley	YJ
Long Beach	QF		
Long Branch	YK YR	COLORADO	
Los Angeles	JL JP YJ YK YS	Alamosa	YJ JS
Los Angeles	JK JR ZM ZY QJ	Boulder	JP
Los Angeles	QA QP QB QO QY	Byers	YP JR
Los Gatos	JK QA QR	Colorado Springs	YL YJ
Lucerne Valley	YL	Cortez	YJ
Manteca	YL	Denver	JL YL YP YJ JS
Marysville	JP YK YR		YR JK JR QC QJ
Merced	YP YJ		QD QA QE QP QK
Modesto	JL YS ZM		QB QO QR QY QF
Morgan Hill	YP		
Novato	JP	Eagle	JS
Oakland	YK YR JR ZY QJ	Fort Morgan	JP YJ
	QE	Grand Junction	YS YR
Oxnard	YP QK	Greeley	YK YS
Palmdale	JL	Holyoke	JP YP
Palm Springs	JS	La Junta	JS
Pamona	QO	Pueblo	YR
Patterson-Westly	YR	Rangleley	YR
Redding	JP	Sterling	JS YR
Redlands	QY		
Reedley	YJ		
Ridgecrest	YJ		

DELAWARE
 Dover JS YR
 Georgetown YP JK
 Wilmington JP YP JK ZL

DISTRICT OF COLUMBIA
 ZL JL YP YJ JS YS YR JK JR
 QC QD QE QK QB QO QY QF

FLORIDA
 Avon Park YS
 Belle Glade YR
 Cocoa YK
 Clearwater YL JP YS QO QR
 QY QF
 Daytona Beach YL JP
 Fort Lauderdale YL JS JR QE QK
 QF
 Fort Myers JP YP YJ JS
 Fort Pierce YL YJ JR
 Fort Walton Beach YJ YK
 Gainesville YL JS
 Homestead JR
 Jacksonville JL JP YP YK JR
 Lake City JK
 Leesburg YK JS
 Live Oak YS
 Marianna JR
 Melbourne JS
 Miami JL JP YP YJ YS
 YR JK QC QJ QD
 QA QP QB QO
 Naples YK YS
 Newport Richey YR JK
 Ocala YJ JK
 Orlando JL YJ YS YR JK
 Palatka JR
 Panama City YK
 Pensacola JP JS
 Perry JP
 Port St. Joe JR
 Quincy JL
 Sarasota YK YR JK JR QP
 QR QF QY
 Tallahassee YP YJ YK
 Tampa JL YJ JS QC QJ
 QD QA QE QP QK
 QB
 West Palm Beach JL JP YK YS JK
 Windemere YP
 Winter Haven YL JP YK JR

GEORGIA
 Albany YL
 Atlanta JL YL YP YK YR
 JR
 Augusta JL
 Blue Ridge YL
 Chickamauga YL
 Columbus YJ
 Dalton JK QP QF
 Ellijay YS
 Fairmont JP

GEORGIA
 Folkston YL
 Glennville JP
 Gray JK
 Hawkinsville JL
 Hinesville YR JK
 Lafayette JS
 Macon YJ
 Newington YP
 Omega YJ
 Plains YP
 Reynolds JS
 Ringgold YK
 Savannah YJ
 Statesboro JS
 Thomaston JK
 Twin City YK YS
 Washington JP
 West Point JL YS

HAWAII
 Hilo YP YK
 Lihue YK
 Oahu JL YJ YR YK JR
 Wailuku JP

IDAHO
 Boise JL JP YS JR
 Coeur d' Alene JS YR
 Filer YL YS
 Idaho Falls YL YR
 Lewiston JS
 McCall YS JK
 Pocatello YJ YS
 Rupert JL YP JP JK
 QC QD
 Twin Falls YJ YS JR

ILLINOIS
 Aurora YK
 Bloomington JL YS JR
 Brownstown YS
 Cairo YR
 Canton JP
 Carbondale JL
 Carthage YJ
 Casey YP YR
 Centralia YR
 Champaign YP YR
 Chicago JL JP YJ JS YS
 YR JK JR QB QR
 QY QC QJ QD QA
 QE QP QK QO QF

Colchester YP JS
 Danville JL
 Decatur JP YJ
 De Kalb JK
 Dixon YR
 Effingham YJ
 Elgin YP
 Freeport JP YK
 Galesburg JL YR
 Golden YS

ILLINOIS
 Harrisburg JR
 Jacksonville JR
 Joliet YL YP
 Kankakee YR
 Lincoln YK
 Litchfield YL
 Louisville JP
 Mattoon JS
 McLeansboro YJ
 Olney JK
 Ottawa-Utica JL JP
 Owaneco JL
 Pekin JK
 Peoria YL YP YJ JS
 Pontiac YP
 Princeton YK
 Quincy YR
 Rockford YL YJ JS YS
 Rock Island YL YJ JS YS JR
 Rossville JP
 Savannah JR
 Springfield YP YR
 Sterling YP
 Streator JK
 Waterloo YS
 Watseka YJ
 Wakegan YL

INDIANA
 Anderson JP
 Atlanta QE
 Batesville YP
 Bloomingdale YS
 Camden YS JR
 Claydon YP
 Cloverdale JP
 Columbus JP
 Corydon JS
 Decatur JS
 De Motte YP
 Elkhart YR
 Evansville YR JS
 Fort Wayne YL JP YJ JR
 Gary YK
 Greensburg JK
 Indianapolis JL YL YJ JS
 YR JR QC QJ
 QD QE QP QO
 QR
 YP
 Jasper YP
 Kokomo JK
 Lafayette YR
 Linden QA
 Madison YK
 Marion YR
 Markleville YP
 Maxwell QA
 McCordsville YS
 Monon JS
 Monroe QY
 Muncie YJ
 New Harmony YR
 Oaktown YS
 Petersburg JL

INDIANA
 Portage YL
 Richmond JR
 Rochester JL
 Rockport YR
 Salem YS
 Seymour YL
 South Bend YJ JS YS JK
 Star City JP
 Terre Haute JL
 Thornton YK
 Vincennes YJ

Mobile Radio-Telephone Frequencies

35.26	ZO
35.30	ZF
35.34	ZH
35.38	ZM
34.42	ZA
35.46	ZY
35.50	ZR
35.54	ZB
35.62	ZW
35.66	ZL

LOW BAND

152.51	JL
152.54	YL
152.57	JP
152.60	YP
152.63	YJ
152.66	YK
152.69	JS
152.72	YS
152.75	YR
152.78	JK
152.81	JR

HIGH BAND

454.375	QC
454.400	QJ
454.425	QD
454.450	QA
454.475	QE
454.500	QP
454.525	QK
454.550	QB
454.575	QO
454.600	QR
454.625	QY
454.650	QF

UHF BAND

Robert Goodman of Bronx, New York passes along this piece of information:

The Tunnel and Bridge Authority of the Triboro Bridge (Manhattan Leg) use the frequencies 156.65 & 156.80 to communicate with vessels.

Gary Mullis former WTFDA member states:

"I have monitored the FCC Field Operations on the following frequencies"

167.50 172.80 172.05 167.75

EARS, LOOPS, AND DX

by ROBERT GRANT

These antennas can be used for DX. Somebody told you it can't be done? In two years time I logged over 200 stations from RF-jammed Detroit on store-bought indoor antennas.

If your built-in TV antenna is just a single rod ("monopole") it is the best idea to replace it with a pair of rabbit ears. This will give you at least 3 dB more gain and better rejection of unwanted signals.

The things to look for in an indoor DX antenna are various. For VHF rabbit ears you should look for the following:

RODS: Should be as long as possible. "Coil cases" seen on some rabbit ears are cosmetic and have no coils in them.

SPACING: The rods should be as far apart as possible.

ROD MOUNTINGS: Both rods should be independently adjustable and set in any position including horizontal.

For UHF use a loop that attaches directly to the terminals and is adjustable in any position.

TV E-skip: Can be done with rabbit ears but not as well as on an outdoor antenna. Forget about highband, ZEs and low power stations. The difference between outdoor antenna and rabbit ears Es DX is that with the outdoor antenna the signal is steady and pops out for a few seconds and with the rabbit ears the signal only pops in for a few seconds every minute.

VHF Tropo: On lowband out to about 250 miles; on highband out to about 500 miles on a super opening.

METEOR SCATTER: Very poor and on channel 2 only. You will see about 5 bursts in an entire night; most too short for ID. Still- I had 4 stations by MS in 2 years.

UHF TV: Good out to about 500 miles on a super opening.

FM: Very good if you live in an uncrowded area. Very steady Es signals especially on the EFM (88-92) band. For tropo about 400 miles out on a good opening.

INTERNATIONAL NOTES from

Ken Simon
513 6th Avenue South
Lake Worth FL 33460

HAITIAN FMs (from RICHARD CLARK)

freq.	call	station name	location	format, notes
88.1	4VI	R. Lumiere	Gonaives	
88.5	4VI	R. Lumiere	Port au Prince	FF religious
92.1	4VI	R. Lumiere - \$	Port au Prince	EE EL
94.7	4VEF	4VEH	Cap Haitien	FF religious
96.2	4VKB	R. Cap Haitien	Cap Haitien	//1590 kHz
97.9	4VI	R. Lumiere	Port au Prince	//88.5 MHz
99.1	4VAM	R. Metropol	Port au Prince	//1280 kHz
100.1	4VAM	R. Metropol - \$	Port au Prince	Jazz, EL 24 hrs \$
100.1?	4VEH	as 94.7		
102.0	4VRD	R. Nacional - \$	Port au Prince	EL \$
103.0	4VKB	R. Cap Haitien - \$	Cap Haitien	as 96.2 MHz \$
104.7	4VEC	4VEH	Cap Haitien	//1035 kHz EE
105.1	4VRD	R. Nacional	Port au Prince	//1080 kHz
107.1	4VEF	4VEH	Cap Haitien	as 94.7 MHz
107.9	4VI	R. Lumiere	Les Cayes	

HAITIAN STLs (from Richard Clark) all Port au Prince

225.7	4VI	R. Lumiere - \$	457.0	4VRD	R. Nacional
463.0	4VRD	R. Nacional - \$	467.0	4VAM	R. Metropol

DOMINICAN REPUBLIC update (from Richard Clark)

104.7	HIVS	La B	San Pedro	merenge
92.1	HIAS	La Super	Santo Domingo	EE top 40 \$
104.5	HIND	104.5/La Nueva/ The Music Port	Santo Domingo	U.S. disco \$
94.5	HIMI	Audio noventa cuatro (ex-94.7)	Santo Domingo	U.S. disco \$
107.1	HIFA	La Voz de las Fuerzas Armadas	Santo Domingo	OFF
88.6	HI--	La Brava (formerly Mirador)		

CURACAO, NA Note: most stations are multilingual with EE/SS/Dutch/Papiementu ads and announcements. Slogans are rarely given. Frequency was determined with an RF-2600...

93.9	PJC-	R. Korsow	Curacao
95.5	PJC-	???	Curacao
99.5	PJC-	R.99, a service of R. Caribe	Curacao
105.3	PJC-	???	"

ARUBA, NA same as Curacao

89.9	PJA-	Canal 90-FM	Aruba
93.1	PJA-	???	"
97.9	PJA-	R. Carina-FM	"
102.7	PJA-	R. Caruso Booy-FM	"
107.7	PJA-	???	"

ARUBA & CURACAO TV (a - seen/heard in Curacao; b - Aruba)

ch 2	R. Caracas TV????	b
4	Venevision	b
6	unID Venezuelan	a
7	"Canal 8"	a,b
8	TeleCuracao (I'm told it is sometimes seen in Aruba 45 miles to the west)	a
10	R. Caracas TV	a,b
12	Venevision	a,b
13	TeleAruba	b

NO UHF's or Colombians seen, no Venezuelan FMs spotted...

Abbreviations in this column: EE - English speaking; EL - easy listening; FF - French speaking; R. - Radio; \$ - stereo

73*

Ken

KEN SIMON

C.C.I. [UNIDENTIFIED DX]

Robert Grant
5775 Bishop
Detroit, MI 48224

FM STATISTICS

Fred Nordquist
7945 Boxford Road
Clay, NY 13041
FM Scoreboard
Deadline Dec 5th

The following statistical tabulations give a measure of how well FM DXers are competing against each other in logging the highest and second highest number of FM radio stations for each state (near and far) from a specific DXer's location. Competition is open to all active (and honest) club members. So send in your record breakers. Thanks to those who responded to my special request for statistics for Mexico and other Foreign Stats. I'm still looking for additional responses....you know who you all are..... Now to the Stats:

GUIDELINES FOR REPORTING: Report only unID DX that: (1) is unusual in any way, (2) has some trait that can separate it from other stations on that channel or (3) has some local ads and personalities that WTFDAers might find familiar. When you report that you have seen NEC on channel 4 it could be any of 3 owned stations, 24 primary affiliates or 2 secondary affiliates. Reporting just network and channel is basically useless.

- REPORT:** (1) Date, Time and local time zone.
(2) Mode of propagation (followed by "7" if not sure)
(3) TV channel or FM frequency.
(4) What you observed.
(5) Direction in which signal is strongest (or other stations in the same opening)
(6) Offset or beat Freq. (don't confuse the two-. Offsets are -, ϕ or +.

And beats are ϕ , 10k and 20k to a station in particular on the same channel- i.e. a station with a 10k beat to WJFK has a ϕ offset.) 10k and 20k beats are hard to discern, but the 10k beat is much more common than the 20k and the 10k produces a louder whine than the 20k. A ϕ beat can produce a "throbbing signal" effect or thick bars and a low hum.

Line drawings must be black ink on white bond and measure 2 1/2 X 3 1/2.

TV unIDs: Robert Grant, 5775 Bishop, Detroit, MI 48224, editor.

1981:
Thu 19 Mar Ms ch 2 0528 EST-- end "Carol Burnett"
Wed 25 Mar Ms ch 2 0550 EST-- "Christopher Closeup"
Fri 22 May Es ch 2 1753 EDT-- "Hour Magazine" + offset (PTA: SE)
" " " " ch 2 1924 EDT-- "Family Feud" + offset (PTA: SE)
Mon 8 Jun Es ch 4 0330 EDT-- start movie, set in China in 690 A.D. (PTA: West)
" " " " ch 3 2109 EDT-- "SPECIAL" cartoon with bad sync rate. (PTA: WNW)
" " " " ch 3 2131 EDT-- "One Day at a Time" (PTA: WNW)
" " " " ch 5 2131 EDT-- "One Day at a Time" // to ch 3. (PTA: WNW)
Sat 4 Jul Es ch 6 1945 EDT-- "Star Trek" (PTA: South)
Wed 8 Jul Es ch 2 1020 EDT-- "Bullseye" (Not the TP but the game show, PTA: SSE)
" " " " ch 6 2150 EDT-- movie with sword fight (PTA: TX)
Thu 9 Jul Es ch 3 0025 EDT-- "Sanford" or "S.&Gon" (PTA: S)
From Honor, MI.
Sun 26 Jul Es ch 4 1725 EDT-- "Lawrence Welk Show" (PTA: E or ESE)
Thu 30 Jul Tr ch 5 0915 EDT-- 3/4 CBP. ϕ offset.
From Detroit.
Thu 6 Aug Es ch 2 1715 EDT-- "Sherlock Holmes" (PTA for 8/6 is SSE)
" " " " ch 3 1723 EDT-- "Six Million Dollar Man"
" " " " ch 6 1909 EDT-- "Barney Miller"

William J. Draeb, Ellis St. R.R. #2, Kewaunee, WI 54216.
1981: NO DATE Tr ch 36 NO TIME-- Round TP similar to that of WCB5-2 (PTA: SE)

TV IDs: Bill Fahber
1980:
Mon 7 Jul Es ch 2 1957 EDT-- "Eusebe Subaru" ad. (KTEW (Now KJRH)-RG)
Thu 17 Jul Es ch 2 2040 EDT-- "Buffalo Bill and the Indians" movie (Maybe KWGN?-RG)
Fri 25 Jul Es ch 2 2200 EDT-- "Dick Cavett Show" + offset (Probably KUSD -RG)
Christopher Hanley
Sat 27 Jul Es ch 2 0730 EDT-- Logo- "2 Country Kidsworld" (WMI used the "2 Country" slogan back then. -RG)

I have just saved this column from the wrecking ball and I need YOUR DX mysteries (or your answers to the ones above) for the next column. No column, or for that matter the WTFDA itself, can work without member interest. I would also like your lcl TV Guide: (or any imitation). Though I will not require it.
73 & gud DX, see you in 1982.

STATES STATS

STATE	#-DXer	#-DXer	STATE	#-DXer	#-DXer	STATE	#-DXer	#-DXer	STATE	#-DXer	#-DXer
AL	48-tm	44-ab	IN	137-rs	128-ab	NE	26-jj	24-ab	SC	31-je	26-db
AK	8-jj*		IA	89-je	65-ab	NV	12-fm	12-db	SD	24-fm	19-jj
AZ	29-fm	21-je/db	KI	59-db	41-fn	NH	18-rjs	17-jb	TN	64-tm	63-ab
AR	61-ve	39-db	KS	79-ab	61-rs	NJ	54-jf	52-res	TX	211-rls	148-ab
CA	214-jj	96-fm	LA	53-rls	42-je	NM	40-ab	30-jj	UT	18-ab	17-rls/db
CO	49-ab	34-jj	ME	29-ab	25-rjs	NY	150-fn	132-js	VT	9-rjs	8-mb
CT	38-mb	32-jf	MD	35-jf	33-do	NC	58-je	53-db	VA	39-je	35-db
DE	11-sw	10-do	MA	76-rjs	63-jb	ND	19-fm	13-ab	WA	20-fm*	19-jj
FL	107-ab	102-db	MI	101-rs	93-rw	OH	165-rs	124-deb	WV	25-rs	24-ab
GA	48-db	45-je	MN	110-je	80-fm*	OK	71-db	39-fn	WI	111-je	90-ab
HA	None		MS	60-tm	34-fn	OR	18-fm	14-jj	WY	14-ab	9-jj
ID	19-db	13-rls	MO	85-ab	72-db	PA	91-fn	90-js			
IL	170-ab	143-rw	MT	15-ab	14-je	RI	9-rjs	7-mb/jj	DC	13-sw	13-js

CANADA STATS

PROV	#-DXer	#-DXer
AT	15-jj	13-db
BC	9-jj	5-fm
MB	14-fm	13-ms
NB	4-cb	1-tm/ab
NF	9-fn	3-jf
NS	9-ob	8-ab
ON	51-fn	38-wh

CANADA STATS

PROV	#-DXer	#-DXer
PEI	1-jf	1-ob
PQ	18-fn	13-rw
SA	6-fm	4-ab/pd

MEXICO STATS

STATE	#-DXer	#-DXer
COA	6-jp	2-je
DF	7-ve	2-ks
JAL	9-ve	1-ab
MOR	1-ve	
NL	11-ab	4-je
PUE	2-ve	
SOW	1-fm	

MEXICO STATS

STATE	#-DXer	#-DXer
TAM	5-ab	2-je
YUC	1-ab	

OTHER FOREIGN STATS

CTRY	#-DXer	#-DXer
Cuba	1-ab	1-fn/ks
Bermuda	2-fn	2-ab
Guatemala		1-ks

Key to STATS recordholders' initials

Init.	DXer	DXer Location	Init.	DXer	DXer Location
tb	John Bolduc	NH Nashua	tm	Tim McVey	TX Bolivar
ab	Andy Bolin	IL Charleston	fn	Fred Nordquist	NY Clay (Syracuse)
cb	Cranston Bonnell	NB Fredericton	do	Daniel Oetting	CA Broomall
deb	Dave Brumfield	IN Muncie	jp	Jim Pizzi	CA Orcutt
db	Danny Buntin	OK Stillwater	js	Joseph Smith	NY Johnson City
mb	Mike Bugaj	CT Enfield	ps	Peter Sawatsky	ON Guelph
pd	Patrick Durkin	WI West Allis	res	Robert E. Schweitzer	NJ E. Brunswick
ve	Vernon Eaton	AR Benton	rls	Rick L. Sanford	TX Burnet
je	John Ebeling	MN Elomington	ks	Ken Simon	FL Lake Worth
ef	Eric Fader	NY Bayside	ms	Morris Sorensen	MB Amaranth
jf	Joseph Fala	NJ S. Plainfield	rs	Ralph Strobel	IN Muncie
wh	William Hepburn	ON Niagara Falls	sw	Steve West	PA Havertown
jj	John Jefferson	CA Pleasanton	rew	Richard E. Wood	MO Cape Girardeau
fm	Fred McCormack	*AK Anchorage	rw	Roger Winsor	IN Hobart
		ND Des Lacs			
		*ND Fargo			

FM Scoreboard/Distance Records next time - 73



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

1982 STATE OF THE CLUB REPORT

LATEST WTFDA MEMBERSHIP LIST

PHOTOGRAPHING TV DX WITH A HOME MOVIE CAMERA

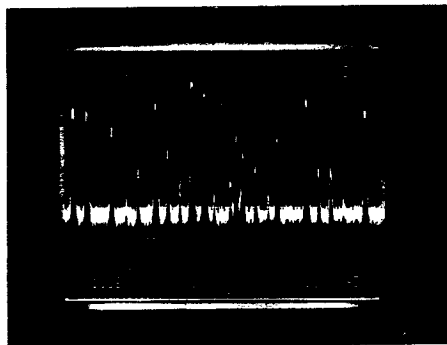
TIPS ON BUYING A TUNER FOR FM DXING

A LOOK AT THE FM BAND

Greg Monti

Here's something DXers don't see too often and I thought it would be worthwhile to print it in the VUD. This is an instantaneous FM band scan taken at 1700 EDT on Thursday 9/10/81 in downtown Washington, DC. It was taken with a Tektronix 492 spectrum analyzer equipped with digital waveform storage.

The display is logarithmic vertically in dBm (decibels above one milliwatt) and is linear horizontally in MHz. The top graticule line is set at -40 dBm; The center frequency is 98 MHz and the frequency span is 2 MHz per horizontal division. Therefore, the on-screen display is exactly from 88 to 108 MHz from edge to edge. The resolution bandwidth is 100 kHz; in other words, this is what the FM band would look like to a receiver whose IF bandwidth is 100 kHz. Most FM receivers have IF bandwidths that are quite a bit larger than this, usually around 300 kHz, so, to a receiver, the stations would appear much "wider" and would run together more. The other three figures across the bottom of the display show the vertical units (10 dB per division), the amount of RF attenuation inserted before the first mixer stage in the analyzer (none) and the frequency



range to which the analyzer has been switched (zero to 1.8 GHz).

The local atmospheric noise floor is visible at about -90 dBm (remember these are negative numbers starting at -40 at the top of the screen and going down from there). The carrier spikes from left to right are: WAMU 88.5 (at -58 dBm), WPFW 89.3 (at -58 also), WETA 90.9 (-63), WGTS 91.9 (buried in the noise at -87), what I assume is WQUS 92.5 at -78 which seems too strong for them, WKYS 93.9 (-56), WJMD 94.7 (-71), WPGC 95.5 (-80), WHUR 96.3 (the strongest, at -49), WASH 97.1 (-52), WIYY 97.9 (-85), WMZQ 98.7 (-81), the local oscillator of a nearby receiver which was tuned to 88.5 MHz at the time, at 99.2 (-68), WGAY 99.5 (-72), WOOK 100.3 (-77), WDDC 101.1 (buried at -84), another receiver's local oscillator at 101.6 (-68), WGMS 103.5 (-55), WXTR 104.1 (-77), WAVA 105.1 (-77), WVXK 105.9 (-86) and WRQX 107.3 (-58).

As you can guess a pretty poor antenna was used for this. It was an old, somewhat corroded nondirectional job mounted on the roof of a 9-story office building with about 200 feet of ordinary 75-ohm coax running down to the first floor where a distribution amplifier brought up the noise along with the carriers. Conspicuous by their absence are WHFS 102.3 and WZXR 106.7, not to mention most of the Baltimore and Annapolis stations which are audible on a car radio in the street right outside. The wide variations in signal strength seem to depend as much on direction as they do on distance, perhaps due to poor antenna placement.

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STATION BREAK

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

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

WANTED - Bumper stickers from FM stations and TV GUIDE editions from anywhere in the U.S. and Canada, especially from the Midwest, Southeast, and Southwest. George Rogers, 320 Lafayette Road, Chickamauga, GA 30707.

WANTED - A copy of the book How To Build Antennas For All Channels and correspondence with anyone who has built or has plans for VHF-UHF-FM-PSB antennas. Thomas Mishler, 2438 Kentucky Avenue, Flint, MI 48506.

FOR SALE - GADCO Interdigital Pre-Amp for sale. Unit test spec sheet shows 16.5 dB gain. Coax I/O. In plastic case, less 4 knobs. Reference RADIO-ELECTRONICS June, 1971. \$20.00 postpaid. John Ebeling, 9209 Vincent Avenue South, Bloomington, MN 55431 (612) 888-0816.

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.

SPECIAL OFFER

The 1982 World Radio TV Handbook will be published in January or February 1982 and retail in the USA for \$16.50. Effective December 15, 1981, WRTH '82 can be ordered from Donald Erickson's Century Print Shop for \$15 plus shipping and handling. Shipping/handling by United Parcel Service (where available) or Book Rate is \$2 USA, \$3 Canada, and \$5 elsewhere. Shipping/handling by First Class Mail/Air Mail/Air Printed Matter is \$4 USA, \$5 Canada, and \$15 elsewhere. Payments, by personal check or money order in the USA and International Money Order elsewhere, should be payable to DONALD ERICKSON. California residents, please add 6% sales tax (90 cents). Orders should include a self-addressed, stamped envelope (Canadians may insert mint stamp inside. Donald Erickson, 6059 Essex St., Riverside, CA 92501-1599. Phone inquiries welcomed at 714-637-5910 prior to midnight Pacific Standard Time.

ONDAS FM & E F M

WTFDA still has a few copies of these FM DX references available! ONDAS FM is our unique guide to FM broadcast stations in Central and South America, and features maps. EFM lists U.S. educational FM stations, and their mailing addresses. No FM DXer should pass up this deal! Both available for \$4. Separately, EFM is \$2, and ONDAS FM is \$3.

WTFDA HQ - Box 97 - Calumet City, Illinois 60409 - U.S.A.

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