

VHF-UHF DIGEST

the official publication of the Worldwide TV-FM DX Association

MARCH 1977

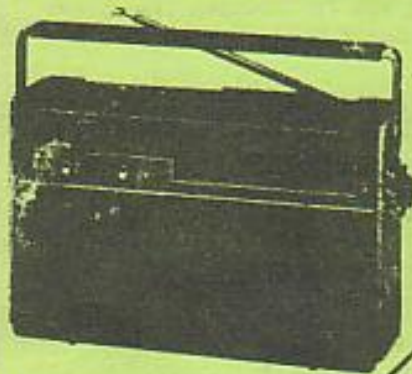
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**Be
A
DX**

DETECTIVE

CHOOSING YOUR VHF RECEIVER

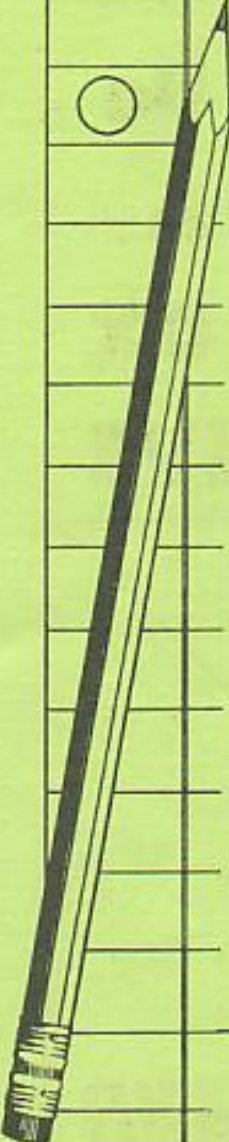


**IT'S
PORTLAND
IN '77...**



From The Staff:

WTFDA Headquarters, P.O. Box 202, Whiting, Indiana 46394



CONVENTION VOTING...This year's balloting went right down to the wire. In fact, we had to extend the original deadline, delaying this issue a few days, because of a 20-20 deadlock on February 20! We're pleased to announce, though, that by a vote of 27-24, Portland, Oregon has been selected as the site for WTFDA's 1977 gathering, which will be the first Western convention in club history. Thanks to our members for their 51 votes, the largest turnout ever, and congratulations to hosts Frank Aden, Bill Block, and Pat Martin, who conducted an intensive campaign to "get out the vote." We expect to have major details and convention dates confirmed for the April VUD.

MORE COLUMN CHANGES...In order to render better service to WTFDAers, a more practical column arrangement will be instituted with the May VUD. WESTERN FM DX and the CENTRAL and SOUTHERN TV DX columns will be phased out, and the new DX column arrangement will shape up like this: EASTERN TV DX, headed by Bill Thompson, will cover all states east of the Mississippi and Canadian provinces Ontario and east; WESTERN TV DX, edited by Doug Everitt, will expand to include all states west of the Mississippi and all Canadian provinces west of Ontario; NORTHERN FM DX, handled by Fred Nordquist, will cover its present area plus the Northwest (states of WA, OR, ID, MT, WY, ND, SD, and NE plus all Canadian provinces), and SOUTHERN FM DX, headed by Dave Cox, will retain its present area and expand to include all other Western states and Mexico. Next month we will have a map outline of these new areas. In non-DX column changes, THIS IS YOUR DX will become a part of Robert Williams' MEMORABILIA and TV CCI AIDS and INTERNATIONAL NOTES will merge into Dave Pomeroy's PCC TV NEWS column. These changes all occur in May (deadline: April 10), so if there are any questions, please direct them to your editor!

NOTES OF NOTE...The planned series of propagation articles by Dennis Smith has been cancelled due to the similarity of the material to that in BEYOND SHORTWAVE. Interested members are asked to purchase the \$1 booklet from HQ...We need 17 more questionnaire cards to publish results of our member survey, and still hope that yours will be among them...We thank Mike Dornier Jr. for preparing several VUD featurettes (the first of which appears on page 7 this month) and Harry Hayes for preparing this new "FROM THE STAFF" page.

73. *Clarke* for Pete, John, and Mike

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FEEDBACK

A MONTHLY FORUM FOR DISCUSSION OF
CLUB-RELATED TOPICS

Address correspondence to:
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5201 Colewood Drive
Pittsburgh, Pennsylvania
15236 USA

The controversy continues to rage over Winegard's AC-4990 UHF preamplifier, discredited by Bob Cooper in a recent TEK-NOTES (October 1976 VUD), but praised by others as equal to—or better than—the much-heralded and widely-used Blonder-Tongue CMA-Ub. This month, we have these comments from member Ken Simon, which don't exactly solve this controversy, but which warrant printing:

About a week after I received the AC-4990 in the mail, Brock Whaley (ace jock on WFSO-AM), formerly of Miami, offered to come to West Palm Beach to help install the unit. It seems that any height over 15 feet scares the living c**p out of me! "Are you afraid of heights?" I asked him.

"How tall is the tower?" he replied.

"Only 40 feet," I said hopefully.

"OK, I'll be up next Saturday."

Brock got here and we started to put it up. He got up about 30 feet and decided he wasn't afraid of heights—it was falling that scared him—so, like a dummy, I climbed up to reassure him, and my legs got rubbery at 25 feet. Now both of us idiots are laughing like mad, to keep from really showing how scared we are, and my wife comes out and thinks it was the funniest thing she'd seen in years.

Brock and I came down just as a visitor came by to see my neighbor. "Are you afraid of heights?", I queried.

He said no, and I suggested that my neighbor wouldn't be around for another hour or so. He volunteered to help after I opened a few beers. He put it up and I never got his name to thank him.

My wife thinks I've got guts...

Well, it's up and working, and January 1 among others, I logged the following with local or semi-local picture quality: WJKS-17, WDHN-18, WCJB-20, WMFE-24, WEVU-26, WECA-27, WETV-30, WYEA-38, WJCI-22, WDIQ-43, WJSP-28 and WCWB-41 with lesser reception of WTGG-17 and WHAE-46. The killer was WLPB-27 through WECA, and WRBT-33 through local W33AA with quality as high as VAFI 5555 at times from 720 miles away!!

Other loggings include WJWJ-16, WEBA-14, WRJA-27, WRLK-35, WACS-25, WABW-14, WCES-20 and regular reception of WMFE-24 and WSWB-35 (that is, until they were put off the air by the RCA people!).

In a word, the AC-4990 is the cat's meow...boffo, great, a perfect 300 game...

Thanks, Ken, for your comments. Perhaps you ought to get together with Jim Gould on the tower situation—I believe he's one of many whose legs get rubbery after climbing those gargantuans, too! Jim, by the way, was the first WTFDAer to praise the AC-4990, and his comments appeared in print (see July VUD, page 16).

Veteran DXer and WTFDAer Al Ellis of Brantford, Ontario, Canada, writes to express his displeasure with the World Radio TV Handbook, recently offered at a special price to WTFDAers:

It is my hope that those who bought that reasonably priced World Radio TV Handbook find it a better buy than I did. To my way of thinking, there is no other publication printed as useless as that is for our use...not even worth the money spent on mailing it to and from.

"Caveat emptor" is even more so today than in the past. Every budding author has the very latest and "must have" book. Without it you cannot operate with any degree of intelligence...so "be dumb, and buy my book," is the attitude. Could not some member of the (Board of Directors) be our monitor on what book is good and what is rubbish? Every other year or so, up pops another "must have" book, highly touted by its author, who has something to sell. Having books printed can be a money-losing business; they have to sell them, even when they smell to high heaven. This I had to add in fairness to those who will take us, IF we allow it. Presumably, had I written this earlier, it would have been "sour grapes."

Al, as we have run out of space, your comments will be discussed next issue. Does anyone else in our reading audience share Al's views? If so, please let your editor know!

Clarke W. Ingram 3



MAILBOX

John Zondlo
6617 Maryland
Hammond, IN 46323
(219) 844-8694
Deadline: 15th

New Members:

Wayne Covington	1513 W. 29th St.	Loveland, CO 80537
Rudy Forsberg III	224 Lewis Place N.E.	Massillon, OH 44646
Bruce Golden	27 Spruce Hill Road	Georgetown, CT 06829
Neil Grandjean	RD 1	Cropseyville, NY 12052
James R. Hastings	Box 7258, Benjamin	Washington, DC 20044
	Franklin Station	
Thomas Holmes	4032 Rutherford Drive	Charlotte, NC 28210
Carl Junker	3425 Annabelle Drive	Kettering, OH 45429
Walter McKean	70-24 Queens Blvd.	Woodside, NY 11377
L. Donald Richard	2623 Camille Drive N.E.	Atlanta, GA 30319
Rick Samford	404 S. McNeill	Burnet, TX 78611
P. Somerset	644 S. Parish Place	Burbank, CA 91506
R.L. Stear	92 Pontiac Drive	Rochester, NY 14617

Renewals:

Fred Born, Rolf Blodorn, Ed Brindle, D.F. Browne, Danny Buntin, Bob Cooper, Daryl Herzog, Frank Hostetler, Carlon Howington, Phil Hruskocy, Russell James, Patrick Martin, Tim Miller, Don Nelson, Dave Pomeroy, Craig Shura, Paul Traska, Larry Vogt, Frank Wheeler, Morgan Williams.

Rejoins:

Dale Connolly-11468 $\frac{1}{2}$ Califa St.-North Hollywood, CA 91601

Address Changes:

Tim Miller-496 Snyder Hall URH-Champaign, IL 61820
Don Voegele-211 W. 1st Ave., Apt. F-Chico, CA 95926

Renewals Due in April:

Frank Aden, Robert Baker, Bill Block, Andy Bolin, Gregg Calkin, Chris Corso, John Czarnomski, Richard Eddie, David Egan, William Feidt, Joe Fela, Perry Ferrell, Roger Gravelle, Harry Hayes, Robert Heckenlively, Hank Holbrook, William Johnson, James Lamb, Ron LeBlanc, C. Mauger, Ambrose Maxim, Helen C. McIver, Bill Migley, Roderick O'Connor, Steve Rich, William Ronecker, Todd Schumann, Peter Skinner, James Sullivan, Bill Thompson, Lee Vulgamott.

A mention of WTFDA in High Fidelity magazine induced WAYNE COVINGTON to join the club. He's a computer programmer who's mainly interested in FM DXing. His gear includes a Kenwood KT-8007 tuner and a 22 element yagi.

Communications World lured RUDY FORSBERG III into the club. For FM DX Rudy uses an Allied 495 receiver with an Archer 10 element yagi. He's also into VHF radio DX, using a Bearcat 101 scanner and an Archer multiband antenna.

Your editor is glad to see an old friend, BRUCE GOLDSSEN, join the club. Bruce is an accomplished BCB DXer who also belongs to IRCA and NASWA.

21 year old RICK SAMFORD is primarily interested in FM DXing, citing a lack of interest in current TV programming. Rick's DX shack features a Kenwood KR-5400 receiver and an Archer 10 element "Stereo Supreme" antenna. He's leery of investing in extensive DX equipment, since Burnet has been plagued by major storms in recent years. Rick learned of WTFDA thru the FM Atlas.

ROBERT STEAR is a TV DXer who also does a bit of FM and BCB DX. His present TV antennas are rabbit ears for VHF and a bow tie for UHF.

Tidbits.....

Many DXers, including Kenneth Van Tassell of Fishkill, New York, are losing interest in the crowded shortwave and broadcast bands. He recently wrote to HQ for info on the club and expressed his dismay with other bands: "Last summer I had the thrill of hearing some real DX in the form of FM band skip from the midwest and from Florida. Being in New York, I was amazed at how these stations actually covered up the locals for hours at a time and were perfectly readable, many coming in stereo! For a long time even before this I have been interested in FM DX, and always was tuning my radio to see if there was just one more station I could hear.

(Van Tassell cont.) This is why I am writing this letter. I have had it with S.W. and A.M. and I would like to join a club that caters to the FM and TV crowd. I was an editor for the Newark News Radio Club, but I found that to be unrewarding and monotonous. I would appreciate a sample of your bulletin so that I could look it over and join your club. I have heard many good recommendations of it that I had to find out for myself." With summertime and poorer SW-BCB conditions approaching, it would be well worth it to tell your friends about TV-FM DXing.

Club member Don Voegelé (new address on page 3) is looking for a new job. He's interested in a position as an electronics technician involved with video/TV and digital electronics. Anyone with any leads on such a position should contact Don ASAP. He also writes, "I'm really enjoying the WTFDA bulletin, the technical articles and news items especially." Don is a former member of AIPA.

On April 7th, Radio Nederland's "DX Juke Box" will begin broadcasting an entirely new technical course. According to a recent RN press release: "Written by our Deputy Director of Engineering Services, Jim Vastenhou, the new "COMMUNICATIONS SYSTEMS COURSE" deals with the various ways in which man is making use of the radio frequency spectrum. Unlike some of our previous courses, this one is not so much a technical course but rather an investigation into the wide field of communications engineering. The course discusses the various communications systems such as radio, television, cable, satellite, as well as locations systems like radar, navigation and radio astronomy. It will also make you familiar with some common terms and expressions used in communications, so that you'll be a more all-round DXer and a more knowledgeable user of the Hertzian Waves. As was the case with our previous courses, the new Communications Systems Course is available - free of charge - upon application by individual listeners. It is not available through a DX club. The course will be mailed in sets of four lessons each, well before the commencement date, April 7th, 1977. Please address your application to: DX Juke Box, Radio Nederland, P.O. Box 222, Hilversum, Holland."

Bill Dulmage writes to tell us that he's the new chairman of CHAP, the Canadian Handicapped Aid Program. Anyone wishing information on CHAP can write to Bill at R.R. #3, Colborne, Ontario, Canada K0K 1S0.

Looks like that's about it for this month. Keep those cards and letters and new members coming in, gang.....see y'all in April.....jz

QSL CORNER

Thomas J. Yingling, jr.
221 Pinewood Road
Baltimore, MD 21222
Phone # 1-301-282-5649
Deadline: 10th

- CO KRLN 103.9 Canon City, P. O. Box 511, 81212, letter, "We are lower than average terrain, so it is really a miracle that you could receive our signal.. going to "Great American County" format." says Martin A. Nonhof, manager. Now is KSTX. (BFE)
- KLIR 100.3 Denver, 6535 W. Jewell Ave, 80226, letter "confirmed" by John H. Pelon, CE, who says KLIR also heard in Tallahassee, FL (Waldo Bishop?) & Vancouver, BC. (BFE)
- KFKZ 96.1 Greeley, 9th St. at 11th Ave, 80631, letter hand-written from David W. Sawyer, CE, - Apologized for delay in answering my letter "On 8-15-76, a small airplane struck our fm tower-we were off the air 2 days only. But your letter got lost in the shuffle. To my knowledge this would be the farrest report of reception to date." (BFE)
- FL WRYO 98.5 Crystal River, P. O. Box 292, 32629, letter from Fred C. Jacob, Mgr. says "A gentleman picked us up in his Ford Pinto car radio in Dearborn MI the same night. So far your reception has been the greatest. We are a Christian Station on 24 hours a day" (BFE)
- WYRL 102.3 Melbourne, P. O. Box 908, 32901, letter from Sandra Mattley, dir. "As far as I know, this is the greatest distance our signal as carried." (BFE)

Reporters are John D. Hathaway (JDH) of Champaign, IL, Bruce F. Elving (BFE) says he is recovering from a emergency appendix operation, & me (TJY). I got more reports, but I'm going to save them for next month. Next month I will have the TV & PSB QSL Reports. I guess this is all for this month. Get well Bruce, I know what you are going through. 73's

Torn



FM NEWS

Bruce F. Elving, Editor
18 1/2 East Fifth Street
Duluth MN 55805

New Stations Granted

CO Silverton K288BD 105.5 \$, k [KRSJ 100.5 Durango CO translator], l, 10 watts
GA Dublin 95.9 3000 h,v; 300' m
GA Springfield 103.9 3000 h,v; 300' kr
ID Sun Valley 93.5 51 h,v; 2145' 15, 48 mi
IL Chicago *88.7 10 watts: Loyola U., 6525 N. Sheridan Road; not to share time with Chicago's WCYC, also on *88.7.
IA Decorah *89.5 \$, c +TB (SCA) 10 watts, MN Public Radio (KLSE *91.7 Rushford MN rebroadcaster, but not a translator).
MI Farmington Hills *90.3 10
MI Newberry 93.5 3000 h,v; 300' 15, 46 mi.
MN Pine City 92.1 3000 h,v; 290'; k
NY Fredonia *88.9 10 w State U. of NY--near Dunkirk and Bob Seybold's!
NC Wilmington *91.3 10 U of NC-Wilmington
PA Huntingdon *91.7 10 Juniata College
TX Slaton 92.7 3000 h,v; 300' 15, 46; g
Selected Canada: PQ Duplinter 100.1 297 w; PQ Eastmain 105.1 59 w; PQ Lac Boyd 95.1 59; PQ Petite Opinaca 100.3 146 (all believed to be located in NW Quebec, near Radisson PQ, and rebroadcasting in French CBRF 100.1 Radisson PQ; as usual CRTC does not give polarization or height information).

On Air and DX Ready (Presumed)

IA Emmetsburg KEMB 98.3 3000 h,v; 300'
IA Fairfield KBCF 95.9 3000 h,v; 135', m
KY Liberty WKDD-FM 105.5 3000 h,v; 205'
ME Auburn WWAV 100.1 3000 h,v; 280', \$, m
ME Bath WMOS *91.5 10
NV Battle Mountain KLME *88.1 10
ND Mayville KMAV-FM 101.7 3000 h,v; 120' (it may have to go to 105.5, because of planned shift of 101.9 to Fargo ND; in fact, KMAV-FM may already be on 105.5 instead of 101.7!)
OH Ottawa WPNM 106.3 3000 h,v; 267', m (and Calls, too!)
TN Jefferson City WSBM 99.3 3000 h,v; 300'
TX Pleasonton KBOP-FM 98.3 3000 h,v; 300'
VT Lyndonville WWLR *91.7 10

On Air with Changes (Selected)

AL Birmingham WERC-FM 106.9 100000 h,v; 970'
FL Panama City WKGC-FM *90.7 9200; 270'
ME Bath WIGY 105.9 50000 h,v; 500', now pr, nonID as "Y-106."
OH Hamilton WYCH 103.5 13500 h,v; 235'

Facilities Changes

AL Birmingham WBHM *90.3 50000 h,v; 795'
CA Northridge KCSN *88.5 adds vertical
CA Palm Springs KDES-FM 104.7 42000 h,v; 540'
CA San Francisco KALW *91.7 1900 h,v; 920'
DC Washington WASH 97.1 apparently dropped
Dolby, as apparently has WGMS-FM 103.5 there.
FL Boynton Beach WHRS from 91.7 to *90.7, 52000 h, 47000v directional; 195' 23, 62 mi
FL Daytona Beach WQXQ 101.9 100000 h,v; 230'

Dual-City Identifications

IN Crown Point WFLM 103.9 unofficially id'ing as Crown Point-Merrillville IN, but has no FCC permission to do this!
PA Bellwood WHGM 103.9 adds Altoona
PA Ebsburg WIYQ 99.1 adds Johnstown

FL Ocala WMFQ 92.7 1600 h,v; 290' 21, 34 km
GA Metter WHCG 104.9 300' (3000 h,v) [miles
GA Valdosta WVVS *90.9 5300 (h)[68'] 8, 32/
LA Alexandria KSLI 96.9 adds vertical
MD Baltimore WDJQ 104.3 430' (20000 h,v)
MN Fairmont KSUM-FM 106.5 37000 h,v; 360'
MN Rochester KRCH 101.7 710 horizontal, 560', \$, r, no network (was Y): on air with these facilities!
MN Thief River Falls KAVS from 89.5 to *90.1, 1800 (h); 82'; 11, 45 kilometers.
NM Albuquerque KRKE-FM 94.1 19500 h,v, directional, 4100' 57, 106 miles
NM Albuquerque KMYR 99.5 19500 h,v; 4100'
NY Lake Success WTFM 103.5 3600 h, 3400v, directional; 1400' 30, 69 miles
OH Gallipolis WJHE-FM 101.5 35000 h,v; 350'
OH Piqua WPTW-FM 95.7 50000 h,v; 175'
PA Grove City WEDA 95.1 8700 (h); 200'
SC Florence WSTN 106.3 3000 h,v; 300'
TX Conroe KNRO 106.9 530' (100000 h,v)
TX Fort Worth KTCU from 89.1 to *88.7 3000 h,v; 125' 9, 35 miles
UT Salt Lake City KWHQ-FM 93.3 13500 h,v; 3660'; 53, 100 miles
VA Orange WJMA-FM 96.7 2150 h,v; 340'
VA Williamsburg WCWM *90.7 1600 h,v; 125'
WA Centralia KELA-FM 102.9 28000 h, 4700 v; 300' 39, 98 km primary & secondary.
WV Bluefield WHAJ 104.5 92000 h,v; 1160'
BC Vancouver CBU-FM 105.7 50000 directional (not 100000 DA) horizontal only; 1823', 84, 159 kilometers' coverages.
NB St. John CFBC-FM 98.9 370' (5600 watts horizontal only); 29, 84 km.

Stereo Stations

CA San Luis Obispo KCBX *90.1 cj (not rc)
CO Glenwood Springs KGLS 92.7, mr
CT Bridgeport WPFN *89.5
DE Seaford WSUX 98.3, Y (from UPI Audio)
IN Pendleton WEEM *91.7, r
MD Baltimore WEAH *88.9 [102.5
MD Princess Anne WOLC, g "Our Lord Cometh"/
TX College Station KAMU *90.3

SCA (67 kHz) Activities

CT Westport WDJF 107.9 adds SCA
IL Springfield WDBR 103.7 farm
IA Clarion KRIT 96.9 only a distorted tone heard; delete listing as an SCA station.
KY Owensboro WBKR 92.5 adds SCA (music)
NE Omaha KOWH-FM 94.1 adds SCA
NH Manchester WZID 95.7 resumes SCA
NJ Newark WBG0 *88.3 adds SCA
WA Spokane KPBX *91.1 adds SCA
WI Janesville WJVL 99.9 drops audible farm news in favor of facsimile (audible clicks); code as "+X."

Call Letters

IL Chicago 104.3 WJEZ (WJJD-FM); soft k, no network (was ABC-Information). [at night
NY New York 97.1 WYNY (WNWS) r; \$; NBC late/

PA Tyrone WGMR 101.1 adds State College
PR Cidra WBRQ 97.7 adds Caguas PR

Abbreviations Used (Selected)

\$ stereo station
c classical, g gospel, h horizontal polarization, k country music, m middle of the

AT Canmore 97.9 CBRC
AT Pincher Creek 97.5 CBRP (C-"burp"?)
BC Hope 101.7 CBUE
NF Port au Port 94.3 CBFN (not CBEN)
ON Barrie 93.1 CHAY (100000 watts), talk SCA (67 kHz).
ON Timmins 92.1 CFTI (CKGB-FM)
PQ Hull 94.9 CIMF (CKCH-FM)
PQ Povungnituk 99.9 CKPV
PQ Verdun 96.9 CKOI (CKVL-FM)

Formats/Networks

AZ Tucson KUAT-FM *90.5 UP (from IP)
CA Pismo Beach KPGA 95.3 E
CO Durango KRSJ 100.5 I (from M)
CT Hartford WLWH 93.7 no network (was M) WKSS 95.7 " " " A
WCCC-FM 106.9 p, Y (from E)
CT Waterbury WIOF 104.1 E (from I)
FL Miami WTMJ 93.1 cj
WAIA 97.3 mr
WIGL 107.5 rm (from k)
FL Stuart WMCF 92.7 U (from Mutual)
GA Chatsworth WQMT 99.3 ABC-FM
IL Chicago WKQX 101.1 has no NBC news; rp; still no ethnic SCA heard
IN Anderson WLHN 97.9 mr
IN New Castle WMDH 102.5 k (from m), no longer 24 hours on the air
IA Pella KPLL 103.3 ABC-FM (believed to be on the air)
KY Tompkinsville WTKY-FM 92.1 I
LA Bastrop KTRY-FM 94.3 A (from E)
LA Franklin KFRA-FM 105.5 I
ME Presque Isle WMEM *106.1 cj, \$, P
MA Brockton WCAV 97.7 Y (from UPI Audio)
MA Springfield WAQY 102.1 Y (from A)
MN Windom KDOM-FM 94.3 E MO Houston
MS Clarksdale WJBI 101.7 Y KJSCM 99.3E
MO Doniphan KOEA 97.7 E
MT Hardin KRWS 95.3 A
NM Aztec K285AH 104.9 I (from M)
NC Durham WDCG 105.1 delete A (no net.)
NC Raleigh WKNC *88.1 jc (from r) WQDR 94.7 A
NC Wilmington WAAV 102.7 NBC
OR Bend KXIQ 94.1 r (from k)
PA Altoona WFBG-FM 98.1 C (from A), live m, dropping automation PA Bethlehem
PA Bellwood WHGM 103.9 mg WEVZ 95.1 A
PA Freeland WACM 103.1 r (from k)
PA Palmyra WCTX 92.1 mk (from m)
PA Harrisburg WSFM 99.3 rp (from mr)
PA Scranton WEZX 107.1 r
PA Sunbury WKOK-FM 94.1 r (from k)
TX Amarillo *89.9 KACV pc (not r), \$
TX New Braunfels KNBT 92.1 E
WA Everett K292AL 106.3 NBC
WA Olympia K285AE 104.9 NBC
WA Seattle KIXI-FM 95.7 NBC K277AA 103.3 NBC
NE Saint John-Fredericton CBZF 102.3 cm, French, monophonic

road, p progressive rock, r rock, s soul, v vertical polarization. Networks: A ABC FM, C CBS, E ABC Entertainment, I ABC Information, M Mutual, N NBC, P National Public Radio, U United Press Audio, Y ABC Contemporary.

Readers' Reports and Comments

WMEM *106.1 writes and says they are not sorry they took over a commercial channel, 106.1, instead of staying in the educational band so that another commercial station could be created in Presque Isle ME. WDEA-FM 95.7 Ellsworth ME wants to move their antenna to Surry ME, about half-way between Bangor and Ellsworth, with the Bangor stations objecting—especially the new WPBC 92.9. Newly relocated WIGY 105.9 Bath ME gives only one hard-to-understand ID on the hour—a terrible "sing-song" which makes it very hard to understand, and sounds more like WYGY than WIGY! They give their location as Bath-Brunswick, non ID as "Y-106." Very strong CBZF St. John-Fredericton NB gives a good signal into eastern Maine—easily receivable on car FM anywhere east of Machias to the Canadian border. CBZA 103.7 on Grand Manan Island, NB, is also received in Maine. They never give an "ID." They just say they are "CBC radio, New Brunswick"; "I have yet to hear them give a call sign—obviously, a repeater of somebody, but I don't know who." WHSN *89.3 Bangor being heard clearly at 45 miles, 10 w. The latest sale attempt for WVOI 92.7 Tisbury MA fell through; owner trying to find new buyer and to keep the station, which is off the air, from deleting.

WINE-FM ("I-95") at Brookfield CT on 95.1 has a slightly improved signal in southern New York state, with their power uppage to 50 kw. A PA reporter writes concerning the February column: "I disagree with the correspondent who complained of WEZX 107.1 Scranton's format change to r. WEZX's change to sophisticated r is just what this area needs, a station with some decent r as an alternative to the soft rock/mor "pap" put out by WMJW, WGBI and WWDL. If he must complain about formats, why not to one of these repetitive stations? Also WVCD-FM and WYZZ have easy listening music, and I am sure these stations reach Scranton. . . Also sorry to see that WCAO-FM has rock. I think it's a sad thing when all the classical stations disappear. Baltimore has enough r stations. I was also sorry to see WBAL-FM go all news. This was a beautiful "all day" c station when I lived there." A clipping concerned the upcoming power increase of WCLH *90.7 Wilkes Barre PA, claiming a "frequency expansion" from 175 to 2000 watts, permitting reception clearly in Maryland, etc. "I think they are a little hopeful about reaching Maryland, what with the 90.5 stations down there and after all it is about 100 miles to the MD line." A ten-watter, WZBT 90.3 Gettysburg PA comes in well at 22 miles; they're p. Some nonIDs: WYCR 98.5 Hanover PA "Rock 98." WXRA 105.9 Woodbridge VA "Stereo Country 106," or "Country 106." WZYQ 103.7 Braddock Hts MD "Q104," or "14-Q" when simulcasting AM. WPGC-FM 95.5 Morningside MD "Stereo 95 and 1/2." WPFW *89.3 Washington DC is testing, so they tell me.

A frequent contributor says: "In view of the fact that you 'purposely blur the distinction between Muzak and music on SCA', why make it at all?" which is a very good observation! Then he adds: "After seeing my Atlas comments in the December VUD, I was struck by the fact that their general tone was quite harsh and negative. Hope I wasn't being too critical." Actually, I do not think so—I have a thick skin, and besides I only selected the more critical comments to put in the VUD, leaving out the others. WHRS *91.7 Boynton Beach FL was actually off the air Jan. 19 due to the cold and demands on power. WNNS 97.5 Louisville plans to drop news for automated country; they want call WAMZ. WLCB-FM Hodgenville KY being sold and will be k, switching formats with AM, which will go r. In eastern Indiana, a full-strength mono signal on 103.9 has been heard, target area near Greenville OH. Could this be receiver radiation from an FM set tuned to 93.1 Indianapolis or 93.3 Kendallville IN? "I like your idea of informing a school or college location of 10watters in the Atlas. When I heard Lakota H.S. repeated on 89.9 I knew I'd caught WLHS West Chester OH. Also, Lutheran Concordia H. S., WLHI 88.3 Fort Wayne. Non-IDers is good to have also." The new Hiawatha KS station on 103.9 will be on from 5:30am to midnight, 7 days a week, with a 30-mile radius expected from a tower 5 miles south of town. KATT 100.5 Oklahoma City now refers to its town as "Zoom City," except at required ID times; good audio." CONTRIBUTORS: Frank Aden, Bend OR; Paul R. Anderson, Hartford CT; Andrea Baldwin, KACV Amarillo TX; Bill Bessire, WJVL Janesville WI; Warren Bird, Durham NC; Andy Bolin, Charleston IL; John Ebeling, Bloomington MN; John M. Emery, WMEM Presque Isle ME; Doug Everett, Enid OK; Ted Fleischaker, Louisville KY; Harry J. Hayes, Gouldsboro PA; Debra R. Heard, KIOV Sioux Falls SD, who confirms that KIOV still has audible farm news on its SCA from 9 am until about 2 pm Monday through Friday; Nick Lombardi, Atlanta GA; Joseph M. Mangiacarne, Altoona PA; Rod O'Connor, Southwest Harbor ME (at the mouth of Somes Sound, "the only natural 'fjord' in North America"); Harold I. Peters, WBKR Owensboro KY; Dave Pomeroy, Topeka KS; Kenneth R. Simon, West Palm Beach FL; Andy P. Smith, Dillsburg PA; Ralph Strobel, Muncie IN; John M. Tooley, Milton DE; Steve Urbani, KCBX"-FM" San Luis Obispo CA; Larry Weil, East Rockaway NY; Tom Yingling, Jr., Baltimore MD; KUAT-FM Tucson AZ (no signer). Also in February: Mike Dorner, Jr., Metairie LA; John Zondlo, Hammond IN.

F C C In an unprecedented move, the FCC is revoking the licenses of all the radio stations
E in one town for alleged fraudulent billing. Berlin, New Hampshire, population
A 15,256, "between the mountains and the bears," as one station executive described
T it, stands to lose WBRL 1400, WMOU 1230 and its FM affiliate WXLQ 103.7B. The three
U stations are appealing the matter to the FCC Review Board and to the courts. If the
R Commission is upheld, it will be the first time that all stations in a multi-station
E market have been deleted, leaving Berlin with only an educational TV station. -md

INCREASE YOUR STATION TOTALS
BY UNDERSTANDING POLARIZATION
PART II

In the first installment of this series, we discussed what polarization is and how it is used in the United States. This month, we'll investigate the effects of polarization at TV and FM frequencies, and some of its peculiarities.

Figure 3 below shows the effects on local and DX reception when using vertically- and horizontally-mounted antennas to receive a signal from the same transmitting antenna. This is a hypothetical situation, but the ratios may well hold true in practice.

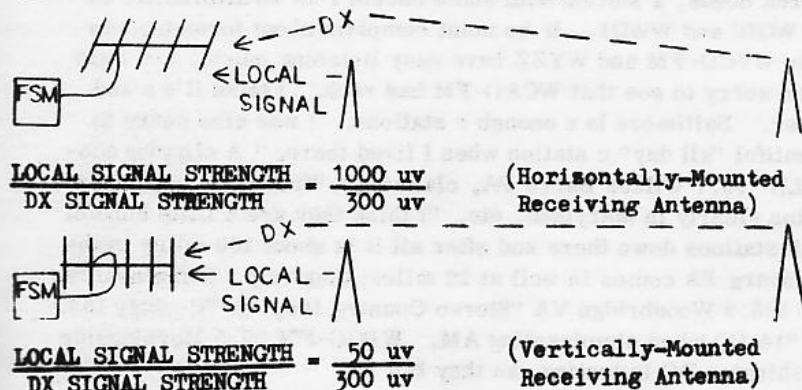


FIGURE 3. POSSIBLE EFFECTS ON THE RATIO OF LOCAL TO DX SIGNAL STRENGTH BY SIMPLY REPOLARIZING THE RECEIVING ANTENNA (THEORETICAL)

Over the years, amateur radio operators have probably contributed more to the state of the art in electronics and communications than any other group. In fact, they've often been so far ahead of the state of the art that it's been embarrassing! When you mention vertical and horizontal polarization to the old-time "hams," there usually is no question—they'll assure you that vertical is definitely superior! Well, this isn't exactly true, but in the majority of cases this often has been proven.

The hams have set up some very simple conditions and tests to verify their claim of vertical superiority, too, which generally consist of a station transmitting the same amount of power both vertically and horizontally, and someone at a distance receiving the signal, and noting the signal strength and what occurs to the signal, etc. Through these tests, it's been discovered that under certain conditions and terrain, the vertical signal is indeed superior to the horizontal one. Typically, there is less fading on the vertical signal. So, many of the arguments about vertical vs. horizontal polarization aren't arguments at all—most of the issues have been at least partially settled by these tests.

From my own personal observations of vertical and horizontal signals (and please bear in mind that they are very limited, largely observations of the WLS-7 tests noted last month and some brief FM listening some years back), I've noted that in most cases, the vertical signal can be superior to the horizontal. A while ago, I was able to put up identical FM antennas vertically and horizontally, and from listening to stations broadcasting both types of signals was able to draw a few conclusions. Basically, my observations were parallel with the textbook theories: over relatively flat terrain, such as to the west of us here in Wisconsin, the vertical signals seemed to propagate a bit better—but not alarmingly so. On the other hand, across water paths and through some very rough terrain, such as across the Great Lakes, there was an immense difference between the vertical and horizontal signals.

I can give one dramatic example of the last note above. CKCO-FM in Kitchener, Ontario, was roughly 400 miles from my QTH; yet, during the two-week period in which I listened to that station every night, in more than 90% of the cases the signal at my vertically-polarized antenna was superior by a good amount—6 to 8 dB! Only in isolated cases did the signal on the vertical antenna dip below that on the horizontal antenna. I don't recall if CKCO-FM was running equal power both vertically and horizontally, but if the vertical power was less, it speaks all the more strongly for the long-haul advantages of the vertically-polarized signal. So, theory dictates that vertical polarization should be superior in a majority of cases, and people have observed this in practice.

Probably one of the most important things we do know about polarization as it applies to TV and FM signals is that the original polarization of these signals can change, given a number of circumstances; they don't always retain their original polarization, becoming "repolarized." Here are three cases where the signal does become automatically repolarized:

Ground clutter. Tall buildings, water towers, any obstruction can cause that original polarization to change somewhat—perhaps making a horizontal TV signal vertical. But this really doesn't help the DXer too much; he isn't really concerned with local ground obstacles (unless they're in the way of his antenna system!).

Tropospheric reception. Now we reach the DXer's area of interest. Especially at the high frequencies, the original polarization of a signal is changed dramatically. We know that at channel 2, over long tropo distances, the original horizontal polarization of the signal does not change appreciably, except under severe ducting conditions. But as you go higher in frequency, particularly over water paths and hilly terrain, the effects on the signal's original polarization are enormous. In fact, at UHF, it is thought that over great distances, the polarization change is incredible. This may well explain why individuals experiencing the early days of UHF found that the best signal from their UHF stations came with the antenna in odd positions.

I like to use a rule of thumb which pegs 100 MHz as the point at which one begins to observe a dramatic effect of repolarization on the signal. At that point, it might be advantageous for the DXer to begin a search for repolarized signals. At UHF, especially, the sky may be the limit in what we can accomplish by changing the feed antenna on our parabolic dish, for example, or using some form of antenna which will allow us to capture repolarized signals.

E-skip reception. Repolarization, typically of low-band TV and FM signals, most emphatically occurs under sporadic E-skip (Es) conditions. This is an area in which virtually everyone can take advantage of this peculiarity of polarization to log new stations. When the signal is reflected back to earth by the E layer of the atmosphere, it arrives at your antenna in literally every manner of polarization possible: there is a horizontal component, a vertical component, and almost everything in-between. At any instant, the electromagnetic energy may be very dominant in one particular plane, and nonexistent in another. But the polarization is constantly changing, as you will find by observing the signal with the proper equipment for any length of time.

Now that we have this knowledge, how can we benefit by it? Probably you've already anticipated what comes next. Refer back to Figure 3 on the previous page. The first diagram shows a high-gain yagi receiving signals from both a local and an E-skip station. Let's assume, for the purposes of this discussion, that both are in the same line (i.e. direction) from your antenna, which makes the situation even more difficult for the DXer.

Well, if we were to attach a field strength meter (FSM), we could easily measure the signal strength of the local station, which we've arbitrarily placed at 1000 microvolts (uv). If the local station were off the air, we could also measure the strength of the DX signal, which we'll call 300 microvolts. Of course, in this situation, the two are battling it out on your TV screen. The local is more than three times stronger than the E-skip station, which makes it difficult to pull in the DX—until we "repolarize" our antenna by pivoting it 90 degrees as shown in the second diagram opposite. When this is done, the local strength signal should theoretically drop by a factor of perhaps 30 to 1. (Since we are dealing with realities, with ground clutter and other obstacles, this won't always happen; a vertical antenna will always pick up a certain amount of horizontal signal.) Let's assume in our example that the decrease is by a factor of 20 to 1, which brings the local down to 50 microvolts. Let's further assume that the DX signal has as much signal in the vertical plane as in the horizontal (which is possible). With these conditions, it is simple to determine what has been accomplished; by repolarizing the receiving antenna, the DX station is now six times stronger than the local!

You may be asking yourself if this happens to be an ideal case, but even if the DX signal was much less in strength in the vertical plane—say only 60 microvolts—there would still be an appreciable improvement in the appearance of the DX signal at your QTH, if only by virtue of the fact that we have decreased the strength of that local signal immensely. Then again, 60 microvolts would be an extremely weak station on E-skip, which tends to bring in signals of frequently local quality and only brief fading.

To summarize, the reasons for a vertically-mounted antenna to receive repolarized signals, in order of importance, are: to reduce the ratio of local to DX signal strength in a high-signal area; to reduce the amount of local "slopover" on adjacent channels; and to receive stronger E-skip signals if the repolarized signal strength in the vertical plane is much greater, though a vast difference in signal strengths will not be all that common.

To be continued next month.

73, Dave Janowiak

FM NORTH

Fred Nordquist
7945 Boxford Road
Clay, NY 13041
Deadline: the 10th

March 1977

For FM DXers north of the Mason-Dixon Line and east of the Mississippi. Please report today. FM DX should improve with warmer weather finally breaking through to the Northeast. DX was noted via all modes of propagation during this reporting period. Es was noted on 11/25, and Au on 12/17 & 12/18. Weak Tropo, MS & AS reception was observed at various times, as noted in the following reports:

Mike Bugaj - 69 Sherman Road - Enfield, CT 06082

Eqt: Sony ST-5130, Finco FM-5 @ 35' w/rotor. This report covers 9/9/76 to 1/21/77. Underlined new to log.

9/9	Tr 2130	coastal tropo to MD and Norfolk area.	12/17	Au 2300	WMUZ 103.5	MI Detroit, ID, g
					2300	WBEN 102.5 NY Buffalo, ID
9/20	1100	WKHS 90.5	MD Worton, s/on		2315	WYSL 103.5 NY Buffalo, ID
9/30	2038	WCFR 93.5	VT Springfield, r		2317	CFCA 105.3 ON Hamilton, ID
10/27	1758	WNTI 91.9	NJ Hackettstown, s/off	12/18	0005	WMZK 97.9 MI Detroit, Mutual rx
11/20MS	0732	CJOM 88.7	ON Windsor, ID			Total logged: 612.

Ralph Stroebel - 2510 E. McGalliard Road - Muncie, IN 47303

Total: 611. New Underlined.

1/7	Tr 1800	WCXL 88.7	OH Kettering, 10w.	1/17	Tr 1000	WNIU 89.5	IL DeKalb, c
1/9	0005	WXIL 95.1	WV Parkersburg, r		1004	WEEM 91.7	IN Pendleton, r, 18w.
	0030	WDZQ 95.1	IL Decatur, k		1027	WMNI 99.7	OH Columbus, r, quad-100
	0035	WLIP 95.1	WI Kenosha, r		1300	WJCK 97.7	IN Rensselaer, m, r
1/14	0433	WRWR 94.5	OH Port Clinton, m		1538	WISU 89.7	IN Terre Haute, r, c
1/15	1540	WSIP 98.9	KY Paintsville, BKB	1/22	1600	WWJY 101.5	IN South Bend, m
1/16	2346	WMER 94.3	OH Celina, m, r, s/off	1/23	1808	WZOW 97.7	IN Goshen, m
	2351	WDIF 94.3	OH Marion, r		0049	WNDY 106.3	IN Crawfordsville, P
	2358	WCSCM 96.7	OH Celina, m, r, s/off		0130	WLDM 95.5	MI Detroit, m
				1/24	0133	WDDD 107.3	IL Marion, k, W-3D
					0100	WFLM 103.9	IN Crown Point, quad, P

The -25° Temp. has done nothing for DXing -- Ralph.

Peter Sawatzky - 244 Neilson Ave. - Waterloo, Ont. N2J 2M3

RX: Heathkit AJ-15; Ant: Delhi 1047 @ 30'; new underlined; loggings made on MS tape control unit asterisked; times EST.

11/25	Es 1853	WTMI 93.1	FL Miami (1205)
	1900	WMCU 89.7	FL Miami (1205)
11/28	MS 1157	WKYQ 93.3	KY Paducah (615) hrd: "...your king of values, Big King, Paduc. Sqr"
12/4	MS 1259	KYK 103.7	AR Little Rock (865) hrd: "...the Univ. of Ark. has its"
12/6	MS	*KBHP 101.1	MN Bemidji (750) hrd: "...-BHP in Bemidji MN..."
11/21-22	MS	*WNNS 97.5	KY Louisville (450) ID (Taped between 2200 & 0730)
12/12	MS	*WVTK 92.9	KY Lexington (430) lcl reference (taped between 1745 & 2115)
	Tr	*WNDU 92.9	IN South Bend (315) ID (taped between 1745 & 2115)
12/13	MS	*KCFM 93.7	MO St. Louis (605) ID (taped between 0800 & 1845)
12/20	MS 0738	KWYR 93.7	SD Winner (965) ad for Rosebud Farmer's Union in Gregory (prev. -Es) Between Dec. 25 & Jan. 7 I was in FL during which time I made my MS tape system operational daily between 0500 & 0800 with an appliance timer. Logged on tape during these times were:
	MS	*KAKC 92.9	OK Tulsa (955) hrd: "... KAKC-FM, Tu-..."
		*WJAI 92.9	OH Eaton (330) hrd: "...power. Our main studios & xmtrs are located at 505 N. Barron Street..."
	Tr	*WNDU 92.9	IN South Bend (315)
	MS	*WSCD 92.9	MN Duluth (610) hrd: "...here on MN Public Radio...1 hr. ..."
1/9	MS 1421	WQID 93.7	MS Biloxi (1000) hrd: "...in Biloxi..."
1/12-13	MS	*KAKC 92.9	OK Tulsa (955) hrd: "...KAKC-FM..." (Taped between 2000 & 0700)

John D. Hathaway - 2109 Tamarack Court - Champaign, IL 61820

Eqt: Ross All-wave Monitor w/built-in antenna. Log Total: 44

1/26	1918	WPGU 107.1	IL Urbana	1/28	1147	WRTL 95.3	IL Rantoul
	1920	WFWA 106.3	IL Sullivan-Arthur		1211	WITT 93.5	IL Tuscola
	2200	WTWC 103.9	IL Urbana		1315	WNAP 93.1	IN Indianapolis
	2205	WBNQ 101.5	IL Bloomington		1508	WSSR 91.9	IL Springfield
	2215	WIAI 99.1	IL Danville				

Fred Nordquist - 7945 Boxford Road - Clay, NY 13041 (Total hrd: 849) (EST)

1/18	Tr 2227	WQSU 88.9	PA Sellingsgrove.	2/3	AS 2010	WQWK 96.7	PA State College, ad
1/30	GW 2130	WSUC 90.7	NY Cortland, r, NY#139		GW 2014	WMJQ 92.5	NY Rochester, \$r, Magic92

Southern F.M. DX

Dave Cox
2007-E Brandywine Ct.
Birmingham, AL 35216

March 1977

Deadlines: the 10th

January was a cold month across the entire nation and the South really had its share of the frigid weather. On two separate occasions, one inch of snow accumulated here in the Birmingham area, the first real snow seen here in almost eight years. Snow flurries were reported as far south as the Miami area. It was, all in all, another very poor month for FM DXing.

As might be expected with the bad conditions, very little FM DX was reported this month. However, Ken Simon did report a very nice Es opening into TX, MO, PA, and ONT. This opening lasted at least four hours and Ken noted a MUF of up to 95 MHz.

Kenneth R. Simon, 528 Pilgrim Road, West Palm Beach FL 33405 EST
Retired the Harmon-Kardon hi-fi 1-15-77 and am now using a Kenwood KT-7001 tuner and Fisher TX50 amp ... maybe now I can DX some tropo. On 1-19-77, unusually cold with SNOW reported for first time. WHRS 91.7 was off all day because of power line problems related to the cold!!!

Jan 26

Es 1630 WVLS 91.5 MS Jackson heard "24 degrees in Univ. of Jackson(ville) ?..."

1635 KDKA 92.9 PA Pittsburg wx & ID
1636 unID 92.7 ? ad for Lake City Ford

1640 unID 91.1 ? r; ph # 942-1500
1700 educations covered with NPR net

1703 KOPN 89.5 MO Columbia ID,,

1703 WQED 89.3 PA Pittsburg c; ID

1707 CBL 94.1 ON Toronto c; with CBC orchestra, tentative; MUF up to 95 MHz

1730 KYKR 93.3 TX Port Arthur clothes store ad, store in Houston

1815 unID 87.75 ? Hogan's Heroes

1830 KUMR 88.5 MD Rolla promo & ID (thanks for the report, Ken ... dsc)

Jan 26 (cont.)

Es 1900 KOBC 90.7 MO Joplin ABC Info. NX
1925 unid 87.75 ? end local nx, then PM Match Game

1945 KERA 90.1 TX Dallas jazz, then ID

1950 KCHU 90.9 TX Dallas phone in, then ID

2000 KETR 88.9 TX Commerce end ALL Things...then ID; sta. # 137

2030 unID 87.75 ? N; w/Mc Lean Stevenson (KRIS?)

Feb 1

tr 1425 WSWN 91.1 FL Belle Glade ... why they appear on wrong freq, unknown, they were heard on right freq.

1442 WCKS 101.1 FL Cocoa Beach ID "CK", \$

1445 WYRL 102.3 FL Melbourne k

1453 WRKT 104.1 FL Cocoa Beach m;N nx

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

This report is long overdue but I wanted to wait until the stations heard in October QSLed so I could list the correct powers as they were both of the flea power category! Follow ups had to be sent to both stations as my originals were "misplaced". Since my first letters were sent on the same day, I wonder if the PO even got them delivered, HI! (those PO guys can do some strange things as evidenced by the fact that the report Hank sent in August was actually postmarked "OCT 30". It caused at least one frantic search as Nov. 20 approached, hi, r; dsc) Only two new ones since my Sept. report.

OCT 14: 1333-1415 WACC 89.8 MD Arnold r;(20mi.) Anne Arundel Community College; plenty of PSAs; power 28 watts

OCT 15: 0720-0801 WXDR 91.3 DE Neward r;(65) University of Delaware, took the air 10-10 Oct. 4, 1976 "It came as a surprise any semblance of our signal could reach so far."

The above stations heard with my rotor locked in a NE position. That's the 3rd rotor to blow out on me in ten years. I'm thinking of keeping it as is (my best trop direction is NE at the bay) and buying a 6 element yagi and place it in the radio room to catch skip in other directions! My buddy Norval, who helps me put up my rotors, fell off his roof working on his antenna and broke all kinds of bones, so I don't think I'm about to suffer the same fate! I've had broken bones of my own persuing my other hobby, bicycling! Don't care for any more. To Glenn Hauser: I should also spell Nova Scotia with capital letters for CJCB heard this past season - HI! To Tom Yingling: Yes, I am SICK as I missed that Sunday, June 28th opening. Left the cottage early that AM and knew after I had gotten home that I had missed a good opening. Had hoped no one nearby would report it! Now after seeing what I missed, I AM SICK! Excellent DX there! 73, Hank

Larry T. Vogt, 7724 Harwood Place, Springfield VA 22152 EST

Equipment: Fisher 500TX and Finco FM4G at 20 feet. Hope to improve DX set up at this new QTH and become active again by spring. Two new locals are on: 1-17-77 WEAA Baltimore on 88.9 at 50 mi. and I-28-77 WPFW 89.3 Washington at 15 mi. on w/equip. test authority.

73, Larry (thanks for reporting, Larry. We'll be watching for your reports this spring)



STATISTICS

Andy Bolin, Editor
 709 Lincoln Ave.
 Charleston, Illinois
 61920
 Deadline May 10th

MARCH 1977

DXer Location	TOTAL	88-92	Es	MS	Au	USA	CN	MX	FO	TPU	YB	Date
Andy Bolin, Charleston, IL	1691	246	597	89	272	44+	7	4	3	59	70	2/10
Bruce Elving, Duluth/Adolph MN	1370	116	631	7	8	44+	3	1			48	11/20
John Ebeling, Bloomington MN	996	137	495	15	70	45+	4	3	0	53	52	1/1
Michael Dalton, Clearwater FL	885	189	452			40+	1	11	10	62	72	8/14
Fred Nordquist, Clay NY	824	102	328	15	26	38+	3	0	2	44	69	7/20
Fred McCormack, Des Lacs ND	795	100	582	21	65	43+	6	3	0	53	65	7/3
Peter Sawatzky, Waterloo ON	732	80	307	84	5	38+	4	0	1	44	71	8/10
Joseph Fela, So. Plainfield NJ	682	135	264	2		37+	2	0	2	42	68	8/21
Roger Winsor, Hobart IN	653											6/14
Danny Buntin, Stillwater OK	644	74	360	0	0	40+	3	3	0	47	74	1/9
Tom Cornell, Kokomo IN	515	90	15	0	0	16	1	1	0	18		8/24
R.J. Steinberger, Hudson MA	434	72	162	7	6	31+	2	0	0	34	58	10/2
S. Wiseblood, Santa Maria CA	413	49	268	12	0	19	3	4	0	26	71	1/6
Joseph Smith, Johnson City NY	347	37	52	3	0	22+	1		1	25	71	7/24
E. Lyons, Balleair Bluffs FL	289	59	0	0		24	1	4	4	33	74	4/22
Doug Everitt, Enid OK	247	44	95	11	0	26+	3	4	0	34	74	1/2
Ron Seman, Whiting IN	226	44	0	0	0	7	1	0	0	8	76	2/28
John Zondlo, Hammond IN	152	26	14	0	0	11	1	0	0	12	71	10/7
W. Dickerman, Williamsport PA	134	14	15			15+	1	0	0	17	71	12/27
Frank Wheeler, Eria PA	133	16	0	0	0	5	1	0	0	6	64	9/2
Ken Simon, West Palm Beach FL	127	53	72	0	0	17+	1	1	4	24		8/17
Michael Scheel, Davenport IA	109	14	0	0	0	7	1	0	0	8	71	11/15
Pete Oprisko, Whiting IN	101	101	3	1	1	12	1	0	0	13	76	1/8
Michael Hogan, Highland IN	71	21	1	0	0	6	0	0	0	6	73	1/8

Updates required by Earle Lyons & Ron Seman.

Thanks to all who have sent in updates! As you can see we have dropped the "average distance" column. A.B.

NEW BUILT-IN TV-DX RECORDS

Ch.	Call	State	Miles	DXer, Location	Previous Record
2	WBAY	WI	290	Frank Merrill, Toledo OH	Hayes, KDKA, 230
4	KMOX	MO	410	Frank Merrill, Toledo OH	Sawatzky, WTMJ, 365
6	CJOH1	ONT	430	Frank Merrill, Toledo OH	Sawatzky, WRTV, 380
7	KPLC	LA	620	Martin J. Theil, Holiday FL	Levitt, WITN, 380
8	WROC	NY	330	Frank Merrill, Toledo OH	Levitt, WXEX, 260
9	KMBC	MO	600	Frank Merrill, Toledo OH	Hayes, WSTV, 255
10	WWUP	MI	350	Frank Merrill, Toledo OH	Levitt, WAVY, 280
11	KPLR	MO	410	Frank Merrill, Toledo OH	Combs, WBKB, 255
12	KIIN	IA	400	Frank Merrill, Milan MI	Levitt, WWBT, 260
13	WEAU	WI	440	Frank Merrill, Toledo OH	Combs, WBTW, 410
16	WUSI	IL	340	Frank Merrill, Toledo OH	TIE, Combs, WNEP
17	WAND	IL	290	Frank Merrill, Toledo OH	TIE, Combs, WNED
	WTVO	IL	290	Frank Merrill, Toledo OH	TIE, Combs, WNED
18	WNPI	NY	540	Frank Merrill, Toledo OH	Sawatzky, WLEX, 430
20	WICS	IL	320	Frank Merrill, Toledo OH	Sawatzky, WUTR, 260
21	WXXI	NY	330	Frank Merrill, Toledo OH	None
22	WKPI	KY	340	Frank Merrill, Toledo OH	TIE, Combs, WDAU
23	WCEE	IL	310	Frank Merrill, Toledo OH	Sawatzky, WKAR, 205
26	WCIU	IL	205	Frank Merrill, Toledo OH	None
28	WBRE	PA	390	Frank Merrill, Toledo OH	Young, KMCC, 280
32	WLKY	KY	280	Frank Merrill, Toledo OH	None
46	WKLE	KY	260	Frank Merrill, Toledo OH	Sawatzky, WSKG, 245
52	WKOH	KY	220	Frank Merrill, Toledo OH	None
62	WTVQ	KY	260	Frank Merrill, Toledo OH	None

(Thanks also to Bob Young for submitting record candidates)

Western TV-DX editor Doug Everitt will be compiling "built-in" Au and MS records while I continue to handle the Tr records. His address is: 1710 W. Maine, Enid OK 73701.

John

John F. Combs
 816 W. Harvard
 Orlando FL 32804

Being A DX DETECTIVE



by Mike Dorner, Jr.

One of the pleasures of the Worldwide TV-FM DX Association is the sense of being a pioneer in a part of the radio spectrum almost ignored by other DXers until some fifteen or so years ago. The older members began when both FM and TV were new on the broadcasting scene, and theirs is the added enjoyment of having watched both grow until TV surpassed radio as the national medium, and FM is on the verge of being the principal radio medium in the metropolitan areas of our nation. They have added to the fund of knowledge in the club by contributing technical ideas and recommendations that have added to the hobby. Stacked antennas, mast signal amplifiers, state-of-the-art amplifiers, traps, and other devices have helped to make VHF-UHF DXing somewhat more regular than an unpredictable, rare occurrence.

There are problems, however. Some of us are not technically oriented; it is all this member can do to get a good solder joint. Others of us do not have the space to erect the necessary antennas--the landlord or parents have assured us that that fifty-footer of stacked yagis will assure our sleeping on the sidewalk come sundown. Many of us do not have the bread that a first-class DX system takes. Obviously, our efforts are going to be handicapped. We have to make do with what we can; what others pass up or off we have to make count in order not to become discouraged. The thrust of this article is such "making do," that is, identifying stations in an E-skip opening or buried under a local sideband during a tropo opening. An IDed station counts as one more; while there is a lot to be said against "station chasing," there is little doubt that the failure to catch new stations will lead to gradual discouragement and abandoning the hobby--this is an old basic law of psychology at work!

So we pull out the old tapes or logs, or we keep an ear open during the next good day. How do we ID the old stations? First off, antenna direction is basic; this eliminates 75 percent of the frequency listing. Bruce Elving's FM Atlas and the WTFDA TV Station Guide are basic to any serious DX, needless to say. The format listed in the Atlas will narrow the already short listing; this will take some page-turning in the latest edition, but we are speaking of a pleasant evening's relaxation. Networks are even better in identifying FM stations; for example, suppose we have an unIDed station on 92.7 coming out of Mutual news. Now 92.7 happens to be a "graveyard" frequency, a frequent Class A assignment to communities coast-to-coast. But there are only nine Mutual stations on 92.7--and identification should come quickly in consulting this list, as Bruce Elving argued in the December VUD. (This article deals with FM, but for TV procedure is the same.)

On September 30, 1976, there were 3015 commercial FMs on the air, and a corrected count shows that as of January 10, 1977, only 785 or 25 percent were monophonic. That an unIDed station is stereo is generally of no help at all; but if it is mono, the possibilities of identifying it are overwhelming. For example, the Atlas lists nine monos on 93.7; with directional antenna bearing, identification ordinarily is easy. I say ordinarily for this reason: a good number of stereo stations douse their stereo generators when broadcasting mono material. Further, a stereo station might be having trouble with one of its telephone loop pairs, or its generator, or a channel on its STL--all of which can cause mono broadcasting for as much as a week or two. One must be cautious.

There are other things to look for. The announcer on that 92.7 station gives the time check as "2:06." If it's 3:06 where you live, then the time zone of the station is just west of your own. Big deal! You guessed as much, since the antenna is pointing west. But you know now that the unIDed 92.7 is somewhere in, let's say, Wisconsin, Minnesota, or the Dakotas. That narrows it down considerably, and with format and network probably is a good ID!

Watch for regional networks--Louisiana News, Texas Quality, the Mississippi Network. Many do have news at :30, :55, or :60. These are genuine networks; that is, stations actually tied together, and are not advertising "networks" like the Tobacco or Keystone. Don't overlook the fact that a station carrying a state network might actually be located in a city on the other side of a state line. Less meaningful are ad hoc networks created for a specific program such as the Indianapolis 500 or the Texaco Met Opera networks. A letter sent to the sponsor should bring a list of stations which, coupled with other clues in your tape/log, may give the station away. Sports networks are generally good clues; each state university of consequence has its alumni and fans listening to games statewide. A SASE to the university should bring back a list of stations carrying its games, and there are not likely to be too many 92.7 stations broadcasting Rahrahh U's Saturday rites of autumn (or spring or whatever!). Caution again: some few chosen universities enjoy a national following, e.g. Notre Dame; others enjoy coverage over several states. If this is the case, a little more sleuthing is necessary.

One time-honored clue that many members use is a broadcast telephone number. "Our request line is open at 242-1100" is not much of a help. If the area code is given--not likely--that helps a great deal. The white pages of the telephone directory begin with a map of U.S.-Canadian

area codes. "504-242-1100" will tell you that the station is in southeastern Louisiana, but since even Class C's do not usually get calls from outside their immediate countryside, it is not likely that the announcer will give an area code. If he does, you must live right and have a special friend on the other side of St. Peter's gates. (Come to think of it, Ron Le Blanc must be in this category, for E-skip openings happen only when he's home!)

But that simple "242-1100" can be of help, especially if you've already narrowed down the possibilities. A call to Information for the telephone number of a suspected station (1 plus the area code plus 555-1212) may verify it. However, DXers must be overdoing it, for Ma Bell has asked the FCC to allow it to charge for long-distance information calls. A copy of the latest Broadcasting Yearbook will get you answers in no time--if you've got the \$25 it costs. Perhaps a local station will give you its last year's copy; the odds are against your getting a station which is one year old or less!

Still don't know the station, eh? Okay, we've got more tips in the grabbag. Watch for odd slogans: "93-X" is as definite as call letters if the Atlas says "93-X" is KDX in Waxahachie, Texas (it doesn't). "FM 93" is probably useless, for so easy a monicker is likely to occur to anyone who holds a radiotelephone third class. Watch for geographical names and nicknames: the signal might fade on the ID, but if the announcer comes up with "the power in the Piedmont" you pretty well have your identification. Watch for curiosities such as "the temperature in Arklamiss" which could be WKYV 106.7 Vicksburg MS--serving Arkansas/Louisiana/Mississippi. The The Beaumont-Orange-Port Arthur TX area is known as the "Golden Triangle," and such is often heard on the air from that region--but be cautious, as the tri-state area near Pittsburgh is also referred to on-air as the "Golden Triangle." You might not know where the "Coast of Gold" is, but a southern California member will--and that is why it's worth sending queries to the CCI "mystery" column (Frank Aden, 1535 NW Ithaca Avenue, Bend OR 97701). Perhaps one of the reasons so few people submit data to CCI is because so few members have bothered to answer it; it's time to change that.

Listen for the dialect or drawl of the announcer, particularly during E-skip openings; does he say "roof" to rhyme with "woof"? Has he or she a Harvard broad "a"? Do the advertisements say "Y'all come"? It won't ID a station, but it does help define the area which you're hearing. Look for local color items: an emphasis on barbecues will locate your station in the Southwest; a church gumbo supper means south Louisiana; ads emphasizing corn or grain, etc. can narrow down your area greatly. If your 100.3 station is out of the Kansas network with no ID, and you're not sure if it's Topeka or Colby and the agricultural news is emphasizing wheat, you can be sure you don't have Topeka.

As I write this, the January VUD has come with an even fuller list of non-IDers compiled by Clarke Ingram on page 20. Members are urged to drop him a card on others that you know about; this makes an ideal project for you during the dead winter season, and projects involve more members and keep the interest quotient high. I'm in the process of working on a new edition of operating schedules of educational FM's, to aid members in narrowing down the possibilities in an opening; if you know your local EFM schedules, I'd appreciate hearing from you.

In any opening, a running tape deck is important; one might not have time to reason out the possibles, and allowing the tape to run during voicers on an unIDed station and noting the frequency on a written log will allow you to go back at a later date and work out the ID. Noisy signals can be "cleaned up" by throwing the noise and SCA filters on your receiver, and recording at 3-3/4 or 1-7/8 IPS; the loss of high frequencies here cuts out noise remarkably, and you might catch an actual ID from the tape that your ears couldn't decipher in the noise! Recording on two tracks, not one to save tape, will improve signal-to-noise ratio on the recording; you don't need tape noise to boot! And keep your squelch off--otherwise you'll lose all the weak signals. (Squelch cuts out the noise between local stations and lowers sensitivity.)

All of this might sound like ethereal nit-picking, but what the DXer wants to do in a case with an unID is narrow down the possibilities by logical deduction, just as Sherlock Holmes and any detective worth his salt does. You build a case for the most likely station by a preponderance of circumstances until one gives it away. Most of the time, only two or three of the above questions will be necessary; at other times, going through the entire list will not verify the station. The evidence points out that the 88.3 station with instructional programs on wildlife in Ohio and a mono signal is WMRT Marietta, but there is the slight possibility that it is WJVS Cincinnati; one, in the final analysis, has to live with himself. All of the above means may be of help in ferreting out stations you might otherwise have totally missed--and you'll find the detective work fascinating in its own right!

Mike Dorne, Jr.
1409 Hymelia Avenue
Metairie, Louisiana
70003

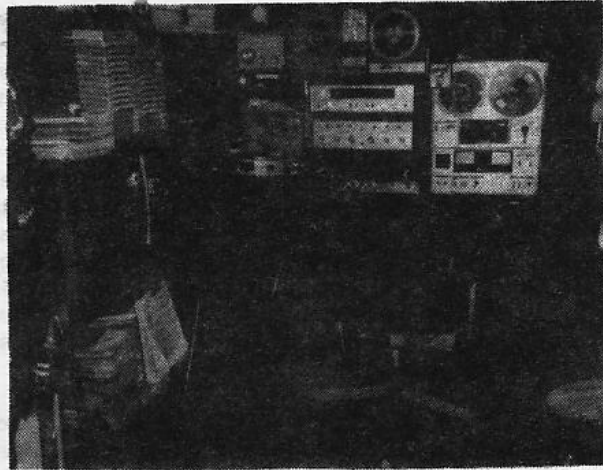
PHOTO-NEWS

Jim Alexander
4 Brook Court
Parsippany, NJ 07054

March, 1977

Feature: A visit to Charleston, Illinois

The DXer below who we're dropping in on this month is none other than Andy Bolin. At the left is Andy at his repair bench, and at the right, a photo of Andy's DX shack. Yes, this is the DXer who has logged more FM stations than any other DXer we know of. For Andy's latest totals, consult his FM Scoreboard column; for the details of his DX shack, see below...



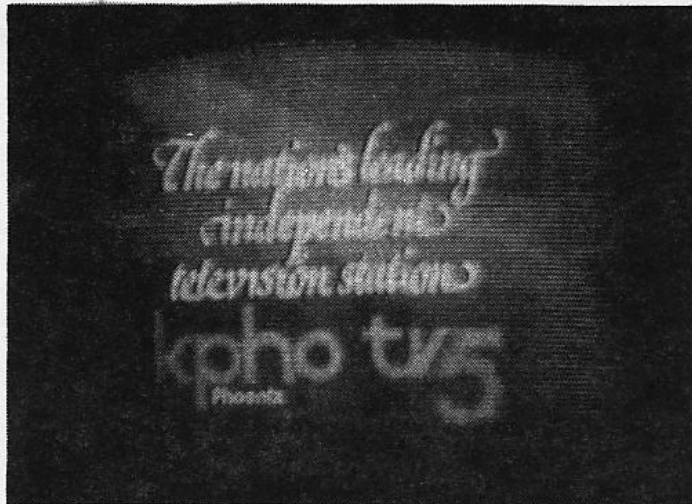
I'll let Andy describe it for you himself: "The shack in detail (from left to right, around the room) goes like this: You can see part of a typewriter and turntable. In the back right is a homemade speaker system. Front right is a Sony TC-6300 recorder. Center up is a Heath AJ-15 tuner; Scott LK-72-B master amp; Claricon 36-350 (which I use only as a preamp); and a Wellensak recorder. On the left is another Wellensak. Above that to the right, mounted on the panel is a switch and pilot light for SCA. Left of that is a CDE AR-33 rotor control for the FM antenna. Above is a Blonder-Tongue UHF converter, and on top is an Alliance U-100 rotor control for the V/U antennas. Next to that is the left speaker system. Above the Zenith TV are about 40 boxes of recording tape (but only 4 of them are full of DX). ('Only' four? - jja) On the bottom is a clip-board and that's my FM log!" (And we know that's full of DX, hi - jja)



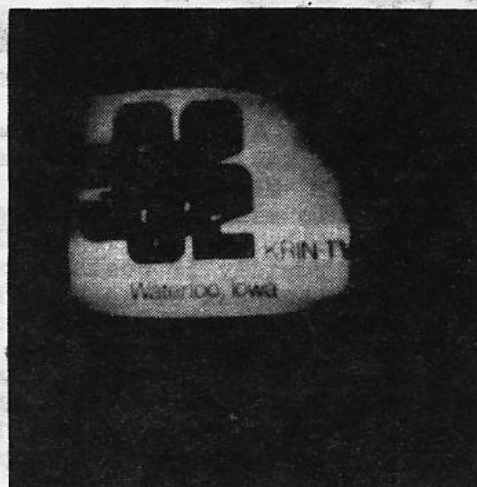
KFMB-10 San Diego, CA
245 mile trope (JP)



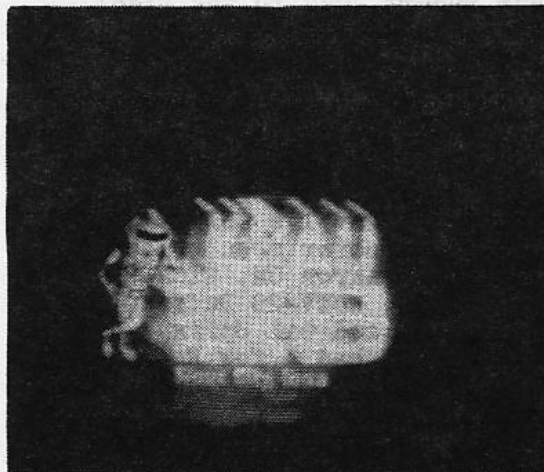
KYTV- 3 Springfield, MO
Es (RW)



KPHO- 5 Phoenix, AZ
Es
6/20/75, 0959 CST (GH)



KRIN-32 Waterloo, IA
510 mile tropo (DE)



KCAU- 9 Sioux City, IA
540 mile tropo
8/15/71, 2230 CDT (JG)



WBGU-57 Lima, OH
300 mile tropo (PT)



KOTA- 3 Rapid City, SD
Es 6/16/76, 1800 PDT (FA)

My thanks to Andy Bolin for this month's feature material, and to all our contributors:

- JP = Jim Pizzi, Orcutt, CA
- RW = Robert Williams, Twin Falls, ID
- GH = Glenn Hauser (photo taken at Enid, OK)
- DE = Doug Everitt, Enid, OK
- JG = Jim Gould, Kokomo, IN
- PT = Paul Traska, Buffalo, NY
- FA = Frank Aden, Bend, OR

73 and good DX, *Jim*

EASTERN TV-DX

Bill Thompson
1907 Seneca Street
Buffalo, NY 14210

March 1977

TV-DX from the Northeastern U.S. and Eastern Canada

The Winter of '77 has made it into the records as one of the most severe and unusual in the history of eastern North America. Since weather experts in the U.S. have termed it "the coldest winter since the founding of the Republic," you might even say that some of us have been experiencing the worst TV-DX in two centuries! Many TV DXers may feel that a new Ice Age is upon us; we advise you not to sell all your DX gear and flee to the equator just yet! Our DX "season" will start coming to life next month, hopefully. Tropo conditions will improve rapidly if weather patterns begin to show signs of returning to normal soon. As most of us know by now, it's not only tropo that's been almost nil this winter--auroral activity has even been below normal, and only a small amount of E-skip has been evident, with a bit of activity toward the end of January. One or two openings may have been fairly good in various Northeastern areas, but reports are lacking. As you might expect, mid-winter Es activity really hasn't been notable until you reach more southerly latitudes. Let's hope that things start to pick up in the next few months!

Attention TV-DXers in the CENTRAL and SOUTHERN Report Areas: Starting in May, the CENTRAL TV-DX and SOUTHERN TV-DX columns will be combined into a single EASTERN TV-DX column. After the deadline for the April VUD, your reports should go to the address at the top of this page. VUD editor Clarke Ingram will have more details for you elsewhere in the publication. Some states in the CENTRAL and SOUTHERN areas will be reporting to the WESTERN TV-DX editor after the April VUD also; please make sure your report goes to the right editor--sending it to the wrong place only causes delays that waste time and club funds. By all means don't forget to report your DX. Anything you can contribute is welcome, however often you wish to report. Some WTFDAers need to see more loggings to complete research on propagation, so your DX catches can serve a very useful purpose when published in the VUD. Please report!

David Leibold Box 279 Blyth, Ontario N0M 1H0

"Here is a report of my DX activity. My main catches involve UHF tropo. This past summer, I was able to get UHF stations I've never seen before. I got stations such as WKAR-23 East Lansing MI, WAKR-23 Akron OH, WXON-20 Detroit MI, WEYI-25 Bay City MI, WVIZ-25 Cleveland OH, WUTV-29 Buffalo NY, WKBN-27 Youngstown OH, and Global repeaters Cottam 22 and Oil Springs 29. Before WTFDA, I could hardly receive a UHF station. I had a few Es catches, one was from WPBT-2 Miami FL (that's about 1200 miles!). I saw their logo at noon over interference that made the picture flutter in and out. I think I got a few unIDs, too. My receiving system isn't all that great actually (the tower is a fair size and there's a two-transistor antenna preamp). The antenna line is coax with 300 ohm conversion wall-plates. The antenna is a VHF-FM array. This is why I can only get the lower UHF channels, if I can get them. One notable tropo came with WKBK-11 Alpena-Oscoda MI."
(Thanks for the report. Hope to hear more from you -bt)

Bill Thompson 1907 Seneca Street Buffalo, New York 14210

October	December	January
11 Es 2105 unID-2 CCI	5 Tr 1930 WEYI-25 MI	2 Tr 2154 WFMZ-69 PA
17 Au 0300 weak to ch 6	WKAR-23 MI	Allentown
21 Es 2245 unID-2 hvy CCI	WUHQ-41 MI	WLVT-39 PA
25 2100 lite CCI ch 2	plus others	W6JAB-63 PA
26 2134 hvy \emptyset CCI ch 2	to 400 mi W.	+ many others
27 0144 unIDs to ch 4	12 0100 signs of big	29 Es 1330 WPBT-2 FL
0208 WSB-2 GA	opening just	WEDU-3 FL
	starting to	1400 WBTW-3 NC
<u>November</u>	end--missed it!	1650 KFDX-3 TX
8 Es 2300 lite CCI on 2		1829 KBTX-3 TX

It's been a lousy winter for me DXwise, and my antennas haven't done much better. In the wee hours of the 26th of January, wind gusts to 85 mph totalled my UHF dish. VHF antennas had been in pretty bad shape since late December, but a series of unbelievable arctic-like blizzards did extensive antenna, roof, powerline, tree, window, you-name-it damage all over my neighborhood. Even those ground-plane verticals that CBers use came down! Close inspection of tripod tower revealed it withstood the wind fine, but a guy wire apparently snapped just below the rotor on the dish--allowing the winds to literally snap the mast like a twig. Won't attempt to put new dish up until late spring or early summer, hopefully mounting it on a higher tower (which will give the winds an even better shot at it, hi!).

Clarke W. Ingram 5201 Colewood Drive Pittsburgh, PA 15236 (412)892-2497

May (all times in report EDT) Es		1011 WPTV-5 FL 950		29 Tr 0303 CBLT-5 ON 230	
15 Es	1200 KATC-3 LA 975	1229	WEDU-3 FL 890	August	
	1208 WLBT-3 MS 800	1256	WDBO-6 FL 830	2 Es	2000 WESH-2 FL 780
June			WCIX-6 FL 1010	10 MS	0548 WCBS-2 NY 320
3 Es	1008 WTHS-2 FL 1010	1830	KXAS-5 TX 1100	11	0537 WESH-2 FL 780
	WTVJ-4 FL 1010	2135	WEDU-3 FL 890		0545 WCBS-2 NY 320
	WCIX-6 FL 1010	2201	WEAR-3 FL 830	Tr	0546 WJBK-2 MI 210
	1012 WPTV-5 FL 950		WUFT-5 FL 770		2300 CKGN-6 ON 200
	1016 WESH-2 FL 780	2330	WPTV-5 FL 950	12	0159 CFPO-9 ON 230
	1022 <u>Tele-Rebelde-3 CUBA</u>	2345	KFSM-5 AR 860		0222 WCPO-9 OH 260
	<u>Holguin</u> 1410 29	0031	WCIX-6 FL 1010		0313 <u>WTHR-13 IN</u>
	1103 <u>ICR6-3 CUBA</u> 1225	0133	<u>WCTV-6 GA</u>		<u>Indianapolis</u> 330
	<u>ICR6-6 CUBA</u> 1210		<u>Thomasville</u> 700	MS	0548 WJBK-2 MI 210
4	1138 <u>ICR6-3 CUBA</u> 1225	July		Tr	0600 WHIO-7 OH 230
	1157 <u>ICR6-6 CUBA</u> 1210	10 Tr	0115 CKGN-6 ON 200		0609 WDBJ-7 VA 220
	1205 WTVJ-4 FL 1010		0152 CFPO-9 ON 230	13 MS	0358 WCBS-2 NY 320
	WPTV-5 FL 950		0317 CHCH-11 ON 210		0545 WSB-2 GA 520
	1328 <u>WDBO-6 FL</u>	19 Bs	1203 WEAR-3 FL 830		0547 WESH-2 FL 780
	<u>Orlando</u> 830		WJXT-4 FL 720	21 Es	0911 WPBT-2 FL 1010
7	1132 WLBT-3 MS 800		WPTV-5 FL 950		WTVJ-4 FL 1010
	1223 WPTV-5 FL 950		1216 WDBO-6 FL 830		0925 WEDU-3 FL 890
	1241 WEDU-3 FL 890		1230 WEDU-3 FL 890		0938 WPTV-5 FL 950
16	1804 WSAV-3 GA 590		WWL-4 LA 920		WUFT-5 FL 770
	1806 WDBO-6 FL 830		1300 WKRG-5 AL 810		0948 WCIX-6 FL 1010
	WPTV-5 FL 950		WCIX-6 FL 1010	Tr	1113 CKGN-6 ON 200
	1815 WEDU-3 FL 890		WDSU-6 LA 920	Bs	1159 WDBO-6 FL 830
	1833 <u>WCSC-5 SC</u>	24	1055 WPTV-5 FL 950	23 Tr	2136 CFPO-9 ON 230
	<u>Charleston</u> 530		1105 WEDU-3 FL 890		2149 CKGN-6 ON 200
	1930 WCIX-6 FL 1010		1108 WESH-2 FL 780	24	0203 WJBK-2 MI 210
	2125 WUFT-5 FL 770		WJXT-4 FL 720		0301 <u>CKVR-3 ON</u>
17 Tr	0215 <u>CBLT-5 ON</u>	25 Tr	0331 WJBK-2 MI 210		<u>Barrie</u> 270
	<u>Toronto</u> 230		<u>WSAZ-3 WV</u>	25 MS	0130 <u>WCVB-5 MA</u>
26	0615 WCPO-9 OH 260		<u>Huntington</u> 190		<u>Boston</u> 480
Es	1330 <u>ICR6-3 CUBA</u> 1225	MS	0446 <u>WBBM-2 IL</u>	September	
27	1045 WPTV-5 FL 950		<u>Chicago</u> 420	1 MS	0135 <u>KPRC-2 TX</u>
	WCIX-6 FL 1010	Tr	0502 CHCH-11 ON 210		<u>Houston</u> 1130
	1100 WEDU-3 FL 890		0650 WOAY-4 WV 200		0500 WCBS-2 NY 320
	1120 WESH-2 FL 780	26 Es	1122 KATC-3 LA 975		0533 WSB-2 GA 520
	1130 WPBT-2 FL 1010		1125 WUFT-5 FL 770		0536 WESH-2 FL 780
	WTVJ-4 FL 1010		1130 <u>KDFW-4 TX</u>	6	0149 <u>KAAL-6 MN</u> 690
	1200 WJXT-4 FL 720		<u>Dallas</u> 1060	7	0551 <u>WCBS-2 NY</u> 320
	WDBO-6 FL 780		WPTV-5 FL 950	Tr	0558 WHIO-7 OH 230
	1500 WKRG-5 AL 810		WCIX-6 FL 1010		0603 WXYZ-7 MI 210
	1528 WDSU-6 FL 920		1135 <u>ICR6-6 CUBA</u> 1210	MS	0632 <u>WAVE-3 KY</u>
	1600 KARD-3 KS 940		1138 WEDU-3 FL 890		<u>Louisville</u> 340
	<u>KOTV-6 OK</u>		1152 <u>KALB-5 LA</u>	AS	0957 <u>CKGN-1-22 ON</u>
	<u>Tulsa</u> 910		<u>Alexandria</u> 930		<u>Cottam</u> 250
	KFSM-5 AR		1206 WKRG-5 AL 810		1018 <u>WKAR-23 MI</u>
	<u>Ft Smith</u> 860		1224 <u>Tele-Rebelde-5 CUBA</u>		<u>Lansing</u> 290
	1609 <u>KCMO-5 MO</u>		<u>Santiago</u> 1460		1049 <u>CITY-79 ON</u>
	<u>Kansas City</u> 770	29 Tr	0202 CKGN-6 ON 200		<u>Toronto</u> 230
28 Tr	0535 WCPO-9 OH 260		<u>CKGN6-6 ON</u>	Log Totals: 168	
	0900 CBLT-5 ON 230		<u>Ottawa</u> 400		
Es	1011 WTVJ-4 FL 1010	MS	0245 WCBS-2 NY 320		

"The 1976 DX season wasn't all bad, though there were no super Es openings such as that of July 20, 1975 which netted me 14 new stations. It certainly ended with a bang: 8 new stations in the last few weeks, including 4 by MS! Severe CATV interference, lack of time due to college and VUD work, and what has seemed at times to be the worst QTH in the city have all hindered DXing since the middle of September, and will continue to do so at least until E-skip returns. The sudden and untimely death of fellow DXer Tim O'Malley on January 12 marks not only the end of a long and close friendship, but probably also the close of any serious DXing from Pittsburgh; without his hilltop DX location, nothing outstanding will likely be seen."

Harry J. Hayes Star Route Box 226c Gouldsboro, Pennsylvania 18424 (EST)

"I saw the first Es on TV since summer! Here it is:"

January

31 Es 1445 KUSD-2 Vermillion SD "ID" Also, unID-3 educational.

"I sure wish an aurora or something would happen to liven up the winter."

CENTRAL TV-DX

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

March 1977

Deadline: 10th

For DXers in--IL, IN, MI, MN, OH, WI, and IA.

IMPORTANT NOTICE *****

Beginning with the May VUD, there will be no Central TV-DX column. It will be merged into the Eastern and Western TV-DX columns which will be handled by the present editors of those columns. The Mississippi River will be the dividing point. For DXers presently reporting, those in IL, IN, OH, MI and WI will report to the Eastern TV-DX editor and those in IA and MN will report to the Western TV-DX editor.

I would like to add further, that this idea was that of VUD editor Clarke Ingram and the end result is suppose to be more efficiency and convenience in the publication of the VUD.

Not much DX seen during the past month for obvious reasons: namely, cold weather.

Robert Zent; 1835 Fruit St., Huntington, In. 46750 EST

12-11 Tr 2155 Erie U's	12-11 Tr 2310 CBLFT-1-76(300)
Chatham U's(200)	2315 chs.35 & 54 from Erie(300)
Oil Springs U's	1-31 Es 1600 WBRZ-2(800)
London U's(260)	KATC-3(850)
CICO-28 <u>Tent.</u>	1630 KBTX-3(940)
Cleveland U's(200)	1635 KMOL-4(1120)
WNEO-45(225)	KENS-5 "
2230 WAND-17(200)	(MUF into FM band
Peoria U's(220)	momentarily)
<u>KTSB-27</u> (510)	1650 KPRC-2(975)
2235 Unid-70; to WSW, CBS.	
2300 Detroit, Chicago, Cleveland	
and Akron U's snowfree.	

"Huntington CATV went into operation several weeks ago and already I'm getting severe QRM leakage on channels 2,3 and 4, often making them useless for DXing."

Paul Gaines; 15920 Puritan St., Detroit, Mi. 48227 EST

12-10 Tr 0136 WDWK-13 WV(280)	1-4 Ms 0425 WWL-4 LA(940)
1-6 Tr 0150 " " "	1-5 Ms 0315 KOA-4 CO(1125)

Also, WCBS-2 New York seen nearly every day, + many unideds.--wd.

Buck Battin; 4305 Pitt, Duluth, Mn. 55804 CST

1-1 Es 1032 at 35Mhz	1-5 Tr 1217 WHLA-31(210)	1-23 Tr 0030 WBAY-2(255)
1923 " "	WPNE-38(255)	WJMN-3(250)
2048 " "	1-8 Es 0945 at 35Mhz	0045 KGLO-3(260)
2205 Unided-2	1-12 Tr 1850 WHLA-31(210)	1-29 Es 0940 at 35Mhz
Tr 2245 WKBT-8 WI(210)	1-13 Es 1215 at 35Mhz	1515 <u>WSB-2</u> GA
WHLA-31 " "	1-14 Es 1148 " "	(1010)
1-2 Tr 0050 WJMN-3 MI(250)	1-20 Tr 2235 WHLA-31(210)	1708 WBRZ-2 LA
0055 WBAY-2 WI(255)	1-21 Tr 1222 <u>WXOW-19</u> "	(1145)
Es 1100 at 35Mhz	WHLA-31 " "	(MUF fading in
Tr 1328 WNMU-13(ex-WNPB)	1905 " "	and out)
Es 1540 at 35Mhz	WXOW-19 "	
1630 <u>WBRZ-2</u> LA(1145)	1-22 Tr 0100 WBAY-2(255)	
1708 Unid-4	1030 WHLA-31(210)	
1730 <u>KPRC-2</u> TX(1200)	1130 WNMU-13(225)	
1-4 Es 2010 at 35Mhz	1-23 Tr 0029 <u>WLUC-6</u> (")	

"How are you getting stations over 450 miles away in this perpetual 20-30 degree weather?(not very often--wd) The best I can do is about 250 miles and the signal is barely there. What kind of a system do you have?(I'll explain it to you in a separate letter--wd)

As for my ststem, I'm still improving it. I've added a third TV set...a Penny's blak and white 12-inch(which is really a Panasonic with a different label on it) Overall, it's the best set in my system. Curiously, it has the best pulling power in the higher UHF channels, but on the lowest UHF channels(20 and below) the pulling power of my 9-inch K-Mart seems better. (At least as far as I can

Battin; continued---
tell with the general lack of DX.)

I've tied all three sets to the UHF antenna with an amplified coupler (the 4.5 db gain doesn't hurt anything either.) I've ordered a CMA_Ub and a Finco 7' dish. There's no distributor here which can get me a P-7, so I wrote directly to the Finney Company. I should have everything before the snow melts off the roof this Spring. How much improvement should I look for in a P-7 over a Jerr-old JUP-4 which I use now? (It's difficult to say; it depends upon where you put it; e.i. how high above ground will it be and how high above surrounding trees, etc.--wd)

Here is my rather unexciting reception report for January...you'll note that the mid-winter Es some people have been enjoying hasn't shown up much around here. I've detected some at 35Mhz but the MUF₃₀₀₀ only got to channel 2 on rare occasions.

On behalf of all the high-frequency DX-ers in the northern tier of states, here is hoping this deep freeze lifts soon."(Amen to that--wd)

James H. Gould; R.R.#3, Kokomo, In. 46901 EST

12-3 Tr 1851 WAAZ-31 AL(410)	1-1 unided Es
12-11 Tr 0737 KMTC-27 MO(445)	1-26 Es 1755 Cuban palm tree tp on chs. 2,3&5.
1003 KBMA-41 " (458)	1800 WPBT-2 FL (1090)
1421 KTSB-27 KS(510)	1900 WPTV-5 FL (1015)
2220 WQLN-54 PA(338)	1-28 Es 1450 KPRC-2 TX (920)
2222 KHIN-36 IA(473)	1500 KGBT-4 TX (1230)
2235 K64-- IA	KRGV-5 TX (1210)
(PBS station)	1501 XEFB-3 NL (1312)
K66-- IA	2024 XEFE-2 TAMS(1200)
(repeating WHO-13)	1-29 Es 1300 WBRZ-2 LA (760)
K74CO IA(327)	1330 KATC-3 LA (793)
K76BZ IA "	1654 XEFB-3 NL (1312)
	1-31 Es 1750 Unided-3 to SW.

Log total: 585

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

1-22 Tr 2240 WMUL-33(498)	2-3 Tr 2137 Cleveland U's	2-7 Tr 2058 WKEF-22 OH (368)
2254 WIIL-38(348)	WUTV-29(445)	2101 WKYT-27 KY (473)
1-25 Tr 2131 KDNL-30(432)	2-7 Tr 2045 WOSU-34(395)	WLKY-32 KY (437)
2-1 Tr 1947 WOSU-34(395)	2048 WUTV-29(445)	WDRB-41 KY "
2001 WMUL-33(498)	2051 Cleveland U's	2131 KDNL-30 MO (432)
2149 KHIN-36(457)	2058 WMUL-33(498)	Log total: 661

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

12-11 Tr 0830 WOUC-44 OH	1-28 Es 1429 XEFB-3 NL	1-28 Es 1730 KPRC-2 TX
12-18 Tr 0830 WKYH-57 KY	KPRC-2 TX	1810 KIII-3 TX
12-19 Tr 0130 WOPR-62 MI	KRGV-5 TX	1815 KMOL-4 TX
CKCO-42 ON	1430 KGBT-4 TX	1859 XEFE-2 TAMS
CBLFT-40 ON	KIII-3 TX	1-29 Es 1100 WPBT-2 FL
12-22 Es 1645 WESH-2 FL	1432 ch.5; full c.b.	1129 WESH-2 FL
1649 WPBT-2 FL	1500 XHCH-2 CH	1130 WEDU-3 FL
1-26 Es 1455 ICR-2 Havana, Cuba	1729 KENS-5 TX	1200 WDIQ-2 AL
1500 WTHS-2 FL	KWAB-4 TX	1-31 Es 1529 WPBT-2 FL
WESH-2 FL	1730 KACB-3 TX	1530 WESH-2 FL
WEDU-3 FL		
WDEO-6 FL		
1505 ICR-5 Santa Clara, Cuba	"The ICR-5 Santa Clara t.p. approached 5555 on several occasions and was in for at least 4 hours. ICR-5 was far superior to ICR-2 which had considerable cci from WESH-2 and WPBT-2. This is the first time	
1758 " " " "		
1515 WPTV-5 FL		

that I've had the Cubans during the winter season. What is the correct offset for KSD-5 St. Louis? Zero?(Station Guide says minus--wd).(A word about WMAQ-5; they are listed as minus in Station Guide but are actually zero offset--wd). What is the correct offset for WHRM-20? Plus?(Yes, they are the same offset as WXON-20 and WICS-20--wd). KOZK-21 Springfield, Mo. is minus offset as they are exactly zero beat with WHA-21(correct--wd)with no beat bars present. Have Spokane channels 2 & 4 exchanged network affiliations yet?(don't know--wd)"

Michael L. Hogan; 9224 Cottage Grove Ave., Highland, Ind. 46122 CST

1-29 Es? Chs. 2,3&4. Did not really 2-2 to Tropo openings mainly to the north appear to be tropo, though there 2-5 but no new loggings. was some tropo activity.

WESTERN TV-DX

Doug Everitt
1710 W Maine
Enid OK 73701
Deadline: 10th

On the evening of February 8th, I received a phone call from Bob Jackson (WA5RBI), a local six meter ham, saying he had just talked to Dyer by 6m Es. Pat asked Bob to relay the message to me that he had seen Es through ch.13 on February 7th. According to Bob, Pat saw KABY-9, KELO-11, KSFY-13, and a ch.7 from MN (KCOM, I would suppose). On that same evening, the MUF reached ch.7 here in Enid, netting me a tentative WDAM from Mississippi, but nothing like what Pat saw. Richard Allen phoned to say he had seen a Mexican net 2 station on ch.7 that evening, also. Since the opening occurred after his report was sent, Pat's super catches won't appear until next time. My sincere thanks to Bob Jackson for relaying the info. I hope to get Bob into the club soon, and expand our reporting!

Because of very limited time this month, several reports, including Pat's regular report, will be delayed until next month. If I had more time, I'd prepare a full column this month, but things just won't permit. Be watching next month for Pat's next report, including that ch.13 skip!

Es dates and MUFs from reports arriving this month (and Pat's relayed message) appear below...

SKIP SKYROCKETS!

Date	December 19	20	21	22	23	24	25	26	28	29	30	Jan 01	02	03
# reporters	4	4	4	2	3	1	4	2	2	1	1	3	6	4
MUF at least	102.5	100.9	100.1	4	5	5	107.9	88.1	6	3	93.1	106.7	107.3	107.9

04	05	06	07	08	11	14	15	16	18	20	22	23	24	25	26	27	28	29	31
2	2	2	1	1	1	2	1	2	2	1	2	2	2	1	2	1	2	3	2
6	3	4	4	3	3	98.1	4	99.5	3	4	107.3	6	99.1	4	98.9	4	7	150	95.3

Feb 01	02	04	05	06	07
2	2	1	2	2	3
6	4	90.5	107.9	107.1	13

NOTICE: Anyone who was in on the super hi-band opening of February 7th is encouraged to report to your TV DX editor!!

Jim Pizzi, 300 Park, Orcutt CA 93454 (PST)

<u>November</u>	25 Es 1722 KENW? 3 NM	02 Es 1823 KENS 5 TX
23 Es 1900 KMID 2 TX	1728 KENS? 5 TX	1830 KMOL 4 TX
1901 KWAB? 4 TX	1730 KMID 2 TX	1857 KTVY 4 OK
2002 XEPM? 2 CH	1730 KPRC 2 TX	1858 KOCO 5 OK
<u>December</u>	1746 XEPM 2 CH	1900 KARD 3 KS
19 Es 1831 YSB? 3 EIS	1747 KTXT? 5 TX	1900 KAMR 4 TX
tr new Fresno TV @ 2031	1834 XHI 2 SON	1902 KTVC 6 KS
25 tr 1323 KBHK 44 CA	<u>January</u>	1959 KNOP 2 NE
1327 KTXL 40 CA	02 Es 1738 XHJMA? 3 CH	06 Es 1811 XHQ? 3 SON
1327 KMUV 31 CA	1747 XHI 2 SON	
Es 1721 XEPM/XHCH? 2 CH	1804 KMID 2 TX	

John Phillips, 4559 Downing Court, Pleasanton CA 94566 (PST)

Equipment: Zenith 1975 Chromacolor II, Channel Master 3617 and 4248 antennas, CDE AR-40 rotator at 60 feet above ground, CM 0040b and 0071b preamps.

September 1976	November 1976	29 Es
12 tr 1130 KEYT 3 CA 247	21 tr 1330 KJTV 17 CA 239	0930 KFDX 3 TX 1337
1130 KCOY 12 CA 218	1330 KERO 23 CA 239	0930 KMID 2 TX 1183
<u>October 1976</u>	1330 KBAK 29 CA 239	1000 KENW 3 NM 1070
04 tr 0700 KHJ 9 CA 318	<u>December 1976</u>	30 tr 1430 KJTV 17 CA 239
0730 KECC 9 CA 490	13 MS 0515 KBCI 2 ID 516	1430 KERO 23 CA 239
06 tr 1230 KRCR 7 CA 205	0530 KOMO 4 WA 709	1430 KBAK 29 CA 239
1230 KIXE 9 CA 205	<u>January 1977</u>	1435 KIXE 9 CA 205
	03 MS 0530 KCKT 2 KS 1243	1437 KRCR 7 CA 205

Don't have all that much time for DXing; hope to contribute to the club in other ways, such as sending in TP photos and Photo News photos. DX here in California is not too plentiful, but for what it has to offer, Pleasanton is a good reception spot. 73, John (thanks for the report, John, and welcome! John also sent a list of stations received fulltime, which will appear with his next report, possibly--de)

John Anderson, Box 186, Lowe Farm MB ROG 1EO (204) 746-8887

Equipment: Delhi 1057 57-element VHF antenna @64', CM 0059 amp, CM traps, 12" Panasonic b&w set. (I accidentally left out John's October tropo loggings, Jan VUD--de)

October 1976	December 1976	02 Es
01 tr 1130 KELO 11 SD 405	31 Es noted on 2 at 0005.	2200 XEJ 5 CH 1300
1130 KSFY 13 SD 405	<u>January 1977</u>	2200 XEPM 2 CH 1300
1245 KTIC 10 MN 432	01 MS burst on 12 at 1423.	2330 KOAI 2 AZ 1215
1245 KEYC 12 MN 386	02 Es 2200 KDRC 4 TX 1300	Es on Jan 2 began at 2130
		with unIDs 2 & 5. I wouldn't

SOUTHERN TV-DX

John F. Combs
816 W. Harvard
Orlando FL 32804
(305) 843-4829
Deadline: 10th!

NOTICE... I have been informed by Clarke Ingram that beginning with the May 1977 VUD, Bill Thompson will be taking over an expanded EASTERN TV-DX column, which will include all states east of the Mississippi. Therefore, as of the first deadline of April 10, all reports from the Southern U.S.A. will go to Bill Thompson, 1907 Seneca St., Buffalo NY 14210. All reports for the Mar. 10 deadline will still go to me at the above address. I'm sorry to see a separate Southern reporting column bite the dust after only 4 installations, but it's true that the amount of reports in each of the 3 areas that Bill's new column will cover is probably not enough to warrant a separate column. Then again, this month the total number of reports sent to me reached 6, and this column has hit 3 pages for the first time.

Snow?? Yes, as many of you may already have heard, it's true that snow has fallen on Central Florida. Up to 1 and 2 inches accumulation fell in areas such as Tampa and Lakeland. For the first time ever, snow was reported as far south as Miami Beach and the Bahamas Islands!! We've had more nights with temperatures in the 30's and low 40's here than I can remember. Of course, I shouldn't complain. I'm sure in spite of all this that my Buffalo colleague on the Eastern column may seriously be considering a move here. (If he can get out of Buffalo, hi!)

E-Skip Chart:	Date:	Jan. 20	24	25	26	28	29	31	Feb. 1
# of reporters:		1	2	2	6	2	6	2	3
MUF at least:		2	5	4	95.1	5	5	5	4

I have never seen so many good openings concentrated toward the end of January! About midway through the month, many of us probably considered the season about over, but we were pleasantly surprised! The best day appeared to be the 26th, when the MUF topped 95 mHz and there was a report of double-hop Es from CA to FL! As for tropo, Ken Simon's loggings of Jan. 7-8 seem to have signaled an end to good activity for the month. I might put in a plug here for the AC-4990 pre-amp--many of the VAFI numbers on Ken's super tropo were in the neighborhood of 4444's and 5555's!

Ken Simon, 528 Pilgrim Rd., West Palm Beach FL 33405 (EDT)

The AC-4990 strikes again!

January

1 Es 1720 WNGE-2 TN 760	7 Tr 2330 WGIQ-43 AL 475	9 Tr 1050 WCJB-20 FL 260
1900 KDFW-4 TX 1040	2350 WYEA-38 GA 480	24 Es 1800 KPRC-2 TX 940
7 Tr 2305 WTCG-17 GA 560	8 Tr 0800 WJCL-22 GA 390	1915 KBTX-3 TX
2305 WMAH-19 MS 580	1033 WABW-14 GA 415	25 Es 1850+ unIDs-4
Biloxi	1033 WACS-25 GA 430	26 Es 1700 KTVI-2 MO
2305 WJPS-28 GA 495	1033 WECA-27 FL 360	1800 KMOX-4 MO
2305 WMAA-29 MS 710	1033 WETV-30 GA 560	"MUF near 95 mHz"
Jackson	1033 WYEA-38 GA 480	1925 KYTV-3 MO 1080
2310 WATL-36 GA 560	1033 WGIQ-43 AL 475	1930 KETS-2 AR T
Atlanta	1033 WHAE-46 GA 560	2030 KRIS-6 TX
2310 WHAE-46 GA 560	1040 WDHN-18 AL 440	28 Es? 1830 "Strong CCI o/ WPBT-2" (prob. Es--jfc)
2315 unID-39 "w/Love American Style" (may- be WYEA-38?--jfc)	"At this point, need I say more about the AC-4990??"	29 Tr 0830 WCJB-20 FL 260
2315 WAPT-16 MS 710	9 Tr 0650 WJCL-22 GA 390	Es 1945 unID-2 CCI
Jackson "w/MH2"	0650 W64AD rebr.WDBO	30 Tr 0830 WJCL-22 GA 390

"Not a bad month. No 2Es on the 26th like Brock Whaley (none here, either--jfc) but nice tropo and some interesting Es...unID ch. 13 on 1-1-77 matches up with WDTB's testing sched...on 26th, Es killed 2,3,4 even when pointed toward local! I had to miss Mary Hartman!" (¡Qué lastima!--jfc)

Brock Whaley, 447 Joyce Terr. N., St. Petersburg FL (EST) 2Es on bunny ears!
Loggings made on rabbit ears!

January 26: Es 1930+ "chs. 2,3,4 jammed up--many unID Latins"
"KYTV-3 noted over local...even on cable!"
KNBC-4 Los Angeles CA on 2Es!!

(For those who don't know Brock, he is a DJ at WFSO in Pinellas Park, and an avid ECB DXer. The latter tends to cut into TV-DXing time, I would imagine--jfc)

Randall B. Clark, Rt. 5 Dutch Ridge, Parkersburg WV 26101 (EST)

January

8 Tr 1923 CKCO3-42 ONT T	26 Es 1615 KTXP-5 TX	29 Es 1215 KMID-2 TX
20 Es 1535 WTHS-2 FL	1645 WESH-2 FL	1215 KLINE-3 NE T
1535 ICR2-2 CUBA	1645 KMID-2 TX	1245 WDIQ-2 AL T
22 Tr 2315 CBLFT-25 ONT T	1650 WEAR-3 AL	31 Es 1516 KETS-2 AR
2315 WKYT-27 KY T	1725 Cuba-3 (see below)"Cuba also seen on Ch. 5"	Little Rock
26 Es 1501 ICR2-2 CUBA		1600 KMID-2 TX
1523 KPRC-2 TX		1600 KPRC-2 TX
1552 unID-5 "w/Yoga" (prob. WUFT--jfc)	28 Es 1927 WPBT-2 FL	1700 unID-3 "suspect KARD or AIII"
1552 ICR6-6 CUBA	1927 ICR2-2 CUBA	
	1945 KMID-2 TX	

"...My great entrance into college has been delayed...we have been experiencing wierd Es openings...causing me to have 6 or more unIDs for Frank's column..." (Yes, all our unIDs from that opening on the 26th alone should keep Frank busy for awhile,hi...Randy, you Cuba on Ch. 3 w/20 kHz CCI to WSAZ is the Tele-Reb-elde xmtr at Holguin, ERP 27.5 kw, The Ch. 5 is most likely ICR2-5 in Santa Clara. They run 25.4 kw--jfc)

Glenn Hauser, WUOT, Univ. of TN, 232 C&E Bldg., Knoxville TN 37916 (CST)

August 1976

22 Es 1659 KCKT-2 KS	26 Es 1959 ???-4 Net-13	28 Es 1759 KENW-3 NM
1719 KENW-3 NM	"last Sept. Telegufa listed net-13 on 4 in Yucatan, but didn't say where and didn't mention 5... latest Telegufas no longer carry list of repeater channels ...opening lasted till 2050"	1859 ???-4 "El Paso seen on screen, but may have been Gas Co. ad on KOB! agn 1917; unID on 5
1759 KAMR-4 TX		29 Es 1129 WSYR-3 NY
1829 KMOL-4 TX		1129 CFCM-4 PQ
1859 KATC-3 AL		
1956 KMOL-4 TX		
1959 KENS-5 TX		

September-Dec.: "nothing!"

January 1977

26 Es 1945 XHY-3 YUC
1958 ???-5 Net-13
"a new Mérida outlet seems likely; any info?"

Where's all the tropo?

"You're all cordially invited to read an article by me, "DXing Earth", which is the cover story in the April 1977 Popular Electronics. It explores the problems and possibilities likely to face lunar colonists one day, in pulling in terrestrial TV and FM stations. (At least there are no height restrictions on towers there, but will guy wires hold when anchored to that lunar soil?--jfc) Now to catch up on my own earth DX, logged, however, from Knoxville...am beginning to wonder if any tropo exists here. (It sure is a rare commodity these days--jfc)

Wayne Fitzgerald, 718 Leesville Rd., Lynchburg VA 24502 (EST)

November 1976

27 Tr 1815 WUNL-26 NC	115	26 Es 1900 XHY-3 YUC	1402	29 Es 1830 KCKT-2 KS	1059
1820 WRDU-28 NC	98	Mérida		<u>February 1977</u>	
1830 WUNK-25 NC	159	29 Es 1800 KNOP-2 NE	1171	1 Es 1800 KTVY-4 OK	1015
Greenville					

"Greetings from the 'Hill City'. I am 32, married, 2 children, 1 cat. I operate a printing press for a local printing plant. Only other hobbies are CBing (KQN-7885--The Catbird) and horseshoe pitching. DXing equipment--1969 Zenith Color w/remote control (UHF tuner about shot), B-T rotor (also about shot), Kay-Townes All-channel yagi w/B-T pre-amp, used to photograph IDs w/Petri V-6 (now completely shot). Log totals 155 stns...27 states and D.C., 4 Canadian, a few Cuban, 2 Puerto Rican, and 2 Mexican...Will try to report more often..."

Larry T. Vogt, 7724 Harwood Pl., Springfield VA 22152 (E?T)

June 1975

27 Tr ???? W41AB VA	50	27 Tr ???? W14AA VA	7	29 Es 1455 KARD-3 KS
Ruckersville		Arlington(WNVT-		1600 KETS-2 AR
(WVPT-51 xltr)"QSL		53 xltr)"rcvd 20		1602 KTVI-2 MO
says 16 kw ERP at		min. after 1st put		
3850 ft. on Fork Mtn."		on air--7800 w ERP)		

"Just a short note with a few receptions to support the column...hope to improve set-up at this new house and report often!"

John F. Combs, 816 W. Harvard, Orlando FL 32804 (EST)

January

24 Tr 0637 WECA-27 FL 221	26 Es 1729 KYTV-3 MO 896	29 Es 1218 KIII-3 TX 978
Es 2052 XEZ-3 QRO 1315	1738 WMC-5 TN 675	1218 KMID-2 TX T
2052 XHAE-5 COAH T	Memphis	1228 KMOL-4 TX T
2102 XHD-4 TAMS 1135	1741 KOCO-5 OK 1059	1228 KBTX-3 TX T
25 Es 1827 X??-4 YUC ????	1742 KSD-5 MO 864	1604 CHNB-4 ONT 1216
Location unknown	1748 WDAF-4 MO 1048	North Bay
but listed in	1757 KMOX-4 MO 861	+some unIDs,
Teleguía as re-	1857 KAUZ-6 TX T	prob. Canada too...
lay of Net-13;	1900 KXAS-5 TX 967	31 Es 1515 unIDs-2-5 to
direction fits;	Ft. Worth	February 1600
Net-13 IDs seen.	1900 KFDX-3 TX 1078	1 Es 1740 unIDs-2,3 to
1850 XHY-3 YUC T	1902 KDFW-4 TX 967	1810;SS audio on 3
26 Es 1525 WTMJ-4 WI 1069	1959 KJAC-4 TX 767	5 Es 1930 unIDs-2-6 to
1525 WNEM-5 MI 1041	2000 KPRC-2 TX T	1945,when I had to go.
1528 WBEN-4 NY T	2027 KENS-5 TX T	7 Tr 2315 WECA-27 FL 221
1559 WPSX-3 PA 856	2027 KMOL-4 TX 1025	9 Tr 0643 WJWJ-16 SC 290
1603 WJBK-2 MI T	2030 KIII-3 TX 978	0643 WCWB-41 GA 318
1625 CKGN-6 ONT T	2101 KRIS-6 TX 988	0651 WYEA-38 GA 341
1712 KCMO-5 MO 1048	Corpus Christi	0656 WECA-27 FL 221
Kansas City	27 Tr 0720 WECA-27 FL 221	0657 WABW-14 GA 244

Love that E-Skip!

Quite a good month; in fact, I can't remember the last month I could claim 6 new Es loggings!!! Work, school, church, etc. really cut into DXing time, but then, this is a hobby! I can't cut responsibilities for the sake of DXing, that's for sure!!...Does anyone know if WMC-5 has changed calls yet? The last I heard they were supposed to change to WTVF, but I haven't seen anything in Broadcasting or Television Digest about it.....On Feb. 3, I revamped my UHF set-up. I figured I was losing a substantial bit of signal with the connector and baluns leading to the pre-amp, in addition to going from a 300-ohm antenna, to 75-ohms to the connectors, back to 300 into the amp, then a 75 output. I now have a single 4-bay at about 30 ft. with the AC-4990 and there is a definite improvement. I still am unable to get the dish up, so I want to get as much out of this temporary system as I possibly can. Also, the tuner on my 9" portable seems to be going, so I'm now using the 17" set. (John, it's WLAC-5 Nashville that changed to WTVF...)

If anyone is interested in obtaining photos of Florida stations, I'm willing to trade. Please write and let me know what pix you have available.

One final note. This is a good place to put in a plug for Doug Everitt, who will be compiling "Built-in" Au and MS records. I know for a fact MS has been logged and verified on bunny ears, but I'm not sure about Au. Why not send your candidates to Doug at 1710 W. Maine, Enid OK 73701. Any Tr record-breakers will be sent to me. If anybody feels industrious enough to compile "Built-in" FM records I would ask them to contact Clarke or myself. Peace be to you all, and God bless.

Send in your report-We need your support!

73,
John

WESTERN TV DX (continued from page 22)

March 1977

John Anderson continued...

have had the faintest idea what they were if I hadn't logged KDBC. It really warms the heart to see Mexico--especially with temperatures -20 to -35°F, hi! I'm pleased to see you're cutting out space-wasting unIDs and loggings under 200 miles. 73, John

***John Combs and I are preparing a listing of Built-In TV DX records via MS and Au propagation, as a companion article to the ones in print and in preparation for tropo records. If you have possible Built-In records via MS and/or Au, send them to me at 1710 W Maine, Enid OK 73701. If you have candidates for tropo records on Built-In antennas, continue sending them to John Combs, 816 W Harvard, Orlando FL 32804 for future updates. All contributions will be appreciated!

***Next month, be watching for Pat Dyer's super hi-band loggings, and much more!

CHOOSING A VHF RADIO RECEIVER

We have had a few notes asking us to recommend a receiver to cover the 30 to 50 MHz range. We hesitate to actually recommend a specific receiver, since we have tried only a few ourselves. But we can cover briefly what is available in this region, and set forth a few things that you should be careful of.

The 30-50 MHz range is sort of "in-between" radio spectrum. From 50 to 54 MHz is the amateur six-meter band. From 30 MHz down is the so-called shortwave spectrum. In most text books, VHF starts at 30 MHz and runs up to 300 MHz; then UHF is from 300 MHz up. Many of the same text books describe the 30-50 MHz region as "essentially local--groundwave--coverage limited to 25-50 miles." It might be noted that the same texts also say the same thing about the entire low band TV spectrum from channels 2 to 6--which are frequently affected by E-skip, MS, and tropo DX. The text books are on occasion not totally accurate!

DX reception notwithstanding, the FCC decided that the 30-50 MHz range was ideal for local base-to-mobile communications, and they assigned the entire region to this type of service shortly after World War II. So today you find police departments, the highway patrol, fire departments, oil drillers, tree haulers, and just about every type of two-way radio user now operating in this frequency range.

In your own local (ground wave) region, a receiver tuning this range will put you in touch with just about everything going on, from the delivery of Mrs. Smith's diapers to the riot down on the corner. When DX conditions exist, worldwide reception is possible and probable.

The 30-50 MHz listening craze caught on perhaps ten years ago, and has been accelerated in recent times by the boom in Citizens Band (CB) equipment (which is slightly out of our scope). Today, perhaps two dozen companies or so produce, import, and sell receivers for 30-50 MHz. Before Allied and others offered receivers in this range, you had to settle for either converted police radios, or the extremely expensive shortwave receivers such as the Hammarlund SP600 which tuned this range "as well as" the shortwave frequencies below 30 MHz.

Probably 99 percent-plus of all units operating in this range use FM or frequency modulation. The most conspicuous exception to this rule is the radio paging stations on 35.22, 35.58, 43.22 and 43.58 MHz. Most of these are still AM transmitters, but even here there happen to be some exceptions.

It is possible to tune in AM on an FM receiver, but it is difficult. The better the FM rx, the more difficult it is. It is easier to tune in on an FM receiver by tuning slightly off the station frequency for maximum audio intelligibility (this process is known commonly as "slope detection").

Because most of the transmitters in this range are FM, it follows that most receivers will be FM as well. In fact, if you are going to buy one of the many specialty receivers covering the 30-50 MHz band, you almost have to settle for an "FM only" model.

The receivers now offered are tube only, tube-plus-transistor, and fully solid state. When you have the choice, it seems foolish to buy anything not fully solid state in this day and age, considering the improvements made in solid-state electronics in recent years.

These receivers are available also as battery-operated-only sets, battery-or-110 VAC operated, and 110 VAC only. The battery-only sets tend to be the small, hand-held units; 7-12 transistor jobs. They usually have an "external antenna" jack, and come with a built-in antenna. Unfortunately, even the addition of an external antenna will not make this type of set perform like a full receiver; these are intended primarily for local reception up to five or ten miles. Their primary failing is in selectivity (the ability to tune between or separate strong local stations and find a weak one on a frequency in between), followed by their lack of sensitivity and finally by their lack of stability.

The battery-plus-110 VAC sets can be one of two extremes: the aforementioned battery-only set with a simple 110 VAC adapter, or the super-deluxe all-solid-state receiver that takes advantage of its non-tube design to give you portable battery-operated operation.

A good rule of thumb is that if the set has 12 or fewer transistors, it is primarily a portable set with poor selectivity and sensitivity.

Some of the most desirable features to look for in a receiver for 30 to 50 MHz are as follows:

- (A) Solid-state construction
- (B) A tuned RF stage
- (C) Three or more i.f. stages
- (D) A squelch circuit (to eliminate noise between stations)
- (E) Diode-regulated power supply
- (F) Tuneable model
- (G) 50 to 70 ohm external antenna jack
- (H) 2 watts or more of audio output power
- (I) 2 to 4 microvolt sensitivity or better for 20 dB of signal quieting

These features insure a full receiver; hook up an antenna, connect it to a power source, and you are in business as far as monitoring 30 to 50 MHz.

There are also available tuneable converters that tune the 30 to 50 MHz range, and which convert the frequency you are tuned to on the converter to a lower frequency (such as the AM table radio) a la the UHF TV converter that converts the UHF range to TV channels 5 and 6 on your TV set. However, these converters are not as common, as widely used and manufactured, or as readily available as they have been in past years.

The full receiver approach is the most satisfactory way to go if you want the entire 30 to 50 MHz region. The best buy, of course, is the least expensive unit that meets the criteria (A-I) listed above. The tuneable converter approach is a less costly proposition, assuming that you already have an AM table radio (or whatever) to connect it to.

The antenna is important too. Perhaps not quite as important as with television DXing...but still important. The smallest antenna that will give satisfactory reception is the $\frac{1}{4}$ wave ground plane, roof-mounted. It is omni- (all-) directional so you can put it up and receive stations from all directions. This is a 52-ohm antenna, and you inter-connect it to the receiver with RG-58/U if your run is under 100 feet and with RG-8/U if over 100 feet. The $\frac{1}{4}$ wave ground plane is about as much antenna as a pair of TV rabbit ears would be when mounted outside on the roof. So you can see that it is not a world beater—but adequate.

Some of the newer receivers available also cover the so-called high band region of 130 or 140 MHz to 174 MHz. This is the frequency region just under TV channel 7, and has just as many interesting operations as low band. In some sections of the country, all local police, fire, etc. work is done in this region, leaving low band to the highway patrols, sheriff and other non-local-government agencies.

Like TV channel 7, you will very very rarely hear E-skip in this high band region, and with a simple $\frac{1}{4}$ wave ground plane antenna, you probably won't get much tropo either. Remember that the ground plane is about as much antenna as a pair of rabbit ears would be on TV. The UHF radio region (450 to 512 MHz) is another breed of animal entirely, with the higher portion of the spectrum only recently coming into wider use; we won't attempt to tackle the subject here.

For a complete treatment of the nationwide NOAA VHF weather stations operating in the 162 MHz region, consult the March 1976 TEK-NOTES (available in a back issue or through the new WTFDA Reprint Service).

73, Bob Cooper, Jr.

WESTERN FM DX (continued from page 12)

March 1977

Steven C. Wiseblood, 707 Loma Way, Santa Maria CA 93454 (PST) (18 Jan- 13 Feb)

29 Es 1120 unIDs 88.1-107.5!	29 Es 1153 KQIP 96.9 TX Midland, auto, m
1130 KLaw 101.5 OK Lawton, K-Law, r	1154 KOYL 97.9 TX Odessa, nx
1131 KPAR 100.3 NM Albuquerque, ID, EL	1154 KSCR 95.7 NM Hobbs, k (Gr.Am. k)
1131 KLUR 99.9 TX Wichita Falls, k, ID	1201 KPAS 93.9 TX El Paso, p, Dyer St.
1133 KPLA 97.3 TX Plainview, SS, L	1212 XEQ? 92.9 DF Mexico City, L, SS
1136 KBID 92.9 TX Wichita Falls, r, Ae	1215 KPJH 94.3 TX Fort Stockton, auto m
1140 KRST 92.3 NM Albuquerque, "Crest"	1220 KSET 94.7 TX El Paso, constant EL
1145 KANW 89.1 NM Albuquerque, r, ID	1223 KTEP 88.5 TX El Paso, \$c, f/out

Despite all the loggings of 29 Jan., no new stations were heard, save for a possible XEQ, which would have been new if an Id would have been heard. By the way, incase you're wondering what Gr.Am. k means, its just one of my abreviations for Great American Country, which from now on, shall be abreviated GaC. All abreviations used for musical formats are those used in Bruce Elvings column, and are also used by the other FM editors. By the way, Dyer St. is a main thoroughfare in El Paso! 73's until next time!

C.C.I. UNIDENTIFIED DX

Frank Aden, Jr.
1535 NW Ithaca Ave.
Bend OR 97701
503-389-5488
Deadline: 10th
March 1977

MANY unIDs THIS MONTH!

Roy Horsley, Rt. 10, 169 Lakeshore Dr., Gadsden AL 35901 (1977 unIDs)

Wed Jan 26 ES ch 4 1810 CST--Woman reading letters to a man with him responding. Show's name was "Gracias Doctor". At 1830 XHY-3 seen.

ch 4 1915 CST--English made movie with video dubbed in spanish. 1920's high society drama. Slide for net-13.



ch 4 2015 CST--Guitar player. Slide with "este Mexico nuestro" and ad for "Cinema 13". Also seen on ch. 5.

ch 4 2040 CST--Id "En Television al estl o del 13". These all appear to be government owned cultural network (canal 13) but no up-to-date sheds available here for Mexico; anyone with sheds please check these out (FEA).

Robert Williams, 251 6th Ave. East, Twin Falls ID 83301 (1976 unIDs)

Tue Jul 6 ES ch 2 1713 MDT--In progress "Newswatch". Not KUTV, KTVQ, KBCI. PTA: Central US and Canada.

Sat Jul 17 ES ch 3 1330 MDT--"One Color Spectrum" ETV? KLNE? KENW? Sheds for KENW & KLNE are negative (FEA).

Thu Jul 29 ES ch 5 1513 MDT--"Gilligan's Islan". KSTP in at 1530, KHAS in at 1534. WOI? WOI checks (FEA).

ch 3 1852 MDT--"The Waltons" WJMN in at 1858. This is the regular central time network spot for this show except for WKZO and KTVO; KTVO is now a ABC station only (FEA).

Wed Aug 11 MS ch 3 1634 MDT--"Popeye" In progress.

Bill Draeb, Ellis St., RFD 2, Kewaukee WI 54216 (1976 & 1977 unIDs)

Mon Dec 13 MS ch 7 0416 CST--"Bonanza" Antenna east. No winter sheds here; please check your TV GUIDES for Bill (FEA).

Sat Jan 1 ES ch 4 1833 CST--"Lets Make a deal". Antenna WSW.

Doug Everitt, 1710 W. Maine, Enid OK 73701 (1976 & 1977 unIDs)

Thu Dec 20 MS ch 3 1533 CST--"Hogan's Hereoes" Antenna west.

Sat Jan 1 ES ch 2 1635 CST--Wildlife show, CBS logo seen but this is syndicated material. PTA: Western USA. KTVN? KNXT?

ch 2 1716 CST--Martin & Lewis movie. WESH tent. at 1705. PTA: GA, FL, SC etc.

Sun Jan 2 ES ch 2 1720 CST--Wildlife show. Tent. KDKA. Solid WCMH at 1718, probably not WDTN. PTA: Eastern USA and Canada.

ch 3 1726 CST--"Truth or Consequences" in with an ABC station. PTA: Eastern USA and Canada. CKVR? But who is the ABC?

ch 3 1845 CST--Old movie in English with Spanish subtitles. Eastern ES fading out, soon to be replaced by CA, MT. ID. PTA is unknow but suspect eastern direction.

Sat Jan 8 ES ch 3 1705 CST--"Wild Kingdom". PTA: Western USA.

Wed Jan 12 MS ch 3 1631 CST--"F Troop" Antenna SE.

Fri Jan 14 ES ch 3 2135 CST--"Gunsmoke" PTA: Western USA. KID?

Sun Jan 16 MS ch 3 0857 CST--"Bewitched" or more likely ad for same. Antenna west.

ch 3 0946 CST--"Jabberjaw" cartoon on ABC's Sunday sked. PTA: Western USA. KEYT? KTVK?

Mon Jan 17 MS ch 3 0847 CST--"That Girl" PTA: Eastern USA.

ch 3 0946 CST--"Mike Douglas" with Gabe Kaplan co-hosting. Antenna East.

John Combs, 816 W. Harvard, Orlando FL 32804 (1976 unIDs)

Mon Oct 25 MS ch 2 0543 EDT--Resolution chart. PTA for this and all loggings through Oct. 30 is Eastern USA.

ch 2 0546 EDT--unID 3/4 CB.

ch 5 0636 EDT--ID 3/4 CB. ID had two parts to location; i.e. "Kansas City", "New York", etc. Chief suspect is WNEW with KCMO, KSD, WNEM.

ch 5 0644 EDT--unID 3/4 CB.

Tue Oct 26 MS ch 3 0541 EDT--unID 3/4 CB.

ch 6 0600 EDT--unID 5/8 CB; i.e. black section larger than a 3/4 CB yet smaller than a 1/2 CB. What station runs this unusual pattern?

John Combs continued.

Tue Oct 26 MS ch 5 0628 EDT--Devotional slide. Church window or something like it in left side. On right three line of print with bottom "life".

Title may have been "Words of Life" or something like that.

ch 5 0630 EDT--ID slide with large "6" in middle! There are no channel 5 satellites of channel 6 originators to my knowledge. This leads to the possibility, however bizzare, of a translator. Logo style to right--does anyone recognize it? Since channel knob is poorly calibrated this may have been on ch. 6. Logo appears to be like KVIQ but without call letters.



- Fri Oct 29 MS ch 3 0536 EDT--S/On news by YL.
 ch 6 0552 EDT--Color wheel TP. Remote possibility is WCIX by backscatter but Simon says they are not on this early.
- Sat Oct 30 MS ch 5 0727 EDT--ID 3/4 CB with ID in lower right as opposed to the Oct 25 logging in which the ID was in the center of the black bar.
- Sun Oct 31 MS ch 2 0053 CDT--"Monty Python's Flying Circus". Chief suspects WMAB, KETS. Members please check your TV GUIDES--either of these would be a new logging. PTA: Central USA.
 ch 2 0112 CDT--(Time change took place at 0200 local time)
 0112 EST Talk show with Sammy Davis, Jr. and Charo. This is most likely Davis' syndicated show. PTA: Central USA.
- Wed Nov 17 MS ch 5 0547 EST--News slide with world map on top and writing below. PTA for this and others on the 17th; Eastern USA.
 ch 5 0650 EST--RETMA-TP.
 ch 5 0658 EST--Appeared to be a feature on synchronized swimming or water ballet.
- Wed Nov 24 ES ch 4 1715 EST--"Merv Griffin" with Charo as one of the guests.
 ch 4 1715 EST--"Dinah". PTA for this and one above: Eastern & Central USA Canada.
- Tue Dec 28 ES ch 4 1603 CST--"I Dream of Jeannie". PTA for this and all Dec 28 loggings: Midwest USA.
 ch 4 1607 CST--"Bewitched"
 ch 4 1610 CST--"Partridge Family". Suspect WDAF which was IDed later in opening.
 ch 3 1619 CST--"To Tell the Truth"
 ch 4 1705 CST--"Hogan's Heroes"
 ch 4 1707 CST--"Ironside"
 ch 5 1710 CST--ABC Evening News 1/2 hour earlier than shown in Eastern zone. Who?
 ch 3 1714 CST--"Flintstones". Offset minus.
 ch 3 1724 CST--Western Movie
 ch 4 1724 CST--Old "Dick Van Dyke Show" At 1725 ad for "Film Festival" "... at 11:30 here on channel 4".

Ronald Ginardi CET, 306 N. Cayuga, Frontenac KS 66762 (1976 unIDs)

Sun Jun 6 ES ch 5 1834 MDT--ID slide of "XYZ TV" with bulff in bachground. FM and TV in from Western Colorado. I suspect this to be KREX as KREX also has sats of KREY and KREZ (FEA).

Sun Dec 31 ES vh 3 0143 CST--Record promo giving Yakima WA address. KXLY in at 0256. This is KLEW who is a semi-sat of KIMA-29 in Yakima.

FM unIDs

Doug Everitt, 1710 W. Maine, Enid OK 73701 (1977 unID)

Sat Jan 15 MS 100.7 1030 CST--Ad; "...Halls. It is a small apartment complex on North Market..." PTA: Eastern USA.

Identifications

Dec 1976 TV-CCI, John Combs, last line ch. 2, probably Chicago. WBEM-Bill Curtis is a newsman with them. From Mike Hogan.

Jan 1977 CCI, Robert Williams, 1630 MDT, Jul 29, ch. 3, listing Midtown, this is KARD as there is a Holiday Inn Plaza and a Holiday Midtwon in Wichita. From Ron Wing.

73's until next month, Frank

Memorabilia

March 1977

Robert J. Williams
251 6th Avenue East
Twin Falls, Idaho 83301
Phone: (208) 733-3621
Deadline: 10th of month

This month, MEMORABILIA again visits the 1950s for another look at TV DX as it was 20 years ago. Also, a photo of old WDTV-2 Pittsburgh PA (now KDKA-2). Many thanks to John F. Combs of Orlando FL for the info on TV DX of 20 years ago, and to Clarke W. Ingram of Pittsburgh PA for the photo. The photo was originally taken by Bob Seybold in the mid-1950's.

"20 YEARS AGO IN TV-DX"

-Sporadic E-skip made news for two DXers. Doris Johnson, Longview WA, received both 2Es and high-band Es to-wit: WLWD-2 (2015 mi.) (now WDTN-2), KYW-3 Cleveland OH (2080 mi.) (now WKYC-3), and KFMB-8 San Diego CA!!! Percy Cox, Visalia CA, also received some Es on high-band in the form of XEX-7!

-TV viewers in the small community of Elvington, England were bothered American voices booming in over their television reception. Officials of the Post Office said that the voices came from United States police and taxicab transmissions. (Elvington, England, eh, Bob? --CWI)

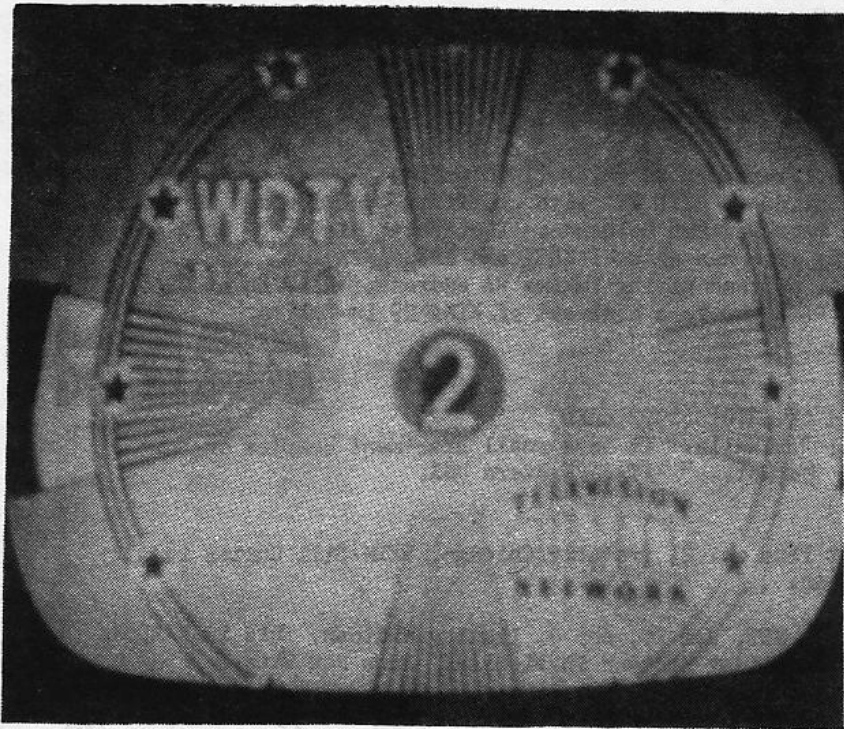
-There were many unID stations listed in the CCI column, but many DXers expected miracles with the scanty information they sent in on their unIDs. Examples were:

Jan. 3---8:38AM---Man standing with microphone

Jan. 17---10:20AM---People seated around table

(This reminds all DXers that in order for a report to do any good as far as getting an unID station IDed or getting a QSL from any station (ID or unID), sufficient information (such as date and time of reception sufficient program details as to content, etc.) must be supplied by the DXer in order for the station personnel to have enough information (that is, sufficiently "hard" evidence) to check against their station log; or the CCI editor to check against a TV Guide listing.---RJW)

-At the beginning of 1957, there were about 516 TV stations in the United States, and 327 outside the United States. There were an estimated 56 million television receivers throughout the world.



WDTV-2 (now KDKA-2)
Pittsburgh PA

(TP photo originally
taken by Bob Seybold
and enlarged by
Clarke W. Ingram)

Please note that the
deadline for material
for MEMORABILIA is now
the 10th of each month.
All material for this
column MUST be received
by that time, in
order for them to appear
in the following
month's VUD.---ed.

73a, P.O.I



VHF UTILITY DX

Pat Dyer
5315 Silvertip Drive
San Antonio, TX 78228
Deadline: 10th of month

MARCH 1977

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

<u>7-30:</u>	1103, KK9268/ N50657L	166.25	vic Wheaton, MD (WAVA Sky Watch, Cessna 150; 5 watts)
<u>8-13:</u>	2140, N5005L	134.0	ov Millville, NJ (Michael A. Mulshine; Mooney M20, 1-engine, 4-seat; 7000 feet)
<u>28:</u>	1745, N99RM	118.6	50 mi ne Westminster, MD (Robert L. Mc Keever, Jr.; Beech 65, 2-e, 8-s, 9000'; 20w)
<u>9-18:</u>	2048, N8168Y	119.7	5 mi n Annapolis (Lewis Rail Service Co.; Piper PA-30, 2-engine, 4-seat)
<u>10-16:</u>	1603, N35553	122.8	vic Cambridge, MD (Aberdeen Proving Ground Flying Club; Cessna 172, 1-e, 4-s; 5 watts)
<u>23:</u>	1623, N58510	128.1	ov Salisbury, MD (Francis J. Rocca, Jr.; Cessna 182P, 1-engine, 4-seat)
<u>30:</u>	2016, N5794M	127.2	vic Easton, MD (Franklin S. Gregg; Cessna 310P, 2-engine, 6-seat; 7.5 watts)

My loggings, Allied A-2586, Hallicrafters SX-62 (with International Crystal model SAX-1 preamp and Archer V-100 at 20' with rotor for VOR logging), Hammarlund SP-600-JX-10; two 30' long wires at 12' (ne-sw & nw-se runs); Swan 250 with Ameco nuvistor preamp and 3-element horiz CushCraft beam at 20 feet for 50-MHz logging; All Es unless noted; * P2 with maximum daily peak noted; new underlined, GMT used

<u>1-11:</u>	2110, 30.42(Can)*	<u>24:</u>	2242, KIN 645	2:	1905, S Die-a
<u>12:</u>	1925, 30.30 *	<u>28:</u>	0010, OK City		1909, L Ang-a
<u>14:</u>	0333, KOE 257		2120, L Ang-a	<u>3:</u>	2140, 35.28 *
	2230, 32.000 *		L Ang-b	<u>5:</u>	1845, 30.30 *
<u>15:</u>	0124, L Ang-a	<u>30:</u>	0025, OK City	<u>6:</u>	2105, 30.42(Can)*
	0125, KFL 943		0038, KFL 943	<u>7:</u>	1910, L Ang-b
	2250, 35.28 *		1800, 32.96 *		1913, S Die-b
<u>16:</u>	2220, 30.30 *	<u>31:</u>	1815, 35.28 *		2000, 30.30 *
<u>18:</u>	2055, 32.96 *		1936, KQC 877	<u>8:</u>	0125, "MYS"
	2130, L Ang-b		1959, KQI 316		1955, hi-31 US ne*
	2133, KOE 257		2035, KQA 459		2055, 32.96 *
<u>20:</u>	1529, KGA 805	<u>2-1:</u>	1540, 30.30 *	<u>9:</u>	2047, 35.28 *
	1853, KIM 905	<u>2:</u>	1901, L Ang-b	<u>11:</u>	0220, KH6IAA (3Es)

KFL 943	35.58	Las Vegas, NV *	KQI 316	33.90	Cincinnati, OH-fire
KGA 805	35.22	Pittsburgh, PA	L Ang a-	35.38	Los Angeles, CA
KIM 905	35.22	Charlotte, NC		b-35.46	(mobile phone)
KIN 645	35.22	Miami, FL	OK City	35.58	OK City, OK **
KOE 257	35.22	Phoenix, AZ	S Die	a/b	San Diego, CA-mp
KQA 459	35.42	Lima, OH-mp	"MYS"	108.2	Mystic, KY (VOR)
KQC 877	35.58	Cincinnati, OH	KH6IAA	50.11	Hilo, HI (amateur)

except as noted, pagers tone message and ID, * voice ID-tone message
** voice message & ID

3Es to KH6 first since Nov 1970 on 50-MHz.

WWVH 20-MHz outlet joined its silent WWV brothers on Feb 1. Reactivation of any now-closed outlets may be possible if sunspot activity warrants.

The predicted Swiss smoothed sunspot numbers are now on the upswing, so Cycle 21 is now underway (and from recent observations here, it is off to a very healthy start).

73, Pat WA5IYX

ANOTHER NEW UHF AMP...Member John Phillips drops us a line about the new #7475 UHF preamp from Channel Master, which with power supply runs about \$70. According to John, the 7475 unit has 27 dB gain and 4-5 dB n.f. from ch. 14-50, and 23 dB gain and 6 dB n.f. from ch. 51-70. However, drawbacks appear to be a very low input capability (5000 microvolts) and only a 75-ohm input at the preamp head. Members' comments and experiences welcome! —CWI



Post Office Box 202 - Whiting, Indiana 46394
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The WTFDA is governed by a five-man board of directors, now composed of Morrie Goldman, Mike Hogan, Clarke Ingram, Pete Oprisko, and John Zondlo. ANARC representatives are Morrie Goldman, Clarke Ingram, and Pete Oprisko.

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