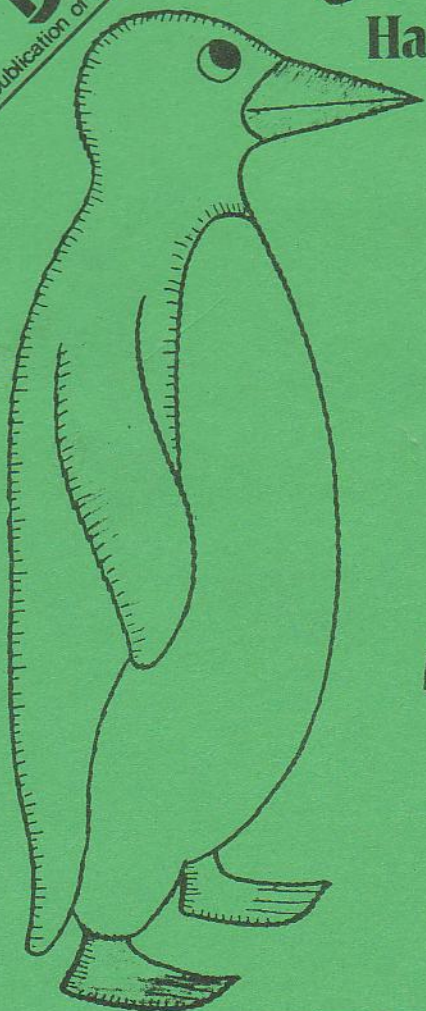


**VHF-UHF  
DIGEST**  
the official publication of the Worldwide TV-FM DX Association

**DECEMBER 1978**

*Merry  
Christmas  
&*

**Happy New Year**



# From The Staff:

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

FROM THE EDITOR: Over the past few months I have found the position of Editor-in-chief to be more and more intolerable. I have concluded it is no longer worthwhile to continue as editor with the current situation.

As can be implied from my comments in previous issues the lack of support in the technical area is a factor for my resignation but it is not the complete reason.

There are additional factors for my decision. The first being the lack of support for the projects I proposed by both the general membership and the Board of Directors.

I do wish to thank the few of you who have given your support and also to thank all of the column editors for a very fine job.

Bill Thompson will be the WUD's new Editor-in-chief starting next month. I hope the club can give him more support than it has given to me.

FROM THE STAFF Continued on page 42

73

Frank E. Adams



## TABLE OF CONTENTS

MAILBOX: VHF DXing on the rise in Japan!.....	3
FCC FM: Sales of FM SuperSnooper doing well.....	6
FCC TV: Total on air now 993!.....	8
WTFDA NEWSWIRE: "Network DXes Network".....	9
INTERNATIONAL NOTES: Europe TV is coming in!.....	10
MEMORABILIA: TV firsts in Florida.....	11
PHOTO NEWS: Battin's 900 ml catch of WKPT-19.....	12
QSL CORNER: 27 QSLs this month.....	14
IN SEARCH OF PSB: In search of parallels.....	15
VHF UTILITY DX: Info on BEC TV.....	17
EASTERN TV DX: Good out-of-season Es reported.....	23
WESTERN TV DX: Bill Block says goodbye, editor now needed.....	29
SOUTHERN FM DX: Some Es noted in October.....	30
NORTHERN FM DX: Lost column arrives!.....	32
KOET QRM: Who says TV interference cleaned up?.....	39
WATERLOO EFFECT: Receiver interference problems.....	40
A STANDARD TESTING & RATING SYSTEM FOR FM DX TUNERS.....	41
FM COVERAGE MAP BY BRUCE ELWING.....	43



# MAILBOX

John Zondlo  
6617 Maryland  
Hammond, IN 46323  
(219) 844-8694  
Deadline: 10th

### New Members:

Frank Balchick	700 Leeds Ave.	Monessen, PA 15062
Michael Lauman	1855 Lakeland Drive	Jackson, MS 39216
Tanio Sugihara	1107-1 Enya-Cho	Shimane, 693 JAPAN
	Izumo-shi	
Wayne Thompson	Route 2, Box 156	Silver Springs, FL 32688

### Renewals:

H.W. Battin, Tom Bishop, John Callarman, Vernon Eaton, Perry Ferrell, Robert Foxworth, John Jefferson, William C. Palmer, Lee Prescott, W.T. Ryan, Marvin Shults, Robert Sowinski, Jim White, Thomas Yeazell, Tom Yingling.

### Address Changes:

Doug Everett-No. 2 Highpoint Park-2700 N. Van Buren-Enid, OK 73701  
Rod O'Connor-USCG Base-259 High St.-S. Portland, ME 04106  
Joseph Smith, Jr.-196 Ackley Ave.-Johnston City, NY 13790  
Alphonse Tobia-7603 Linden Court-Newark, CA 94560

### Rejoins:

Jari Pitkanen-Kattelus-10360 Mustio, FINLAND

### Renewals Due in January:

Robert Baxter, Randall Clark, Wayne Covington, Bruce Goldsen, Carlton Howington, Rod Luoma, Clint McAuliffe, L. Donald Richard, David Rogers, Paul Traska, Morgan Williams.

New member MICHAEL LAUMAN has quite an array of DX gear. His shack features a Sony KV-2141R TV, 2 stacked Channel Master 3617's at approximately 60', a Channel Master 4251 parabolic dish, 2 CM rotors, a 30 db CM VHF amp, a 21 db CM UHF amp, a McIntosh MR78 tuner, and 2 stacked 4408 FM yagis. Not bad, eh?

TANIO SUGIHARA is one of many Japanese joining WTFDA. He will explain why in Tidbits. Tanio is also a member of DSWCI and ISWL.

Various publications introduced WAYNE THOMPSON to WTFDA. Wayne is a master builder of antennas, as he'll tell you in Tidbits.

### Tidbits.....

I'm sure we're all very sad to see Frank Aden resign as editor-in-chief. We owe him a great debt of thanks for the year he has handled the job. Please be sure to support new EIC Bill Thompson, who'll take over with the January WUD.

Here's why we have several Japanese members, according to Tanio Sugihara: "One of the most popular SWL magazines in Japan, "Tampa" (Tampa means Shortwave in Japanese), has introduced WTFDA in the series of SWL Clubs in the World. And here in Japan, interest of DXing on VHF is increasing now. I've now been named as the VHF editor of Tampa, and will know how you are doing over there. The Es high season of this year has ended. I've received as last year the following countries: Russia, China, Taiwan and Hong Kong. Korea stands too near for me to hear them by Es, but I can hear some South Koreans by tropo. And in this autumn we are having very good F2 and TEP again. I think there is a chance for you to catch some South American TV, possibly on channel A2. And in the west coast USA there is also probably a chance to catch Hawaii and American Samoa on ch. 2."

Now these words from Wayne Thompson: "I was an A&E mechanic in the Air Force for eight years (to 1970), and since have been in the mobile home business. I was DX'ing SW at a young age of 13 on a Philco 4-band receiver. My father was probably one of the first persons in Canada to home-build a TV set. This was back in 1946-47, or it might have been later. But, I'll always remember that little round 4" green picture tube. I think they did a little DX'ing back in them days too, but only from New York state. Anyway, the total inspiration has come from him as far as radio and TV is concerned. I seriously started VHF-UHF DX'ing about 3 years ago after finding it was really a thrill to monitor stations out of state. Before then, we were the casual SW listener (which, to me, gets boring after a while), and, after watching a picture from a station 1,000 miles away or so, I was completely hooked. Don't get me wrong, I'm still an avid SW listener and flip the dials regularly, but the TV spectrum has sort of got a hold of me. Anyway, down at this "shack" we have some home-built "1-tubers" for LW, a Heathkit SW-717 (built 2 years ago) and a Radio Shack DX-150B for SW

(Thompson cont.) listening on a 95' longwire antenna, a 4 band RCA portable radio (AM-FM-AIR-POL) bought back in 1970 (I run this off of the longwire antenna and it is modified antenna-wise). I was, at one time, going to dismantle this radio for the goodies inside, but it tracks so good on FM I decided to let it be. We have some other nondescript FM radios out in the shack, which we use from time to time (mostly out of consoles, one from Germany), but they are slowly gathering dust. For the "snow-bands" we use a Quasar WL9419PP with 3 I.F. stages, a really nice color TV; VHF - I really don't know where this antenna came from. The XYL went down to Tampa about 4 years back and came back with this thing. It might be either a Grants or K-Mart "Special". Clean it up every year and it keeps on "tickin'". UHF- my father found this corner reflector in the garbage dump down in Arcadia, Florida....apparently somebody didn't like the results off of this thing. It serves me pretty well, so it's their loss. The VHF is at 30' and the UHF antennas at 15'. I realize this is kind of backwards as to the stacking, but as far as the "lobes" are concerned, this is where it works well, for the locals, and trop. Although I have done much DX'ing on the Quasar for the last couple of years, we have a Zenith HO92X, which I believe beats all others (or can hold its own) on a B/W receiver. This little 9" fellow has 4 I.F. stages and can take almost anything put into it. However, I found out you can overload it. As a DX'ing receiver I don't think it can be beat; when I first got it, I used the built in dipole for stations up to 60 miles away. This was regular transmissions; a little fuzzy maybe, but they still came in. Well, what may be of interest to you is the fact that the Zenith HO92X is driven off of home-brew antennas. That TV has never seen a "commercial" TV antenna since I received it. For the last 3 years that has been sort of a hobby with me, designing and building my own TV antennas, some flops and some really good designs. My father writes every once and a while and sends some plans for an antenna (which I quickly modify), as he likes to fool around now that he's retired. (He cuts them for the southern stations). This afternoon I just finished a special Es antenna for channel 3 just in case we might get some Es during the cold months (December). Anyway, just thought you might like to know you don't have to have a Winegard or a preamp to get tropo or Es, as I usually get them all the time. Here I get carried away again, but how is WJWJ channel 16 from Beaufort SC (9AM EDT) on a design you made yourself? As of now (subject to change), I have 2 UHF and 2 VHF antennas on a single mast, all home built by me (all turned by the "armstrong" rotor). What I would like to clarify is this- I have fun DX'ing on my home-brew antennas and anyone wanting these simple designs to try them for themselves (simple in a sense anyone with technical skills can construct them), write to me and don't worry about postage; this is simple "grass roots" DX'ing with basic equipment. And that's all I have, basic equipment for good DX'ing."

WTFDA comptroller Gary Olson has a new job. He's now the national sales manager for NEC America's Video Products Division. Gary is still based in Chicago. He writes, "Am definitely going to get my tower back up next spring. Working on plans for it now. Trops in August and around Labor Day were so intense I was getting fantastic things off antennas in the attic- so I guess my interest has been whetted again. I guess it's been 3 years since I actively DXed the last time!" Too long for an old pro like Gary, hi.

This word in from member Mel Wilson (17 Van Cortland Drive, Pittsford, NY 14534), an Es expert: "I am writing in regard to the letter from Mr. E. B. Dorling, reprinted by permission in the July '78 WUD. This excellent summary of the formation of sporadic E layer can, however, be misleading to the VHF DXer. The problem lies in the fact that for VHF propagation to take place there must be embedded in the layer a "cloud" or "blob" of much greater ionization density. I suggest the use of "intense sporadic E" to denote what is required for VHF propagation. It must be understood, however, that a sheet of sporadic E layer as outlined by Mr. Dorling must be present before an "intense sporadic E" can exist. The mechanics of the formation of "intense Es" is not known, but I have suggested that it could be caused by turbulence (QST December 1970). The behavior of the intense Es cloud is the prime concern of the VHF DXer and not the simple sporadic E sheet."

From Canada we have these words from Eldon Luoma (10653 137A St., Surrey, BC V3T 4J7): "Keep up the great publication. I'm very satisfied with the bulletin layout and information. Hopefully several friends will be joining WTFDA soon. They've been thinking about it for the past year. Guess it's the slow apathy of Canadians that makes our decisions take a long time, hi!!! Oh well, I'm sure they will join eventually. Have added several new 10 element FM beams here, and they are working well. DX hasn't been bad this season, but could be a lot better. Managed to hear KHPE 107.9 Albany OR, also KGHO-FM and KDUX-FM Aberdeen were coming in. Haven't managed to hear any California FM yet. Still trying though. A pirate FM noted on 90 MHz (89.7 with digital tuner) in the Surry-New Westminster area. They are off now but were a regular each night during May and early June.

A recent new member, Walt Breville (9127 Coral Drive, St. Louis, MO 63123) has these comments: "I just joined WTFDA. Matter of fact, I paid my dues to John Zondlo at the Louisville convention, which I really enjoyed. I've been with the DX hobby club scene for 14 years, belonging to NRC, IRCA and ASWLC. My log at my city location is now at 91 FM stations from sporadic efforts at trying the FM band for 10 years. I have been hampered by close-by transmitter towers to the south, west and NW (all line-of-sight), with a bunch more not much farther. Recently I did something about my terrible location in south St. Louis county by buying a country house 40 air miles from the closer St. Louis area towers. It's an A-frame cabin on 3 acres near Wright City, Missouri, 45 air miles west of downtown St. Louis. In a period of 12 weeks of DXing there I have logged 83 FM stations. My equipment consists of a Marantz 2270 receiver and Rembrandt rabbit ears at my St. Louis home. At the country cabin I have been using a recently purchased Technics ST-7300 tuner, using an old Magnavox console for amp/speakers and just the dipole wire that came with the tuner for antenna. Now I just finished erecting an 8 element Winegard yagi and Alliance rotor over the A-frame, 25' above ground, sufficient for it to look over one of the higher hills in the area, which my cabin is almost at the top of. Haven't had much chance to really try it out yet, but I'm really looking forward to finally getting into FM DXing with rotating outdoor multi-element antenna. It looks like my VHF-UHF activity will be confined to FM for the foreseeable future, although I find reading about TV and utility DXing feats in VHF-UHF Digest enjoyable and interesting. Keep up the good work!"

FCC FM editor Bruce Elving (18 1/2 East 5th St., Duluth, MN 55805) comments on a recent Mailbox item: "Is return postage really necessary when soliciting a verification (QSL)? Don Davis makes the statement that failure to include return postage, "...is the #1 reason so many stations won't verify." This statement is not supported by some research I did. In 1976 and 1977 I sent out 53 reports to FM stations, 23 with postage and 30 without postage. The delinquency rates were 30.4% for the group getting return postage and 33 percent for the group without postage. You can judge for yourself whether postage significantly increases the rate of return, and if it makes good economic and/or public relations sense. Having worked at a radio station I know that postage is a minor factor in mailing out a letter, and stations do not necessarily need this "bribe". I feel that if you can word a letter so that it is interesting to station management they will answer anyway. I certainly do not recommend using SASE's, as the station logo on the envelope is often the best you'll see. If I do use return postage I send commemorative stamps that have value to collectors even in used condition, if carefully soaked (not steamed and certainly not torn) off the envelope. My study does not purport to be definitive, and certainly there is room for more research in this area. I am not "bragging" about getting verifications without sending return postage, and I do not believe DXer Ross was either. With postage going up and up and DXers typically having low incomes (many being students), there is a need for fresh thinking in this area."

From Robert Goodman (5129 W. Roosevelt Road, Apt. B7, Cicero, IL 60650) we have this: "I've recently been in touch with Victor Frank (K6FV) about NOAA's ionospheric modification experiments. He said he'd be interested in getting reception reports from anyone who thinks he may have caught some DX caused by the Colorado experiments this past September 18-22. Mailbox looks like a good place to put this note and his address: Victor Frank, 12450 Skyline Blvd., Woodside, CA 94062. Victor Frank's a former member of WTFDA--he can't remember exactly when. He's written a number of propagation articles in Radio Science, Ham Radio, and QST."

A top BCB DXer, John Callarman (1122 Maple, Mt. Vernon IL 62864) files this report: "I do not want to miss a single issue of VUD, which continues to be one of the most interesting DX publications on the market today. I am still ill-equipped for FM or TV DX, and haven't found the time to go after it, either, so I've been a pretty doggone poor member. I suppose I could still use my 60-70 hour workweek and work on the NRC Log as the primary reasons, but I probably could find a little time if the spirit moved me. Keep up the good work." John edits the NRC Log, the finest BCB publication around.

A site has been chosen for the 1979 ANARC convention. It'll be held June 22-24 at the Radisson Hotel in Minneapolis, Minnesota. Host for the convention is Kim Andrew Elliott, with help from Tom Gavaras and Greg Ravenhorst (certainly a well-known shortwave DX trio). In other ANARC news, Wayne Davis, 27 Cleveland Ave., Trenton, NJ 08609, is the new Newsletter publisher. Executive Secretary Dave Browne found the publishing job, along with answering inquiries to ANARC, was just too much. Dave will continue as Executive Secretary for the next two years.

See y'all in January.....73.....jz

# FCC FM NEWS

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

## NEW STATIONS GRANTED

AZ Chandler KRLG 102.9 100000 h.v.; 880' CA Manteca 96.7 3000 h.v.; 300'; to have Spanish, English rock; L, J  
CA Victorville 103.1 3000 h.v.; 23'; m  
FL Gainesville '89.1 100000 h.v.; 770' U of FL  
IN Evansville '88.3 45000 h.v.; 510'; sv, cj, t TB subcarrier; p; Southwest Indiana Public TV.  
IA Dubuque 102.3 1400 h.v.; 440'; g  
IA Spencer KRGS 104.9 3000 h.v.; 300'; g  
LA New Orleans '88.3 54000; 800', Blind, etc. radio  
MD Baltimore '88.3 WJHU 10. John Hopkins U., but not known if will share time of previous grant.  
MD Baltimore, Sparrows Point High School '88.1 Baltimore-area DXers be kind enough to call WSPH and/or WJHU to find out if these stations will share time or if they are separated by enough distance to operate separately and simultaneously?  
NY Ely K28BAQ 105.5 s, m [KFSI 100.3 Salt Lake City UT translator]; reinstatement of previous grant.  
ND Williston 95.1 100000; 870'; m  
OK Sulphur 100.9 3000 h.v.; 300'  
TN Chattanooga WUTC '88.1 50000; 750' U of TN  
TN Jackson 103.1 3000 h.v.; 300'; s  
UT Manti 105.1 30000 h.v.; 190'; mk. It is not known if this new Manti grant will result in the deletion or change of frequency of translator K28BAQ 105.5 Manti, which relays KFSI 100.3 Salt Lake City.  
VA Lynchburg WWLC '88.3 100000; 1010'; g; Lynchburg Baptist College  
WV Morgantown '90.9 3000; 1440'; WV B1/Regents  
WV Saratoga 99.9 KLLK 29000 h.v.; 3500'; 92 km primary signal; 172 km secondary signal.  
CB Cranbrook 101.3 230 watts; CBC, CBU relay  
CB Sparwood 97.9 220 watts; " "  
SA Bellegarde 91.9 4700 watts - CBC French-CBK/F ON AIR AND DX READY!

## FORMATS/NETWORKS

AR Jacksonville KQMR-FM 100.3 m (was g); Stereo. CO Pueblo KPLV 98.9 r (from m); A (from U); formerly KVMN.  
DE Wilmington WSTW 93.7 r, "Rock-94" non-ID.  
FL Plantation Key WXOS 100.3 mj; nitely jazz show. ID Boise KNFR 104.3 rp  
IN Fort Wayne WCMX 101.7 m (from rp), and back on the air. May revert to soul music.  
IN Jasper WITZ-FM 104.7 Associated Press Audio  
IN North Vernon WOCH-FM 106.1 m  
KY Mumfordsville WLOC-FM 102.3 kr  
MI St. Louis Park FMX 104.1 rs ("Disco") nitely.  
NY Binghamton WAAL 99.1 rp  
NC Greensboro WQMG 97.1 rs "AR Pine Bluff"  
SC Cayce WZLD 96.7 rp (from rm); [KADL-FM 94.9  
TN Chattanooga WDDD-FM 96.5 still k; r  
TN Murfreesboro WMTS-FM 96.3 r (not mk)  
TN Shelbyville WTCV 102.9 Associated Press Audio  
TX Lubbock KSEL-FM 93.7 r (from k)  
KLSK-FM 94.5 m (from r)

6X is on the air and DX ready!

## WHAT'S COMING

ON London CIXX '106.9 c, non-ID as '6-X,' 3000 h.v.; 125 feet.

## SCA (67 KHZ; SYMBOL †)

NC Kingston WRNS 95.1 ABC relay (was music)  
OH Cincinnati WGUC '90.9 talking book (believed to have classical music on SCA early mornings)

## NON-IDERS

FL Coral Gables WVUM '90.5 FM-90  
FL Miami WFM 93-FM  
WV Huntington WKEE-FM 100.5 "Key-FM"

## TO GO STERO

IN Muncie WBST '92.1, heard testing in stereo

## FACILITIES' CHANGES

AL Montgomery WFMI 98.9 98000 h.v.; 490'  
AL Sheffield WRCK 106.3 1750 h.v.; 380'  
AL Tuscaloosa WTUG-FM 92.7 3000 h.v.; 300'  
AZ Tucson KJYK 94.9 60000 h.v. (190')  
CA San Clemente KWVE 107.9 500' (50000 h.v.)  
CA San Francisco KEAR 106.9 odds v (former KMPX facility)  
CO Greeley KUNC '91.5 50000 h.v.; 570'; 33, 74 miles  
FL DeLand WEL-FM 105.9 100000 h.v.; 890'  
FL Ocala WMFO 92.7 3000 h.v. (290')  
GA Athens WUOG '90.5 9500 h.v.; 180'

IL Champaign WLWR 94.5 no vertical; station reports having a vertical antenna, but it is not in use and has no plans to use same.  
IL Springfield WVEM 101.9 no vertical  
IN Indianapolis WBDG '90.9 400 h.v.; 78'  
IN South Bend WRBR 103.9 no vertical  
KY Hodgenville WKMO 106.3 300' (13000 h.v., r (not k)—still rock oldies.  
LA New Orleans KNLU '88.7 750 (horizontal); 75'  
MD Ocean City-Sallisbury WBOC-FM, "FM-105," 33,000 h.v. (610').  
MI Frankfurt WBNZ 99.3 1450 h.v.; 410'  
MN Bemidji KBSB from 99.1 to '89.7 115 (h); 125 feet.  
MT Billings KEMC '91.7 700 (h); 200'  
KY A 92.3 99000 h.v.; 420'  
MN Thief River Falls KOSN 99.3 175' (15000 h.v.)  
NC Charlotte WFAE from 90.9 to '90.7 with 100000 h.v.; 225' (from 10 to 10000). (1420 feet)  
NC Winston-Salem WTQR 104.1 100000 h.v./ OH Bellevue WRNR 92.1 no vertical  
OH Hamilton WOKV 103.5 50000 h.v.; 500'  
OH Yellow Springs WYSO '91.5 10000 h.v. (400 feet)  
SC Anderson WAIM-FM 101.1 10000 h.v.; 310'  
TX Atlanta KFYX 99.3 200' (30000 h.v.)  
TX Austin KUTV-FM from 90.7 to '90.5 100,000 h.v.; 960'  
TX Houston KTSU '90.9 18,500 h.v.; 265'  
TX Odessa KQIP 95.9 100000 h.v.; 420'  
TX Port Arthur KAHV '88.9 82,000 h.v. (300')  
UT Ogden 97.9 26000 h.v.; 3770'; 92 km primary and 175 km secondary coverage  
UT Salt Lake City '90.9 16500 h.v.; 3700'  
WA Spokane KPBX '91.1 100000 h.; 43000'; 1530'; KREM-FM 92.9 81,000 h.v.; directional antenna with 2080' above average terrain.  
WA Tacoma KPLU '88.5 100000 h.; 98000 v; 620 feet above average terrain.

## CALL LETTERS

CA Sacramento '91.8 KYDS ("Kids?") 92.5 KAEF (KFBK-FM)  
107.9 KXOA-FM (KXOA)  
107.1 KAP1-FM  
IL Carthage 92.1 WCAZ-FM  
KS Ottawa 95.7 KKKX (KOPD-FM), to 100,000 watts h.v.; 330 feet.  
KS Parsons 95.5 KLCG-FM  
MA West Yarmouth 94.9 WSOX-FM ("WOCS-FM")  
MI Grand Rapids 101.3 WFFX (WMLW)  
MN Morris 95.7 KKOK-FM (KMRS-FM)  
MS Jackson 94.7 WKXI-FM (WKXI)  
NM Espanola 102.3 K8SQ (K8SQ)  
NM Roswell 97.1 KPIZ (KRSY-FM)  
NY Merikimer 92.7 WYUT  
ND Minot 93.7 KIZZ (KMOT-FM)  
OR Hobart 104.9 KOTZ  
OR Coos Bay 98.3 KICR  
OR Eugene 97.9 KUGN-FM (KFMY)  
PA Pittsburgh 107.9 WDSY (WEER-FM)  
WI Superior 102.5 KZIO - one of WI's few "K" stations, but with studios and transmitter in Duluth, MN.

## ABBREVIATIONS

c classical music, g gospel, j jazz, k country, L Latin, m is middle of the road or easy listening music, r rock, rp album-oriented rock, s soul, t talk, and rs is so-called "disco." Networks: A ABC-FM, E ABC Entertainment, I ABC Information, M Mutual, N NBC, P National Public Radio, S Associated Press Audio, U United Press Audio, Y ABC contemporary.  
\$ is stereo, † stands for a station having an SCA (67 kHz FM subcarrier), h is horizontal effective radiated power in watts, v is vertical effective radiated power in watts, antenna heights are above average terrain and expressed in feet, although we'd much rather express them in meters and be in step with the rest of the world!

## READERS' REPORTS, COMMENTS

David Leibold reports that there's a controversy over country music in London, Ont., with CPFL-FM 95.9

wanting to switch to k, while CJBK wants an FM station with a k format. CRTC policy says no two stations can have the same format in the same market area. CJBK wants 92.7, as does Stratford ON.

A few readers said they enjoyed the article on my 30 years' DXing, and it reminded John Ebeling that the "announcers on WWCF [94.9 Baraboo WI] always had such strange voices. Never said anything but 'WWCF high atop the Baraboo WI bluffs in Greenfield township, the heart of Wisconsin's vacationland.'" A news article said installation of the FM antenna poles atop the IDS tower in Minneapolis is half-way completed, and all the stations should be on the air with 100 kw, h 8v at 800+ feet after Jan. 1.

WRFY 102.5 Reading PA erected a new tower, dwarfing the old one, but reduced its power to 15000 h.v.; 810' and Vic Melis said he picked them up before in Ocean City NJ at 120 miles, but since the new tower went up, he's had trouble receiving them beyond Glassboro NJ, about 85 miles.

CHUC Cobourg ON, after a series of misguided communications with the CRTC, promised to build CFMX on 103.1 and have it on the air by Nov. 30, 1978, or give up the CFMX permit. So monitor 103.1 and see if CFMX survives!

Randy Clark got a notarized FM verification from WSP1-FM 98.9 in Paintsville KY. Say, if any of you DX AM and want a notarized verie from WWJC-850, write to my wife, Carol, who is their public affairs director, and a notary.

A rumor from Cleveland has it that WBOE '90.3 is going off the air for lack of funds to meet expenses; it is (or was?) the Cleveland School board station, and one of the nation's oldest school stations. Perhaps they'll cut back on public radio offerings, but stay on the air for school programs.

KEAR 100.5 Sacramento tells me they have a new 950-MHz microwave link for rebroadcasting KEAR San Francisco, which is improving their sound quality, plus KEAR has local public service programs done on its own. Carl Auel, station manager, says most Family Radio stations



## FAMILY RADIO

RADIO STATION KEBR (FM 100)  
3108 Fulton Avenue  
Sacramento, California 95821

get their "network" programs on 14" automation tapes for 1-time release.

## A COMPARISON OF THE HEATH AJ-15 AND THE SONY ST-5130 By John Ebeling

After eight months use in comparing the Heath AJ-15 and the Sony ST-5130, I have reached the following conclusions and can state the various operating parameters as noted.

1. Using a 300-ohm antenna lead and two-way splitter, I found the Sony to be slightly more sensitive to weak signals. Sony pulls in KBHP 101.1 Bemidji better than the Heath. However, the initial test between Sony and Heath was that the Heath was better. I had to adjust the front end of the Sony (not recommended in Sony service manual) to give maximum sensitivity.
2. AFC control on Sony not needed--has absolutely no warm-up drift. Heath will drift slightly (about 5 kHz in 2-3 hours).
3. The Sony signal strength meter is too sensitive in that it reaches full scale too quickly. Using V antenna, KNXR usually registers about the same signal level as local KTCR-FM 97.1 Minneapolis MN. In comparing other signals, the meter on the Heath will read .5 and Sony over half scale. I feel the Heath meter provides a truer indication of signal strength.
4. The Sony Impulse Noise Suppressor (INS) can distort stereo signals--depends on signal level. Sony will distort easier on weak stereo signals using INS than Heath (no INS control). The INS will work only when signal is of enough strength to provide stereo reception. The INS really works well on some noise. It can also help to improve adjacent channel reception under certain conditions by helping to "chop off" splatter from strong local stations. The INS works on pulses of 1 to 10 microseconds duration.
5. The Heath has less local oscillator radiation. When Heath is tuned to 88.3, it does not block out reception on the Sony of 99.1 from Mankato. The Sony, when tuned to 88.3, will block reception of 99.1 Mankato on the Heath.
6. AM noise suppression in the form of thunderstorm static is about the same on both units--poor in my book. Some cheaper portable radios I have seem to do a better job of static rejection!
7. Rejection of CB signals (4th harmonic is near 108 MHz) is better on the Sony.
8. Sony dial pointer, in a darkened room and relying on dial lamps, has poor visibility. I corrected (improved) mine by removal of front panel and dial glass, then cut an opening in the rubber dial glass holders at each end--allows light to shine on dial face and pointer [but I found it increases the visibility of dust on the felt pad behind the pointers--B.E.]
9. Use tests on adjacent channel reception show both units close to equal. No clear edge given to one over the other.
10. The linear dial scale on the Sony has a point of nonlinearity (of the scale) between 99-100 MHz, but dial is quite accurate otherwise.
11. Comparing aurora reception on 91.9 MHz between two "locals," no difference could be noted.
12. The capture ratio is slightly better on the Sony. It does a somewhat better job of pulling a slightly stronger signal station out of many signals on a class A channel.
13. Sony is more sensitive to stereo distortion via multipath or weak signal conditions. It very often is necessary to switch to mono operation to eliminate the distortion.
14. I dislike the 5 lever switches on the Sony-- they protrude too much.
15. Seems as if the Sony tends to overload (cross-modulation) slightly easier than the Heath. Possibly I adjusted the front end too much.
16. The Sony contains the AM band (handy at times) but the operation on AM stinks--poor sensitivity.

After all of the above comparisons, if I had to choose one of the tuners to do all my FM DXing, I would have to pick the Heath AJ-15. Headphones or low-quality amplifier were used in comparing sets, so can't really comment on your lack of highs from Sony tuner. [The previous run as a service to the many in the club with both or either type of tuner. While this is not an equipment-review column, I did have the space, and am not soliciting reports like this.]

Sales of the FM SuperSnooper as the result of the recent VUD ad are going well at \$25 per unit. This device is best for use with FM and FM-AM portable radios and not more sophisticated receivers, unless you want to go inside the set to find the proper connection point. I am now an authorized Krao distributor, and have prepared some KR-1250 FM car converters to receive SCA, as well as regular FM through an inconspicuous front-panel switch. Plays through your AM car radio, with SCA adapter neatly contained within the KR-1250, and it needs no external SCA power to operate. \$38 with full factory warranty from me, Bruce Elving, Adolph MN 55701 (add \$2 to Canada and other non-UPS addresses).

Contributors: Carl Auel, Sacramento CA; Randall B. Clark, Parkersburg WV; Bill Coleman, Rocky Mount NC; T. V. Cornell, Greentown IN; John Ebeling, Bloomington MN; William Fait, Euclid OH; Donald N. Kirkpatrick, Ridgway PA; David Leibold, Blyth, Ont.; Nick Lombardi, Atlanta GA; Vic Melis, Spring City PA; David Rights, Miami FL; Robert S. Ross, London, Ont. Also, Tuckaert J. C., from Belgium, who says, in part: [Also contributing: Vernon Eaton, Benton AR.] About the subcarrier problem, I am certain that NO European country makes special broadcasts this way; our system does not lend itself for such a purpose...Why do you think we always look to America as the perfect broadcasting system? Radio and television [here] is dull and unsatisfying, but some people do break the system by setting up unofficial stations, but are jailed for it if caught on European territory. You may have guessed it: I am a free-radio fanatic! ...Some television companies transmit special information requiring a special adapter on your set; this could be like your SCA, but it uses the upper 5 lines on the screen (also the lower 5 lines). This can be adjusted to bring in such services as weather, local events news, cooking tips, program previews, etc. It will even be possible to send private messages on the system, such as between husband and wife, as when the husband will be late getting home. ...The possibilities are infinite and many countries are watching the experience with open eyes!

# FCCTV NEWS

John F. Combs  
2485 Ivan Ct.  
Orlando FL 32807  
305-677-0066

December 1978

## NEW STATIONS ON-AIR

KTOO-3 Juneau AK -PBS 9-29-78  
WNNE-31 Hanover NH ??? 9-27-78  
WPTT-22 Pittsburgh PA Ind 9-15-78

## CONSTRUCTION PERMITS GRANTED

Salinas CA, Ch. 56 ETV, 15.1, 2100  
Springfield IL, Ch. 55+, 12.13, 454

## CONSTRUCTION PERMIT CANCELLED

WWLD-18 Jackson MI

## APPLICATIONS FOR NEW STATIONS

Ventura CA, Ch. 16+, 5.25, 755  
Bridgeport CT, Ch. 43-, 1082, 702  
(plans 100% female-oriented pgmg)  
Bridgeport CT, Ch. 43-, 794, 570  
Seaford DE, Ch. 38, 259, 317  
(an ETV allocation, but commercial app.)  
Bloomington IL, Ch. 43, 2095.2, 1026  
Mount Clemens MI, Ch. 38+, 1243, 614  
Lafayette LA, Ch. 15, 281, 209  
Albuquerque NM, Ch. 14-, 1412.5, 4188  
(wants pay-TV)

Eugene OR, Ch. 16+, 2650, 931

Lubbock TX, Ch. 34-, 85.3, 286

## CHANGES GRANTED IN OPERATING STATIONS

KYEL-13 Yuma AZ to 1560 AAT (1420)  
KAET-8 Phoenix AZ to 316-kw (117)  
KLOE-10 Goodland KS to 980 AAT (770),  
xmtr to 9 mi. N. of Edson (was in Goodland)

## CHANGES GRANTED (continued)

KLFY-10 Lafayette LA to 309-kw (302)  
WBFF-45 Baltimore MD to 5000-kw (1580)  
WTVD-11 Durham-Raleigh NC to 1990 AAT (1490),  
on WRAL-5 tower, probably...  
WCDC-19 Adams MA to 448.7-kw (538)  
WIPM-3 Mayaguez PR to 79.4, 2274 (35.6, 590)  
WGGS-16 Greenville SC to 1150-kw (229.6)  
KDLO-3 Watertown-Florence SD to 1680 AAT  
(1393), move xmtr .5 mi. N. of present site  
CHANGES IN CALL LETTERS  
KPWR-17 Bakersfield CA (ex-KJTV)  
WMGC-34 Binghamton NY (ex-WBJA)

## CHANGES IN ALLOCATION TABLE

Location	Add	Delete
Decatur AL	-----	23
Huntsville/Decatur AL	54	-----

## PAY-TV GRANTED

New 61 Cleveland OH  
STATE OF THE INDUSTRY

Commercial TV:	VHF:	515
	UHF:	205
	Total:	720
Educational TV:	VHF:	106
	UHF:	167
	Total:	273
TOTAL TV ON-AIR		993

There is also a veritable deluge of translator information this time which I am unable to compile right now due to time limitations. Such is the life of a student, hi! I would like to indicate that any foreign information should be directed to Ken Simon for the International DX column. His address is: 528 Pilgrim Rd., West Palm Beach FL 33405. Ken has heard TV audio from Europe in recent days and would like to hear from others who have been logging these signals. I lack a 30-50 mhz receiver, so I'm forced to miss out on that aspect of DX for now. Again, I apologize for such a short column, and for any typos that may occur (I'm SO tired!), although I didn't find any. Next month's column should be rather voluminous for a change. HI! 73.....JOHN!



## International Radio Club of America

P.O. Box 26254  
San Francisco, CA 94126  
U.S.A.

The International Radio Club of America invites you to join us in the exciting hobby of Broadcast Band DXing. Founded in 1964, IRCA has over 400 members.

We publish our bulletin, DX MONITOR, 34 times a year (more than any other Medium Wave DX Club in the world), weekly during the winter and monthly during the summer. Regular feature include reports of reception of domestic and foreign stations; feature articles on propagation, stations, DXing techniques, equipment modifications and equipment reviews; and information on call letter, frequency and programming changes.

Membership dues in North America are \$16.50 yearly (U.S. funds). The first year includes 32 issues of DX MONITOR and our new member booklet, "Principles of Broadcast Band DXing". Thereafter, you receive 34 issues a year. We also offer a trial membership for \$6.00 which includes 10 issues of DX Monitor and a new member booklet.

For a sample copy of DX MONITOR, send 50c to IRCA at the above address. We'll also send you information on our extensive supply of reprint articles and our annual IRCA Foreign Log.

We look forward to having you as a member of our club.



Morrie S. Goldman, 5915 N. Christiana Ave., Chicago, Illinois 60659

**NETWORK DXes NETWORK...** Network problems on October 12th brought some strange happenings. At about 8:45 PM CST, network stations lost their feeds and programmers started loosing their minds. All three networks were affected as over 300 stations in the Midwest, West and South posted "please stand by" signs. The problem was the result of a power failure at a telephone company switching center in Chicago. The first of several failures started a scramble for substitute programming. Old movies and reruns were popular fillers, but one station had a better idea. WMAQ-TV beat the system by retransmitting the over-the-air signal of WNDU-TV, channel 16 in South Bend (about 90 miles distant). The not so quick-fingered engineers at WMAQ even carried WNDU's ID at 9PM CST! Most problems were cleared up by 9:30, though many stations finished out their fillers rather than switch back to the network programming.

**WHICH SET IS BEST FOR DX? MANUFACTURERS MAY BE FORCED TO TELL US...** The FCC has just opened an inquiry to determine whether TV set manufacturers should be required to label their products with noise figure or sensitivity figures. The FCC wants to know if such information would help consumers select sets for best reception. What information would be included and what form it should take, has yet to be decided. The Docket is known as 78-307 and you can receive a complete copy from the Consumer Assistance Office, Federal Communications Commission, Washington, DC 20554. You can comment on the notice (before Feb. 1, 1979) by writing to the Secretary, Federal Communications Commission, 1919 M. Street, NW, Washington, DC 20554 (an original and 5 copies are required).

**INSTANT FM IDs COMING?** Popular Electronics reports that Philips Research Laboratories has developed an experimental system to automatically display call letters on the listener's receiver at the moment the station is tuned in. The secret of the system is a digital signal to be transmitted by FM stations along with their programming. When the listener tunes in such a station, a decoder in the receiver translates the code into the call letters of the station received. The system is experimental and production will "depend upon international agreements and the cooperation of broadcasting authorities."

**MORE TV AUDIO TUNERS ON THE WAY...** With broadcast TV sound now stretching out to 15kHz, audio equipment makers are readying high-quality TV sound tuners for the US market. Pioneer was first with its TVX-9500. Hot on the heels of Pioneer will be Kenwood, JVC and others. The TVX-9500 was evaluated in the November issue of Audio with the following test results: IHF sensitivity- about 5uV, 50dB quieting- 8uV, S/N ratio- 75dB, Capture ratio- 1.3dB. The price? \$250.

**EUROPEAN TV AUDIO RECEPTION WITH SCANNERS...** The current sunspot cycle looks like it could be a great one for VHF DXers, so it's only a matter of time before the first report of BBC or ORTF audio appears in the VUD. BBC audio appears at 41.5MHz and ORTF at 41.25, well within the range of most multiband scanners. Unfortunately, a scanner, any scanner, is an FM receiver. European audio is AM. FM receivers normally receive AM signals with much less sensitivity than they would an FM signal. In fact, AM rejection is normally considered an advantage and may be found on spec sheets. On stereo receivers, AM rejection is commonly around 60dB. Fortunately, AM rejection on scanners is nowhere near as "good." As a result, European audio could be received on a scanner, but only if the signal is relatively strong. Adding to the problem is the fact that modern scanners are quite selective; their limited bandpass may clip the broad AM audio causing some distortion. Older scanners may be better for this type of reception than the newer units, since their selectivity and AM rejection figures are "inferior" to modern receivers. It should be interesting to see how scannerized members fare with reception of BBC and ORTF.

**VCR UPDATE...** JVC has introduced a new VHS video cassette recorder with a unique double speed feature. When the recorder is switched into the double speed playback mode, both sound and picture run at twice the original speed. To prevent the audio from sounding like a bunch of chipmunks, a digital circuit restores the audio to its natural pitch. The exact reason for offering this feature is unclear, but it allows you to view two hours of television in one hour...Hitachi is out to prove that the numbers game doesn't end in audiophile circles. Their new VHS recorder is said to offer a 46dB signal-to-noise ratio. That figure would top any other home VCR. Let's see, who'll make it 48?

**YOUR NEWS IS NEEDED...** If you spot an article or news item in a local paper that would be of interest to WTFDAers, you are invited to forward it to this editor for coverage. Items relating to FCC stations news should still be sent to the proper FCC news editor. WTFDA Newswire will return in February. 73, Morrie

# INTERNATIONAL NOTES

Randall B. Clark--Parkerburg WVA

17OCT78 1556Z ch. B01 BBC-1 DAVIS, MI A  
ch. F02 TDF? TROYES, LIMOGES, CAEN or BASTIA, France  
Also repeats of EBC-1 (location?) on OCT 20,21,23,24,26,27

William Godbey--West Palm Beach FL (scanner)

30OCT78 1200Z ch. F02 TDF w/ def. PP music and announcement  
TROYES, LIMOGES, CAEN or BASTIA, France

DAVID CRAWFORD--Oak Hill FL (scanner)

28OCT78 2000Z ch. B01 BBC-1 CRYSTAL PALACE, England  
ch. F02 TDF TROYES, LIMOGES, CAEN or BASTIA, France

BILL GRANT--Worcester MA

In OCT logged BBC1-DIVIS and CRYSTAL PALACE and TDF

GLENN JACOBS--Moscow, PA (British standard TV set)

In OCT logged both BBC1's audio as well as TDF

----

A GOOD START! Will have information on QSLs soon...My upconverter is being repaired or checked out so I'm out of it for a moment...Keith Hamer reports some A2 and A3 reception this summer in the UK...Maybe he can send us details and we can try to ID them.

THIS COLUMN is only as good as its reporters! Sometimes information from non-WTFDA members will be reported. This is done in the interest of INFORMATION!

WE'D like more information on reception systems...so keep those letters and calls coming...If you call try after 5 pm...NO COLLECT CALLS, please. ANYONE WITH ANTENNA IDEAS etc..please write...

THAT'S ABOUT IT FOR NOW, *Kew* KEN SIMON/528 Pilgrim/West Palm Beach/  
FLA 33405 305-585-7415

# Memorabilia

Robert J. Williams  
251 6th Avenue East  
Twin Falls, Idaho 83301  
Phone: (208) 733-3621  
Deadline: 5th of Month

December 1978

This month, MEMORABILIA looks back to a couple of TV "firsts" in the State of Florida. Thanks to Ken Simon of West Palm Beach for sending in the following article:

4-B \*\*\*\*\* THE MIAMI HERALD Tuesday, May 16, 1978

## Who's on First?

Any time a Herald writer undertakes to document a "first" occurrence of some event in local history, it invariably happens that another long-time resident with a better memory than the writer's will report his "first" was only a second.

Mrs. Jack Murphy, now living in Fort Lauderdale, is one of these and she shot down my "first" by telephone the other day. I had recalled in the Living Today section of The Herald a week ago the excitement in Miami when WTVJ (Ch. 4) brought the area its first television service in 1949.

Specifically, I listed the night of March 21 of that year as the inaugural date. That was correct enough, but Mrs. Murphy, with great glee, challenged me to examine the sports page of The Herald on Nov. 30, 1946, three years before. There, she insisted, I would find a report of television here even then.

INTRIGUED as well as dismayed, I checked the microfilm rec-



**JACK ANDERSON**  
herald  
TV-radio editor

ords of that day and sure enough, on one of the sports pages was a story by Whitey Kelley, then a Herald writer but now with our sister newspaper, The Charlotte (N.C.) Observer.

Whitey told of watching the first quarter of the UM Hurricanes' game the night before with the Detroit Titans on experimental television.

The Dumont Television Laboratories of New York linked a camera in the Orange Bowl with a receiver (or receivers) in the Bayfront Park auditorium for an invited group of

## Nostalgia Amended

curious viewers.

This pioneering event seemed to have underwhelmed Whitey. He appended it to a story that was devoted mainly to UM Coach Jack Harding's post-mortem of his team's performance the night before.

WHEN HE finally got around to the TV end of it, he reported "that to say TV would replace the 50-yard line seat is stretching a point, but the game was screened amazingly clear" although it was hard to tell which team was which in the black-and-white picture on the screen.

Whitey was perceptive enough, however, to add that "there's no doubt that sitting in your living room to watch your favorite team each Saturday isn't far in the future."

I don't want to toss my overalls in Mrs. Murphy's chowder, but she would have to admit that my 1949 date marked the first publicly watched TV in this area. A demon-

stration in Bayfront Park really doesn't count.

### Pest Probe

A five-part series exposing rip-offs in the pest-extermination industry here is under way on WCKT (Ch. 7) in its 6 and 11 p.m. newscasts this week.

Titled, "The Big Bite," the series, reported by Mark Wolin, will consist of disclosures of fraudulent exterminators' pricing practices in Dade and Broward counties.

Keep 'em coming, guys. Without your support, this column would be nothing. See y'all in 30. 73s, gud DX,

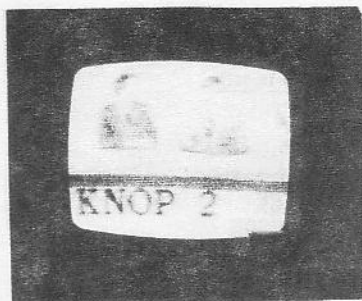
Merry Christmas to all! **Bob**

# PHOTO NEWS

Jim Alexander  
4 Brook Court  
Parsippany, NJ 07054

December, 1978

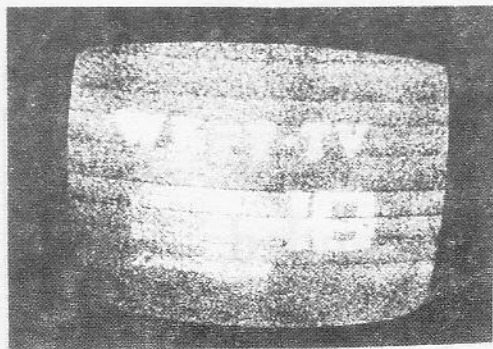
This month, PHOTO-NEWS presents two pages of TV-DX, including another super tropo catch. Don't miss Buck Battin's photo of WKPT-19, taken almost 900 miles from WKPT!



KNOP- 2 North Platte, NE  
1,135 mile E-skip (Pizzi)



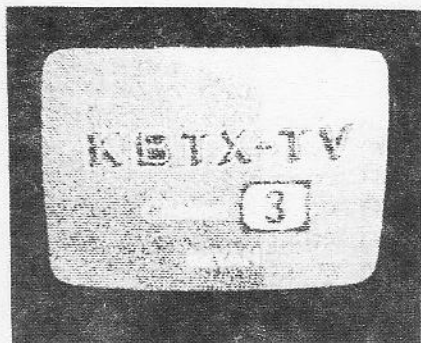
KGBT- 4 Harlingen, TX  
E-skip (Simon)



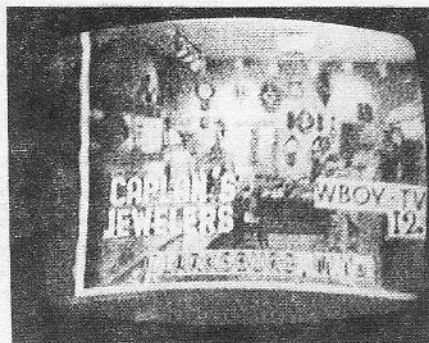
WKPT-19 Kingsport, TN  
880 mile tropo  
8/21/78 (Battin)



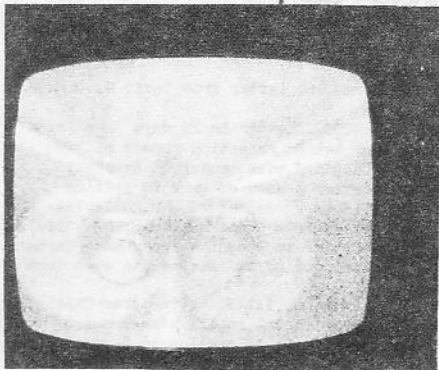
WTVB-11 Durham, NC  
330 mile tropo  
7/20/78 (West)



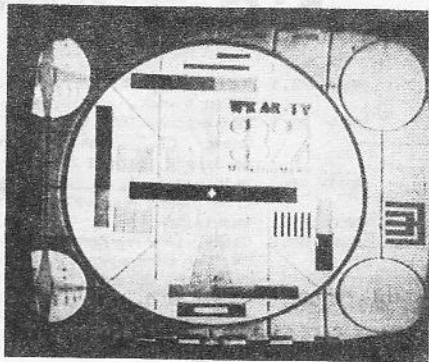
KBTX- 3 Bryan, TX  
910 mile E-skip (Combs)



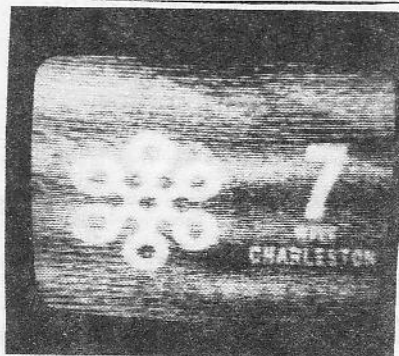
WBOY-12 Clarksburg, WV  
255 mile tropo (Gaines)



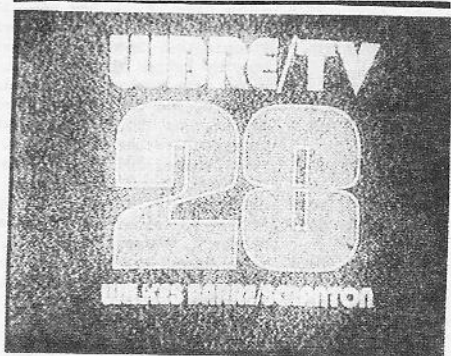
XHBC- 3 Mexicali, BC Mexico  
E-skip  
2100 PDT, 6/4/76 (Aden)



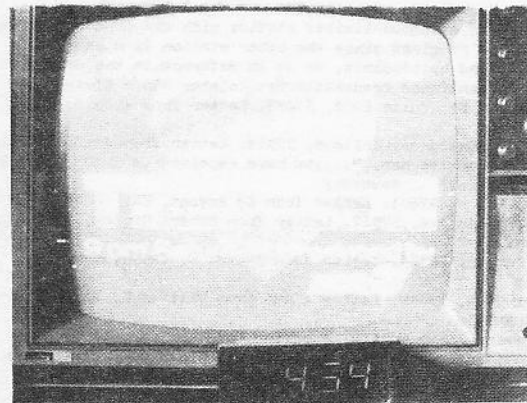
WKAR-32 Montgomery, AL  
290 mile tropo (LeBlanc)



WIV-TV / Charleston, SC  
310 mile tropo (Combs)



WBRE-28 Scranton, PA  
385 mile tropo (Gaines)



WCIA- 3 Champaign, IL  
E-skip (Barber)

Contributors:

- Jim Pizzi, Orcutt CA
- Ken Simon, West Palm Beach FL
- Buck Battin, Duluth MN
- Steve West (photo taken at Havertown, PA)
- John Combs, Orlando FL
- Paul Gaines, Detroit MI
- Frank Aden (photo taken at Bend, OR)
- Ron Le Blanc, Marrero LA
- John Barber, Carolina RI

Wishing a joyous holiday season to all... *Jim*

# QSL CORNER

Thomas J. Yingling, Jr.  
221 Pinewood Road  
Baltimore, MD 21222  
Deadline: 10th

FM-QSL

- DC WAMU 88.5 Washington, The American University, 20016. Letter from David G. Garner, CE in 1 week. Blevins
- WMZO 98.7 Washington, 1680 Wisconsin Ave. NW, 20007. Letter in 23 days from Frank Kramer, CE "...really appreciate your letter reception report of WMXO in Canada. I find this very interesting and most unusual." Sawatzky
- WPGC 95.5 Washington, P. O. Box 8550, 20027. Letter & maps of am & fm station from Joseph Nunemaker, WA3SZC for Milford K. Smith, Jr. CE. Blevins
- WWDC 101.1 Washington, P. O. Box 4068, 20015. Letter from Donald S. Culp, CE. Blevins
- FL WOYK 99.5 Tampa, 1902 W. Kennedy Blvd, 33602. Letter in 3 months from Duane Cornett, CE "Our copy-operations girl got a kick out of it because she came from Petrolia, Ontario." Sawatzky
- WIGL 107.5 Miami, P. O. Box 450577, Shepandoah Station, 33145. Letter from Charles R. Veres, CE WB40GN in 9 months "...this report really stands out of the 'run of the mill' reports of reception of our AM station in Europe" Sawatzky
- IL WSPY 107.1 Plano, Route 1, Box 41, 60545. Letter from Larry (? unreadable) President, Eddie.
- WLUP 97.9 Chicago, 875 N. Michigan Ave, 60611. Letter, unreadable name, CE. Eddie
- WPRC 101.1 Lincoln, 62656. "495 miles? Wow! Your reception of our station is the farrest that anyone has ever received us." Steven P. Berper, GM Elvino
- IA KWIT 90.3 Sioux City, P. O. Box 265, 51102. Robert W. Thomas, Director verifies & sends a program guide. Elvino
- IN WFIU 103.7 Bloomington, Indiana University, Radio & TV Services, Radio-TV Bldg, 47401 Lengthy letter from Henry B. Ruh, WB9WMM, CE. He describes his own fm set up as well as his ham activities. Sawatzky
- WYEZ 100.7 Elkhart, Box 699, 46515. Reply from Roger K. Bennett, CE. Eddie
- MN KEEZ 94.3 Aitkin, Box 930, 56431. Letter & rate card card from James J. O'Rourke, Program Director in 2 weeks. Yingling
- KMSR 94.3 Sauk Centre, 509 Sinclair Lewis Ave, 56378. Letter & map from Thomas Dickhudt, Chief Engineer. Yingling
- OH WCVJ 90.9 Jefferson, P. O. Box 112, 44047. Letter & map from Myron Hubler, Ellis
- WBHR 88.7 Bellaire, Bellaire High School, 349-35th St, 43906. Report & letter signed Norman R. Russell in 4 days. Sowinski
- WSRD 101.1 Youngstown, 401 N. Blaine Ave, 44505. Long letter & report signed by Jerry Starr, Program Director reply in 17 days. Sowinski
- WGCL 98.5 Cleveland, 1715 Euclid Ave, 44115. Letter & map from Richard A. Schuh, Corporate Didector of Eng. Yingling
- WWJ 103.1 Johnstown, 43031. Richard N. Seiler, Jr. General Manager "You were indeed listening to 3WJ." Elvino
- TN WPLN 90.3 Nashville, 8th & Union. Letter from General Manager, but unreadable name. Eddie
- WETS 89.5 Johnson City, 37601. Dick Ellis, manager "We use the "-FM" with our call letters because there is a campus-limited station with the same call. Even though the "-FM" is not required since the other station is a carrier-current facility operated by students, we do in deference to the people at the other station." & mentioned transmitter at Holston Mtn. Elvino
- WMRW 88.9 Chattanooga, 736 Market St, Suite 1002, 37402. Letter from Alan W. Hill, WA4GUJ, CE. Sawatzky
- WSMC 90.7 Collezedale, Southern Missionary College, 37315. Letter from Jerry Mathis CE who says he is an inactive ham. "...you have received us from a longer distance than anyone else." Sawatzky
- WOUT 101.5 Johnson City, P. O. Box W, 37601. Letter from Ed Bryant, CE. Sawatzky
- WRIR 103.5 Knoxville, 1513 Hutchison Ave, 37917. Letter from Robert Horton, Technical Director. Sawatzky
- VA WXPB 105.9 Alexandria, 523 First St, 22314. Letter from Robert W. Taliaferro, Eng in charge. Mullis
- WYVA 94.1 Yorktown, P. O. Box 94.1, 23690. Letter & map from William H. Eacho, Jr. General Manager. Mullis

Reporters this around are Donald Blevins, Gary Mullis, & editor Tom Yingling all from Baltimore, MD; Peter Sawatzky, Guelph, Ont; Robert R. Sowinski, St. Clairsville, OH; Bruce Elvino, Duluth, MN; Richard Eddie, St. Louis, MO. This was an all fm qsl month. 73's

# IN SEARCH OF PSB

Donald L. Elevins  
1715 Earhart Road  
Baltimore, MD 21221  
#301-574-2714

## IN SEARCH OF PARALLELS.....

This month's feature will deal with the subject of parallels, as we compare various types of probagation apparent with public safety frequencies. You'll find that the basic types of probagation that occur with TV and FM also occur with the public service agencies.

I will try to illustrate by placing before you the only example I have available. Keep in mind I try to steer clear of any attempt on my part to appear egotistical through my DX, but it is my only example, and one which I am familiar.

Beginning with the lower frequencies, skip, the probagation netting the longest distance, I'll try to explain. As I have attempted to explain previously, skip very frequently, but not always, occurs at the same time on public service as it does when it occurs on TV and FM. When TV skip is in from Florida, I try 45.06 for Florida Highway Patrol. By the same token when Missouri Highway Patrol is in on 42.06, I very often get lucky and receive KMOX on channel 4. Keep in mind the fact that there are times when skip on public service occurs when it does not occur on TV.

When skip is apparent on TV, skip on public safety low band(30-50) is generally the type that produces signal strength often referred to as full quieting, that is to say signal with no background noise, occasionally signal strengths being equal base and mobile.

My next subject will be VHF High(138-174). The type of probagation most evident here is tropospheric scatter or the inversion type probagation. This most frequently occurs in the spring and fall with occasional opening in the summer and winter. By the way, an opening is the DX'ers terminology for a period of time in which unusual reception occurs due to probagation. No set time period can be set for openings as the natural phenomenon that is responsible for this occurrence is largely variable in nature.

When tropo is evident on the VHF High Band, TV probagation is often possible on TV channels 7-13. Very often when channel 10 is receivable here, so are various frequencies from this band. Among them are Philadelphia Fire(154.235) Camden County Fire(154.43) Chester County Police(155.76) at distances exceeding 80 miles.

The UHF bands are also subject to probagation, though not to the extent of VHF High. The one interesting parallel that I have been able to draw with UHF(409-512 mhz) is that when Philadelphia Police probagate to Baltimore, Boston U's are evident on TV. The gain that is necessary for UHF probagation makes it difficult on PSB.

Let's stop for a moment to glance at the setup that I utilize for the reception of public service frequencies. The radio that I utilize is a Bearcat 210; no modifications were made for DX, so it would be as the average home listener would purchase for the reception of hometown locals. For the reception of distances beyond the average locals, one consideration is the outside antenna.

Many factors come to play in the game of DX'ing of PSB. terrain, height of antenna and altitude all come together to either complement or hamper your reception. Good altitude with higher altitude surrounding tends to cancel out the gain of the altitude. If however, your fortunate to be on top of a hill overlooking a valley, all I can say is good DX.

Antennas utilized for public safety come in a variety of forms and a variety of budgets. For low band a simple cut down CB antenna does excellently for low band. With such antenna, it is possible to receive the Virginia State Police in Culpeper, 125 miles away. To my north, I can receive the Cumberland County Police on 45.90 at 85 miles as well as I can receive the Dauphin County Fire radio on 33.90.

High band reception is accomplished with a quarter wave ground plane or a 5/8 wave gain type antenna. I use a 5/8 gain type antenna, which makes possible the reception of the Philadelphia Fire Department(a distance of about 85 miles).

UHF is quite a different story, however. In order to receive Baltimore Police Department, a  $\frac{1}{2}$  wave ground plane is needed for optimum results. To receive optimum results from Washington, DC Police, a beam or a  $\frac{1}{4}$  wave antenna and a preamp is needed from my location.

If I have failed to cover this subject as adequately as you would like, do not hesitate to contact me. I would still appreciate anything you have to offer.

+++++

TIDBITS.....Our readers contribute their valuable information :

David Wilson  
1473 Waterloo Road reports:  
Suffield, OH 44260

Ohio Department of Transportation  
47.22 47.30 47.34 47.40

Massachusetts State Roads  
47.28 47.36

South Carolina State Roads  
47.22 47.34

\*\*\*\*\*

George Matyaszek  
Chicago, IL reports:

Armoured Express Corporation  
463.5

Bankers Dispatch Corporation  
461.275

Central Watchmans Service  
460.90

Burns International Services, Inc.  
461.65

ADT Alarms  
460.95

Industrial Patrol Service  
463.325

Elston Investigators  
461.15

Brinks Armoured Trucks  
159.495

Midwest Security Agency  
151.895

VH May  
461.70

Williard Bureau of Investigation  
461.45

Ketzy-Kane Alarm Company  
460.925

Marand Detective Agency  
461.725

George continued:  
Security Secret Service  
154.54

Star Detective and Security  
461.075  
#####  
Craig Kenneth Willard  
G-33 Montgomery Court reports:  
Narbeth, PA 19072

Main Line Ambulance Bala-Cynwyd  
464.15

Philadelphia Electric Co.  
37.64-37.68-37.78-37.80-47.90  
48.00-

Gillis & Moore Fuel & Heating  
47.56

Philadelphia Suburban Water Co.  
48.10

Narbeth Taxicab Company  
152.30 - 157.56 KGH 204

Newtown Marple Taxicab Company  
152.33 - 157.59 KGD 947

Ardmore Taxicab Company  
152.30 - 157.56 KEV 965

Patrick T. Gallagher & Sons  
152.33 - 157.59 KAU 994  
Bala-Cynwyd

Bell Taxicab Company  
152.33 - 157.59 KGA 450  
Chester

Pendel Cab Company  
152.36 - 157.62 TKL 466  
Lansdowne





# VHF UTILITY DX

Pat Dyer  
5315 Silvertip Drive  
San Antonio, TX 78228  
Deadline: 5th of month

DECEMBER 1978

Randall B. Clark, Rte 5 Dutch Ridge, Parkersburg, WV 26101 EDT used

10-17: 1156-1328, BBC-1 41.50 Divis, Northern Ireland (TV audio)

20: 1144-1222, same; also again on Oct 21.

(Oct 17 & 19 MUF's well above 47 MHz)

Neil Dickerson, 426 State Street, Sharptown, MD 21861 PRO-1 new under.

9-23:	10-8:
1200 KPC48 33.98 Fairfield, CA-f	1330 KMA706 33.90
KPC36 " Belmont, ""	1400 KSV810 33.08 Portland, OR-ho
1201 WCD269 " Downey, ""	1402 KOB683 33.98 Klamath Falls, ""-f
WSK76 " Rancho Cordova, ""	1411 KAW575 " " " " " "
1203 KPC92 " L.A., ""	1426 KUY334 " Sprague River, ""
WJY62 " San Jose, ""	1430 KFD671 " Seattle, WA-"
KMA706 33.82 L.A., ""	1436 KRB520 39.48 San Dumas, CA-p
1205 KOT54 33.98 Sacramento, ""	1439 KTS672 " Malibu, ""
1216 KME585 33.70 L.A., ""	1440 KRB521 " 1441 KFN501
1230 KFN501 37.18 Salem, OR-1g	1500 KDN587 37.98 San Diego, ""-1g
1242 KMA628 39.08 L.A., CA-p	1504 KMA628 39.60 L.A., ""-p
1300 KMF619 33.78 Beverly Hills, ""-f	KRB523
10-1:	1507 KMP966 39.94 Meadow Lakes, ""
1200 KPC98 33.98 Modesto, CA-f	1510 KMD934 42.34 El Centro, ""-sp
WCB515 " Kings Beach, ""	KMB520 " S.L. Obispo, ""
WSK76, KOT54; 1201, KPC92	1513 KMB524 " S. Barbara, ""
1202 KOT77 33.98 Redding, CA-f	1515 KMH724 " Lancaster, ""
1204 KMA706 33.70	1517 KMA628 39.18
1215 KSU412 33.76 Strawberry, ""	1520 KSL862 39.52 Marin, ""-p
10-3:	1521 KML503 39.04 Chino, ""
1200 KME585 33.90, KPC92; 1204 KOT54	1525 KRB522 39.14 L.A., ""
10-7:	1530 WGW84
1000 33.98 Russian ?	10-15:
1028 45.02 French	1830 KMD908 42.88 Santa Rosa, CA-p
1030 KKG229 37.10 Camden, AR-p	KOB877 " Tillamook, OR-"
KTS667 " Jonesboro, ""	KRB411 " L.A., CA-"
1034 39.10 Spanish	1831 KOA745 " Portland, OR-"
1100 KOT77, WSK76; 1102 KMA706 33.82	KMA501 42.56 Stockton, CA-sp
1115 KET216 39.10 Norco, CA-p	1832 KMD952 42.34 S. Bernardino, ""
1116 KRB523 39.24 Temple City, ""	1833 KME357 " San Diego, ""
1120 KRB521 39.48 Altadena, ""	KMD934
1124 KRB523 " KDC275 " Ventura, ""	
1127 KMA629 39.32 Lancaster, ""	1835 KMD494 42.12 Redding, ""
1130 44.74 Arabic ?	KME383 " Scotia, ""
1136 KME585 33.70	1840 KMH700 42.34 San Jose, ""
1200 KPB77 33.98 Ferris, CA-f	1842 KMB521 " Ventura, ""
KPC92	1843 KOB308 42.94 Klamath Fls, OR-p
KOT56 " San Bernardino, ""	" " " " " "
KFC42 " Camino, ""	1844 KOB311 42.88 Burns, ""
WCA934 " Sacramento, ""	1845 KME524, 1846 KMH724
1201 KPC48	1847 KMJ214 42.34 Laguna Beach, CA-sp
1204 KMG412 33.66 " " " " " "	1848 many CHP mobiles 45.02 L.A. area
1210 KSU411 33.76 San Bernardino, ""	1852 KMB440 42.08 Redwood City, ""
1230 WGW84 33.98 San Luis Obispo, ""	KLE850 42.34 Richmond, ""
1730 KRB523 39.82, KRB521 39.82	1853 KCY564 42.44 Petaluma, ""
1735 KRB521 39.72	1854 KMK518 42.34 L.A., ""
10-8:	" " " " " "
1300 KPC92, 1302 KPB77	1855 KMD950 42.34 Fresno, ""
1305 KBF615 33.70 Glendale, CA-f	KME640 42.12 Downieville, ""
1309 KPC98, 1326 KME585 33.70	1856 KMC985 42.46 Modesto, ""

Dickerson cont.

10-15:

1857 KMC926 42.12 Sonora, CA-sp  
 1858 KMJ458 " Redlands, " "  
 KMC983 42.34 Merced, " "  
 1900 KPA409 " Bakersfield, " "  
 KME318 " Willits, " "  
 KME922 " Truckee, " "  
 1901 KOG382 39.82 Laurel, MT-p  
 1902 KOG982 " Twin Falls, ID-"  
 1907 KOG986 " Gooding, " "  
 KOH637 " Billings, MT-"  
 1909 KAX234 " Pocatello, ID-"  
 1910 KDG310 " Goose Hump, " "  
 1911 KEG654 " Galen, MT-"  
 1913 KOB521 42.88 S. Lake City, UT-"  
 1915 KOB344 " Tocoale, " "  
 KOA983 42.94 Marysville, " "  
 1916 KOG904 " Monticello, " "  
 1917 KOF249 42.82 Cheyenne, WY-"  
 KOF265 " Casper, " "  
 1918 KOF342 " Rock Springs, " "  
 1920 KOF244 " Riverton, " "  
 1921 KOF245 " Gillette, " "  
 1922 KRB521 39.28/48/52/60/72/82  
 KRB523 39.48/52/60/82  
 too many in 33-39 to mess with  
 1930 KDB676 42.34 Downieville, CA-sp  
 1934 KVM210 45.08 Hanna, WY-p

10-15:

1939 KOF936 42.94 Carson City, NV-p  
 1940 KOH704 " Las Vegas, " "  
 1942 KOH624 42.88 Reno, " "  
 10-16:  
 1400 KRM805 39.98 Peoria, AZ-p  
 KSN282 39.50 Wikieup, " "  
 1410 KOF577 39.82 Glendive, MT-"  
 1412 KOH637 " "  
 1415 KOB246 " Spokane, WA-"  
 1417 KOI664 39.50 Billings, MT-"  
 1418 KSS279 39.82 Missoula, " "  
 1420 KOM708 " Poplar, " "  
 1530 KOA766 " Superior, " "  
 KOA824 " Big Mountain, " "  
 KOA986 " Stanford, " "  
 1531 KOA722 " Missoula, " "  
 1532 KOB568 " Polson, " "  
 1534 KOH218 " Caldwell, ID-"  
 1535 KOG982 " Twin Falls, " "  
 1536 KOA216 " Great Fls, MT-"  
 1542 KOH855 " Ryegate, " "  
 1545 KYT214 " Cut Bank, " "  
 1547 KOB482 " Big Timber, " "  
 1548 KCG969 " Jerome, ID-"  
 1550 KVV833 " Payette, " "  
 KGW666 " Kuna, "-f  
 1600 KOA999 " Kalispell, MT-p

f-fire, ho-hospital, lg-local government, p-police, sp-state police

A.H. Ellis, 19McClure Avenue, Brantford, ONT, Canada N3R 4L7 GMT

10-23: BBC-1 41.50 England (TV audio)

25: 1900-2200, many unID's CA police on 39 MHz

For those who want to (or have) send tapes to me - the best route is a cassette (mono). I do have a 10-yr old reel-to-reel unit, but it's limited to maximum 3/4-inch reels (2 track mono) and 1-7/8 or 3-3/4 ips. It's better if you also send a written summary of the tape (if that is going to be your report to the column) since I don't always have time to listen and jot it all down. (I've my own logging tapes to go thru.) And, as I like to keep such things, please send a copy, not your original (unless you don't want it back). - PJD

WAL0UB (NH) - 10-21: 1300z BBC 48.25 (audio) very strong

22: 1200-1400z same, weak

Oct 30 0000-0130z 50-MHz Guam (KG6JII) to Alaska (Shemya) and Hawaii; Japan to Hawaii and Argentina; SF Bay area receiving 51.75 audio from Brisbane, Australia.

50-MHz beacon tests run from SF Bay area have provided reception in Tahiti and Cook Island at times (via TE) as late as 0900z.

Gibraltar heard/worked in October by Brazil and Argentina on 6-m.

Remember that EBC Ch 1 video is at 45.00 and that continental Europe (Ch E2) video is on 48.25 (same as BBC Ch 2 audio); Russia and its associates have video on 49.75. BBC and ORTF do have offset frequencies on their channels that can be noticed with a selective receiver. I'm told BBC-1 break for regional news at 1745z so there's a chance to possibly figure out which transmitter you're getting.

Glenn Hauser, c/o WUOT, Univ. of Tenn., 232 C&E Bldg., Knoxville, TN  
37916 HQ-160, FRG-7, Astronaut-6; random wire antennas; GMT used

9-30:	10-31:
1330 30.300 Antigua (DW)	1328 30.140 U.K.
10-15:	1329 30.260 USSR (R.Moscow 2nd ha.)
1406 30.780 U.K. (BBC 2nd harmonic)	30.300 Antigua
1407 30.670 Spain (REE " " )	30.390 Asc.Is.(VOA)
1416 30.360 U.K. (BBC " " )	1330 30.474 Colombia (5th harmonic)
1419 30.270 USSR (jammer, "UM" ID)	1339 30.290 Recife,Brazil (2nd " )
1420 30.140 U.K. (BBC 2nd harmonic)	1346 30.360 U.K.
10-31:	1600 41.250 France (TV audio)
1325 30.328 Colombia (R.Super,5th")	41.500 U.K. (BBC-1, TV audio)
1328 30.210 Ascension Is.(BBC 2nd")	2150 30.520 Asc.Is. (BBC 2nd harm.)

Bob Billings, WB2RLK/VEL, RR 1, Bridgewater, NS, Canada B4V 2V9 TR-6 & 11-element beam for 6-m; GMT

10-30: 1345-1430 50.0 to 50.250 full of European TV video buzz  
31: 1822-1832 California (believed to be the first transcontinental  
50-MHz F2 opening since October 1970)  
11-1: 1351, PZ1AE (Surinam), FY7AS (Fr. Guiana)  
1450, K4ERO/HCl (Ecuador), TI2NA (Costa Rica)  
1830, KZ5NW (Canal Zone)  
2: much as 11-1 only weaker; also HK3RJ (Colombia)

other 50-MHz news briefs -- rumors of California to Japan and Florida to SW Africa (Nov 1); Canal Zone to NV & AZ; VELASJ (NB) hrd PY1RO (Brazil); WALEXN (Maine) hrd Chile; W5KHT (OK) hrd PY2GSS (Brazil) and suspects some 49-MHz Africans.

Now, my loggings. Hallcrafters SX-62, Hammarlund SP-600-JX-10 with 2 30' long-wires at 12' (nw-se, ne-sw runs); Swan 250 with Ameco nuvistor preamplifier and 5-el Cushcraft horizontal Yagi at 23' for 49.5+ stuff; GMT used, all F2 unless noted (bs-backscatter) \* Es; daily peak MUF's noted; new underlined

10-5:	10-7:
2255 <u>KJU806</u> 35.58 Oxnard,CA-tp*	2201 KDR298 33.86 Somerville,MA-f
10-6:	2204 KCB404 33.82 Ashburnham, " "
1400 <u>KCE816</u> 33.58 Southington,CT-f	2205 KCA633 33.90 Middleboro, " "
KBZ283 33.90 Orford,NH-rf	2216 KDC288 " Hollis,NH-"
1415 US 35's n.e.	2217 KCD346 33.80 Tolland,CT-"
2145 <u>KCD497</u> 33.64 Buzzards Bay,MA-f	2218 KDT357 33.96 E. Lyme,CT-"
<u>KCE537</u> 33.70 Sterling, " "	2219 <u>KCB217</u> " Niantic, " "
2154 <u>KCF582</u> " Thomaston,ME-"	<u>KCG491</u> 33.60 Wallingford, " "
2155 <u>KCH585</u> " Rutland,MA-"	2224 <u>KCD492</u> 33.86 Dennis,MA-"
2157 <u>KCY582</u> 33.54 Franklin, " "	2225 <u>KCG249</u> 33.70 Southbury,CT-vf
2159 <u>KCD511</u> 33.70 Camden,ME-"	2226 <u>KPJ537</u> 33.86 Fairview,NJ-f
2200 <u>KCD454</u> 33.9- Hyannis,MA-"	2229 <u>KCF954</u> " Mahwah, " "
2209 -- 35.38 LA,CA-mp *	2231 <u>KRJ839</u> 33.96 Harrison,NY-cf
2307 <u>LU1E1A</u> 50.035 BA,Argentina-a	2232 <u>KEM734</u> 33.94 Canton,CT-f
2327 <u>LU2DEK</u> 50.1- " " "	2233 <u>KCF310</u> 33.66 Chelmsford,MA-"
2328 <u>LU1DAU</u> " " " "	2234 <u>KGD411</u> 33.94 Unionville,CT-"
10-7:	2235 <u>KCF590</u> 33.86 Redding, " -cf
0004 <u>LU9EHR</u> 50.1- BA,Argentina-a	2236 <u>KCF596</u> " Brookfield, " "
0200 <u>LU1DAU</u> 50.1- " " " (TE)	2248 <u>KEJ451</u> 33.78 Toms River,NJ-"
1730 <u>KDA383</u> 33.90 Milford,NH-f	2300 <u>KCF314</u> 33.66 Tyngsborough,MA-f
2007 49.58	2304 <u>KCF364</u> 33.78 Brookline, " "
2146 <u>KCF617</u> 33.70 Middlebury,CT-cf	2305 <u>KCC284</u> 33.-- Tolland,CT-"
2158 <u>KCF582</u>	2311 <u>KGD556</u> 33.66 Orleans,MA-"
<u>KCD820</u> " W Bridgewater,MA-f	10-8:
2159 <u>KCN857</u> 33.78 Winchendon, " "	<u>1445</u> <u>KFO825</u> 33.70 Cheshire,CT-f
2201 <u>KCD454</u>	1518 <u>KCE816</u>

Dyer cont.

10-8:				10-10:			
1542	KCF246	33.90	Marshfield,MA-f	2130	49.58,	2200	KCD511, 2236 KEM734
1546	KCD845	33.70	Brewster, " "	2237	KCD336	33.70	Lincolntonville,ME-vf
1559	KCD497			2245	KDB386	33.66	Pepperell,MA-f
	KCD244		Falmouth, " "	2249	KCE721	33.70	Litchfield,CT-"
2040	low-35	US		2250	KCC705		Holden,MA-"
2041	KCA585	33.90	Plymouth, " "	2259	KEJ451, KDC288		
2200	49.58,	KCD454		2300	KRO266	33.78	Forked R.,NJ-"
2201	KDA381	33.90	Wilton,NH-	2305	KCF367		Brookline,MA-"
	KDR298				KCF366		" " " "
	KCD575	33.70	Cheshire,CT-"		KCF368		" " " "
2252	KBH354	33.90	Rockville Center, NY-f		KCF369		" " " "
2301	KCD411			2325	KFS	34.05	Palo Alto,CA-hac
2302	KCC748	33.94	Windsor,CT-"	2333	KUA288	35.22	Portland,OR-tp
10-9:				2334	KLF527		
2058	KOP303	35.62	Langley,WA-mp	2355	KOP303	35.62,	2357 KOP303 35.46
2059	"	35.46	" " "	10-11:			
2100	KDA383, KCD845			0001	KOB683	33.98	Klamath Fls,OR-f
	KCB999	33.78	Burlington,VT-f	0015	KOK418		
2104	45.25			0019	--	35.26	Salem,OR-mp
2117	KCI233	33.66	Watertown,CT-"	0025	Bend, 0030	KOA796	
2125	KEE909	33.78	Verona,NJ-"	1557	KCI315	33.64	Beacon Hills,CT-f
2136	KEE675	33.82	Middlesex, " "	1559	KCD492, KBZ283;	1600	KDA381
2149	KCA974	33.90	Plympton,MA-	1600	KCE288	33.76	W.Tisbury,MA-cf
2150	KCA351		Duxbury, " "	1932	--	35.26	Seattle,WA-mp
2151	KCB715		Whitman, " "	1945	KOP303	35.46	
	KCC350		E Bridgewater, " "	2152	KCE584	33.90	Poquonock Br.,CT-f
2153	KCA585,	2155	KCH585	2155	KCE869	33.70	Prospect, " - vf
2156	KCF246			2156	KCH585,	KCY582	
2157	KCO382	33.94	Warren,NJ-vf	2159	KVA379	33.84	W.Albany,NY-fd
2200	KBZ283				KIB278	33.78	Plymouth,NH-f
	KEF828	33.74	Vineland, " -f	2201	KCE457	33.86	Newtown,CT-"
2205	KEG253	33.82	Fords, " "	2204	KCB404		
	KCB404			2210	KGD246	33.54	S.Yarmouth,MA-"
	KCC672	33.94	S.Windsor,CT-"		KDX459	33.54	Medway, " "
2214	KCC266	35.58	Springfield,MA-vp	2211	KCE816		
2223	KEA860	35.22	NY,NY-tp	2215	KGC493	33.94	Simsbury,CT-"
2226	KCI299		New Haven,CT-tp	2216	KCH794	33.54	Wrantham,MA-"
2252	KOA796	35.58	Portland,OR-"	2217	KDC288		
2259	KED736	33.86	Fair Lawn,NJ-f	2219	KOD346	33.90	
2300	KEM734			2220	KXV489	33.94	Granby,CT-"
	KRK986	33.90	Noank,CT-"	2221	KCC748,	2225	49.58
2301	KCB217			2302	KCC825	33.70	Kennebunk,ME-"
2305	KZR568		Alton,NH-rf	2330	KOP303	35.62,	2353 KUA288
	KJR227		Belmont, " "	10-12:			
2310	KJP374		Gilmanston, " "	0001	Bend, 0051	KRW461, 0128	KLF527
2312	KOK418	35.46	(west)-mp	1540	KOP303	35.46	
2314	KLF527	35.22	Honolulu,HI-tp	1600	KCB979	33.90	Norwich,CT-f
2334	--	35.26	Eugene,OR-mp	1601	KPS		
2340	35.91	Russian		1605	--	35.26	Portland,OR-mp
2350	KRW461	33.04	Walnut Ck,CA-ho	1935	44.30,	2059	KDA381, 2100 KDA383
10-9:				2205	KCB404,	2214	KDC288
1525	KCA346	37.54	Ellsworth,ME-he	2221	KXV489,	2229	KCI233
1530	KCI299,	1538	KOK418	2230	KCE669	33.70	New Milford,CT-f
1540	Eugene				KCE454		Morris, " -vf
1549	KCH209	33.90	Waterford,CT-f		KEF954		
1551	--	35.26	Bend,OR-mp	2234	KEG722	33.86	Ramsey,NJ-f
1552	KCA585			2235	KCE317	33.70	Ganaan,CT-"
1559	KCA410	33.90	Wareham,MA-f	2236	KCF596,	2240	KEM734
1602	WHB99	33.66	St. Helena,CA-sf	2245	KGD346	33.80,	2247 KDB386
	KPC48		Fairfield, " "	2252	KCK671	33.90	L.George,NY-cf
				2255	KCF264	33.66	Truro,MA-f

## Dyer cont.

10-12:  
 2259 KCF367, 366, 368, 369  
 2300 KCE721  
 2301 KCE526 33.70 Bethlehem, CT-vf  
 2302 KEG663 33.82 Metuchen, NJ-f  
 2305 KCH954 33.70 N Brantford, CT-"  
 2316 Bend  
 2319 KGD384 33.94 Manchester, " "  
 2320 KCG711 33.70 Hamden, " "  
 2322 KCE330 " Milford, " "  
 2324 KSV545 33.94 Windsor, " "  
       KSV611 " " " "  
 2346 Salem, 2351 KRW461  
 10-13:  
 0040 38.90 Russian, 1920 44.85  
 2211 KCD246, 2212 KDX459  
 2212 KGR901 33.98 Rochester, NH-f  
 2310 KOP303 35.46  
 2338 KUA288, Portland, KOK418  
 10-14:  
 0037 KLF527, 1605 KOP303 35.46  
 1613 Eugene, 1615 KFS 34.36  
 1700 KDC288  
 1709 KSV810 33.08 Portland, OR-ho  
 1712 mid-38 Canada, 1905 KOA796  
 2200 KDA383, 2201 KCD454  
 2202 KCN857, 2205 KCA633  
 2210 42.02, 2215 KUA288  
 2217 KCC493  
 10-15:  
 1507 KCI299, 1558 KOP303 35.62  
 1810 KOP303 35.46, 1857 40.62  
 2159 KEE227 33.94 N. Plainfield, NJ-f  
       KEE873 33.86 Salem, " "  
       KEE869 " Upper Saddle R., " "  
 2210 KOB238 37.48 Seattle, WA-light  
 2215 42.45 bs, 2237 37.02 Alberta  
 2239 KCA346, 38.30 Russian  
 10-16:  
 0017 KUA288, 0019 KLF527, Eugene  
 0040 38.42 Canada, 1345 37.41 Russ.  
 1351 BBC-1 41.50 England (TV aud.)  
 1420 ORTF 41.25 France (")  
 1528 KCC405 37.54 Bangor, ME-he  
 1530 KOA796, 1532 KGA695  
 1540 KOK418, 1541 KOB238  
 1558 KDA381, 1559 KDC288  
 1600 KBZ283, 1605 low-38 Canada  
 1625 KOP303 35.46, 1847 49.58  
 2219 KFN501 37.18 Salem, OR-cg  
 2221 KXV489, 2234 KUA288  
 2250 KCN857  
 10-17:  
 1345 38.09 Russian, 1357 ORTF  
 1455 BBC-1, 1527 45.13  
 1535 KUA288, KOP303 35.46  
 1619 mid-37 US, 1740 low-38 Canada  
 2235 mid-37 Russian, 2256 KOB238  
 2342 KOK418  
 10-18:  
 0000 38+ Russian, 0030 KOA796  
 1445 HK3RJ 50.125 Bogota, Col.-a  
       MUF 51+

10-18:  
 1450 WB81WI/4 50.1- SC-a(bs)  
 1500 W2AXU 50.1- NJ-a (bs)  
 2300 KOP303 35.46  
 10-19:  
 1930 US 37's, 2027 KOA796  
 2150 49.58  
 10-20:  
 1400 mid-37 US, 1447 BBC-1  
 1453 ORTF, 1545 41.00 Russian  
 2028 KOP303 35.46, 2029 49.81  
 10-21:  
 1450 ORTF, 1517 49.78, 1600 BBC-1  
 1715 R.F.I. 43.17 Paris-ha  
 1727 KEA860, 1917 KUA288  
 10-22:  
 1450 ORTF, 1520 mid-38 Canada  
 1534 KCI299, KUA288; 1536 KOA796  
 1537 - 35.22 Wilkes-Barre, PA-vp  
 1555 hi-34 Russian, 1559 KEE873  
 1600 KGR450 33.98 Allentown, PA-cf  
 1745 49.58  
 1845 -- 35.38 Modesto, CA-mp  
 1925 hi-37 US, 1955 KOP303 35.46  
 10-23:  
 1345 ORTF, 1350 hi-34 Russian  
 1635 R.F.I. 43.17, BBC-1  
 1815 49.58, 39's US  
 1938 hi-41 Canada  
 2055 -- 35.58 Scranton, PA-vp  
 2138 KUA288, 2145 KCC266  
 2151 KOP303 35.46  
 2158 KCE287 33.94 Rocky Hill, CT-f  
 2200 KCD454  
 2201 KGC522 33.78 Georgetown, DE-sf  
 2203 KCD586 33.94 Wethersfield, CT-f  
 2206 KDR384 33.86 Garfield, NJ-"  
       KCC672  
 10-24:  
 1410 hi-34 Russian, 1437 KEA860  
 1450 ORTF, 1555 BBC-1  
 1705 hi-37 US, 1710 hi-41 Canada  
 1711 Scranton, 1900 KOP303 35.46  
 1903 KCA305 37.54 Eddington, ME-u  
 1905 49.81, 2025 KOA796,  
 2300 mid-37 Russian, 2320 KOB238  
 2329 KFS 34.05  
 10-25:  
 0015 low-38 Russian  
 1535 ORTF, BBC-1; 1655 43's Spanish  
 1705 mid-37 US, 1744 KCC405  
 1855 KUA288, 1857 KCI299  
 1913 KOP303 35.62  
 2201 KJ2993 33.90 Duxbury, MA-f  
 2203 KCE681 33.70 Rockland, ME-"  
 2204 KCB844 " Greenfield, MA-"  
 2205 KCB404, 2206 KCF246  
 2207 KCC672, 2208 KDA383  
 2210 KCE816, 2220 mid-38 Canada  
 2230 KCD845  
 2244 KDZ50 33.66 Woodacre, CA-sf

Dyer cont.

10-26:

1500 ORTF, 1558 KUA288  
 1601 KCG964 33.76 Terryville, CT-f  
 1603 KED69 33.94 Livermore, CA-sf  
 1605 KJR354 33.90 Seattle, WA-f  
 39.96 Russian  
 1609 KOP303 35.46, 1620 BBC-1  
 1831 KCA322 37.54 Millinocket, ME-he  
 mid-39 Canada  
 1835 KCC266  
 1845 -- 35.38 Sacramento, CA-mp  
 hi-37 US west  
 1846 49.58, 1849 KEA860  
 2020 KOA796  
 2159 KEG776 33.82 Edison, NJ-f  
 2200 KCD454  
 2201 KCA695 33.78 Manchester, NH-"  
 KEE869, 2203 KCF590  
 2204 KED485 33.82 Woodbridge, NJ-"  
 2205 KCC672, 2310 hi-37 Russian  
 10-27:  
 1418 KHERO/HC1 50.1- Quito, Ecuador-a  
 1505 50-MHz bs to OK et al.  
 MUF 50.325  
 1830 39's US, 1840 Scranton  
 10-28:  
 1520 KHERO/HC1, 1800 hi-37 US  
 10-29:  
 1330 KAA893 35.22 St. Louis, MO-tp \*  
 mid-40's Spanish  
 1510 US 35's  
 10-30:  
 0007 KLF527  
 1531 KCB360 33.70 Leominster, MA-f  
 1532 KCH677 " Fitchburg, " "  
 KAX916 " Lunenburg, " "  
 1533 KCD353 " Lancaster, " "  
 KCD658 " Westminister, " "  
 1705 49.58  
 1802 -- 35.46 Oakland, CA-mp  
 1804 KEA860, KOP303 35.46  
 1840 Scranton, KOK418  
 1841 KCI299 -cp  
 2021 KCF805 39.62 Dover-Foxcroft, ME/  
 2043 Wilkes-Barre, 2255 KCE869  
 2257 KCD427 33.-- Rockland, MA-f  
 2258 KOY582  
 2259 KCD574 33.70 Eastham, " "  
 KCA695, KCE457  
 2301 KCD244  
 2303 KED411 33.86 CliffsidePark, NJ-f  
 2310 KCD246, 2314 KDC288  
 2320 WCC 33.86 S. Chatham, MA-hac  
 10-31:  
 1528 KCA305, 1531 KCA346  
 1550 BBC-1 41.50 Divis, N. Ireland  
 1730 HI-43's US, 1845 44.5 Canada  
 1900 KEA860  
 1949 KGA807 35.58 Baltimore, MD-tp  
 2025 LUBAHW 50.1- BA, Argentina-a

11-1:

1424 KEA860  
 1430 FY7AS 50.1- Fr. Guiana-a  
 WB81WI/4 (bs)  
 1450 WA80GS 50.1- OH-a(bs)  
 WA5HNK 50.1- TX-a(bs)  
 1500 KHERO/HC1  
 1655 BBC-1, 43.58 US  
 1750 low-44 Canada  
 2236 KUA288, 2246 KCF246  
 2248 KDJ537 33.54 Deerfield, MA-f  
 2252 KCA328 33.50 Mansfield, " "  
 2255 KCH585  
 2258 KCW348 33.90 FtFairfield, ME-"  
 2259 KCA627 33.50 Easton, MA-"  
 KCG574 " S. Easton, " "

11-2:

1400 KCC705, 1401 KCH585  
 1401 KCH239 33.70 W. Boylston, MA-f  
 KCD658  
 KAV492 " Winchendon, " "  
 1440 49.975 (south)  
 1448 WA5UUD 50.1- LA-a (bs)  
 1520 ORTF, 1528 BBC-1  
 1544 R.F.I. 43.17, 1630 Wil.-Barre  
 1630 low-43 Canada, 1707 Scranton  
 1740 39's Mass, 1757 KCA796  
 1801 KEA860  
 2040 KH6NS 50.1- Oahu, HI-a  
 KH6IAA 50.1- Hilo, HI-a  
 2050 KH6EQI 50.1- Oahu, HI-a  
 2230 KCA695, 2232 KOB238  
 2235 KRZ275 33.70 Friendship, ME-f  
 KDI860 " Rockport, " "  
 2251 KCF582 " Thomaston, " "  
 2256 KSV810, 2300 KCD511

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 a-amateur; cg-county government;  
 f-fire (c-county, d-district,  
 r-region, s-state,  
 v-volunteer)

ha-harmonic (hac-c.w. ha)  
 he-hydroelectric; ho-hospital  
 mp-mobile phone  
 p-police (cp-sheriff)  
 tp-tone pager; u-utility;  
 vp-voice pager

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 late news - G3CSE (England) reports  
 heard 50-MHz signals from VE1 etc.  
 on Nov 1 & 2 et al. near 1500 GMT.

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 So, the North Atlantic path is get-  
 ting well into the VHF F2 MUF's  
 this fall.

73, Pat

WA5IYX

# EASTERN TV-DX

Bill Thompson  
1907 Seneca Street  
Buffalo, NY 14210

December 1978

Deadline: 5th

Several very good-to-excellent tropo sessions in October were noted by some of this month's reporters. Among the most interesting were the coastal ducts observed by Roy Barstow and Jim Alexander. Roy reports good conditions into Virginia on October 13th from his Massachusetts QTH, and noted another super period beginning on the 21st and ending with an 850 mile catch of WEBA-14 SC on the morning of the 23rd.

Midwestern tropo development was influenced by an unusually mild October weather pattern caused by the major west-to-east jetstream, which has stayed a bit further north than expected. As of early November, wintry weather appears to be on its way, so the generally "up" tropo conditions in more northerly locations won't last much longer.

Some good out-of-season Es activity has taken place in October, with MUF noted into FM around midnight of the 19th. Another good date may have been October 28th in some areas.

Peter Sawatzky R.R. #4 Guelph, Ontario N1H 6J1 (EDT/EST after 10-28)	
<u>July</u>	21 Tr 0650 WAND-17 IL 22 Tr 1129 WICD-15 IL 475
19 Tr 2320 WTAP-15 WV 295	Decatur 515 1132 WSJV-28 IN
22 0159 WNEP-16 PA 280	0651 WHPN-19 AL Elkhart 320
25 2301 WFFL-55 IN	Huntsville 695 1142 KDNL-30 MO 615
Ft Wayne 300	1728 WSVN-47 VA 1200 WFIT-34 IN
2316 WKJG-33 IN 300	Norton 475 South Bend 315
2324 WANE-15 IN 300	1858 WOUC-44 OH 250 1930 WOUC-44 OH 250
2344 WBAK-38 IN 460	2000 W41AA-41 WV 1959 WSVN-47 VA 475
26 0022 WUHQ-41 MI 250	Wheeling 2030 WTAP-15 WV 295
0034 WPTA-21 IN (WVUW-24 xltr)	2108 WNSC-30 SC
Ft Wayne 300	2058 WKMR-38 KY Rock Hill 600
0118 WFIE-14 IN Morehead 405	2158 WDRB-41 KY
Evansville 540	2303 WKHA-35 KY Louisville 465
0138 WANE-15 IN 300	Hazard 23 2132 WTAP-15 KY 295
<u>August</u>	2307 WHIZ-18 OH 260 2136 WKMR-38 KY 405
11 Tr 0002 WOSU-34 OH 275	2323 WKYH-57 KY 460 2229 WOUC-44 OH 250
18 2349 WPTA-41 VT	2329 WMLU-33 WV 2312 WHIZ-18 OH 260
Windsor 390	Huntington 370 2323 W41AA-41 WV
19 0027 WUPR-20 NY 260	2332 WKEF-22 OH 0001 WOSU-34 OH 275
0028 WCDC-19 MA	Dayton 330 0742 WWPB-31 MD
N Adams 365	2339 WZTV-17 TN Hagerstown 300
"Tropo on FM to ME	Nashville 625 0745 WMPB-67 MD
(WMBR 90.1) in that	2357 WPBO-42 OH 445 Baltimore 345
opening!!" 22	0100 WICS-20 IL 545 0756 WBFF-45 MD 345
20 2230 WAAY-31 AL	0132 WLKY-32 KY 465 0802 WAPB-22 MD
Huntsville 695	0137 WMBD-31 IL 515 Annapolis 370
2301 WOSU-34 OH 275	0143 WKEF-22 OH 330
2318 WYUR-48 AL	0203 WNDU-16 IN 315
Huntsville 695	0206 WLEX-18 KY 430
2336 WTVK-26 TN	0209 WDCA-20 DC
Knoxville 560	0213 WHPN-19 AL
2350 WKYH-57 KY	Evansville 540
Hazard 460	0304 WZTV-17 TN 625
21 0054 WOVL-15 AL	0308 WRAU-19 IL 515
Florence 720	0313 WAND-17 IL 515
0056 WFIO-36 AL	0316 WVIA-44 PA 270
Florence 720	0328 WAPT-16 MS
0115 WKPT-19 TN	Jackson 945
Kingsport 500	"snowfree!--my most
0118 KDNL-30 MO 615	distant tropo catch
0127 WTAP-15 WV 295	on TV & FM!"
0226 WLKY-32 KY	1056 WERE-28 PA 270
Louisville 465	1104 WCET-48 OH 375
0249 WTVK-26 TN 560	
	<u>September</u>
	6 Tr 0005 WCDC-19 MA 365
	0735 CHEX-12 ON
	Peterborough 110
	0743 WNDU-16 IN 315
	0750 WSJV-28 IN 320
	12 0025 WNEP-16 PA 280
	<u>October</u>
	31 Tr 2228 WCFC-38 IL 375
	WCAB-50 IN
	St John 395
	<u>November</u>
	1 Tr 2159 WCFC-38 IL 375
	2225 WANE-15 IN 300
	2256 WMYT-36 WI
	Milwaukee 385
	2259 WUHQ-41 MI 250
	2304 WNDU-16 IN 315

"My machine caught an Es opening in the wee hours of October 19 up to 90.1 KERA Dallas TX. Definitely not MS, as it produced quite a bit of tape. Wonder if anyone else caught this unusual opening? Still hoping for another superopening with the warm November wx we're having!" Report above only includes 2504 mile DX.

Karl Forth 1406 Schneider		SIU	Carbondale, Illinois 62901 (CDT)						
<u>August</u>		20 Tr	2150	WKON-52 KY	240	22 Tr 1723	WHAS-11 KY 180		
18 Tr	2229		2153	WKPT-19 TN	370		WGOT-48 OH 265		
19	0032		2155	WSBT-22 IN	300		WCVN-54 KY 270		
	0042		2159	WVVU-24 WV	510	1900	WAPB-22 MD		
	0044		2200	WVIA-44 PA			Annapolis 685		
	0048			Scranton	765	1916	WLWT-5 OH 265		
	0058		2209	WDAU-22 PA		1936	WBFF-45 MD		
	0159			Scranton	765		Baltimore 685		
	1800		2214	WTVQ-62 KY	255	1949	WMPB-67 MD		
	1812		2218	WBRB-28 PA			Baltimore 685		
	1822			Wilkes-Barre	760		WCPO-9 OH 265		
	1824		2221	WNEP-16 PA		25	2259	KHIN-36 IA 390	
	1830			Scranton	765		2335	WLJT-11 TN 135	
20	0148		2228	WSEK-46 NY			2339	WKNO-10 TN 175	
	0158			Binghamton	770		2341	WBBJ-7 TN 130	
	0300		21	0030	WDRF-12 TN	275	26	0007	KBMA-41 MO
	1400			0036	WAPI-13 AL	325			Kansas City 295
	1500			0042	WRGB-3 TN?	T		0052	KCBJ-17 MO
	1600			0927	WTVV-9 MS	250			Columbia 185
	1630			1459	WMUL-33 WV	370		0055	W49AA-49 IL 135
	1739			1501	WCTE-22 TN			0059	KOMU-8 MO
	1915				Cookeville	225			Columbia 185
	1925			1845	WFYI-20 IN	200		<u>September</u>	
	1930			1900	WPBO-42 OH	340	4 Tr	2300	WGIA-3 IL 205
	2000			1910	WOSU-34 OH	370		2307	KYIN-24 IA
	2028			2130	WUAB-43 OH	440			Mason City 400
	2056			2140	WKAS-25 KY	355		2310	KWWL-7 IA
	2057			2144	WDHO-24 OH?	T			Waterloo 370
	2058			2150	WJKW-8 OH?	T		2330	WILL-12 IL 205
				2200	WAKR-23 OH			2338	WRAU-19 IL 190
	2059				Akron	475		2346	WEEK-25 IL 190
	2100			2204	WMBD-31 IL	190	5	0123	WPTV-4 IN 185
	2110			2215	WNEO-45 OH		9	0016	WBIQ-10 AL 320
	2134				Alliance	475	14	2200	WPTY-24 TN
	2139			2226	KDUB-40 IA	345			Memphis 190
	2142			2229	WPGH-53 PA		23	1830	WCFT-33 AL 320
	2146				Pittsburgh	525	29	1130	WKPI-22 KY 370

"Equipment: Sony TV-115 B/W portable with 4-bay Archer UHF antenna, at about 130 feet. Living on the 14th floor here has far exceeded my expectations, almost any change in the weather will bring on good cx. I face the SE, so KY, TN, AL, etc. is in often but MO, IA, and northern IL are rare. Underlined stations represent stations logged only on the date shown, many of the others are regulars or have been received again. Carbondale log total is 137, with no Es or Ms. According to the January VUD, the two Baltimores logged here are records. Targets for fall tropo are NC, SC, GA, maybe even FL; after 8/20-21, I think just about anything is possible from this location. 73"

Robert Kramer 1409 Mae Smith		SIU	Carbondale, Illinois 62901 (CDT)					
<u>August</u>		28 Tr	2222	W68AA-68 IL		4 Tr 0000	WSJV-28 IN 410	
25 Tr	2310			Champaign	175	0530	WWTW-9 MI 499	
				(WAND-17 xltr)			WSBT-22 IN 400	
			2224	WCAE-50 IN			WKOW-27 WI 400	
	2314		31	0450	WMAQ-5 IL	302	WDHO-24 OH 450	
					WGN-9 IL	302	WUHQ-41 MI 400	
				0458	WBBM-2 IL	302	W49AA-49 IL 150	
	0002			<u>September</u>			WGPR-62 MI 450	
			1 Tr	0830	W49AA-49 IL		WSNS-44 IL 302	
					"snowfree"	0545	WKBD-50 MI 450	
					WSNS-44 IL	302	0553	WREX-13 IL
					KDUB-40 IA	310	0558	WIFR-23 IL
					WKOW-27 WI	400		WGN-9 IL
					WIFR-23 IL			WMTV-15 WI 400
				0844	WHME-46 IN	400	0605	WISN-12 WI 400
					W68AA-68 IL	175	0610	WLV3-56 MI 450
				1922	W49AA-49 IL	150		W68AA-68 IL 175
				1950	WHME-46 IN	400	0617	WFLD-32 IL 302
					WCAE-50 IN		0620	W70AO-70 WI
					WSNS-44 IL	302		FOU du Lac 475
27	0000				KDUB-40 IA	310		(WISN-12 xltr)
28	2220		4	0000				



Robert Kramer (continued)  
September

4 Tr 0620	W72AJ-72 MI Escanaba 550 (WLUK-11 xltr)	4 Tr 2025	WILL-12 IL "over local KFVS"	5 Tr 2003	KDUB-40 IA 310 WHMB-46 IN 400 W49AA-49 IL 150
	W75AJ-75 WI Fon du Lac 475 (WBAV-2 xltr)		"over local xltr"	2030	South Bend U's WCAB-50 IN "local grade"
	W76AI-76 MI Escanaba 550 (WLUK-6 xltr)	2025	KHIN-36 IA 500	2135	WI PR-23 IL
0635	W77??-77 "MI or WI"	2044	WLEF-36 WI 600	2151	WFPT-55 IN 450
0652	WFPT-55 IN 450	2057	WPNE-38 WI 475	2332	WGTV-29 MI 524 WKBT-8 MI 450 WXOW-19 WI 450
0709	WHMB-46 IN 400		WGVC-35 MI 400	2342	WHBF-4 IL
0721	WLEF-36 WI Park Falls 600	2240	WHLA-31 WI 450	6 1420	KWWL-7 IA 360 "local grade"
0743	K59??-59 IA (WHO-13 xltr)		WXOW-19 WI 450		WBAU-13 WI 500
	WNIT-34 IN 400	2243	WHRM-20 WI 575		KRIN-32 IA 360 WLEF-36 WI 600
	WHWC-28 WI 575		K33AA-33 IA 250 W49AA-49 IL 150	2150	WHO-13 IA 360
	WPNE-38 WI 475		"local grade"	2230	KDIN-11 IA Des Moines 360
	WGTV-29 MI 524		Peoria U's like locals	7 0530	Grand Rapids V's 400
	"snowfree"	2300	KAAL-6 MN Austin 575		Chicago V's except 11 302
0800	W33??-33 WI (WISN-12 xltr)	2317	WTCN-11 MN Minneapolis 650	0830	WGPR-62 MI 450 WTVS-56 MI 450 WKBD-50 MI 450 WFPT-55 IN 450 WUHQ-41 MI 400 WGVC-35 MI 400
0823	K33AA-33 IA 300	2342	WKBT-8 WI LaCrosse 450		Chicago U's WHMB-46 IN 400
	KYIN-24 IA 500	2352	KIIN-12 IA Iowa City 330	23	1900 KRIN-32 IA 360
	KHIN-36 IA 500	2358	KITC-10 MN 575	24	0030 WHO-13 IA 360 KWWL-7 IA 360
	KRIN-32 IA 360	5 0020	W33??-33 WI (WISN-12 xltr)	25	0830 WILL-12 IL "over local KFVS"
2015	KYIN-24 IA 500 like a local	0030	KMSP-9 MN Minneapolis 650	0830	WKOW-27 WI 400 WUHQ-41 MI 400 WFLD-32 IL 302 W49AA-49 IL 150
	WKOW-27 WI 400	0100	KIIM-3 IA Mason City 500		October
	WHA-21 WI 400	0108	WMT-2 IA Cedar Rapids 340	11 Tr 2045	WCFC-38 IL 302 WSNS-44 IL 302
	WLEF-23 IL Chicago U's	0820	WHWC-28 WI 575		Present log totals: 207 stns, 27 states (Tr & GW)
	WHWC-28 WI 575 like a local	0830	WXIX-19 KY 300		
	WNIT-34 IN 400		KYIN-24 IA 500		
	WNVT-36 WI 400	1920	WBAU-13 WI 500		
	KDUB-40 IA 310		KRIN-32 IA 360		
	WUHQ-41 MI 400		KYIN-24 IA 500		
	WHMB-46 IN 400		WHWC-28 WI 575		
	WCAB-50 IN	2003	Chicago U's "local grade"		
	WSJV-28 IN 410				
2025	WVTV-18 WI 400				

"Trop, after being good for the first few weeks down here, has completely disappeared. Between August 17 & September 6, I logged 97 new stations down here. Since September 6, not one newie... Overall, this was an excellent year for trop, but a poor one for skip. Going into this year, in Chicago, anything over 300 miles was rare. This season, 300 mile range was very common, with 400-500 miles and above occurring almost weekly (sometimes even more often). The trop of July 3-7 was my best period (from Chicago) ever, and the 12-15 opening wasn't far behind it. The trop down here has been unreal. Until I came down here, I had never seen 600 miles. Now I have logged over 750 miles. It's too bad I didn't bring down my camera. But the tape recordings of most of the stuff are quite interesting. All mileages are at best guesses. When I get home, I'll be working on figuring them for quite a while. The translators of August 25 & 26 are some of the unIDeds I had listed in the October VUD. My unIDed xltr on channel 33 of 9/4 could have been K33AA, picking up WISN-12 instead of KIIN-12 (which wasn't on the air that early)...73."

Michael L. Hogan 13910 Chippewa Ave. Apt. 1 Burnham, IL 60633 (312)868-4392  
"There really has been little or no DX to speak of recently at this, my new location. I did notice some fairly strong tropo openings on the evening of 10/31 and again on 11/1 but no new catches were noted. I guess it will be a wait until next year for Es or any strong tropo openings. 73's"

Don Ruland 4448 68th Place Kenosha, Wisconsin 53142 (GDT)

This DX report covers the major September 3-9 tropo opening as well as a little 'surprise' yesterday morning (10-24). I missed out on the bulk of the late August activity, as was on vacation out-of-town until August 23 (apparently August 19-22 were the better days, according to Bill Draeb's last report). I knew I was missing some good tropo when I turned on TV in Holiday Inn at Richmond, KY (enroute home) on Monday night August 21 & Tuesday a.m. August 22--saw WISN-12 at about 450 miles as well as mucho QRM on all channels. On more positive side were the 12 new loggings seen between September 4 and 7, including longest translator logging of W39AB Greeneville, TN at 510 miles plus VHF's and UHF's across the Appalachian Mountains. Log stands at 470, with 12 new this report. Best DX--73's."

September

3 Tr 2245	WKYT-27 KY 360	5 Tr 0730	WKMJ-68 KY 330	7 Tr 0455	WGHP-8 NC
	WTWQ-62 KY 360	1900	WGTO-8 MI		High Point 620
	WXIX-19 OH 300		Sault Ste Marie 330		WXII-12 NC
	WCFT-48 OH 300	6	0525 WAVE-3 KY 330		Winston-Salem 620
2300	WWUP-10 OH 330		WHAS-11 KY 330		WHIZ-18 OH 360
2315	CICG28-28 OH 400		WLKY-32 KY 330	0500	WHIS-6 WV 520
4	0455 WBWS-5 OH 330		WCCO-4 MN 320		WBWS-5 OH 330
	WJKW-8 OH 330	0530	WTCN-11 MN 320		WJKW-8 OH 330
	0500 WHAS-11 KY 330		KSTP-5 MN 310		WUAB-43 OH 330
	WAVE-3 KY 330		WHO-13 IA 310	0510	WKYH-57 KY 440
	WLKY-32 KY 330		KELO-11 SD 450	0518	WCHS-8 WV 430
	WWUP-10 MI 330	0545	KYTV-3 MO	0525	WCHH-4 OH 320
	0515 WUAB-43 OH 330		Springfield 470		WTVN-6 OH 320
0545	WKYT-27 KY 360		KSD-5 MO 300		WAVE-3 KY 330
	WTVQ-62 KY 360	0555	WKYT-27 KY 360		WHAS-11 KY 330
	1930 WLRB-36 WI		WTVQ-62 KY 360		WLKY-32 KY 330
	Park Falls 280		KCBJ-17 MO 340	0542	WPTF-28 NC
2000	KYIN-24 IA 270	0600	WDRB-41 KY 330		Durham 660
2030	KEYC-12 MO 330		KBMA-41 MO 430	0555	WKYT-27 KY 360
2130	KYIN-21 IA 320	0610	KMBG-14 IA 430		WTVQ-62 KY 360
2140	KDNL-11 IA 310		KCCI-8 IA 310		WKPT-19 TN 510
	KDNL-30 MO 300	0615	WLKX-18 KY 360		W39AB-39 TN
2155	KMBG-14 IA 430	0630	K33AA-33 IA		Greeneville 510
2200	KFCI-17 MN 310		Ottumwa 260	0600	WFMJ-21 OH 380
2202	WOI-5 IA 300	0645	KXNB-19 NE 480	0610	WJHL-11 TN 520
2230	WTCN-11 MN 320	0650	WFIE-14 IN 320	0630	WPGH-53 PA 430
5	0440 KPLR-11 MO 300		KDNL-30 MO 300	0645	WAKR-23 OH 340
	WJUC-6 MI 280	0730	K76BZ-76 IA	0700	KDNL-30 MO 300
0445	WJET-24 PA 400		Ottumwa 260		WMUL-33 WV 420
0515	WCCO-4 MN 320		(WHO-13 xltr)	2230	WSVN-47 VA 480
	WTCN-11 MN 320		WKSO-29 KY 420		WPBO-42 OH 420
	KSTP-5 MN 310		WKMR-38 KY 380		WKPT-19 TN 510
0525	KFVS-12 MO 370		WKON-52 KY 330	8	0515 WDBJ-7 VA 560
0545	W72AJ-72 MI 240		WKPC-15 KY 330		WLSL-10 VA 560
	W76AI-76 MI 240		WKMJ-68 KY 330		WKII-12 NC 620
	"72 repeating	1900	WSIU-8 IL	0522	WLOS-13 NC 570
	KPLR-11"		Carbondale 350	0525	WJHL-11 TN 520
0548	WSEE-35 PA 400	2215	WKYH-57 KY 440	0530	WATE-6 TN 510
0550	WUAB-43 OH 330		KMTC-27 MO 470		WBIR-10 TN 510
0555	KTV-4 IA 430	2230	KOZK-21 MO	0555	WKPT-19 TN 510
0600	WKYT-27 KY 360		Springfield 470	0615	WTVK-26 TN 510
	WTVQ-62 KY 360		WXIX-19 OH 300		WKYT-27 KY 360
	KCBJ-17 MO 340		WCET-48 OH 300		WTVQ-62 KY 360
	WKYH-57 KY 440		WMUL-33 WV 420	0620	W39AB-39 TN 510
0615	KEYC-12 MN 330		WPBO-42 OH 370	2230	WPBO-42 OH 370
	KCCI-8 IA 310		W58#-58 OH	9	0500 WJLT-5 OH 300
0625	WMUL-33 WV 420		Higginsport 330		WXIX-19 OH 300
0645	WOI-5 IA 300		(WCET-48 xltr)		KMOX-4 MO 300
	KTV-3 IA 260	7	0445 WYTV-33 OH 380	0525	WBIR-10 TN 510
0650	KMBG-14 IA 430		WKBN-27 OH 380	0600	WKBN-27 OH 380
0700	KELO-11 SD 450		WTRF-7 WV 420		WYTV-33 OH 380
0710	WFIE-14 IN 320		WOWE-13 WV 420		WAKR-23 OH 340
0730	WKSO-29 KY 420		W57AG-57 WV		WPGH-53 PA 430
	WKMR-38 KY 380		Farkersburg 400	0600	WLEX-18 KY 360
	WKON-52 KY 330		"WMUL-33 xltr		WKYT-27 KY 360
	WQGB-53 KY 400		repeating		WTVQ-62 KY 360
	WCVN-54 KY 310		WYTV-33 OH"		WLKY-32 KY 330
		0453	WHAS-11 KY 330	0615	WXIX-19 OH 300

## Don Ruland (continued)

September		October	
26 Tr 0615	WCET-48 OH 300	26 Tr 0655	WPGH-53 PA 430
	W58#-58 OH 330		WUAB-43 OH 330
0645	KTIN-21 IA 320		0700
	KHIN-36 IA 400		KBIN-32 IA 420
0650	WFMJ-21 OH 380	24 Tr 0545	WHO-13 IA 310
	WKBN-27 OH 380		0550
	WYTV-33 OH 380		KPLR-11 MO 300
			0555
			KBFA-41 MO 430
			0600
			KCCI-8 IA 310
			24 Tr 0645
			WHNT-19 AL 550
			0653
			KRCG-13 MO 360
			0655
			KMTC-27 MO 470
			0700
			KOLR-10 MO 470
			0730
			KTJV-16 MO 520
			WYUR-48 AL 560
			WKGB-53 KY 400

## Paul L. Gaines 15920 Puritan Street Detroit, Michigan 48227 (BDT)

September		October	
10 Tr 0207	WWUP-10 MI 285	10 Tr 0226	WOWK-13 WV 280
			0328
			WBAT-2 WI 275
			11
			0318
			WSAZ-2 WI 280
			0319
			WSAZ-3 WV 280
			0319
			WFTV-4 IN 280

## Steven Shaffer 10956 Indianapolis Blvd. Box 4 Hammond, Indiana 46326 (CDI)

August		September	
4 Tr 0550	WXYZ-7 MI	23 Tr 0845	unID-32 PBS
21	1000		0937
	WFTV-4 IN		WTVS-56 MI
23	0609		0940
	WKYT-27 KY		Ft Wayne U's
	0610	24	0838
	WKPC-15 KY		WHAS-11 KY
	0615		0608
	WDHO-24 OH		WKBN-27 OH
	0620		0610
	WLKY-32 KY		WFMJ-21 OH
	0838	5 Tr 0838	WRNB-20 WI
	WKBD-50 MI		0840
			WKBD-50 MI
			24
			0215
			WLUK-11 WI
			6
			0657
			WKOW-27 WI

"I hear from John Zondlo that he got a good opening via tropo into Washington DC, but I just wasn't around to get into it. I wonder what success others have had with F2. Also, during the F2 years, is there increased Es activity? (Bs and F2 peak activity are not directly related; there have been both good and bad Es years during F2 peaks -bt) This has been a good tropo season, but it really doesn't compensate for some good long-haul Es, which is much more exciting. '73 & gud DX"

## Frank Wheeler 6589 Wattsburg Road Erie, Pennsylvania 16509 (EST)

October		November	
18 Es 2223	WPBT-2 FL 1098	18 Es 2334	KPRC-2 TX 1210
	2230	19	0004
	WEDU-3 FL 994		KDFW-4 TX 1117
		30 Tr 0830	WCPC-9 OH 307
			Totals: 267, 214 veries

"I was surprised at the tropo on the 30th, I probably could have received more if I had been up earlier."

## Rich Turcsany 7 Cayer Circle Shelton, Connecticut 06484 (BDT)

August		September	
1 Es 0000	WUAB-2 MS 1000	10 Es 1100	WSAY-3 GA
	0005+		Savannah
	unIDs 2, 3		1130
	1100		WSB-2 GA 720
	WTHS-2 FL 1050		WRBL-3 GA
	1129		Columbus
	WESH-2 FL 860		800
	1515	11	1056
	unID-5		WERZ-2 IA 1080
3	1300		1130
	WTHS-2 FL 1050		KETS-2 AR 1000
4 Tr 1500	"usual U's"		WEDU-3 FL 920
	1940	14 Tr 0800	Baltimore U's
	Allentown U's		to Philly U's
5	0000		WSBA-43 PA
	"usual U's"		1000
7	0950		WLYH-15 PA
	WERZ-2 LA 1080		2300
	WLBZ-3 MS? T		Salisbury U's
8	1120		NJ, Philly U's
	WTHS-2 FL 1050		19
	WEDU-3 FL 920		2000
9	1440		Salisbury U's
	WUAB-2 MS? T		15
10	0923		2330
	WEDU-3 FL 920		Salisbury U's
	0946		NJ, Philly U's
	WESH-2 FL 860		16 Es 1045
	0950		unID-3
	WJKT-4 FL		19 Tr 2125
	Jacksonville 810		WENH-11 NH
	1015		Durham
	WUPT-5 FL		160
	Gainesville 860		22
	1038		1000
	WERZ-2 LA 1080		WTVD-11 NC
	1100		Raleigh
	WCBD-2 SC 650		440
			October
			3 Tr 1630
			Scranton U's
			15
			2200
			WYAH-27 VA

Also, frequent relogs of Boston, Springfield, Worcester, and Providence U's. "Unfortunately, I didn't get any of that big tropo most Southern and Midwestern DXers received. However, I was able to get last signs of skip on 8/10, logged 4 new stations. Most unusual station DXed was WTVD-11 on 8/22; WPIX started to roll sync, and later heard audio with ID...more like skip conditions than tropo. (Probably a narrow coastal tropo duct -bt) Good to hear WSNL-67 will be coming back on. W60AI (WTVG xltr) comes in fair w/no fading at all...73's"

Roy Barstow 70 Heritage Circle Teaticket, Massachusetts 02536 (617)548-2329  
 "On raising the TRI X tower this spring the top section bent over and the 7' dish was damaged. So, with a heavy work load, it stayed that way all summer. To make matters worse, the rotor broke for the antennas on my house, so I tied it down aimed towards Boston. In September I got the tower fixed, and it's about 5' shorter. I fixed the damaged dish the best I could. Then, I went to the hardware store and got two pieces of aluminum screening (4' x 4') and attached these to the front of the dish. I wired it to the elements and trimmed all around the dish and let 1" overlap. So now, all that space between the elements is being reflected back to the receiving dipole, the antenna now being 7' 2". I have never heard of this being done and yet it is a simple thing. It just takes a little wiring it on but it works great. I pick up WJMT-17 NY & WLIW-21 NY rain or shine. If anyone wants more detailed info I could write an article for the digest on it. This summer's Es with antenna on roof in a N.W. heading gave me Bs on 5/31, 6/11, 6/12, 6/20, 7/11, 8/1, 8/3, and 8/10. Only new one was KARD-3 KS on June 20th."

October	13 Tr 1900	WHRO-15 VA "snowfree"	13 Tr 1900	W53AA-53 NY (WCBS-2 xltr)	22 Tr 0900	WSBA-43 PA 1130 WBFF-45 MD
		WBOC-16 MD		to W59AA-59 CT (WVIT-30 xltr)	23	0000 WBOC-16 MD WFTA-26 DC
		WCPB-28 MD	2400	"snowfree"		to WYAH-27 VA
		"All Philly stns excellent"	21	evening		WJCL-22 GA
		WTVG-68 NJ		WDCB-16 MD	0200	WRDU-28 NC? T
		W60AL-60 NY		WDCB-20 DC	0825	WUNJ-39 NC
	to	(WTVG-68 xltr)		WETA-26 DC		WJPM-33 SC
		W66AA-66 NY		WYAH-27 VA		WBBB-14 SC
		(WABC-7 xltr)	22	0900		to Allendale
		W57AB-57 NY		WDCB-20 DC		WRLK-35 SC
		(WNBC-4 xltr)		WVIR-29 VA		1120 WCVW-57 VA
		W62AA-62 NY		to "snow free at times, also on ch 46 xltr?"		"WCVW-57 also on or about channel 77." (Probably one of their xlters -bt)
	2400	New York City (WNJU-47 xltr)		1130		WLVT-39 PA

"All of the above stations were picked up with tower not cranked up, and below some scrub pine trees. I should do better after it's up 65'. So watch out Florida, next summer."

Jim Alexander 4 Brook Court Parsippany, New Jersey 07054

October	30 Tr 2300	WPTF-28 NC Durham	31 Tr 0700	WRWT-36 NC Charlotte	520	
30 Tr 2030	WEAK-33 VT Burlington	255	2330	WRJA-27 SC Sumter	580	
	2100	WMBG-26 ME 270		November		
	2230	WJPM-33 SC Florence	31	0700	WCCB-18 NC Charlotte	520
		WUNK-25 NC? T		5	0030	WYAH-27 VA 295 WHRC-15 VA 280 WUNK-25 NC 390 WXEX-8 VA 275

"The October 30th tropo opening brought the first 400-plus mile tropo I've seen at this QTH since coming here over 2 1/2 years ago. The ducting effects were quite interesting, with first WJPM-33 in and no other South Carolina stations, and then WRJA-27 in without any sign of the Columbia U's. It sure was great to finally see some good coastal tropo."

Jeff Wolf 1131 University Blvd. W. Apt. 701 Silver Spring, Maryland 20902

June	1 Es	0014 unIDs 2,3 CCI	12 Es	1700 WEDU-3 FL	21 Es	1017 MUF ch 4
		1930 unIDs 2,3		1900 KFRC-2 TX? T		1124 KARC-3 LA 1000
		2234 unID-3	13	2016 "Cuba-3"	22 Tr	1001 WIVD-11 NC
6		2038 unIDs 2,3	14	2302 unID-2 "weak"		"audio thru WBAL"
		.347 MUF ch 4		1706 MUF ch 4	23 Es	1433 unID-3 ABC
		2650 "Cuba ch 2?"		1724 KTBS-3 LA 983		1440 MUF ch 4
				2200 KOKI-2 KS 1100	24	1007 unIDs 2,3
8 Tr		2357 unID-8	15	1731 KFRC-2 TX		1033 MUF ch 5
9 Es		1707 unID-2 PBS		1906 MUF ch 4		1200 WPBT-2 FL 900
		1900 KQTV-2 MO	20	1701 unIDs 2,3		"Cuba-3"
11		1805 WBBM-2 IL? T		1809 KDLS-3 SD		1230 WEDU-3 FL 846
		1815 unID-3 CBS		Watertown	25	0923 MUF ch 4
		1817 MUF ch 4		1901 MUF ch 4		1048 KBLX-3 TX 1245
		1854 KMTV-3 NE? T		2030 KFTO-3 IA		1100 KFTN-2 OK 1000
		2100 KMTS-2 AR		Ottumwa	26	2353 unID-2 CCI
		2114 WLBZ-3 MS		2100 KLIN-3 NE 1133	27 Tr	2120 unIDs 23, 31
	Tr	2338 unIDs 15, 16		2205 MUF ch 5		
12 Es		1657 MUF ch 4		2329 "Es fade out"		

# WESTERN TV-DX

Bill Block  
9307 S.E. Clay St.  
Portland, OR 97216

DECEMBER 1978

So, far this fall no DX of any kind has been seen here in Portland. Even the Eugene stations some 100 miles are only seen once a week or so. This will be my last Western TV-DX so watch the WUD for the new editor. The main reason that I am giving up this column is because of the very poor support that Frank Aden has received from the members. Since Frank became the WUD editor he has received very little in the way of technical articles. Frank has had all of the info for the WTPDA TV STATION GUIDE done since last spring but so far no guide! And now almost one year later the TV STATION GUIDE will have to be done over again as their is so many changes. Frank has talked to WTPDA Headquarters about the problem but he has received no action. And now on to the reports.

R.W. Battin, 4305 Pitt, Duluth, Minnesota 55804

This will be a very short report. There was absolutely no DX during October. It shows what a strange year this has been. During the summer when DX here is usually mediocre, I was seeing 800, 900, and even 1,000 mile tropo openings. Now comes fall when DX is usually excellent, and there's nothing. And this has even been an unusually warm fall. By the way, I saw Bob Cooper on NEC news. In full color, his set up is even more impressive. Here's hoping that my next report has some loggings to include. A huge high-pressure area has moved in and promises to stagnate over the next few days.

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

Equipment: 1976 model 9-inch black-and-white Penncrest; Archer V-100 and 8-tay bow-tie UHF array at 20 feet w/rotor. New underlined ----- new mode, t-tentative.

October 1978

04 Es 2250-2315 unIDs 2	21 Es 1830 WJSJt 2 TN 1010	28 Es 1110 f/outs
05 Es 0150 WBAY 2 WI 1190	1840 unIDs 2-6	1845-1900 unIDs 2-6
ms 0344 WSB 2 GA 880	1930 MUF 98.9	1900 KTVQ 3 MO 835
Es 1655 unID 2	1959 WPMY 2 NC 1175	WBWM 2 IL 1045
1835 KNXT 2 CA 1190	WWAY 3 NC 1250	WMT 2 IA 945
1910 f/out	2035 WCBdt 2 SC 1120	1959 WFWO 2 IN 935
06 Es 1610-2000 unIDs 2-6	2100 WEDU 3 FL 985	29 Es 0830-0900 unIDs 2-4
1629 XEWO 2 Jal 690	2105 WPBt 2 FL 1150	0858 WFWO 2 IN 935
KNBct4 CA 1190	2115 WESH 2 FL 1055	0945 WBWM 2 IL 1045
1645 YSut 4 El Sal	2250 f/outs	1100 WBAY 2 WI 1190
1750 KTLAt5 CA 1190	23 Es 2035 KOAt 2 AZ 855	1125 f/outs
1915 XETVt6 BCN 1100	unID 3	30 Es 0745 unIDs 2
1932 KNXT 2 CA 1190	2050 KNXTt 2 CA 1190	0800 WESH 2 FL 1055
09 Es 1935-2000 unIDs 2	2150 f/outs	0815 WEDU 3 FL 985
16 ms 0343 WSB 2 GA 880	26 Es 1200 YSR 2 El Sal.	0820 WPBt 2 FL 1015
18 ms 0341 WSB 2 GA 880	1920 WPBt 2 FL 1150	0828 WJXTt 4 FL 1015
Es 1810 WPBt+2 FL 1150	28 Es 0559 WCBd 2 SC 1120	WFWJ 4 FL 1150
1857 YSR 2 El Sal	0605 WCIVt 4 SC 1120	31 Es 0803 WESHt 2 FL 1055
1900 f/outs	0615 MUF 89.3	0825 Cuba 3
1945-50 unIDs 2	0630 WSAV 3 GA 1050	0840 WPBt+2 FL 1150
19 Es 1829 XHBC 3 BCN 1010	0803 WJXTt 4 FL 1015	0845 WEDU 3 FL 985
	0900 WESH 2 FL 1055	0850 apr f/outs

A good late October showing of Es, particularly all the early morning openings (which are rare in non-summer season). Evening Es of October 6 linked with 50-MHz P2 mode to South America ( see my column). WSB-ms ID's nice as they include a digital time superimposed. 73, Pat WA5IYX

Bill Block, 9307 S.E. Clay St., Portland, Oregon 97216

I received a card today from John Anderson saying that he has sent me 2 reports that should have been in the October WUD. I have NOT received these two reports as yet! I have had a lot of trouble with the Portland P.O. as my Phone bill took over one week. It has been fun doing this column. I hope that the members and Headquarters will give the new WUD editor-in-chief more support than it has to Frank. This will be my last report to WTPDA as I will no longer support it. 73 and good DX to all. Bill

December, 1978

DEADLINE: January 9th

## E-SKIP BRIGHTENS AN OTHERWISE VERY DULL OCTOBER

DX activity dwindled quite a bit during October. Major trop openings that October is famous for failed to materialize. Somewhat surprising though, E-skip made a somewhat unusual but modest attempt to take up the slack with showings on four different dates in October along with two September dates. May better DXing be with you in the coming new year.

REPORT YOUR DX TO THIS COLUMN IF YOU ARE FROM: AL, AR, AZ, CA, CO, DE, FL, GA, KS, KY, LA, MD, MS, NC, NV, OK, SC, TN, UT, VA, & WV. ALSO MEXICO.

**Pat Dyer, 5315 Silvertip Dr., San Antonio, TX 78228 - Sept. 1 to Nov. 1, 1978 (GST)**

Equipment: Hallicrafters SX-62 with International Crystal SAX-1 preamp(s); six-el. Archer FM antenna at 20 ft. with rotor. t-tentative

9/2  
Es 1550 WSCIt 89.3 SC Charleston 1120  
WJCTt 96.9 SC Charleston, EL 1120  
1553 WPKT 95.1 SC Charleston, nx, wx  
1600 WJCTt 89.9 FL Jacksonville, nx, FPP  
1615 f/out

9/7  
Es 1930-35 TGRTt 88.8 GU Guatemala City

9/25  
tr 0230 KYKX 105.7 TX Longview, ID 310

10/21  
Es 1859 WBCP 96.9 NC Goldsboro, nx, ID  
1908 WQDR 94.7 NC Raleigh, rk, ID 1230  
tr 1914 KQXY 94.1 TX Beaumont, ads 275

10/21  
Es 1930 unID 98.9 (MUF)  
1945 WQSMt 98.1 NC Fayetteville, "Q-98"  
1950 WRNS 95.1 NC Kinston, k, ID 1275  
1955 f/out

10/28  
Es 0615 WSCIt 89.3 SC Charleston 1120  
1903 WBRIt 90.1 IL Chicago, REL 1045  
WNIUt 89.5 IL DeKalb 1020  
WBEZt 91.5 IL Chicago 1045  
1909 WKZN 96.9 IL Zion, town ment. 1080  
WDAIt 94.7 IL Chicago, rk 1045  
1910 WKCO 98.1 MI Saginaw, k, ads 1250  
1922 unID 98.3 (MUF)  
1930-42 spotty until f/out

Now you can see why I didn't send a report in for September alone. Late October Es openings finally livened things up a bit. October 28th, however, rather meager compared to the several hour event on the same date in 1977 (but pretty much to the same region.) Anyway, the best MUF's in that direction since sometime back in July. '73, Pat WAFIYX

**Randall B. Clark, RT5 Dutch Ridge, Parkersburg, WV 26101 - Oct. 1978**

Equipment: Radio Shack "Patrolman-6" w/30 inch whip for FM-PSB. Contending with WHIL 95.1 at one mile away! All stations are tr and new.

10/3  
0132 WLOS 99.9 NC Asheville, OSLed  
(o/WAF, Super!, state no. 16)

10/5  
2306 WWOV 101.9 WV Logan

10/8  
0108 WKRO 101.9 OH Cincinnati, OSL?  
10/27  
0216 WSEL 99.1 without WIR? in the way.  
Note: That WUD? logging on 6-19 is on 105.1 not 93.1.

Well hello again! Potten ox has yet prevailed within my listening areas as of yet... It's about time that I climb the soap box for a few comments of interest. One thing that I've noticed that's lacking within the VUD is this: Features from the opposite sex on how they got into this most interesting hobby. It would make interesting reading since most 98% of the members are males! Any comments out there? (Don't be too bashful to respond ladies, DE) Speaking of rare DX, I'm proud to announce that I've just snagged none other than RTM-1, Northern Ireland TV sound audio on 41.25 or 50 MHz. First heard on October 17th at 1156 am to 128 pm, EDT. Sure catch! I've heard this several times afterward as well! I received the other day a notarized coverage map from WHIL 95.1, Fayetteville, KY--now that's something you don't get every day!

Wishing you the best of DX and by the time you read it, I'd be a very merry Christmas!

**Rick Sanford, 404 S. McNeill, Burnet, TX 78611 - Oct. 4 to Nov. 2 (GDT/GST)**

Tropo presented me with very few surprises during October, but (like Oct. '77) I did pull in a little off-season Es to liven things up a bit. The Es was first noted on the TV about 1730 with some weak, unIDed FM Es heard shortly thereafter. This soon faded out and I didn't check again until the loggings below were made. From Oct. 10-13 I had a stagnant tr opening which often brought in Monterrey with good signals in the very early afternoon. This opening was basically worthless, however, since not enough new stations were added (probably had Monterrey 94.1 and 100.5 plus Saltillo 94.7, all of which would have been new loggings) and the distances were short-range. KBT Midland and KHQO Monterrey (both 93.3) didn't have much trouble making it in over the new 100Kv "loc-1" KIXS, during this strong tropo to the south and west. Not all Mexican stations heard at a given time are logged since getting satisfactory IDs is more difficult and

-cont-

time consuming (especially for one who doesn't have much Spanish expertise and since most have been heard many times before and all are under 400 mi.) I can't see that they're worth the extra time. For example, XHRL 98.1, Monterrey is heard a large percentage of the time when XHJD is in, but these are usually the only Monterrey stations heard during weak openings.

10/6

Es 1902 XNJE 94.1 PU Puebla, ID and  
"La Chica Musical"  
1904 XHJM 92.5 PU Puebla, ID, "\$ Rey"  
1938 KIFM 98.1 CA San Diego, ad  
1940 KSON 97.3 CA San Diego, ad, k  
1942 KFSD 94.1 CA San Diego, ID  
1944 KKKY 98.5 CA Cathedral City, nx, ID  
1948 KKKY 96.5 CA San Diego  
1951 KB?? 94.9 CA San Diego, was KLRO  
but IDed as "The New K-Bess 95-FM", nx  
1954 XHRM 92.5 FCN Tijuana, S. D. nx  
plus a few unIDs from CA & MX this eve.

10/10

tr 0101 KYKK 94.1 NM Humble City, s/off  
0105 XHJD 98.9 NL Monterrey 365  
0830 KBIM 94.9 NM Roswell, nx 410  
0833 KOYL 97.9 TX Odessa, ID 255  
0834 KQIP 96.9 TX Odessa, ID  
0858 XHJD 98.9 NL Monterrey, "\$ 99"  
0914 KYKK 94.1 NM Humble City 325  
1241 XHEC 91.9 COA Sabinas, many 265  
times tent., "aqui en Sabinas", heard  
other times during this tr spell.  
1249 XHSRO 92.5 NL Monterrey, "\$ Rey"  
2017 XHJD 98.9 NL Monterrey  
2037 KWOE 106.9 OK Clinton, ID 325  
2351 XHPJ 106.9 NL Monterrey, \$, cl,  
hard to believe this one has a primary  
of four mi. when you've seen it on  
the verge of pegging the meter as  
many times as I have.

10/11

tr 0757 XHJD 98.9 NL Monterrey 365  
0805 KOYL 97.9 TX Odessa, ID 255  
0925 KQIP 96.9 TX Odessa, ad  
0931 KOCY 91.3 TX Odessa, wx, w/KNCT  
1014 KTDY 99.9 LA Lafayette, ad 385  
2159 XHJD 98.9 NL Monterrey  
2358 KHYS 98.5 TX Port Arthur 260  
(ID & "Kiss-98", now disco, was p)

10/12

tr 0734 XHJD 98.9 NL Monterrey 365  
0749 KFHJ 94.3 TX Fort Stockton 275  
0758 KYKK 94.1 NM Humble City, ID 325  
(returned after 1100 and probably had  
KOHM 91.1, but /out before ID)

10/13

tr 0014 XHJD 98.9 NL Monterrey 365  
0024 KGRA 103.7 LA Lake Charles, FSA 310  
0038 KTDY 99.9 LA Lafayette, ad 385  
0101 KYKK 94.1 NM Humble City, s/off 325  
0630 KROK 94.5 LA Shreveport, promo 290

10/16

tr 0858 KHYS 98.5 TX Port Arthur, wx 260

10/18

tr 0845 KYKR 93.3 TX Port Arthur, "Super  
Kicker", FSA, KIXS off very briefly.

10/19

tr 0930 XHJD 98.9 NL Monterrey 365

10/20

tr 0903 KYKK 94.1 NM Humble City 325

10/21

tr 0815 KTDY 99.9 LA Lafayette, ad 385  
0830 XHJD 98.9 NL Monterrey 365  
0852 WILD 98.5 LA New Orleans, nx 500  
0901 WEZB 97.1 LA New Orleans, ID  
0915 WMPF 102.5 LA Baton Rouge, ID 435  
0916 KGLL 107.1 LA Houma, promo 470  
0925 WYNK 101.5 LA Baton Rouge, ID  
0929 KQKI 95.3 LA Bayou Vista, ID 435  
0936 WTGI 103.3 LA Hammond, ad 475  
1001 WAFB 98.1 LA Baton Rouge, ID  
1005 KGRA 103.7 LA Lake Charles, ad 310  
1013 KPRA 105.5 LA Franklin, ID 420  
1031 KGLL 99.5 LA Lake Charles, ID  
2327 KVVP 105.5 LA Leesville, ID 300

10/22

tr 0031 WAFB 98.1 LA Baton Rouge, ID 435  
0034 XHJD 98.9 NL Monterrey 365  
0058 KFNE 95.3 TX Big Spring 215  
(s/off, "K-95")  
0102 KYKK 94.1 NM Humble City, s/off 325  
0830 XHJD 98.9 NL Monterrey  
0839 KTLN 98.9 OK Oklahoma City, ad 325  
0853 KOFM 104.1 OK OKC, Midwest City  
church services  
I saw WBAY-2 at 1900, so checked for FM  
Es, but instead:  
1921 WJMI 99.7 MS Jackson 500  
2301 WXEL 105.3 LA Slidell, ID 520

10/31

tr 0748 KRIX 99.5 TX Brownsville, ad 340  
(relogs of KLBK & KLLL, Lubbock omitted.)

Danny Buntin, 1020 S. Duncan, Stillwater, OK 74074 - Oct. '78 (CDT)  
Equipment: Pioneer FX-9100 tuner, 10 el. Antennacraft antenna at 34 ft. with rotor.

10/20

Es 1802 WJCT 89.9 FL Jacksonville 990  
1804 WPUZ 93.7 FL Ocala 1010  
1816 WMLV 94.5 FL Daytona Beach, "Love FM" 1836 WJAX 95.1 FL Jacksonville, rk, ad

\*\*\*\*MERRY CHRISTMAS EVERYONE!\*\*\*\*

This October's skip was the first time I ever heard it in that month. I was hoping for a big tr duct to develop like it did last year (Oct.) but nothing out of the ordinary happened except for a few appearances from Memphis's strongest station, however weak.  
+++++



WOOFDA!!  
WOOFDA!!



# NORTHERN FM-DX

Bruce Goldsen  
 27 Spruce Hill Road  
 Georgetown, CT 06829  
 (203) 544-8214

Deadline: the 10th

Send in your DX now, if you live in WA,OR,ID,WY,ND,SD,NE,MN,IA or east of the Mississippi River and north of the Mason-Dixon line.....

A bonanza of reporters this month: fifteen!!! For the sake of space, I'm using "elite" type this time, rather than my typewriter's "pica" type. This way, I should be able to keep it down to nine or ten pages! On with the DX...

Walter Breville-9127 Coral Dr.-St. Louis, MO 63123 (CDT)

DX from country home in Wright City, MO, 45 miles W of downtown St. Louis:  
 7/3 8/21  
 2150 KMBR 99.7 MO Kansas City, ID 0100 WSM 95.5 TN Nashville, ID  
 2200 KXTR 96.5 MO Kansas City, classical 0030 WNMU 90.1 MI Marquette, wx, s/off  
 2140 KYYS 102.1 MO Kansas City, "KY-102" rock DX from home in St. Louis:  
 2330 KDMI 97.3 IA Des Moines, ID 8/21  
 7/4 2310 WHBF 98.9 IL Rock Island, ID  
 0030 WOI 90.1 IA Ames, jazz, s/off 2355 WKXX 106.9 AL Birmingham, "Kicks 106"; r  
 0005 KXCV 90.5 MO Maryville, girl DJ, rock 8/22  
 8/19 0028 WIXX 101.1 WI Green Bay, ID  
 2200 WPLN 90.3 TN Nashville, classical, ID 0102 WAMZ 97.5 KY Louisville, k, ID  
 8/20 0125 KFMM 99.7 IA Muscatine, "99 plus", pr  
 1220 WI8M 97.3 KS Topeka, "Rock 97" ID 0915 WNAP 93.1 IN Indianapolis, rock

All new loggings except WIXX, which I got 8 years ago as WBAY. All tropo. All loggings at both locations with indoor antenna. Equipment: at St. Louis home, a Marantz 2270 receiver and Rembrandt rabbit ears; I'm located 9 miles SW of the gateway arch. At my country place near Wright City I have a Technics ST-7300 tuner using the dipole wire that came with it for the antenna up till now. I just finished installing an eight element Winegard CB-45 FM yagi with rotor atop the A-frame, have not had any chance to really try it out yet, but I sure will soon. 73, Walt.

Patrick Martin-PO Box 14192-Portland, OR 97214 (PST)

5/11 Es 2142 KBPI 105.9 CO Denver, r	6/13 Es continued
2145 KOAQ 103.5 CO Denver, spot	1900 KLON 88.1 CA Long Beach, ID
MS 2211 KOCM 103.1 CA Newport Beach	1901 KCSN 88.5 CA Northridge, ID, NPR
5/13 MS 2330 KMTY 97.5 CA Merced, spot	1903 KNJO 92.7 CA Thousand Oaks, stocks
5/14 Tr 2342 KBVR 90.1 OR Corvallis, r	6/24 Es
5/15 Gw 2340 KSLC 90.3 OR McMinnville	1201 KUNM 90.1 NM Albuquerque, r
Tr 2345 KDXU 104.7 WA Aberdeen, ET	1214 KOB 93.3 NM Albuquerque, MOR, EZL
5/16 Gw 2009 KPQD 97.7 OR Seaside, xlator	1218 KWYK 94.9 NM Aztec, r
5/19 Tr 1915 KR5B 103.1 OR Roseburg	1221 KALL 94.1 UT Salt Lake City, spot, ID
MS 1918 KKTU 103.3 CA Ukiah, r	1223 KALL 92.1 UT Manti, xlator, // to 94.1
1922 XHVR 103.3 BC Mexicali, spot	1225 KR4Z 96.9 NM Farmington, ID @ 1229
5/20 Tr 0726 KVIP 98.1 CA Redding, EZL	1238 KHFM 96.3 NM Albuquerque, opera
MC 0733 KMTY 97.5 CA Merced, again	1241 KRKE 94.1 NM Albuquerque, r, spots
0728 K??? 97.5 Unid gospel stn.	1246 KLYT 88.3 NM Albuquerque, rel. prog.
Tr 0738 KJ5N 92.5 OR Klamath Falls, r	1252 KANW 89.1 NM Albuquerque, r, PSAs
5/21 Tr 1724 KSOR 90.1 OR Ashland, r	1258 KRWN 92.9 NM Farmington, ID
5/22 Tr 1746 KLCC 89.7 OR Eugene, \$	6/29 Es
1755 KTOY 91.7 WA Tacoma	2030 CHMM 97.5 MB Winnipeg, c/w
1802 KRVM 91.9 OR Eugene	2049 CJUS 89.7 SK Saskatoon, c, sp
5/23 Es 1830 KUSF? 90.3 CA San Francisco??	2055 CKY 92.1 MB Winnipeg, nx
(brief Es UNID stn from the S w/ jazz??)	2058 CBW 98.3 MB Winnipeg, c
Tr 1934 KPQ 102.1 WA Wenatchee	2059 CHIQ 94.3 MB Winnipeg, spots
2345 KIXI 95.7 WA Seattle	2101 CBKA 105.9 SK Buffalo Narrows, // CBK
2355 KEWT, 105.1 CA Sacramento, MOR	2103 CBKD 103.5 SK La Ronge, // CBKA, \$
5/24 MS 2100 KTHO 103.1 CA S. Lake Tahoe	7/6 Es
6/2 Tr 1950 KTMF 93.7 OR Medford, r	2238 XHERS 104.5 BC Tijuana, again
6/9 Es 1925 XHERS 104.5 SS mx program	2242 XEHIS 90.3 BC Tijuana, \$, like local!
6/13 Es	2247 XHRM 92.5 BC Tijuana, SS
1820 KWST 105.9 CA Los Angeles, r	2249 KGIL 94.3 CA San Fer-ando, tx
1823 XHERS 104.5 BC Tijuana again in SS	2253 KLON 88.1 CA Long Beach, jazz, ID
1827 KBIG 104.3 CA Los Angeles	2309 KSDS 88.3 CA San Diego, jazz
1832 KAGB 103.9 CA Inglewood, EZL	2109 KSPC 88.7 CA Claremont, PSAs, r
1845 KOST 103.5 CA Los Angeles, ID	2117 KPBS 89.5 CA San Diego, PBS pgm (?-ed)
1847 KOCM 103.1 CA Newport Beach, tx	2207 KCRW 89.9 CA Santa Monica, r
1849 KPMB 100.7 CA San Diego, r, ID	more...
1851 KHAY 100.7 CA Ventura, c/w	
1856 KDAR 98.3 CA Oxnard, religious	



## Patrick Martin report, continued

7/15 Es  
 2108 XEHIS 90.3 BC Tijuana, r, strong!  
 2125 KVCR 91.9 CA San Bernardino, NPR  
 2126 XHRM 92.5 BC Tijuana, SS  
 2141 KECR 93.3 CA El Cajon, relig.  
 Equipment: Pioneer 9100 receiver, 100-element SC650 Winegard Yagi antenna.  
 Since the last time I reported, I have moved to Hillsboro, a small town 15 miles West of Portland, away from the TV & FM transmitters and towers. It helps quite a bit. 73, Patrick Martin.

Eric Fader-23-35 Bell Blvd.-Bayside, NY 11360

6/30 Es 7/28 Tr  
 1745 KAMS 95.1 AR Mammoth Springs, 0100 WMGQ 98.3 NJ New Brunswick,  
 "Radio Ozark," "State Line Wx" (closest unheard)  
 1803 KSAR 95.9 AR Salem, ID, k, \$ 8/4 GW  
 1810 UNID 91.7 NPR 0930 WKRE 90.9 NY Brooklyn, (212)648-7311#  
 1810 UNID 91.9 NPR, likely KASU, AR 8/11 Tr  
 1812 CFTI 92.1 ON Timmins, ID 1215 WHOM 94.9 NH Mt. Washington, spots  
 1815 KPGY 91.9 IA Ames, poss. ID, but 10w 1230 WBOC 104.7 MD Ocean City, o/WSPK  
 7/3 Tr 8/16 Tr  
 0004 WPLM 99.1 MA Plymouth, ID 0116 WSUB 105.5 CT Groton, "midnite jazz,"  
 0200 WSRW 96.1 MA Worcester, s/off Ae news, s/off @ 0159.  
 7/5 Tr 0157 WLKW 101.5 RI Providence, inst. mx  
 0101 WHUR 96.3 DC Washington 0202 WMYS 98.1 MA New Bedford, EZ-r  
 0107 WPFW 89.3 DC Washington, jazz, mono 0205 WVBF 105.7 MA Framingham, "F-105"  
 0117 WFDU 89.5 NJ Teaneck, s/on (why?) 0206 WPJB 105.1 RI Providence, thru local  
 7/21 Tr 0219 WLOM 104.7 MA Orleans, p, ex-WVLC  
 0117 WNNN 101.7 NJ Canton, uptemp relig! 0230 WCOB 106.1 MA Hyannis, u/WBLI-NY  
 0129 WMAR 106.5 MD Baltimore, inst. 0245 WOCB 94.9 MA W. Yarmouth, inst.  
 0145 WDAC 94.5 PA Lancaster, MOR & rel. 0254 WSSH 99.5 MA Lowell  
 0145 WSTW 93.7 DE Wilmington, perfect sig. 0300 WHJY 94.1 RI Providence  
 0200 WHP 97.3 PA Harrisburg, CBS nx 0300 WCOZ 94.5 MA Boston  
 0207 WQXA 105.7 PA York, "Q-106," Top40 0301 WHUS 91.7 CT Storrs, "Voice in Wilderness"  
 0233 WPFW 89.3 DC Washington, jazz 8/19 Tr  
 DJ mentioned call from Brooklyn. 1124 WHOM 94.9 NH Mt. Washington, to 1135

New underlined—log now at 208. Equipment: Concord CR-260 stereo, Archer Rabbit ears.

Robert S. Ross-Box 4373, Stn.C-London, ON N5W 5J2 (EST)

4/9 Tr WNED 94.5 NY Buffalo 6/7 Tr WUJC 88.9 OH University Heights  
 4/12 Tr WQOD 93.3 OH Youngstown 6/19 Tr WKTL 90.7 OH Struthers  
 4/13 Tr WHFM 98.9 NY Rochester 6/24 Tr WSRD 101.1 OH Youngstown  
 4/26 Tr CFNY 102.1 ON Toronto 6/27 Tr CBCL 93.5 ON London  
 4/27 Tr CBEG 106.3 ON Sarnia, // CBE-AM 6/28 Tr KDKA 92.9 PA Pittsburgh  
 5/2 Tr WBNY 96.1 NY Buffalo 6/28 Tr WMRT 88.3 OH Marietta  
 5/2 Tr WMJQ 92.5 NY Rochester 6/30 Es WVPW 88.9 WV Buckhannon  
 5/3 Tr WYSU 88.5 OH Youngstown 7/6 Tr WYEP 91.5 PA Pittsburgh  
 5/3 Tr WVOR 100.5 NY Rochester 7/25 Tr WVPE 88.1 IN Elkhart  
 All stations were logged with indoor antenna. I live in a 13th floor apartment, so I have good height working for me—approximately 130'. Equipment: Marantz 2226, rabbit ears.

Roger Wuisse-Box 463-Hobart IN 46342

8/22 8/24  
 WVJC 89.1 IL Mt. Carmel, "Rock for the 0001 CBCL 93.5 ON London, wx, s/off  
 Wabash Valley" 0007 CBEE 95.1 ON Chatham, GSQ (NA)  
 WPCD 88.7 IL Champaign, r, \$ 0020 WZZP 106.5 OH Cleveland, "Zip 106"r,  
 WVLC 92.9 KY Lexington, ID o/WNDU at last!!!  
 WPPK 91.9 KY Louisville, c 0040 WMD 104.7 MD Hagerstown, MOR, ID  
 8/23 0105 WDBM 94.9 OH Medina, nx summary  
 KCCK 88.3 IA Cedar Rapids, ID, c ?? WPNM 106.3 OH Ottawa, wx, thru WLNR  
 KNWS 101.9 IA Waterloo 0020 WQOD 93.3 OH Youngstown, MOR  
 also all Madison & Milwaukee stns in like ?? WOVE 102.5 PA Pittsburgh, spot, ID  
 locals that evening... ??? UNID 104.7 could be WYDD  
 2315 WKDD 96.5 OH Akron, wx, ID, r ???? UNID 88.5 could be WAMU, c  
 2318 WRMZ 99.7 OH Columbus, BB promo, r ????? UNID 92.5 rock, might be WMHE, do they  
 2340 WEMU 89.1 MI Ypsilanti, jazz ID as "92 point 5"???

2341 WYSU 88.5 OH Youngstown, Sc, 12M s/off  
 Total heard now 753, in 39 states, Canada and Cuba. Equipment: Kenwood KT6005 receiver, Pioneer SA8100 amp.

Michael Rogan-9224 Cottage Grove Avenue-Highland, IN 46322 (CDT)

7/5 Tr KSUI 91.7 IA Iowa City, very strong signal

This was the only noteworthy catch within the last several months. Total logged now stands at 235 w/ 50 stns on the educational band. Magnavox 1143 rcvr, Stereo Probe antenna.

Peter Sawatzky-R.R. #4-Guelph, ON N1H 6J1 (EDT)

6/14 Es					
1059 KIL0	93.9	CO	Colorado Springs, ex-KPIK		
6/20 Es				7/1 Es	0021 KJAK 92.7 TX Slaton
1900 WLSU	88.9	WI	La Crosse		0059 KACV 89.9 TX Amarillo
2128 KCBI	89.3	TX	Dallas		0059 KBUF 97.3 TX Garden City
2131 KPLX	99.5	TX	Fort Worth	7/2 Tr	1242 WQSU 88.9 PA Selinsgrove
2151 WZZQ	102.9	MS	Jackson	7/4 Tr	2158 WCML 91.7 MI Alpena
2215 KETR	88.9	TX	Commerce		2239 CKQM 105.1 ON Peterborough
1800 KTEN*	93.3	OK	Ada	7/6 Tr	
1830-1930 KROA*	95.7	NE	Grand Island	0019 KIIK	103.7 IA Davenport, prev. by MS
1830-1930 KBRX*	92.7	NE	O'Neill	0050 WNUR	89.3 IL Evanston
1900 KVNQ*	90.7	NE	Omaha	0059 WHAD	90.7 WI Delafield
6/24-25 Es (times are 1000 6/24,1400 6/25)				0102 WSNB	88.9 IN Notre Dame
1000-1400 WLPR*	96.1	AL	Mobile	0103 WNIU	89.5 IL De Kalb
	WULA*	92.7	AL Eufaula	0113 WLAV	96.9 MI Grand Rapids
	WMEZ*	94.1	FL Pensacola	0152 WMLW	101.3 MI Grand Rapids, ex-WYON
	WPCS*	89.3	FL Pensacola	0213 WVUB	91.1 IN Vincennes
	WPAP*	92.5	FL Panama City	0234 WMBD	93.3 IL Peoria
6/25 Tr 2310 WICB	91.7	NY	Ithaca	0246 WMMM	92.7 IL Arlington Heights
6/26 Tr 2250 WAUS	90.7	MI	Berrien Springs	0259 WKMS	91.3 KY Murray
6/28 Tr 1636 WSRD	101.1	OH	Youngstown	0259 WBEZ	91.5 IL Chicago
	2312 WRUR	88.5	NY Rochester	0715 WJJC	89.1 IL Mount Carmel
6/29 Tr 2355 CJBC#	95.5	ON	Belleville(#17)	0729 WDCB	90.9 IL Glen Ellyn
6/30 GW 0019 CB??	93.5	ON	London	0745 WBCS	102.9 WI Milwaukee
6/30 Es				0745 WEZW	103.7 WI Wauwatosa
0159 KERA	90.1	TX	Dallas	0748 KUMR	88.5 MO Rolla (715 miles!by Tr)
0209 KROZ	92.1	TX	Tyler	0800 WCBU	89.9 IL Peoria
0216 KFJZ	97.1	TX	Fort Worth	0814 WAUS	90.7 MI Berrien Springs
0218 KVTT	91.7	TX	Dallas	2205 WZZR	95.7 MI Grand Rapids, ex-WZZM
0229 KCBI	89.3	TX	Dallas	2210 WAZY	96.5 IN Lafayette
0234 KAFM	92.5	TX	Dallas	7/7 Tr	
0245 KNUS	98.7	TX	Dallas	0017 WHP	97.3 PA Harrisburg
0249 KEBC	94.7	OK	Oklahoma City	1100-1800 WCVJ*	90.9 OH Jefferson, testing with unmod. carrier, ID as New Lyme, OH.
1113 WINZ	94.9	FL	Miami Beach	7/9 Tr 2330 WUHY	90.9 PA Philadelphia
1115 WLQY	98.7	FL	Fort Pierce		2352 WRTI 90.1 PA Philadelphia
1119 WMJX	96.3	FL	Miami	7/10 Tr 0013 WBRE	98.5 PA Wilkes-Barre
1120 WATA	97.3	FL	Miami		0041 WFUV 90.7 NY New York
1122 WIMC	103.1	FL	Okeechobee		0055 WBSA 103.3 PA York
1126 WTMI	93.1	FL	Miami	7/12-13 Es	0800-0100 KIVY* 92.7 TX Crockett
1128 WMCF	92.7	FL	Stuart	7/13 Tr 2330 WAUS	90.7 MI Berrien Springs
1129 WAFG	90.3	FL	Ft. Lauderdale	7/14 Tr 0759 WHAD	90.7 WI Delafield
1130 WFFN	92.5	FL	Key West		2304 WMBI 90.1 IL Chicago
1210 WUSF	89.7	FL	Tampa	7/15 Tr 0037 WIAN	90.1 IN Indianapolis
1223 WRCC	103.9	FL	Cape Coral	7/19 Tr 1725 CJBC#	96.5 ON Penetanguishene(#20)
1424 WPAP	92.5	FL	Panama City		2004 WVPW 88.9 WV Buckhannon
1556 WBYU	95.7	LA	New Orleans		2006 WVPB 91.7 WV Beckley
1725 WQID	93.7	MS	Biloxi	7/20 Tr 2204 WETA	90.9 DC Washington
1728 WCPC	93.3	MS	Houston	7/21 Tr 0815 WAUS	90.7 MI Berrien Springs
1730 KOSU	91.7	OK	Stillwater	7/22 Tr 0209 WRUW	91.1 OH Cleveland (10w!)
1732 WQST	92.5	MS	Forest	7/25 Tr 2306 WNAF	93.1 IN Indianapolis
(last 4 from Waterloo, ON)					2308 WFPS 95.5 IN Indianapolis
1600-1646 WNJC*	90.1	MS	Senatobia		2310 WLKI 100.1 IN Angola
1600-1646 KWGS*	89.5	OK	Tulsa		2313 WFIU 103.7 IN Bloomington
1100-1630 WOKP*	95.7	FL	Clearwater		2343 WTKT 100.5 IN Kokomo
1100-1630 KMHT*	103.9	TX	Marshall	7/26 Tr	
1732 KKNG*	92.5	OK	Oklahoma City	0005 WSVL	97.1 IN Shelbyville
1749 WKXI*	94.7	MS	Jackson	0025 WFPS	95.5 IN Indianapolis
1749 WJMT*	99.7	MS	Jackson	0027 WMDH	102.5 IN New Castle
1200 WCCP*	92.7	FL	Punta Gorda	0036 WMRI	106.9 IN Marion
1100-1630 WDUV*	103.3	FL	Bradenton	0044 WNAF	93.1 IN Indianapolis
1100-1630 WQXM*	97.9	FL	Clearwater	0057 WCTC	92.3 IN Bloomington
1100-1630 WQUE*	93.3	LA	New Orleans		
7/26 Tr continued				0203 WFIU	103.7 IN Bloomington
0059 WPTH	95.1	IN	Fort Wayne	0212 WLHN	97.9 IN Anderson
0110 WCMX	101.7	IN	Fort Wayne	8/4 Tr 0007 CBEG	106.3 ON Sarnia
0130 WVJC	89.1	IL	Mount Carmel	8/12 Tr 0326 WFMF	92.1 PA Johnstown
0146 WBCL	90.3	IN	Fort Wayne	8/18 Tr 2325 WAMC	90.3 NY Albany
0147 WVUB	91.1	IN	Vincennes		2359 WMEA 90.1 ME Portland
0152 WRIA	101.3	IN	Richmond		

Equipment: Pioneer TX-9500 tuner & homebrew automated DX equipment; Delhi 1047 @ 70';  
 \* indicates loggings made on tape with automated equipment and time not precisely known  
 unless given by announcer; new underlined. 73, Pete

Mike Bugaj-69 Sherman Road-Enfield, CT 06082

5/1 AU	6/18 Tr	2000 WADV	106.5 NY Buffalo, nx
1830 WMUZ 103.5 MI Detroit		2041 WBLV	107.7 NY Wethersfield,g
WBEN 102.5 NY Buffalo		2104 WZTA	105.5 PA Tamaqua
1845 WPHD 103.3 NY Buffalo	6/20 Es		
1914 WNCI 97.9 OH Columbus	1750 KRMJ	96.9 KS Pittsburg	
1916 WNOR 98.7 VA Norfolk	1800 KSCM	97.1 MO Florissant	
1923 WGH 97.3 VA Norfolk	1806 KBRA	97.9 KS Wichita	
1925 WCLW 105.3 OH Mansfield	1806 KMoe	92.1 MO Butler	
2210 AU out	1810 K???	100.9 KS Clay Center, nx	
5/12 Es 1841 WBLX 92.9 AL Mobile,s	1811 KQAD	100.9 MN Luverne	
1843 WABB 97.5 AL Mobile,r	1817 KMBR	99.7 MO Kansas City	
1851 UNID 98.5 mellow 98??	1822 KXEL	105.7 IA Waterloo, r	
5/31 Es	1823 KTFK	103.3 IA Sioux City	
2159 WSSR 91.9 MO Springfield	1824 WJAG	106.7 NE Norfolk	
2202 KLUM 88.9 MO Jefferson City	1830 KRNy	98.9 NE Kearney	
2210 WDWS 97.5 IL Champaign	1830 KSEZ	97.9 IA Sioux City	
2209 KSLQ 98.1 MO St. Louis	1836 KSRD	96.9 NE Seward	
2210 WLBH 96.9 IL Mattoon	1845 KWYR	93.7 SD Winner, o/WLVH local	
2210 WDBR 103.7 IL Springfield	1858 KYSM	103.5 MN Mankato	
2210 KMOX 103.3 MO St. Louis	1901 WHIC	94.3 KY Hardinsburg,dinner mx	
2212 KEZK 102.5 MO St. Louis	1902 WKYQ	93.3 KY Paducah	
2216 KFMD 92.9 IA Dubuque, "D-93"	1904 WHRZ	97.7 KY Providence	
2217 WPAD 96.9 KY Paducah	1906 WHKW	98.1 AL Fayette, "FM-98"	
2218 KMBR 99.7 MO Kansas City, "FM-100"	1909 WPAD	96.9 KY Paducah	
2222 KFMZ 98.3 MO Columbia	1911 WJGA	92.1 GA Jackson	
2224 KUDL 98.1 KS Kansas City, mono	1912 WMSK	95.3 KY Morganfield, r	
2228 KCKN 94.1 KS Kansas City	1936 WHRK	97.1 TN Memphis, "K-97,"r	
2230 KUSD 89.7 SD Vermillion,AM&FM ID	1943 WGSN	99.7 KY Louisville,EZL	
2251 KTJJ 98.5 MO Farmington	1948 WSTU	91.9 IL Carbondale	
2300 KWIT 90.3 IA Sioux City	1954 WSOE	89.9 KY Madisonville, g	
2301 KCMW 90.9 MO Warrensburg	1955-2100	Es dropped off, returned super strong at 2100, however.	
6/11 Es	2110 WTVK	107.7 TN Knoxville, c/w	
0900 WGNF 98.5 FL Panama City,"Q-98"	2115 WYNO	106.5 TN Chattanooga,"wink"	
0902 WOOF 99.7 AL Dothan	2121 KZNN	105.3 MO rolla, "Easy-Lovin c/w"	
0943 WKLN 92.1 AL Cullman,"KLN-FM"	2131 KMCK	105.7 no listing in FM atlas	
1038 WRUL 97.3 IL Carmi	2132 KKMA	104.5 OK Pryor, mono,AM&FM ID	
1045 KWTO 98.7 MO Springfield,"Rock 99"	2154 KEYN	103.7 KS Wichita, r	
1048 KCLU 94.3 MO Rolla, mono	2157 KARD	107.3 KS Wichita, "Card" EZL	
1049 WMIX 94.1 IL Mt. Vernon, "\$-94"	2215	KTOW 92.1 OK Broken Arrow	
1054 UNID 89.1 Powerline Prog, \$	6/30 Es		
1058 KCLC 89.1 MO St. Charles, g, mono	1748 KKMA	104.5 OK Pryor, mono	
1105 KRMS 94.3 MO Osage Beach	1753 WABD	107.9 KY Ft. Campbell, "108-FM"	
1110 WSMI 106.1 IL Litchfield	1754 KKYK	103.7 AR Little Rock, "K-Kick"	
1119 WACF 98.5 IL Paris	1758 KTFX	103.3 OK Tulsa, r	
1125 WLRW 94.5 IL Champaign	1800	had to leave, but Es still bombing in.	
1126 WOZO 95.1 IL Decatur, c/w	7/4 Es	1205 WNJC 90.1 MS Senatobia	
1132 WDBR 103.7 IL Springfield	7/6 Tr		
1138 KFIX 106.5 MO Liberty	0735 CJOM	88.7 ON Windsor, EZL	
1143 KGRC 92.9 MO Hannibal	1804 CKPC	92.1 ON Brantford	
1148 WIBW 97.3 KS Topeka, "Rock 97"	1811 CKDS	95.3 ON Hamilton	
1210 KMG0 98.7 IA Centerville, g	2032 CHUM	104.3 ON Toronto, r	
1809 WIVY 95.5 AL Dothan,"Great Amer.Ctty"	2100-2110	Norfolk again: WXRI,WQRK,etc.	
1811 WLOV 100.1 GA Washington	2113 WPHD	103.3 NY Buffalo	
1830-0000 Tropo to Norfolk; WXRI,WQRK,etc.	2114 WBEN	102.5 NY Buffalo, pegging meter	
1941 WKSJ 94.9 AL Mobile (back to Es)	2117 UNID	94.5 mono, concert,prob. WNED	
2004 WACI 92.1 IL Freeport	2124 WBUF	92.9 NY Buffalo, "B-93"	
2106 WMRQ 92.1 MS Brookhaven	2306 WQSU	88.9 PA Selingsgrove	
6/12 Tr 0439 WDBE 96.5 PA Philadelphia,tx	7/10 Es	2125 WJCT 89.9 FL Jacksonville	
0450 WGCe 96.1 PA Red Lion		2132 WAMR 92.1 FL Venice	
0505 WMYK 93.7 NC Elizabeth City	7/11 Es		
Es 1709 WBLR 92.1 SC Batesburg	2056 WYXE	92.1 WI Sun Prairie, "92FM"	
1719 WPEH 92.1 GA Lewisville	2058 WLVE	94.9 WI Madison	
1725 WFNE 100.1 GA Forsythe,mono	2104 WGRD	97.9 MI Grand Rapids, r	
1736 WBLX 92.9 AL Mobile	2104 WKZN	96.9 IL Zion,"someone to turn to"	
Tr 1805 WYVA 94.1 VA Yorktown	2106 WZOK	97.5 IL Rockford	
Es 1824 WSPB 106.3 FL Sarasota,"W106"	2108 KXEL	105.7 IA Waterloo	
1829 WQXM 97.9 FL Clearwater"98-r"	2119 WCCI	107.5 IL Chicago	
1830 WSOR 95.3 FL Fort Myers	2121 KITK	103.7 IA Davenport	
1831 WFLA 93.3 FL Tampa	2127 WYEN	106.7 IL Des Plaines	
1850 WYNF 94.9 FL Tampa	2127 WFYR	103.5 IL Chicago, "103½"	
1900 WKES 101.5 FL St.Petersburg	2129 KRNQ	102.5 IA Des Moines, "Q-102"	
Tr 2049 WSFL 106.5 NC Bridgeton	2133 KR0S	96.1 IA Clinton,"Gateway Area"	
6/14 Es 1726 WGNF 98.5 FL Panama City			

## Mike Bugaj report, continued

2136 WMET 95.5 IL Chicago, Top40  
 2137 WLUP 97.9 IL Chicago, "the loop"  
 2142 WBBM 96.3 IL Chicago, "BEM-FM"  
 2146 WLNK 106.3 IL Lansing  
 2151 KILJ 105.5 IA Mt. Pleasant  
 2152 KGRS 107.3 IA Burlington, "Rock 107"  
 2154 WAUR 107.9 IL Aurora, "108-FM"  
 2200 KTOF 104.5 IA Cedar Rapids, g  
 2201 KSPT 105.1 MO St. Louis  
 2217 KNZA 103.9 KS Hiawatha  
 2221 WGRM 97.7 where????  
 2223 WKZW 93.3 IL Peoria, "KZ-93, "the \$-Z"  
 2225 KTGA 92.1 IA Fort Dodge  
 2240 WCLL 94.3 IL Chillicothe  
 2337 KBHL 95.3 NE Lincoln  
 7/12 Es 1900-2000 all Miami area; WMCU,  
 WCMQ, WINZ, WSHE, & WQHL  
 7/14 Es 2203 KQDY 94.5 ND Bismarck  
 8/18 Tr  
 1831 WEZO 101.3 NY Rochester, "EZO-\$"  
 1832 WDKX 103.9 NY Rochester, soul  
 2025 WONO 107.9 NY Syracuse, c, finally!  
 2035 CFIG 105.7 PQ Laval, FF, c  
 2218 CILQ 107.1 ON Toronto; r, "Q-107"  
 2224 CKFM 99.9 ON Toronto, j  
 2239 CBM 93.5 PQ Montreal, // CBL 94.1  
 8/21 Tr  
 0709 WMUZ 103.5 MI Detroit  
 0715 WFRB 105.3 MD Frostburg, \$  
 0730 WSHH 99.7 PA Pittsburgh, "Wish"  
 1830-2200 very heavy tropo to W & SW;  
 strong signals; WBEN & WFRB excellent

1929 WRKY 103.5 OH Steubenville, "Rocky 103", \$  
 1940 WDVW 102.5 PA Pittsburgh, o/u/WBEN  
 1946 WREO 97.1 OH Astabula, \$  
 2034 WCCO 103.7 PA Erie, \$, r, "Kick @ 104"  
 2037 WFFM 96.9 PA Braddock, "FM-97", r, \$  
 2124 WWWW 105.7 OH Cleveland, "M-105", r, \$  
 2125 WGCL 98.5 OH Cleveland, r, \$  
 2130 WYCR 98.5 PA Hanover, \$, r  
 2138 KLAZ 98.5 AR Little Rock, \$, r  
 2200 WHAJ 104.5 WV Bluefield, \$, EZL  
 2224 WKKW 106.5 WV Clarksburg, c/w  
 8/22 0700 super stron WHAJ, WSPL-106.5  
 2100 good sigs from Norfolk, Pittsburgh,  
 Steubenville, OH.  
 2112 Nat'l Symphony concert on 103.5  
 sounded like WDMV? Not close to WGSN.  
 8/23 Tr  
 0643 WCLW 105.3 OH Mansfield  
 0646 WGCL 98.5 OH Cleveland, \$, r, strong  
 0659 WCRP 103.3 OH Cleveland, \$, g, strong  
 0710 WZZP 106.5 OH Cleveland, \$, r, thru WSHH  
 2020 WMUZ 103.5 MI Detroit  
 2124 WRMZ 99.7 OH Columbus  
 9/5 Tr  
 1930-2200 WBEN 102.5 NY Buffalo, pegging mtr.  
 1932 CHUM 104.5 ON Toronto, r, \$  
 2020 WGRQ 96.9 NY Buffalo, \$, r, "Q-FM"  
 2103 CHFI 98.1 ON Toronto, \$  
 2130 WPXY & WHFM Rochester, NY excellent  
 2145 CFCA 105.3 ON Kitchener  
 2147 CKDS 95.3 ON Hamilton, \$

Equipment: Sony 5130 tuner, Finco FM-5 @35' w/rotor. Total now 912. New underlined.  
 August was a good tropo month. I've been waiting 4 years for Cleveland, and finally  
 I get treated to two openings. KLAZ-98.5 was in for about 6 minutes (I left the  
 recorder running trying to get a WGCL ID on tape but instead I heard KLAZ gradually  
 fade up and stay there). As far as I can tell, FM had no Es that nite. Signal strength  
 was fair in \$, probably from WYCR, which was left after KLAZ faded.

## Ralph Strobel-2510 E. McGalliard Road-Muncie, IN (CDT)

3/11 Tr 0300 WNKR 95.3 KY Palmouth, r, \$, "Voice of N. Kentucky"  
 4/9 Tr 0300 WLFC 88.3 OH Findlay, p, mono (10watt)  
 4/24 Tr 0400 WVAF 99.9 WV Charleston, r, \$, WVUD off  
 The remainder of loggings are Tr, except for one noted exception\*  
 5/18 0855 WDCB# 90.9 IL Glen Ellyn, r, j, \$, s/off  
 0900 WEPS# 90.9 IL Elgin, s/on  
 5/19 0300 WCML 91.7 MI Alpena, j, \$ 8/5 0130 WYPC 101.5 OH Gallipolis, m, \$  
 5/21 2300 WBKV 92.5 WI West Bend, m, \$ 1415 WNWR 90.9 OH Canal Fulton, r  
 5/22 0200 WHKC 103.1 KY Henderson, r, p, \$, "KC-103"  
 5/25 0130 WECT 91.5 IN Richmond, r, mono (10watt) Equipment: Heathkit AJ-1510 rcvr, Wine-  
 5/28 0423 WBZF 101.7 KY Michmond, r, \$ gard antenna @60'. Log totals: 727 w/178  
 5/30 0745 KFVN 107.9 AR Jonesboro, m, \$ educational band & 28 10-watters. Best  
 6/6 0030 WKSI 102.3 IL El Dorado, r, \$, s/off states--OH-148; IN-132; IL-104; MI-87.  
 0115 WBDC 100.9 TN Huntingburg, k, \$, "BDC-101" 73, Ralph  
 6/11 0200 KLUM 88.9 MO Jefferson City, S, mono  
 6/15 0300 WHAJ 104.5 WV Bluefield, m, \$, "\$-104"  
 0400 WHIN 104.5 TN Gallatin, r, \$, "104"  
 350 WWDS 90.5 IN Muncie, r, m, \$, (10watt), testing  
 2200 WAKO 103.1 IL Lawrenceville, k, mono  
 6/20 Es\*1200 KTCB 93.9 AZ Flagstaff, g, \$  
 6/23 2120 WMEV 93.9 VA Marion, r, mono  
 6/27 2150 WEHB 89.9 MI Grand Rapids, r, s, mono, "90-FM"  
 7/4 2300 KTMO 98.9 MO Kennett, k, \$  
 7/5 2200 WTCV 102.9 TN Shelbyville-Tullahoma, g, mono, s/off  
 7/10 1900 WIPU 89.1 IN Fort Wayne, c, \$  
 7/14 1445 KFMW 107.9 IA Waterloo-Cedar Rapids, m, "\$-108"  
 7/15 0605 WKFR 103.3 MI Battle Creek, r, "\$-103"  
 7/20 0127 WAAW 103.7 KY Murray, rp, \$, "The FM Station"  
 8/2 0200 WKDF 103.3 TN Nashville, p, \$, "KDF"  
 0312 WHEZ 103.3 WV Huntington, m, \$  
 0338 WPAR 95.9 PA Sharpsville, r, mono, "FM-96"  
 0400 WBWB 96.7 IN Bloomington, r, \$, "97-WB"

Joseph Fela-150 Robert Place-South Plainfield, NJ 07080 (ELT)

7/22 Es 8/22 Tr  
 1930 WCTE 91.3 FL Lakeland, ID, Cent. FL wx 0004 WRLX 106.9 NY Auburn, nx, s/off  
 1933 WAMR 92.1 FL Venice, nx, wx, ID 0034 WBNQ 101.5 IL Bloomington, r, ID  
 2001 WCCF 92.7 FL Punta Gorda, ID 0039 WKKW 106.5 WV Clarksburg, c/w, IDs  
 2102 WCMP 92.1 MN Pine City, ending nx, ID 0057 KCKK 88.3 IA Cedar Rapids, s/off  
 2106 WRLS 92.1 WI Hayward, ID, Brewers BB 875 mile tropo. First "k" call via tropo.  
 2126 KAXE 91.7 MN Grand Rapids, ID First station heard by both Es & Tr  
 8/18 Tr 1945 WEZF 92.9 VT Burlington, EZL 0058 WDUQ 90.5 PA Pittsburgh, s/off  
 8/21 Tr 0101 WGTG 91.3 OH Toledo, s/off  
 2255 WEEP 107.9 PA Pittsburgh, c/w, YL DJ, ID 0105 WCMU<sup>t</sup> 89.5 MI Mt. Pleasant, wx  
 2314 WGET 107.7 PA Gettysburg, strong w/nx 0123 WLEN<sup>t</sup> 103.9 MI Adrian, c/w, local ad  
 2316 WEZF 92.9 VT Burlington, good again 0128 WSIU<sup>t</sup> 91.9 IL Carbondale, local wx  
 2320 WVOR 100.5 NY Rochester, r, "R-100" 2100 WQLN 91.3 PA Erie, NPR stuff, o/u CN  
 2328 WXXI 91.5 NY Rochester, local calendar The Tr on the morning of the 22nd was  
 2358 WECQ 101.7 NY Geneva, ID into nx surely amazing---KCKK exceeds what I ever  
 expected to do via Tr in terms of distance.  
 Equipment: Pioneer SX-828 receiver, Pair of Antennacraft GFM-10's, stacked @35' w/rotor.

Harry J. Hayes-Star Route, Box 226-C - Gouldsboro, PA 18424 (EDT)

5/27 Tr \*-DX from Wilkes-Barre, PA  
 2238 WHUR 96.3 DC Washington 7/12\*Es  
 2256 WXRA 105.9 VA Alexandria 1952 WOKF 95.7 FL Clearwater  
 2355 WBRK 101.7 MA Pittsfield, s/off, CBS nx 7/22 Es  
 5/28 Es 1940 MUF to 91.3, So. FL 2045 WDAY 93.7 ND Fargo, EZL, strong  
 5/29 Es 1610 MUF to 91.3, So. FL 2100 KCCM 91.1 MN Moorehead, NPR, ID  
 5/31\*Es 2210 KMGK 93.3 IA Des Moines 2100 UNID 91.1 "This is NPR on the voice of  
 6/12\*Es the Gateway, WTGE" thru KCCM. Who's this?  
 1710 WRGI 93.5 FL Naples, r, "93-RGI" 2110 KQWB<sup>t</sup> 98.7 MN Moorehead, r, thru WBRE-98.5  
 1737 WFLA 93.3 FL Tampa, "FM-94" 2110 KIDA<sup>t</sup> 99.9 MN Moorehead, r  
 1844 KWEN 95.5 OK Tulsa 8/13 MS  
 6/20\*Es 0335 WFRJ 98.5 IL Freeport, burst on ID  
 1800 KOEZ 92.3 KS Newton, ID, EZL 0344 WFRJ 98.5 again on super burst, ID, time  
 2100 KWEN 95.5 OK Tulsa 8/20 Tr  
 2105 UNID 93.5 "DCD News" 2045 WOMC 104.3 MI Detroit, soft-rock  
 2115 KVGB 104.3 KS Great Bend 2245 WAEZ 97.5 OH Akron, EZL  
 2125 WZAT 102.1 GA Savannah 8/21\*Tr  
 2150 KWKI 93.3 KS Kansas City 2036 WNOZ 99.9 NY Cortland, r, "the Nose"x-WKRT  
 2200 KICT 95.1 KS Wichita, "S-95" 2100 WEEP 107.9 PA Pittsburgh, c/w  
 2208 KTTS 94.7 MO Springfield, map offer 2150 WSWF 99.3 NY Seneca Falls, blasting in  
 6/24 Es on the quad loop w/rock. A Class-A stn!!!  
 1052 WBUS 93.9 FL Miami Beach 2230 WOVE 102.5 PA Pittsburgh  
 1055 WATA 97.3 FL Miami 8/22\*Tr--great tropo continue  
 1111 WJJK 96.3 FL Miami, "96-X" 0725 WWJ 97.1 MI Detroit, "something beauti-  
 7/11\*Es ful to turn to," fair sig on quad:  
 2130 WLVE 94.9 WI Baraboo, "Love Stereo" 0735 WRKY 103.5 OH Steubenville, "rocky-103"  
 2140 WEZW 103.7 WI Wauwatosa, ID 8/23\*Tr 0728 WAEZ 97.5 OH Akron, blasting in  
 2143 KNEI 103.9 IA Waukon 8/24\*Tr 0726 WWJ 97.1 MI Detroit, excellent  
 2145 WZEE 104.1 WI Madison, "Z-104," wx  
 2155 KLSS<sup>1</sup> 106.1 IA Mason City  
 2200 KLFM 104.1 IA Ames, EZL, "we play fav's"  
 2217 KGBI 100.7 NE Omaha, relig. pgm.  
 Equipment: Gouldsboro-Zenith Trans-Oceanic w/whip. Wilkes-Barre-Zenith Trans-Oceanic w/  
 FM Quad loop. 73, Harry.

Fred McCormack-909 12th Street North-Fargo, ND 58102 (CDT)

DX from Des Lacs, ND:  
 8/5 Tr 1005 CB-- 105.5 SK Saskatoon, CBC-FM, \$  
 8/6 Tr 0847 WJJY 106.7 MN Brainerd, r, MBS  
 DX from Fargo, ND:  
 8/13 Tr 0315 WIBW 97.3 KS Topeka, "rock 97"  
 0021 KOWH 94.1 NE Omaha, r, "FM94" 0323 KTPK 106.9 KS Topeka, automated c/w  
 0026 KFNF 101.1 KS Oberlin, "proud c/w" 0943 KLGa 92.7 IA Algona  
 0034 WAXX 104.5 WI Eau Claire, c/w 0944 KMGK 93.3 IA Des Moines, r  
 0048 KGGO 94.9 IA Des Moines, r, "FM95" 8/24 Tr 0550 CB-- 100.9 ON Dryden, mono CBC  
 0249 KAGE 95.3 MN Winona 9/2 Tr  
 0257 KUNI 90.9 IA Cedar Falls, j, s/off 1015 WJJY 106.7 MN Brainerd, rock  
 0300 WTMB 98.9 WI Tomah, "music one" 1020 WUPM 106.9 MI Ironwood  
 0305 KQKQ 98.5 IA Council Bluffs, r, "KQ98" 1033 KLIZ 107.5 MN Brainerd  
 Equipment: Des Lacs- Heath AR-1500 receiver, JFD 10-element log antenna  
 Fargo- Heath AR-15, rabbit ears

It's been a slow DX year here, but the tropo on the 13th was probably as good as any  
 noted here in Fargo. 73, Fred.

Bruce Elving-18 1/2 E. Fifth St.-Duluth, MN 55805

8/12-13 Tr 7/8 Tr  
 KWIT 90.3 IA Sioux City,\$ WCML 91.7 MI Alpena, ID w/WCMU-Mt. Pleasant  
 KBK 107.3 MO Lexington,\$ 6/20 Es  
 KFIX 106.5 MO Liberty,"The Radio Prog.",\$ WPJS 106.7 SC Orangeburg,g  
 KSRD 96.9 NE Seward,\$ WFMX 105.7 NC Statesville  
 7/14 Tr 6/12 Es  
 WOCH 106.1 IN N. Vernon,\$ WCPA 93.5 PA Clearfield  
 WSMJ 99.5 IN Greenfield,\$+SCA +++several rehearsals  
 WAXI 104.9 IN Rockville,\$,while WGRG off 5/7 Tr  
 WWVR 105.5 IN W.Terre Haute KTIG 100.1 MN Pequot Lakes  
 7/13 Tr 3/8 Tr  
 WTaz 102.3 IL Morton,\$ KKDQ 92.9 ND Grand Forks, WSCD off  
 WDZQ 95.1 IL Decatur,\$ 1/17-31  
 WIHN 96.7 IL Normal,\$ WFNN 104.7 MI Escanaba,r, +SCA(m)  
 WSSR 91.9 IL Springfield,\$ WCPM 92.1 MN Pine City, \$,k  
 WPRC 100.1 IL Lincoln KSJU 89.1 MN Collegeville,10watt,mono  
 KTJJ 98.5 MO Farmington,\$,no SCA noted 11/24/77 MS WDDD 107.3 IL Marion  
 10/30/77 Tr WEMO 101.3 IL E. Moline

New on the air in this area: KFMC 106.5, Fairmont, MN, \$,m,UPI Audio.  
 WEVE 100.1, Eveleth, MN, \$,Y,km  
 WJYJ 106.7, Brainerd, MN,\$,m  
 KLIZ Brainerd now 107.5, having moved from 95.7. still r,  
 and running SCA w/ m.  
 Equipment: Sony ST5130 tuner, or a Fisher 500TX receiver, both modified for SCA reception.

Fred Nordquist-7945 Boxford Road-Clay, NY 13041 (EDT)

7/11 Es (2126-2340 MUF 100.3) 2230 WBIR 103.5 TN Knoxville,g  
 2133 KCFM 93.7 MO St. Louis, ID, r,\$ 2136 WKKW 106.5 WV Clarksburg,g  
 2142 WNAJ 93.1 IN Indianapolis, ID 2210 WSMC 90.7 TN Collegedale,wx  
 2143 WKYQ 93.3 KY Paducah, ID, k 2235 WQUT 101.5 TN Johnson City,r,lady dj  
 2158 WISU 89.7 IN Terre Haute,wx 2229 WMBW 88.9 TN Chattanooga,g  
 2200 WIAW 90.1 IN Indianapolis, ID 2333 WMBI 90.1 IL Chicago, g  
 2236 KCLC 89.1 MO St. Charles,council mtg 2338 WEZK 97.5 TN Knoxville,m, "FM-97"  
 2332 KCUR 89.1 KS Wichita,jazz 2340 WKTA 106.9 TN McKenzie,k,g, \$  
 7/12 Es 1728 unids , 7/14 Es 2203 unids 8/21 Tr  
 7/14 GW 2306 WTR 89.7 NY Henrietta,TT 0009 WCSN 99.7 KY Louisville,"99-FM"; m  
 7/18 MS 2218 KCLM 93.7 IA Carroll,prev Es 0040 WQHI 95.7 IN Jeffersonville,"I-95"  
 7/23 Tr 0008 WPMJ 105.5 PA Punxsatawney,s/off 0042 WIFN 95.9 IN Franklin, r  
 7/30 GW 2145 UNID 95.3 TT, L + C, who?? 0100 WMC 99.7 TN Memphis,r,ads, ID  
 8/3 GW 1910 WNOZ 99.9 NY Cortland, back 0107 WXIL 95.1 WV Parkersburg, ID, r  
 on air with automated \$rock,"the Nose"  
 8/11 GW 2048 WRLX 106.9 NY Auburn,now \$,m 2300 WMBI 90.1 IL Chicago, nx  
 8/18 Tr 2305 WYJC 89.1 IL Mt. Carmel,r,\$  
 2058 CIME 99.5 PQ Ste. Adele, \$,r 2312\*WKXA\* 95.7 AR Littoe Rock,"Country96FM"  
 2102 CITE#107.3 PQ Montreal,FFC(#2) 1040 mile tropo, furthest to date!!!!  
 8/19 Tr 0835 WBZA 107.1 NY Glens Falls 2330 WJAN 90.1 IN Indianapolis,c,\$  
 0854 WHWB 98.1 VT Rutland,wx 2329 WPMs 95.5 IN Indianapolis,k  
 GW 1555 WAQX 95.3 NY Manlius,new, 2335 KEZQ 94.1 AR Little Rock,now r,"KQ94"  
 \$,r,"95-X" 2359 WKQB 105.9 TN Nashville,r(ex-WLAC)  
 8/20 Tr, Super 8/22 Tr  
 2050 WOKI 100.3 TN Oak Ridge,r,"FM100" 0003 KLAZ 98.5 AR Little Rock,r,\$,wx,TC, ID  
 2159 WPLN 90.3 TN Nashville, anmts. 0015 KKYK 103.7 AR Little Rock,r,\$,ID,ad  
 0030 WBCL 90.3 TN Fort Wayne,g  
 0057 WQBE 97.5 WV Charleston,nx, ID,m  
 0110 WZZP 106.3 OH Cleveland, ID, "Zip-106"

It was a thrill to log four Little Rock stations via Tr in one night! Two milestones thus were attained this reporting period: 1000 mile Tr and 1000 stations logged... never though it was possible, hi!  
 Equipment: Heathkit AJ-15 receiver, JFD LPL FM 10A Antenna at 45', Alliance Antenna Rotor. New underlined, Dashed indicates relog, new propagation mode. 73, Fred.

Joak Elving-9209 Vincent Ave. S.-Bloomington, MN 55431 (CST)

8/12 Tr DX from Prosit, MN:  
 1830 KOKQ 98.5 IA Council Bluffs 2255 KIJK 103.7 IA Davenport,r  
 1831 KEZO 92.3 NE Omaha, mor 8/13 Tr  
 1858 KUSD 89.7 SD Vermillion,jazz .0001 KQWH 94.1 NE Omaha  
 1902 KTRX 93.5 MO Tarkio,Royals BB 0002 KEFM 96.1 NE Omaha,r  
 1932 KROA 95.7 NE Grand Island,g 0915 KLGa 92.7 IA Algona,nx  
 1939 KRGI 96.5 NE Grand Island,auto k 0945 KBEQ 104.3 MO Kansas City,"A-T40"  
 1955 KXCV 90.5 MO Maryville, jazz 1030 KWAY 99.3 IA Waverly  
 2000 KFOR 102.7 NE Lincoln 1045 KMGO 98.7 IA Centerville,nx,\$  
 2004 KWIT 90.3 IA Sioux City 1055 KBK 107.3 MO Lexington,k,\$  
 2018 KICD 107.7 IA Spencer 1058 KZEV 103.1 IA Clear Lake  
 2045 KCKN 94.1 KS Kansas City 1059 KLFM 104.1 IA Ames,nx,+SCA  
 2100 WIBW 97.3 KS Topeka,r,"Rock 97" 1100 WHHI 91.3 WI Highland

John Ebeling report, continued

1133	<u>KILLR</u>	95.9	IA	Esterville,nx	DX From Thunder Bay, ON:
1145	<u>KNEI</u>	103.9	IA	Waukon,"swap shop"	
1200	<u>KWMM</u>	90.7	MO	St. Louis,+SCA w/TxBk	8/25 Tr
1208	<u>KCLC</u>	89.1	MO	St. Charles, ethnic	2000 WHIO 99.1 OH Dayton, mor
1235	<u>KCPI</u>	95.3	MN	Albert Lea	2005 WUBE 105.1 OH Cincinnati, k
1239	<u>KEYA</u>	88.5	ND	Belcourt,k	2010 WJFM 93.7 MI Grand Rapids,now r,+SCA
1248	<u>KSCE</u>	97.1	MO	Florissant,mor,"KS-97"	2015 WBZI 95.3 OH Xenia
2200	<u>KROA</u>	95.7	NE	Grand Island	2016 WJML 98.9 MI Petoskey
2304	<u>WKZY</u>	97.1	MI	Escanaba,s/off	2029 WFMK 99.1 MI East Lansing
2305	<u>KMIT</u>	102.3	SD	Mitchell,s/off	2030 WTCM 103.5 MI Traverse City
2311	<u>KGOR</u>	99.9	NE	Omaha,r,"Rock 100"+SCA	2030 WCSG 91.3 MI Grand Rapids
2315	<u>KLIN</u>	107.3	NE	Lincoln,MOR	2045 WITL 100.7 MI Lansing
2335	<u>WWCT</u>	105.7	IL	Peoria,r	2100 WJJY 106.7 MN Brainerd
2340	<u>WOSH</u>	103.9	WI	Oshkosh, r	2100 KAXE 91.7 MN Grand Rapids
2346	<u>KCKN</u>	94.1	KS	Kansas City	2105 WFNN 104.7 MI Escanaba, r, +SCA
2357	<u>WROE</u>	94.3	WI	Neenah, mor	2106 WCLW 105.3 OH Mansfield, NBC nx
2358	<u>WCLR</u>	101.9	IL	Chicago, g	2130 WNCO 101.3 OH Ashland,k, "Big 101"
8/14	Tr				"Music All America Wants to Hear"
0007	<u>KFMH</u>	99.7	IA	Muscatine, r "99+"	2131 WRHN 107.9 WI Rhinelander, mor
0030	<u>WYEN</u>	106.7	IL	Des Plaines,r	2140 WDAY 93.7 ND Fargo,mor
0045	<u>WZOK</u>	97.5	IL	Rockford, albun rock	
0047	<u>KAGE</u>	95.3	MN	Winona, "KG"	
0055	<u>WGER</u>	102.5	MI	Bay City, mor	DX from Prosit, MN using ST-5130 tuner and
8/15	Es	1158	CHFN	95.9 AB Calgary, r	5-element Yagi FM antenna mounted in attic
		1200	CJAY	92.1 AB Calgary,r,"CJ-92"	of cabin. All times CST. DX from Thunder
8/22	Tr	1115	WRVM	102.7 WI Suring	Bay while car was parked in driveway of my
		1127	WIGM	99.3 WI Medford	mother-in-law. Equip was Audiovox C-520
		1130	WCFW	105.5 WI Chippewa Falls	car radio (no booster).
		1130	WHAD	90.7 WI Delafield	
		1210	WBCE	102.9 WI Milwaukee	
		1500	WJMT	93.5 WI Merrill	

73, John

**KOET QRM****WHO SAYS TV INTERFERENCE CLEARED UP?**

Officials of the Oklahoma Educational Television Authority say their crews have eliminated interference problems caused by OETA Channel 3, but television viewers in this Pittsburg County town of Quinton say it's news to them.

"All you have to do is come down here and turn on a TV, and you can see it's still messed up," said Dora Wemberly.

A group of residents here complained a year ago when the station began broadcasting from a tower on a mountaintop near here that the signals were so strong that they got educational programming on every channel. The protests resulted in the station shutting down for a short time to permit viewing of an OU football telecast last year. OETA crews began installing "traps" on area televisions to alleviate the problem, but Mrs. Wemberly said residents in the area still have varying degrees of interference. Many residents in the area have always used "signal boosters" to pull in Tulsa television stations in the mountainous area. (Quinton is about 80 miles from Tulsa.)

"Some people can see Channel 3 in the background of Channel 8 and Channel 6 comes and goes. Sometimes you can watch a 30-minute program. Channel 2 is no more. But we get a wonderful Sesame Street." She said about 20,000 people are affected. "The bureaucrats in Washington and Oklahoma City keep telling us they've fixed everything. They tell us we never could get Tulsa stations anyway, because we're too far away. They don't realize that we're not ignorant, and we do watch TV down here in the mountains. We've tried everything. We have written (Sens.) Bellmon and Bartlett, state officials, and exhausted every avenue that anyone has suggested to us. We've gone to all kinds of trouble and I guess we were very naive in thinking that we could buck the government," she said.

The Federal Communications Commission recently granted the station a permanent license to operate. (From the Tulsa Tribune, Oct. 23, 1978. Submitted by Danny Buntin)

# Waterloo Effect

A particularly troublesome type of interference to FM radio reception can result when the frequency difference between two strong FM carriers is close to the intermediate frequency (IF) of the affected receiver. As the IF of FM receivers is usually 10.7 MHz, it is apparent that two FM stations in the same geographic area cannot have frequency separations of 10.6 or 10.8 MHz (53 or 55 channels) if risk of causing such interference is to be avoided. The two signals will heterodyne to produce (in the mixer) a signal of 10.6 or 10.8 MHz which the IF stages of typical receivers are unable to reject to a sufficient degree, with the result that it appears at the detector and is detected in the usual manner.

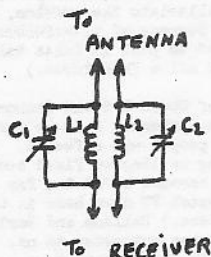
This problem is avoided by the FCC/CRTC regulations that prescribe minimum station separations for stations whose frequencies are separated by 10.6 or 10.8 MHz. However, this type of interference, which I will call, for lack of a better name, the Waterloo effect, has become apparent in Waterloo, Ontario, to a severe degree. CFCA, 105.3 MHz, 100kW vertical, 88kW horizontal, transmits from the Baden Hill tower (CKCO-13) only 12 km. west of the CKMS, 94.5 MHz, 50 Watts circularly polarized, antenna at the University of Waterloo. CKMS uses 94.5 MHz as no other suitable frequency could be found; special CRTC approval was obtained for this frequency in 1977. The Waterloo Effect, as far as I can determine, is at present not known to occur elsewhere; it results in the reception of CFCA and/or CKMS across the entire 88-108 MHz tuning range of the FM receiver, the severity of the interference varying somewhat across the band. This problem, which seems to affect about 40% of receivers tested in Waterloo, regardless of quality, makes reception of all but local signals impossible, including all eight Toronto FM transmitters at 100km.

When the problem became apparent when CKMS went on the air in November 1977, experiments were started by myself in an attempt to find a solution to the Waterloo effect, which locally, is a sore point among FM listeners. The problem can be eliminated by reducing the signal input to the receiver front end, but the degree of attenuation necessary also eliminates all but the local signals. The easiest solution seems to be the installation of a parallel-tuned filter in the (balanced) antenna lead. The filter, which should be connected to the receiver with a short piece of lead only, consists of small (30pf) mica compression trimmer capacitors in parallel with coils consisting of 8 turns of wire wound on a 1/4 inch form such that the coil length is 3/8 of an inch, placed in both transmission line conductors. The filter must be tuned to the frequency of one of the interfering signals; this is best done by tuning the receiver to a frequency that is clear except for the Waterloo effect, tuning filter for minimum signal; then repeat while tuned for a signal of moderate strength; the final peaking should be done while listening to a weak stations. Filters were constructed and installed on two different stereo receivers, using a folded dipole antenna. In one case, the filter eliminated the Waterloo effect; the effect was all but eliminated in the second case.

Other possible solutions would include retuning the IF transformers to a slightly different frequency to reject the undesired signal. It should be noted that the parallel tuned filter must be properly aligned; in some cases, slight retuning may be necessary when receiving different stations; replacing the trimmer capacitors with small air variable capacitors would make tuning the filter easier and less confusing.

I would like to thank the people of Conrad Grebel College, Waterloo, ON, for making their FM receivers available for testing, and in particular, Phil Regier and Harold Rycroft, on whose receivers the filters were installed and tested.

- Deane D. McIntyre



$C_1, C_2$  = 30pf mica trimmer

$L_1, L_2$  = 8 turns copper wire  
1/4 inch form coil  
3/8 inch long



# A STANDARD TESTING & RATING SYSTEM FOR FM DX TUNERS

Evaluating radio receiver equipment for DXing is a difficult matter. Some of the reasons follow.

First, the DXer uses equipment under unusual conditions and may be interested in very weak signals. Second, manufacturers specify performance under conditions that may not be typical for DXing; they want their products to look good, so frequently their data is not very realistic.

In order to use any simple rating system, it is necessary to employ some controls. First, it is necessary to have a FM folded dipole (wire antenna.) I suggest the antenna be attached to curtain or taped to the wall with the end suspended vertically about 5 feet above floor level. Next, a period of moderate tropo activity will allow a statistically larger sample of signals to be received with reasonable consistency.

Prepare a logging sheet to list all stations received by frequency. Mark the local stations on this sheet; local stations are very strong stations within approximately 30 air miles from the receiving location. Record all stations received starting at the low end of the band and tuning toward 100 MHz; later you can tune back down as a check. List the approximate location of each station and note whether the signal was received in stereo. This data will be used as reference data later.

Next, count how many adjacent channel signals were heard; this will be represented by an "a" in the formula. There will only be one signal allowed per channel.

If you have a local signal on 95.3 MHz, the adjacent channel signals are 95.1 and 95.5 MHz. In general there will be two adjacent channel signals for each local station; in some cases due to overlap, there will be less. If you have signals at 95.3 and 95.7 locally, you will have only three adjacent signals possible about these stations on 95.1, 95.5 and 95.9. Determine by counting the maximum number of adjacent channels possible to receive. Record this as "A" for the formula below. Count the total stations (including locals) received and record this as "r" in your data. Do not include spurious responses; count stations operating on an assigned frequency as tuned only.

To calculate the DX rating of the tuner, insert your data into the formula:

$$DX \text{ rating} = 1.4r \left( \frac{r}{A} \right)^2$$

where: r = stations received  
a = number of adjacents received  
A = total adjacents possible

As an example, a tuner provides the following data: r = 62, a = 6, A = 10. This tuner rates 31 on the scale. If your tuner achieves a score of 50 or more, it is probably quite good. This formula is based upon tuner sensitivity (r) and strongly dependent upon selectivity (a); the formula was empirically generated.

The test method above achieves a measure of tuner performance without electronic test equipment. This procedure achieves a uniform basis for comparison between DXers and imposes certain controls to provide reasonable results.

The author is interested in obtaining data from club members concerning different types of equipment. If enough information is received, a follow-up article will report the results to all members.

- Mike Dalton  
c/o Dalton Audio  
1810 Drew Street  
Clearwater, FL 33515



Technical Articles...Dave Hammer has retyped two articles for this month that appear towards the end of this issue. Dave has been the only volunteer to retype materials for the VUD. Thanks Dave!

WRTH 1979...Don Erickson is now taking advance orders for the 1979 World Radio TV Handbook which will retail for \$14.95. Copies will be air freighted from Europe and re-shipped by UPS. The advance order price is \$12 is good until the 31st. All profits will be turned over to the Handicapped Aid Program. All orders must be accompanied by remittance payable in U.S. dollars. Personal checks, money orders, and bank checks are acceptable in the U.S. Canadians, please use International Money Order. Each order must be accompanied by a stamped, self-addressed envelope. Canadians, please place an unattached postage stamp inside the envelope. After the 31st price will be \$14 and air freight delivery can not be guaranteed. Publication is not expected until February or March but orders are required now to arrange for air shipment. HAP or WTFDA does not accept responsibility for this order and all complaints/inquiries should be addressed to Don Erickson. Please make all funds payable to DON ERICKSON and mail early enough to arrive no later than 12/31/78. Please mark envelopes "WRTH 1979" in lower left-hand corner and mail to: Donald Erickson, 6059 Essex St., Riverside CA 92504.

CCI...Bill Draeb reports little information has been sent in recently so the column will not appear this month. Bill Block and Frank Aden have listened to the tape sent in by Roger Bunny concerning the reception of the A2 and A3 stations in England (see Nov. CCI, page 20). The station on the tape does appear to be an American and the most interesting part that is intelligible is "at 7:30 on NTV" or "NBC" or "NTZ". Since only NTV (Nebraska Education TV) makes sense we would guess the station is KLINE-3. There is a very distinctive music played during this promo that fits the format of a US educational station. It may also be that the station is a member of the "Newfoundland Broadcasting Co.", (NBC) as it is not a NBC (US network) promo. We doubt it is Newfoundland though as the accent does not sound Canadian. "NTZ" does not have any known references as far as we know. We will be sending a copy to KLINE and when more information is known it will be passed on to Bill Draeb.

Thanks!...We would like to thank Bill Block who helped put this issue together. Thanks Bill!

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Andy Bolin

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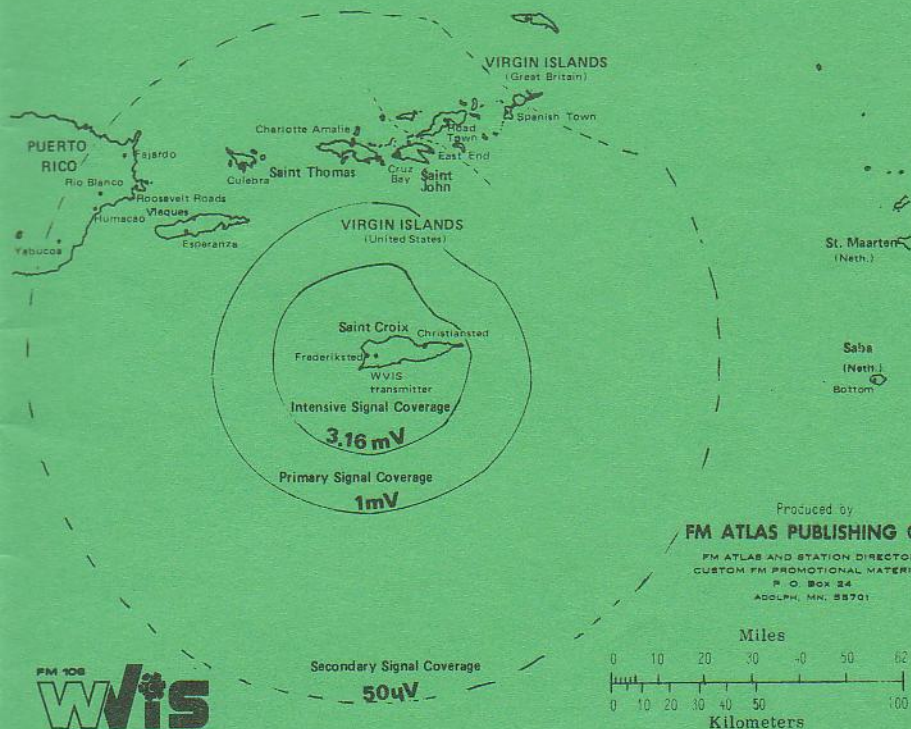
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#####  
 Bill Thompson News VUD Editor... Bill Thompson has been selected as the new editor-in-chief. All columns and feature articles should now be sent to him at 1907 Seneca St., Buffalo NY 14210. Anyone interested in taking over for Eastern TV-DX or Western TV-DX editor is asked to write Bill. Lets all hope the membership can give Bill their full support. Good luck Bill!

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