

VHF-UHF DIGEST

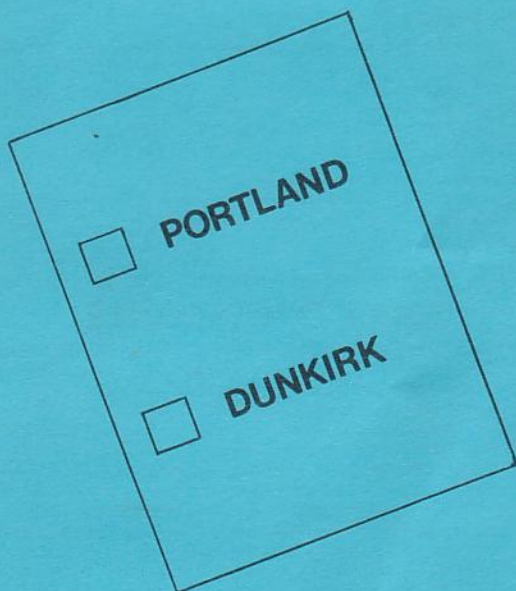
the official publication of the Worldwide TV-FM DX Association

FEBRUARY 1977

IN THIS ISSUE:

- *AUTOMATED FM MS DX, PART 2*
- *UNDERSTANDING POLARIZATION*
- *3 PAGES OF CANADIAN NEWS*

Convention '77...



It's Time To Vote!

publishers' notes...

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

DEDICATION...This issue of the VUD is being dedicated in remembrance of Pittsburgh DXer Tim O'Malley, WTFDA member since 1975 and a very close friend of your editor. Tim was invaluable during my first few months as editor-in-chief of this magazine, organizing materials and helping out whenever needed. He also served as promotion director and personality on our community radio station for many years. Your editor recalls several memorable all-night DX sessions at Tim's; in fact, more than half of my loggings were made at his hilltop DX site. I was, therefore, very much shocked and saddened to learn that Tim, a nineteen-year-old college student, had passed away on the morning of January 12. On behalf of WTFDA and its members, I'd like to express my deepest sympathies to the O'Malley family on this sad occasion. A scholarship fund has been established in Tim's name at the South Campus of Allegheny Community College in Pittsburgh; any contributions you might care to make would, of course, be welcomed and appreciated.

UHF TRANSLATOR DX GUIDE...We hope you're aware by now that this popular book is out of print. If you'd be interested in helping to compile an updated version of the GUIDE, we'd appreciate your help. A reminder also that we're still looking for volunteers to compile an update to the WTFDA TV STATION GUIDE. If you'd like to help with either task, please write your editor at the address shown on the back cover of this issue.

CONVENTION BIDS...Portland, OR and Dunkirk, NY are the two sites under consideration for WTFDA's 1977 convention location. Please study the data provided on page 25, then let your editor know which is your preference. Only ballots received by February 20 will qualify, so vote today!

BITS...Due to time limitations, Pete Oprisko's educational FM update article has been delayed indefinitely. We'll let you know when it is prepared...Remember that WTFDA Headquarters is now located at P.O. Box 202, Whiting, Indiana 46394. A new masthead for this page, currently being prepared by member Harry Hayes, did not arrive in time for this issue...Next month, the THIS IS YOUR DX column becomes a part of MEMORABILIA, with Robert Williams the editor of both. Please contribute!

This issue marks the beginning of the second year for WTFDA's new editor-in-chief and publishers. On behalf of everyone, I thank you for a very prosperous 1976... may 1977 be as successful for our club!

73, Clarke for Pete, John and Mike

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MAILBOX

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

New Members:

AN Leonard W. Gemar	442-60-5738, NATTC, BEQ	Millington, TN 38054
	441, Com. DL, Naval Air	
	Station Memphis (63)	
John A. Peterson	8125 Tuscany	Playa Del Ray, CA 90291
Emery Swan	3 Faculty Road	Durham, NH 03824

Renewals:

Michael Albanese, Tim Benko, James Brown, Jr., Bill Draeb, Mike Harron, Albert Kopec, Rod Luoma, W.J. Mansir, Clint McAuliffe, Richard Stein.

Address Changes:

Artie Bigley-1309 Timberview-Arlington, TX 76014

Renewals Due in March:

Jim Alexander, Dale Easten, James Bognar, Fred W. Born, Roger Bortree, Roger Brown, J. David Buch, Danny Buntin, Mike Collins, Thomas Cornell, Clinton Day, Mike Dorner, Wayne Fitzgerald, Bill Frahm, Ricky Glasgow, Bradley Griffin, Phil Hruskocy, Gerald Katz, David Leibold, Tom Leu, Joe Markewicz, Dean Markoshan, Pat Martin, Henry McCoy, Jr., Dean Niemi, Fred Nordquist, Guy Ogden, Les Price, Theodore Quiroz, John Robertson, R. Rouse, Scott Sampson, Bob Seybold, James Shepherd, Craig Simons, Andrew Smith, Joseph Smith, Jr., Richard Steinberger, Don Storms, Mike Sweeney, Pete Taylor, Steve West, Roger Winsor, Mike Worst.

Doug Everitt has done it again! LEONARD W. GEMAR has received the third gift membership given by Doug in a year.

EMERY F. SWAN is a zoology professor who learned about the club thru the World Radio-TV Handbook and Hank Bennett's book "The Complete Shortwave Listener's Handbook". Emery says that what he really wants is "to learn first about receivers good for both FM DX and MW BCB DX."

Tidbits.....

Ye editor was saddened to learn of the death of member Tim O'Malley of Pittsburgh. On behalf of the club, I'd like to extend condolences to his family.

Many thanks to the Buffalo Evening News for their plug of WTFDA. Our address appeared in the TV Topics Mailbox column, thanks to WTFDAer Paul Traska. Bill Thompson sent along a copy of the article to yours truly, and he said, "The nice plug for WTFDA should be credited to Paul Traska. He spotted the item about distant TV reception that triggered the flood of letters, and he wrote to the editor of the column, James Brennan, with a bunch of info on the club. As you can see, Paul chose to remain anonymous—probably to avoid a flood of inquiries that he couldn't possibly have time to answer, hi!" As Bill says, there seems to be quite of number of "closet TV DXers", as he calls them, in the Buffalo. The item has already triggered a number of requests to club headquarters for information on WTFDA. See how easy it is to get publicity for the club? Use your local media....they enjoy "being used". If your local paper has a Radio-TV column or a Question and Answer column, write in and ask a question about TV or FM DXing. Then you can follow it up with information on the club. (Don't make it obvious, tho, that both letters are from the same person, hi.) Newspapers are always looking for people with unusual hobbies, and what's more unusual than DXing, hi? Local radio stations are often interested in people with unusual hobbies, also. Why not give them a try. I'd love to see a flood of letters from your area asking for information on WTFDA. Well, that's it for this month.....see y'all in da month of March.....jz.

STATION BREAK

Next month we'll be reviving our "STATION BREAK" member ad section in the VUD. If you have a non-commercial ad, send it in!



FM NEWS

Bruce F. Elving, Ph.D., Editor
18 1/2 East Fifth Street
Duluth MN 55805 218-727-6916

New Stations Granted

AK None 100.3 84 watts h,v; 40' 2, 18 miles
AZ Safford 94.1 100000 h,v; -370'
CO Pacerella K209AB *89.7 10 watts (FM translator of KOTO *91.7 Telluride CO)
ID Pocatello 104.9 3000 h,v; -582', m
IL Pana 100.9 3000 h,v; 290' 15, 45 miles
IA Cedar Rapids KOJC *89.7 10 watts
KS Hialetha 103.9 3000 h,v; 300' 15, 46 mi
MA Buxford *88.3 710 (h); 19' 3 miles primary, 19 mi secondary. Buxford is near Andover MA; Schools.

MA Pittsfield *89.5 10 watts
MI Monroe *89.5 10 " [of Rochester]
NY Sedus *89.5 10 " (Sedus is east of
NC Elon College (near Burlington) *89.3 10
OR Ontario 96.1 27000, 409' h; 3000, 389' v;
43 km primary; 105 km secondary; g music
SC Honea Path 103.1 3000 h,v; 300' rk
TX Alvin *91.3 10 watts
TX Mineola 96.7 3000 h,v; 300' 24, 74 km
VA Summit *106.9 100000 h,v; 755' 66, 138
kilometers' coverage; initial decision.
WA Walla Walla 97.1 50000 h,v; 1330' 44, 90
miles' coverage; g stereo, rock.
WY Sheridan 96.5 25000 h,v; -13'

On Air and DK Ready (Presumed)

CA Hanford K10Y 103.7 50000 h,v; 500' Music?
CA Sacramento KNOD 106.5 50000 h,v; 310'
HI Waipahu KULA 92.3 100000 h,v; 1630'; g
IL Summit WARG *88.9 10 - Get it, P. Opriske
KS Hillsboro KHNS *88.1 10
KY Louisville WUOL*-FM *90.5 35000 h,v;
580'; g, c, SCA [talk], P. g, k (not m)
LA Bayou Vista KOKI*-FM 95.3 3000 h,v; 300Y
LA Shreveport KCDZ 100.1 3000 h,v; 300'
MD Lexington Park WMMW*-FM 97.7
MI Midland WRCI 93.5 3000 h,v; 300' [72 km
MN Window KDOW-FM 94.3 2850 h,v; 275' 23, /
MT Haver KPOX 92.5 94000 h,v; 1790'; g
PA Sharpville WFAF-FM 95.9 3000 h,v; 300'cm
TX Kilgore KXTX 95.9 850 h,v; 510'
TX Ozona KRCT 94.3 3000 (h); -55'
VA Richlands WGH 105.5 400 h,v; 798'; g
WY Tarrington KERM 98.3 3000 h,v; 300' g, km
WY Riverton KTKA 93.5 3000 h,v; 278'

On Air with Changes (Selected)

CA Bakersfield KHIS-FM (from KHIS) 50000 h,v;
495'; CA Concord KHVS *90.5 265 h,v; 450'
CA Los Angeles KUSC *91.5 10700 h,v; 930'
IL Springfield WDBR 103.7 19000 h,v; 320'
MA North Adams WJWJ from 89.5 to *91.1, 10 m
NY Buffalo WBUF 92.9 91000 h,v; 580'; g [mi.
NY Syracuse WONO 107.9 37000 (h); 490' 30, 70Y
NC Collihue WVCU *91.7 10 watts
NC Fayetteville WQSM 98.1 99000 h,v; 500'
NC Tarboro WTC 104.3 100000 h,v; 220'
OH Dayton WOPB *88.7 (from 90.1) and OH Ketter-
ing WCLX *88.7, both 10 m, sharing time.
OK Enid KCRF-FM 96.9 76000 h,v; 185' Audio
improved on this station?

PA Jenkintown WIBF-FM 103.9 270 h,v; 1000'
SC Walterboro WALD-FM 100.9 3000 h,v; 300'
Stereo, or to be Stereo
IA Sioux City KWIT *90.3 [MI Charlotte
KY Elkhorn City WECL 103.1 WGER-FM 92.7
ME Auburn WMAV 100.1 (Calls, too)
ME Ellsworth WDEA-FM 95.7
MO Glen Burnie WBKZ 95.9 r (was k); *Z-96"
MI Grayling WQON 100.1; k
MS Gulfport WTAM 102.3, s
MS Ocean Springs WOSM 103.1; g 106.3; [410'
OK Weatherford 97.3
MO Kirksville KRXL 94.5 (on with 42000 h,v/

Not Stereo

NJ Egg Harbor (City) WRDR 104.9 (no \$ heard
in over a month)
NY Buffalo WROL-FM 104.1 (never heard in \$)

SCA (67 kHz) Activities

AL Birmingham WERC-FM 106.9 adds SCA
CO Denver KADZ 105.1 music
FL Miami WLRN-FM *91.3 adds SCA
IL Champaign WDMV-FM 97.5 delete SCA
IN South Bend WNUJY 101.5 delete SCA
LA New Orleans WRNO 99.5 telemetry only;
delete listing as an SCA station
LA Shreveport KRMD-FM 101.1 adds SCA
MO Farmington 98.5 adds SCA
OH Newark WKNO 101.7 adds SCA
OR Portland KJIB 99.5 adds SCA
WI Fond du Lac WFCN 107.1 adds SCA
WA Bellingham KERI 104.3 Mutual (the only
station in the world known to carry the
Mutual network on its SCA)
WA Seattle KUOW *94.9 physics talk show
KXII-FM 95.7 Physicians Radio Net.
KEZZ 98.9 music
KSEA 100.7 no SCA; delete list-
ing. KRAB*107.7 ethnic (Spanish)

Facilities Changes

CA Davis KQVS from 91.5 to *90.3 5000 h,v;
150'; 12, 41 miles; g stereo, rock
CA San Rafael KTFM-FM 100.9 2200 h,v (360')
CO Colorado Springs KRCC *91.5 1600 (h).
DC Washington WGTB *90.1 delete Dolby
FL Apopka WTLN-FM 95.3 300' (3000 h,v)[570'
FL Jacksonville WIVY*-FM* 102.9 6000 h,v;/
FL Orlando WBJW 105.1 1380' (100000 h,v),
transmitter 25 km e. of Orlando; 50, 99 mi
GA Savannah WTOCF-FM 94.1 89000 h,v; 1320'
ID Pocatello KSHI 94.9 73000 h,v; 1000'
KS Manhattan WKMF 101.7 1700 h,v; 400'
KY Louisville WFPL *89.3 100000 h,v; 240'
LA New Orleans WYLD-FM 98.5 97000 h,v; direc-
tional; 360'; 33, 76 miles
MD Princess Anne WOLC 102.5 has vertical
MI Ann Arbor WCBN to stay permanently on
*86.3 (from 89.5). [500' 33, 73 miles
MI Grand Rapids WLAJ-FM 96.9 50000 h,v; /
MN Alexandria KCMT-FM 100.7 800' (100000
h,v; reduces coverage to 66, 140 km)
MN Moorhead KIDA 99.9 100000 h,v; 390' [mi.
NV Las Vegas KUDO 93.1 30000 h,v; 45' 6, 45/

NJ Camden WKDN 106.9 38000 h,v; 550' no \$
NM Albuquerque KHFM 96.3 1350 h,v; 4100'
NM Roswell KR5Y 97.1 235' (25000 h)
NY New Rochelle WVOX-FM 93.5 2400 h,v;
330'; 15, 46 miles; transmitter Yonkers
NY New York WCB5-FM 101.1 4600 h,v; 1300'
(coverage same as 30, 69 miles).
NY Rensselaer WQRW-FM 103.9 300' (3000h/v)
NY Rochester WNKZ 92.5 28500 h,v (500')
reduces coverage to 29, 67 miles; noMS
NC Burgaw WPJC 99.9 100000 h,v; 510'
NC Dunn WGTI 103.1 3000 h,v; 300' [440'
NC High Point WHPF-FM 95.5 100000 h,v;/
ND Fargo KFNW-FM*97.9 100000 h,v; 350'
OK Broken Arrow KGCW 92.1 300' (3000
h,v; transmitter to west side of Tulsa)
OK Tulsa KNNB 95.5 95000 h,v, directional
640'; 39, 83 miles.
PA Philadelphia WUSL 98.9 18000 h,v(830')
WMGK 102.9 12500 h,v; 1010'
WPFC-FM 104.5 5000 h,v; 1010'
PA Wilkes-Barre WCLH *90.7 2000 h,v;
1000'; 23, 58 mi; Mutual
TN Cleveland WCLE-FM 100.7 adds vertical
TN McKenzie WKTA 106.9 100000 h,v; 470'
TN Red Bank WSMH 94.3 190' (3000 h,v)
TX Dallas KVTI *91.7 100000 h,v; 790' g;
41, 86 mi; sharing transmitter site at
Cedar Hill TX with KCHU *90.9.
TX Fort Stockton KPJH 94.3 3000 h,v; 235'
VA Grundy WJND 97.7 1100 h,v (490')
WA Seattle KEZX 98.9 96000 h,v; 1110'
WI River Falls WRFW *88.7 3000 (h); 82';
reduces coverage to 11, 48 km; on air
with these facilities!

Formats/Networks

AZ Casa Grande KDFE 105.3 k (not rm); g
CO Greeley KFZK 96.1 Mutual; g SCA
dropped; used only for telemetry.
IN Bloomington WGTG 92.3 I (not A)
IA Ames KCCD 107.1 r (from rp)
IA Cedar Rapids KHAK-FM 98.1 drops M;
carries commercials but no Mutual news.
IA Perry KDLS-FM 104.9 Mutual (M)
KY Glasgow WGC6 95.1 UPI Audio
LA New Orleans WTUL *91.5 Y (ABC Contemp)
MD Baltimore WCAO-FM 102.7 cr
MI Bay City WGER 102.5 S (AP Audio)
MI Detroit WFBG 98.7 U (UPI Audio)
MI Flint WFBF *95.1 c (still monaural)
MI Mt. Pleasant WCMU *89.5 c j [AZ Flag-
MI Saginaw WKCO 98.1 kr g staff KFLG
MN St. Cloud KWSC *88.5 rocks; g 99.9 r
MS Fulton WFTA 101.7 r; monophonic
MS Laurel WNSL-FM 100.3 Y (from Z)
MS Pascagoula WGDG 106.3 k; g
NJ Franklin WGSU 102.3 rk
NJ Millville WMBV-FM 97.3 r (not rk)
NY Auburn WRLX 106.9 Mutual
NY New York WNYC (now IDs as *Y-97*) r,
true \$ restored; carries NBC news at
times? NY Port Jervis WDLA-FM 96.7 m
(from km). NY Poughkeepsie WFDD 101.5rp
OH Centerville WCWT *91.9 (not *89.5) r

OH Mount Vernon WWV-FM 93.7 k (it was apparently never gospel); S.
 PA Carlisle WDCV *88.3 p
 PA Gettysburg WZBT *90.3 p
 PA Nanticoke WWJW 92.1 ABC-FM
 PA Philadelphia WUSL 98.9 m
 PA Pittsburgh WVEE 102.5 rp (not ABC-FM)
 WYDD 104.7 ABC-FM
 PA Uniontown WPQR 99.3 m
 TX Lufkin KLUF-FM 105.1 m
 TX Sinton KNKN 101.3 p (not mr), \$; was off air for a while, but now back on!
 TX Tyler KR0Z 92.1 k (nto(not k)
 KYLL 93.1 p (from k)
 VA Norfolk WQWV 102.9 p (from sj); "Wowie"
 Ont., Burlington CING 107.9 m
 Ont., Windsor CKLW-FM k (was kc); "FM-94"
Network Mysteries ???
 AL Scottsboro WCNA 98.3 has ABC, but which of ABC's four networks?
 MT Dillon KDBM 98.3 has ABC, but which?

More Formats/Networks

IN Elkhart WXAX 104.7 m (not g)
 IN Huntington WHLT-FM 103.1 m
 IN Richmond WR1A 101.3 m
 IN Rushville WRCR 94.3 m (not r)
 IN Wabash WKUJ 95.9 r (not rk)

Non-IDs (Selected)

CA San Francisco KNAI 99.7 "stereo 99"; \$, m (to go to KYJU); NBC news?;
 CT Brookfield WINE-FM 95.1 "1-95." Now separate rock from AM affiliate.
 KS Salina KSKG 99.9 "99-KG"
 MI Saginaw W10G 106.3 W-106
 NY New York WWSW 97.1 Y-97 (to be WYNY)
 OH Cleveland WGLC 98.5 G-98
 Ont., London CFPL-FM 95.9 Stereo 96

Call Letters Assigned

AL Stevenson 101.7 WWSV
 AL Tracy 105.7 WRES (from WTUB) ["K-104"
 AZ Mesa 104.7 K10G (KBUZ-FM); automated r/
 AR Walnut Ridge 106.3 KCAC
 CA Inglewood 103.9 KACE (KAGB-FM)
 CA Paradise 96.7 KNVR
 CA Ridgecrest 92.7 KZ1Q-FM
 CA Salinas 103.9 KCTY-FM
 CA San Diego 98.1 K1FM (KDIG)
 CO Colorado Springs 101.9 K1NX (KRYT-FM)
 CO Glenwood Springs 92.7 KGLS
 DC Washington 100.3 W00K (WFAN); Stereo;
 English (drops Spanish); rs, "OK-100."
 FL Orlando *89.3 W0AG-FM
 IL Champaign *88.7 WPCD
 IL Chicago 101.1 W0QX (WNS); \$, rp, believed to have NBC news.
 IL Zion 96.9 W0ZN-FM (W0ZN)
 IN Evansville *91.5 W0EV (WEVC)
 IN Indianapolis *91.5 W0RF Franklin School
 IA Emmetsburg 98.3 KEMB, m; expected to be on air now with 3000 h.v.; 300'. Stereo?
 KS Kansas City 98.1 KU0L (KU0L-FM) NY Utica
 KS Oberlin 101.1 KSNF I*90.7
 KS Scott City 94.5 KULL (KFLA-FM) WPNR--
 ME Bath *91.5 W0OS WPNR--
 105.9 W1GY (WJTO-FM) FM--
 ME Portland 93.1 W0GX
 MD Glen Burnie 95.9 W0BZ (W1SZ-FM); \$, r
 MA Brockton 97.7 W0AV (WBET-FM)
 MI Sault Ste. Marie 101.3 W0UE
 MN Collegeville *89.1 K0JU
 MN Rochester 101.7 KRCH (KWEB-FM)
 MS Meridian 101.3 W0AL (W0AL-FM)
 MO Overland *90.1 KRSH
 NY Gouverneur 92.7 W1UF (W1GS-FM)
 NY Monticello 98.3 W0SL

OK Oklahoma City 100.5 KATT (KJAK), "The Cat," p, with some light country
 PA Chester *89.5 W0NR
 PA Millersville *91.7 W1XQ
 SC Orangeburg 10
 106.7 W0JS (W0IX-FM)
 SD Aberdeen 94.1 K0SN-FM
 TN Germantown 94.3 W0TG WJ Lamesa 104.7
 TN Jefferson City 99.3 W0SB--K0OT--
 TX Dallas 102.9 KMGC (KDTX) change from g?
 TX Fort Worth 97.1 KFJZ-FW (KWX1) [K's]
 TX Odessa 99.1 K0KK, \$, g (quad; hence 4/
 UT Logan 92.9 K0LW-FM
 VA Charlottesville 97.5 W0WV (W0CV--FM")
 WA Walla Walla 93.3 KEX1
 WV Rainelle 96.7 W0RR-FM WY Torrington
 WV Williamson 96.5 W0CN WERN 98.3; SCA
 WI Middleton 106.3 W0AD (W0AD-FM)

Abbreviations Used (Selected)

Program codes: c classical, e ethnic, g gospel, k country, m middle of the road, n all news, p progressive rock, r rock oldies, top hits and "adult rock"; s soul, t all talk.

Network codes: A ABC-FM, C CBS, 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, Z Mutual Black network.

SCA symbols: A ABC networks, E ethnic and foreign language, F farm news, M or MZ music or Muzak, N NBC network, Q Physicians Radio Network, S sports, T talk, TB talking book for the blind, X facsimile, slow-scan-TV, teleprinter noise, such as W1VE 94.9 Baraboo-Madison WI has.
 W0WZ 92.5 Rochester NY said to still have moribund NBC NIS, n, as of Jan. 16, 1977.

Readers' Reports and Comments

"These non-IDs seem to be multiplying like rabbits," said one reporter who supplied many of the non-IDs given above, and as a perusal of Clarke's feature in last month's VUD would indicate. The program format change of WEZX 107.1 Scranton PA from m to r resulted in the station's receiving a letter of complaint from one correspondent, who said there is no longer an easy-listening station in Scranton. Reported off the air: WBJH 101.5 Trenton NJ, which has been having transmitter problems and in maintaining stereo separation, as well as with bass frequencies. WYZZ 92.9 Wilkes-Barre PA heard with Mutual; are they quitting A? WMAI-FM 107.3, now being programmed by ABC-FM in Washington DC, p, but with "announcers who seemed to know nothing about the music they played." WCAO-FM 102.7 Baltimore 75% c; about 25% rock. WHFS 102.3 Bethesda MD, "Home Grown Radio" is one of the few stations to help local talent; frequently has live concerts in its studio. A reprint of an article, "Nothing New Under the AM Sun," from the Jan. '77 Audio was sent, which concerned the reputedly good AM fidelity of the 1937 30-tube Scott Philharmonic, which was subsequently improved upon with the introduction of 40 mHz and 100 mHz FM bands in models just before Scott Radio Labs expired in the early 1950's. The article points out that vintage Scott receivers would probably not work properly now, without an extensive realignment, cleaning, and tube replacement.

Louisville's two library stations, WFLP 89.3 and WFKP 91.9, hope to both be 100 kw on the air by February (just across the street from WLRN 102.3, and there is a terrible harmonic area there, with 1 classical, 1 talk, and one rock station within 100 yards of each other!).

WBST Muncie IN when it finally gets permission to move to *92.1 with 3 kw, expects to be received within a 37-mile radius; at the present 10 watts "on a clear day, WBST can probably go out about eight miles," they estimate, which seems realistic enough. An Indiana reporter said he talked with a consulting engineer doing some work on FM in Toronto; apparently for a station considering going up on the CN Tower; "they want to know the results of such a concentration of stations relative to auto receiver overload. . . There are 5 FM's up there now; and there is room for a total of 11. Apparently there is considerable expansion in the works for FM in Canada and Toronto, in particular."

KMAG 99.1 Fort Smith AR has its transmitter on Magazine Mt., a good 50 miles from city of license, which should be indicated on my maps. "Your FM column gets better all the time. However, I wish you would run the symbols key every 2-3 months [see above—ed.], as I and many others get

mixed up with all the abbreviations and no reference to clarify them. "I'm surprised to find out that my column 'gets better'; I thought it had gotten to a certain point of excellence or mediocrity and stayed there! I have written to WTCH-FM Shawano WI, threatening to complain to the FCC if they continue to stall in moving from 100.1 to 99.3, and got a not-too-friendly response from Ray G. Gruetzmacher, president: "I am appalled at the total ignorance of conditions made manifest in the enclosed communication from you, concerning our frequency change. May I suggest that before you make any threats, you get the facts concerning this case. Your audacity is only exceeded by your bad judgement (sic). If I don't hear from you regarding this, I'll forward copies of this correspondence to the Federal Communication Commission for their records and consideration. Your early response is expected." So I wrote again, enclosing a copy of an ad for the FM Atlas, and would you believe, he didn't order a copy? An Appleton WI reporter heard the FM Atlas ad on WAUN 92.7 Kewaunee WI, and he's been hearing WAUN over two months now on 103.1 at equal strength from South to southeast. An extra-legal FM translator in Chilton for WAUN? I'll check on this. Or maybe Bill Draeb could check this out locally. WORT *89.7 Madison identifies rarely as that; more often as "Back Porch Radio."

One VUD reader suggested my underlining headings in this column, so I have done that. He also sends comments on the Dec. column, noting that the FCC probably won't chastise a broadcaster for combining v & h powers, because he contacted the FCC office and talked to a Mr. Allen in St. Paul, who was not at all concerned about the poor audio and high hum level of KDHL-FM 95.9 Faribault MN; he wasn't even too concerned about the illegal "WPAZ" which had been on 92.9, 96.1 and 96.5; "guess the FCC is too snowed under with CB complaints." His comments on the Atlas: "Keep brackets" in the Station Directories for 10-watters, instead of "2 and 9" coverage guesstimates; "keep up the non-IDers feature—much needed in DX. Don't put non-IDs on maps! Will be too cluttered! Also - SCA was active in 1956 (not '58 as noted). I have old article on WLWL, stating one reason to build FM was for Muzak (they came on in Dec., 1956)." KRLL *90.3 Northfield MN not heard for several months; deleted?

KEMB 98.3 Emmetsburg IA to be on the air 6 am to 10 pm 7 days/week, and they were to have come on the air Jan. 10. KMGK 93.3 Des Moines has switched from mild rock to top 40; KDMI 97.3 Des Moines is Mutual, while KTOF 104.5 Cedar Rapids is being sold: "I would guess a change of format—rock or mor: probably." KWTW *90.3 Sioux City IA will be on the air about Oct. 1, 1977. "As with all public radio stations we will do our local programming—not repeat programming of any other station, such as WOJF-M. . . Station will have its own building, will be professionally staffed, and full stereo." KMOE 92.1 Butler MO confirms for me that they are not stereo; monaural.

KAEZ 107.7 is the only black-owned radio station in Oklahoma. "Apparently, there had been a good number of other applicants for this, OKc's last open FM. The owner explained [on a public affairs program on KOCO-5] reasons for going FM (better fi, fulltime operation, etc.); he seems technically well-qualified. . . The station is very well run; audio quality is very good. There was no mention in the interview if the station would be going \$ in the near future." And "In the December VUD, I note one reporter cutting down the Atlas—he doesn't know what he's talking about! You're right about 'historical value' of old logos scattered about. On the other hand, I would rather have programming than nets in the frequency section. . . it makes MS DX a lot easier. . . Your non-IDer list is not superfluous, tho it isn't totally complete either. FMorgue sounds okay, too. Use of the W-E format would also suit me better. Drawing major Interstates sounds good—provided it doesn't clutter the maps. The small print for ten-watters is good, too. . . If AM went stereo, records would no longer have a reason to be careful with phase (to make it sound all right in mono); therefore, it might help improve stereo records — on radio, AM or FM, or on the home phono. AM \$ wouldn't be hi-fi, but it has its merits, I guess. . ." KCRC-FM 96.9 Enid OK has wandered down to 96.5 at times, but hopefully has better audio now that they have higher power on the air (flip back 2 pages). There's a possibility a strike application will be filed against 'em!

New SCA news is sent from Seattle, where the brother of a reporter now has SCA. "We did not have a schematic but between the two of us we managed to find the right places to tap power and SCA."

CONTRIBUTORS last month: Frank Aden, Jr., Bend OR; Larry Bolef, KCHU Dallas TX; Thomas Casswell, Dunmore PA; Tom Cornell, Kokomo IN; David Cox, Birmingham AL; George H. Diller, WOKF Clearwater FL; Mike Dorner, Jr., Metairie LA; Jim Duncan, Kalamazoo MI; John Ebeling, Bloomington MN; Doug Everett, Enid OK; Brian James, Eugene OR; Nick Lombardi, Atlanta GA; Joe Markewitz, Hornell Heights, Ont.; Vic Melis, Spring City PA; Eric Norberg, Portland OR; Pete Oprisko, Whiting IN; R. A. Segalas, San Fran. CA; Andy Smith, Dillsburg PA; Ralph Strobel, Muncie IN; Peter V. Taylor, San Fran. CA; Robert Zent, Huntington IN; John Zondlo, Hammond IN.

CONTRIBUTORS this month: Robert Baker, Humboldt IA; Caswell; Cornell; Dwight Crabtree, Lafayette NY; W. O. Dickerman, Williamsport PA; Ebeling; Everett; Ted Fleischer, Louisville KY; R. G. Gruetzmacher, WTCH-FM Shawano WI; Joel Hermann, Ames IA; Clarke W. Ingram, Pittsburg PA; Edward H. Isotalo, Appleton WI; Jack K. Latteman, Tempe AZ; Nick Lombardi, Atlanta GA; Clint McAuliffe, Greeley CO; J. R. Mc Clure, Greenville SC; Frank Merrill, Toledo OH; Gary Olson, Lake Forest IL; John Robertson, Crosswell MI; David W. Sawyer, KFZ Greeley CO; Smith; Strobel; James E. Sylvester, WQON Grayling MI; Taylor; Robert W. Thomas, KBIT Sioux City IA; Larry Well, East Rockaway NY; Steve West, Havertown PA; Zondlo. Also: Gene Sisk, WFTO-WFTA Fulton MS; KMOE (no signer) Butler MO.

The National Radio Broadcasters Association filed comments with the FCC opposing the opening of the commercial FM band to 10-watt public, noncommercial radio stations, pointing out the difficulty of protecting higher-powered commercial stations from interference and frequency strangulation, which are " dangers posed by the proposed rule-making."

FM DX NORTH

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

February 1977

Es was noted on 1/2 by one reporter in MN. Very limited tropo was noted out to the 300-400 mile range as very cold wx conditions prevailed in the North. Most new catches are the result of changes to station facilities, etc. Michael Hogan (Highland, IN) dropped a line to report that there was no DX to speak of from his location -- and I'm just as impatient as he is in waiting for spring (and better DXing conditions) to come. Please report your FM DX to this column if you live in the following states/provinces: ME MA RI CT NH VT NY NJ PA OH IN MI IL IA WI MN NFD PEI NS ON NB

Ralph Strobel - 2510 E. McGalliard Road - Muncie, IN 47303 (EST)

Eqts: RX: Heathkit AJ-1510 Ant: Winegard 60' AGL w/rotor. New Underlined. Total: 607.			
9/9 Tr 0100	<u>WTCC</u> 103.9	KY Campbellsville	10/19Tr 0715 <u>WNAS</u> 88.1 IN New Albany,r,s/on
9/14 0000	<u>WFNY</u> 92.1	WI Racine,m	10/20 0530 <u>WCCQ</u> 98.3 IL Crest Hill,s/on
9/16 1000	<u>WRCJ</u> 89.3	OH Reading,r	10/21 0815 <u>WDTR</u> 90.9 MI Detroit,s/on
9/17 1230	<u>WDOC</u> 95.5	KY Prestonburg,m	10/25 0600 <u>WBYG</u> 99.9 IL Kankakee,r,s/on
9/19 2300	<u>WKKB</u> 92.1	WI Manitowoc,m	0629 <u>WKNT</u> 100.1 OH Kent,r
9/20 0800	<u>WHSS</u> 89.5	OH Hamilton,r,10w.	10/26 0743 <u>WLRA</u> 88.1 IL Lockport,r
9/25 1200	<u>WFBE</u> 95.1	MI Flint,SS	10/29 1525 <u>WRSP</u> 89.9 OH Miamisburg,r,10w.
9/29 2330	<u>WQED</u> 89.3	PA Pittsburgh,c	2358 <u>WRCI</u> 89.3 IN Franklin,r,10w.
2330	<u>WETS</u> 89.5	TN Johnson City,c	11/1 2240 <u>WPRI</u> 98.5 IL Freeport,k,SID
10/1 0130	<u>WKDD</u> 96.5	OH Akron,p	11/2 0800 <u>WLHI</u> 88.3 IN Ft.Wayne,g,10w,s/on
10/2 0434	<u>WSAQ</u> 107.1	MI Port Huron,m	11/12 1330 <u>WDMH</u> 91.1 IN Indianapolis,w,r
10/3 0620	<u>WCRF</u> 103.3	OH Cleveland,g	11/15 1200 <u>WJEL</u> 89.1 IN Indianapolis,c,r
10/4 1950	<u>WGLT</u> 89.1	IL Normal,c	11/16 0907 <u>WJEF</u> 91.9 IN Lafayette,m
10/5 0001	<u>WJRE</u> 92.1	IL Kewanee,r,s/off	11/17 0420 <u>WUSO</u> 89.1 OH Springfield,p,s/off
10/6 2307	<u>WFEM</u> 92.1	PA Elwood City,k,s/off	11/18 1620 <u>WSSG</u> 101.1 KY Hasard,k
10/11 0130	<u>WITL</u> 100.7	MI Lansing,k	1700 <u>WCWT</u> 91.9 OH Centerville,r,10w
10/12 0800	<u>WGMH</u> 88.1	OH Dayton,r,s/on,10w.	11/30 1700 <u>WCNE</u> 88.7 OH Batavia,r
10/14Es 0103	<u>CKY</u> 92.1	MB Winnipeg	11/30 1700 <u>WYSU</u> 88.5 OH Youngstown,o
10/15Tr 1700	<u>WLHS</u> 89.9	OH West Chester,r,10w.	

The stations listed below (including other closer stations, and outside of IN --not listed here - fjn) are ones I can pick up most any time. Usually I can pull in more, but rainy and snowy wx hasn't helped lately.

12/6 Tr 0049	<u>CKLW</u> 93.9	ON Windsor,k(200)	12/6 Tr 0145	<u>WGER</u> 102.5	MI Bay City,m(250)
0058	<u>WSTO</u> 96.1	KY Owensboro,m(195)	0147	<u>WQVE</u> 102.5	PA Pittsburgh,r(280)
0058	<u>WHNN</u> 96.1	MI Bay City,r(250)	0157	<u>WEZW</u> 103.7	WI Wausatosa,m(250)
0111	<u>WISN</u> 97.3	WI Milwaukee,m(250)	0200	<u>WQAL</u> 104.1	OH Cleveland,m(220)
0112	<u>WEMK</u> 97.3	WV Wheeling,m(250)	2231	<u>WBMH</u> 107.9	WV Huntington,g(200)
0123	<u>WKSX</u> 99.5	OH Cleveland,m(220)	2232	<u>WDMT</u> 107.9	OH Cleveland,m,g(220)
0144	<u>KEZK</u> 102.5	MO St. Louis,m(275)	2233	<u>WCBU</u> 89.9	IL Peoria,c (225)

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

Equipment: RX: Zenith. Present Log Total: 44

11/3 1107	<u>WTWC</u> 103.9	IL Urbana	11/26 1850	<u>WPGU</u> 107.1	IL Urbana
1127	<u>WSHY</u> 104.9	IL Shelbyville	1853	<u>WVLJ</u> 105.5	IL Monticello
1130	<u>WFME</u> 104.5	IL Springfield	12/11 1954	<u>WFWA</u> 106.3	IL Sullivan
1141	<u>WMBJ</u> 102.1	IL Danville	1958	<u>WSMT</u> 106.1	IL Litchfield
1414	<u>WACF</u> 98.5	IL Paris	12/12 0228	<u>WSOY</u> 102.9	IL Decatur
1442	<u>WDWS</u> 97.5	IL Champaign	12/14 2229	<u>WHOW</u> 95.9	IL Clinton
11/13 1244	<u>WIAI</u> 99.1	IL Danville	12/16 2030	<u>WDZQ</u> 95.1	IL Decatur
1419	<u>WLBH</u> 96.9	IL Mattoon	2211	<u>WNAP</u> 93.1	IN Indianapolis
1437	<u>WRTL</u> 95.3	IL Rantoul	2232	<u>WEEB</u> 92.7	IL Taylorville
1730	<u>WLRW</u> 94.5	IL Champaign	2319	<u>WSSR</u> 91.9	IL Springfield
1735	<u>WITT</u> 93.5	IL Tuscola			

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

Equipment: RX: Heathkit AJ-15 Ant: JPD LPL-FM10A at 45' AGL. New underlined. Totals: 846.

12/22 Tr 1545	<u>WAMO</u> 105.9	PA Pittsburgh,s(275)	12/27AS 0954	Unid 100.3	"This is OK-100"
1551	<u>WRKY</u> 103.5	OH Steubenville(296)	1149	<u>WGTE</u> 90.1	DC Washington (300)
1600	<u>WNIC</u> 100.3	MI Dearborn, ID (355)	Tr 1150	<u>WBOE</u> 90.3	OH Cleveland, 50w(300)
12/23 Tr 1858	<u>WAEZ</u> 97.5	OH Akron, m (295)	12/28AS 1757	<u>WVAM</u> 100.1	PA Altoona,k (225)
AS 2140	<u>WVWC</u> 88.9	WV Buckhannon, (360)	12/29AS 1840	<u>WCRF</u> 103.3	OH Cleveland,g (300)
12/24 Tr 0904	<u>WKSU</u> 89.7	OH Kent,j (300)	Tr 2130	<u>WCRH</u> 90.5	MD Williamsport,g,(225)
0920	<u>WHUR</u> 96.3	DC Washington (300)	noted consistently over WDUQ.		
MS 0939	Unid 94.7	"8:39" time check	12/31 1003	<u>WRFL</u> 92.5	VA Winchester (300)

Paul Traska - 64 Weaver Ave. - Buffalo, NY 14206

Eqt; Grundig-Majestic radio AM-FM-SW. Anti Channel Master 34 el. VHF-UHF-FM w/built-in pre-amp & FM trap. I use the ant. for TV DX, thus reason for trap, so FM DX is somewhat

impaired by this trap. Log totals; 70; States; 5; Prov.; 1; 24 on Educ. ch. All loggings new.

11/29 Tr	2000 WOIV	105.1	NY	DeRuyter	12/8 Tr	2000 WDUQ	90.5	PA	Pittsburgh
	2030 WGSU	89.3	NY	Genesee	12/10	1200 WAUP	88.1	OH	Akron
12/4	1900 WRVO	89.9	NY	Oswego		1545 WEOS	89.7	NY	Geneva
12/5	0010 WLYT	92.3	OH	Cleveland Hts		1600 WXXI	91.5	NY	Rochester
	1800 WIDB	91.7	NY	Ithaca		2040 WRTI	90.1	PA	Philadelphia
	2100 WUOM	91.7	MI	Ann Arbor	12/12	0300 WKBN	98.9	OH	Youngstown
	2215 CKOT	101.3	ON	Tillsonburg	12/15	2300 WAMC	90.3	NY	Albany
12/6	0140 WSEN	92.1	NY	Baldwinsville	12/16	1700 WKTL	90.7	OH	Struthers
	0230 WYZZ	92.9	PA	Wilkes Barre	12/19	0300 WAER	88.3	NY	Syracuse
	1630 WDEQ	91.1	OH	De Graff		1400 WSKG	89.3	NY	Binghamton
12/7	1230 WBOE	90.3	OH	Cleveland		2200 WNTQ	93.1	NY	Syracuse
	1650 WKAR	90.5	MI	E. Lansing	12/21	1620 WFUV	90.7	NY	New York
	1730 WBCL	90.3	IN	Ft. Wayne	12/29	1700 WITF	89.5	PA	Hershey
	1800 WKSU	89.7	OH	Kent					
	1900 WQED	89.3	PA	Pittsburgh					

I started FM DX on 11/29/76. (Welcome to the world of FM DX -- you'll like it! - fjn)

John Ebeling - 9209 Vincent Ave. So. - Bloomington, MN 55431

This past fall was very poor -- none of the good tropo conditions one usually expects in Sept. & Oct. So far this winter, I haven't had any Au to speak of. New underlined.

11/15 Tr	0012 KRPR	89.9	MN	Rochester, r, 10w.	12/13 Tr	2247 KRGI	96.5	NE	Grand Island
11/29 MS	0631 WMFC	99.3	AL	Monroeville	1/2 Es	1714 KQXY	94.1	TX	Beaumont, m, New CL
12/13 Tr	1155 KDCM	94.3	MN	Windom, new sta.		2200 KPLG	92.9	AZ	Flagstaff, r, New CL

Ralph Strobel - 2510 McCalliard Road - Muncie, IN 47303 (EST)

(This report is a continuation of Ralph's report from the previous page - fjn)

12/9 Tr	0111 WGTE	91.3	OH	Toledo, c	12/14 Tr	0052 WKIQ	93.5	OH	Bowling Green, r, Q-FM
	0112 WUOM	91.7	MI	Ann Arbor, c		0053 WAUP	88.1	OH	Akron, j
	0113 WCOL	92.3	OH	Columbus, p		0059 WAEZ	97.5	OH	Akron, m
	0114 WMHE	92.5	OH	Toledo, r		0100 WCCQ	98.3	IL	Crest Hill, m, s/off
	0115 WHFI	94.1	MI	Jackson, m		0137 WMAD	106.3	WI	Middleton-Madison, m
	0116 CPPL	95.9	ON	London, j	12/15	0017 WHOK	95.5	OH	Lancaster, k
	0119 WHNN	96.1	MI	Holland, r		0030 WSIU	91.9	IL	Carbondale, r
	0120 WJR	96.3	MI	Detroit, m		0045 WQRX	106.3	IL	Benton, p
	0122 WGCL	98.5	OH	Cleveland, r		0105 WLNR	106.3	IL	Lansing, g, s/off
	0125 WIOT	104.7	OH	Toledo, p		1730 WFPL	91.9	KY	Louisville, c
	0127 WJOX	106.7	MI	Jackson, r		1731 WPNE	89.3	WI	Green Bay, nx
	0128 WWW	106.7	MI	Detroit, p	12/16	1820 WSTR	99.3	MI	Strugis, r
	0129 WBEA	107.3	OH	Elyria, m		2230 WETS	89.3	TN	Johnson City, c
	0130 WGPR	107.5	MI	Detroit, s	12/19	0010 WPRC	100.1	IL	Lincoln, m
	0131 WVXU	91.7	OH	Cincinnati, r		0700 WVCM	100.1	KY	Carrollton, k
	0131 WAMX	93.7	KY	Ashland, r	12/20	0033 WQWQ	104.5	MI	Muskegon, m
	0137 WLAP	94.5	KY	Lexington, r		0035 WGFA	94.1	IL	Watseka, m
	0139 WTAE	96.1	PA	Pittsburgh, r	12/24	0905 WFGH	90.7	WV	Fort Gay, r
	0143 WPAY	104.1	OH	Portsmouth, g		0907 WSAE	89.3	MI	Spring Harbor, nx
	0153 WKLR	99.9	OH	Toledo, r		0935 WFWA	106.3	IL	Sullivan, m
	0154 WECS	102.9	WI	Milwaukee, k	12/25	0101 WCSR	92.1	MI	Hillsdale, m
	0200 KLIK	103.7	IA	Davenport, r		2217 WIQB	102.9	MI	Ann Arbor, p
	0201 WJJD	104.3	IL	Chicago, k	12/26	0020 WFUR	102.9	MI	Grand Rapids, m
	0202 WOJO	105.1	IL	Evanston, e	1/3	1300 WUOL	90.5	KY	Louisville, c, new
	0204 WYEN	106.7	IL	Des Plaines, r	1/4	0218 WLRS	102.3	KY	Louisville, p
	0210 KMMU	90.7	MO	St. Louis, c		0257 WPLB	107.3	MI	Greenville, k
	0121 WBKY	91.3	KY	Lexington, c, s/off		1830 WRSP	89.9	OH	Miamisburg, r, 10w.
12/13	0000 WEKU	88.9	KY	Richmond, r		1900 WCWT	91.9	OH	Centerville, r, p, 10w.
	0015 WYMO	98.3	MI	Monroe, m, s/off		2217 WNIL	95.3	MI	Niles, m
	0130 WMBD	93.3	IL	Peoria, r		2330 WQTE	95.3	MI	Adrian, m, "Cutie"
	0132 WQFM	93.3	WI	Milwaukee, c	1/5	1650 WQNC	89.1	IL	Naperville, r
	2300 WQRS	105.1	MI	Detroit, c		1710 WKTN	95.3	OH	Kenton, m
	2315 WPBF	105.9	OH	Middleton, j	1/6	0452 WIDR	89.1	MI	Kalamazoo, p, 10w.
	2330 WLBH	96.9	IL	Matoon, m		0500 WBUU	88.1	OH	Bowling Green, p
	2345 WHAD	90.7	WI	Delafield, nx		0501 WUPM	96.7	MI	Albion, g
	2353 WHTT	96.9	IL	Moline, r		0812 WVPE	88.1	IN	Elkhart, p, s/on
	2358 WJJJ	103.1	OH	Johnstown, 3WJ		0834 WSEI	92.9	IL	Olney, m
12/14	0000 WCLW	105.3	OH	Mansfield, r, s/off		1900 WTHI	99.9	IN	Terre Haute, m
	0030 WERN	88.7	WI	Madison, j, c					

No Es noted for many months -- Ralph.

Southern F.M.DX

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

February 1977

Deadline: 10th

If you can believe it, DX in the South got even worse in December. This month, there was absolutely no FM DX reported. This apparently was caused by the cold, rainy, wintry, just plain miserable weather which was prevalent over most of the Southeast. A spokesman for the Atlanta office of the National Weather Service summed up the December weather picture as not being one with record breaking cold, but still one with below normal temperatures. Practically all weather fronts which affected the South were cold fronts that produced no DX, only rain, ice, and snow.

This month, we have another report from Hank Holbrook on his DX from last summer which we have been saving for bleak times such as this. Hank's report covers April, May, and June of 1976 and is not, of course, current DX. Maybe though, it will help remind us that things will be getting better soon, hi.

Hank Holbrook, 7211 Chestnut Street, Chevy Chase, MD 20015 EDT

DXing from our cottage at Fair Haven, MD overlooking the Herring and Chesapeake Bays 15 miles below Annapolis, MD. Receiver is a Scott 310E FM tuner with Blonder-Tongue booster. Antenna is a Finco 10 element single bay FM yagi with CDE AR-33 rotor. Antenna is about 110 ft. above the water as our cottage is situated near the top of a hill. Reception to the S and SW is blocked somewhat by cliffs so best trop reception is from N and NE.

4-24-76
tr 1904 WWOC 94.3 Avalon NJ r;300miles
many oldies with PSA, wx & ads

4-25-76
tr 1207 WXTR 104.1 La Plata MD k;30mi.
2002 WPGT 90.1 Poanoke Rapids NC g;180mi
hard to copy, WTB off air

5-29-76
tr 0716 WRCV 92.1 Mercersburg PA r;100mi.
"Stereo 92, WRCV", QRM from
WLPL/WCTI/WOTS

5-31-76
tr 1134 WJLY 92.1 Moyock NC r;160mi. NC DX
rare here. "Music Radio WJLY"

6-11-76
tr 0510 WKSS 95.7 Hartford CT m;275mi.
"KISS, WKSS 96 - All music all
the time." They expressed sur-
prise as they null in this dir-
ection. 50kw.

0759 WHPH 90.3 Princeton Junction NJ
140mi. only 16 watts!

6-12-76
Es 1307 WBTR 92.1 Carrollton GA 595mi.
1257 WABE 90.1 Atlanta GA c;560mi.

Plenty of announcements for ID
WBTR & WABE first from GA here

6-15-76
tr 1216 WKTV 92.3 New York City r;220mi.
good with antenna pointed on them.
Many NYC educational stns heard
daily at good strength. 9kw
with ant. atop Empire State Bldg.

6-26-76
Es 1229 WCMQ 92.1 Hialeah FL L;920mi. all SS
1239 WAMR 92.1 Venice FL 865mi. In til
1310 though WCMQ was the dominate
station on the channel
1245 WWRN 92.1 West Palm Beach FL 850mi.
In and out between WCMQ & WAMR
1242 WFPN 92.5 Key West FL m;1030mi.

(My thanks again, Hank, for these old reports.
... dsc)

Don't forget to report the results of the winter Es season, and to start getting ready for the spring tropo season. Maybe temperatures will warm up soon and we can get an early start on those good ole spring ducts. Til next month,

Best of DX,

Dave

Thank you for your order!



We're pleased that so many members have taken advantage of the new WTFDA REPRINT SERVICE in recent months. By anyone's standards, this new club institution has been a rousing success: we've received nearly 1500 pages of orders since our first catalogue was published in July! If you're new to WTFDA, reprints of past articles are a great way to get started in the TV-FM DX hobby. For more information, just see your copy of the catalogue!

WESTERN FM

Steven C. Wiseblood
707 Loma Way
Santa Maria, CA 93454
Deadlines: 10th

For FM Diers West of the MISSISSIPPI River!

Send in YOUR report TODAY!

Patrick Martin, P.O. Box 14192, Portland OR 97214 (PST) (7/16 - 11/30)
7/16 Tr 0315 KEUT 94.1 WA Seattle, KPDQ off 10/17 Tr 1100 KLCC 90.3 OR Eugene, j
8/9 Tr 0210 KZAM 92.5 WA Bellevue, KQON off 11/30 MS 2015 KQHU7104.1 SD Yankton, (EL) m
The MS burst of 11/30 was very strong for 15-20 seconds w/ Easy-Listening music. A couple of colleges are fighting over 87.7. KLYK-105.5 has automated album rock.

Jim Pizzi, 300 Park, Orcutt CA 93454 (PST) (7/31 - 10/10)
7/31 Es 1455 KNCT 91.3 TX Killeen, ID @ 1500 8/2 Es 1444 KPAS 93.9 TX El Paso, g, mono
1514 KWED 105.3 TX Seguin. 1447 KEZE 96.3 TX El Paso, \$ m, (EL)
1518 KBER 100.3 TX San Antonio, m(EL) 1448 KLOZ 102.1 TX El Paso, \$ r
1519 KPWD 102.1 TX Fort Worth, FM-102 1449 KOPE 104.9 TX Mesilla Park, ID
1529 KSUC 88.3 TX Keene, ID 1451 XHTO 104.3 Chih Ciddad Juarez

Doug Everitt, 1710 W. Maine, Enid OK 73701 (December 1976!) (CST)
6 Es 1041 KWIX 97.5 TX Waco, m 740 19 Es 1737 XEJP 93.7 DF Mexico, m 1200
12 MS 2214 KPJB 101.1 IA Marshalltown 460 1750 XHSH 95.3 DF Mexico, rm 1200
13 MS 0006 KJSK 101.1 NE Columbus, ann. 750 1805 XROY 100.9 DF Mexico, L 1200
19 Es 1710 XEBS 89.7 DF Mexico, c 1200 1807 XHJQ 91.3 DF Mexico, ann. 1200
1712 XHM 88.9 DF Mexico, r 1200 20 Es 1845 XHRA? 89.1 JAL Guadalajara

Equipment used: KT-8007 tuner & 10-el FM yagi @ 35'
TV Es has been markedly improved in December, although much of it so far has been towards Mexico. MUF of 19 Dec stayed at 100.9 for over 1/2 hour. Very nice Tr ducting into IA & NE noted on UHF in December, but nothing too unusual on FM. (Get a pre-amp! -sw)

Pat Dyer, 5315 Silvertip Dr., San Antonio TX 78228 (CST) (7 Oct - 7 Jan)
Equipment: ALLIED 426; HALLICRAFTERS SX-62 w/International Crystal SAA-1 preamp
11/17 Es 1838 CJOM?88.7 ONT Windsor, m (EL) 12/19 Es 1659 KLOL 88.1 CA Long Beach, ID
1846 WCMU?89.5 MI Mt. Pleasant 1701 KXLU 88.9 CA Los Angeles, ID
Tr 1846 KYUP 95.3 TX Uvalde, ID 75 1932 KCSN? 88.5 CA Northridge 1210
Es 1852 WVPE 88.1 IN Elkhart, r, ID 1935 KPCS? 89.3 CA Pasadena 1195
1911 UnIDs 88.9, 90.9 12/21 Es 1834 XHNP? 89.3 PUE Puebla, 735
1920 WNUR 89.3 IL Evanston, wa, ID 1955 KSDS? 88.3 CA San Diego, j 1120
1923 WMBI? 90.1 IL Chicago, g 1045 1955 KPBD? 89.5 CA San Diego 1120
11/25 Es 1557 WVPE? 88.1 IN Elkhart, r 1095 1958 KPFD? 94.1 CA San Diego, c 1120
1559 CJOM 88.7 ONT Windsor, m (EL) 12/25 Es 1802 KSDS? 88.3 CA San Diego 1120
11/26 Es 1707 XHNP? 89.3 PUE Puebla, m 735 1812 KPCS? 89.3 CA Pasadena 1185
1710 XHCM? 88.5 MOR Cuernavaca 735 1812 KPBS? 89.5 CA San Diego 1120
1713 XHM? 88.9 DF Mexico 690 1812 XHLS? 90.3 CA Tijuana 1100
1713 XEBS? 89.7 DF Mexico 690 1815 KPFD- 94.1 CA San Diego, promo
1745 TG-- 88.1 GUAT Guatemala 1120 1815 KVIM? 93.7 CA Coachella, L 1070
1745 TGDX? 94.9 GUAT Guatemala 1120 1815 KPOL? 93.9 CA Los Angeles, p
1746 TGY 98.6 GUAT Guatemala 1120 1815 KMET? 94.9 CA Los Angeles, m
1812 TGRT 88.8 GUAT Guatemala 1120 1815 KJOI? 98.7 CA Los Angeles, EL
88-89's in til 1900. 1815 KOLA? 99.9 CA San Bernardino
12/10 Es 1925 KBYU? 88.9 UT Provo, c 1045 1815 KNOB? 97.9 CA Long Beach, EL
1935 KUER? 90.1 UT SLC 1080 1815 KWYD? 98.5 CA Cathedral City
1945 KALL? 94.1 UT SLC 1080 1815 KOTE 106.3 CA Lancaster, ad
12/18 Es 1628 XHNP? 89.3 PUE Puebla, m 735 1832 KBBY 95.1 CA Ventura, r, ID
1630 XHM? 88.9 DF Mexico, EL, m 1832 KLOS? 95.5 CA Los Angeles, r
1630 XEBS? 89.7 DF Mexico 690 1833 KAFX 107.9 CA San Clemente, ABC
1630 XEDA? 90.5 DF Mexico 690 1834 KROQ 106.7 CA Pasadena, p, ads
1630 XHOK? 91.3 DF Mexico 690 1834 KNAC?105.5 CA Long Beach 1180
1638 XEJP? 93.7 DF Mexico 690 1834 KBGA 105.1 CA Los Angeles, ads
1639 XHSH? 95.3 DF Mexico 690 1839 KSTP 105.9 CA Los Angeles, ads
1639 XHCM? 88.5 MOR Cuernavaca 735 1847 KPMB?100.7 CA San Diego 1120
1644 XEW 96.9 DF Mexico, r, W-FM 1847 KDIG? 98.1 CA San Diego 1120
1645 XELA? 98.5 DF Mexico, c 690 1847 KPFG? 96.3 CA Los Angeles 1190
1649 XERC? 97.7 DF Mexico 690 1903 KYKY? 96.5 CA San Diego, EL
1649 XHPOP?99.3 DF Mexico 690 1922 KPRI 106.5 CA San Diego, r, ads
1650 XHOF?105.7 DF Mexico 690 28 Es 1730-1745 unID 88.1 Latin mx (GUAT?)
1650 XHD? 106.5 DF Mexico 690 1/1 Es 1825-1840 unIDs through 106.7
1715 TG--? 88.1 GUAT Guatemala 1120 1/2 Es 1655 WIAA 88.3 MI Interlochen, c
1726 TGY 98.6 GUAT Guatemala 1120 1656 WCMU? 89.5 MI Mt. Pleasant 1235
1735 TGDX 94.9 GUAT Guatemala 1120 1659 WPNE- 89.3 WI Green Bay, ID
TGRT 88.8 GUAT Guatemala 1120 1659 WERN- 88.7 WI Madison (//89.3)
Pats report continued next month!

AUTOMATED ^{FM}MS DX

Peter Sawatzky
244 Neilson Ave.
Waterloo, Ontario
N2J 2M3

Part 2 of 2

In the last installment of this article a description was given of a technique designed to log ID'able meteor scatter based on the principle of taping automatically on locally "quiet" channels at times of highest ID probability.

The system now to be described differs significantly functionally from that previously described. It should be noted that the previous system was compatible with any receiving system, i.e. it did not depend functionally on the type of receiver used with regards to any special electrical signals derived from same. This system, on the other hand, while more closely approaching the ultimate goal of taping all MS, and virtually only MS, has the drawback that a single design is not necessarily compatible with all types of receivers, the reason for this being that the signal used to detect MS is derived from the stereo pilot lamp. For this reason, I shall not attempt to present any specific circuitry, but rather to demonstrate what is functionally being attempted.

Using TTL logic circuitry, the circuit is basically designed to perform the following "OR" function (as can also be seen in Fig. 1): A tape recorder whose "auxiliary" input is connected to the "tape output" of the receiver is caused to remain idle (i.e. not recording) with the recorder keys in record mode under 1 or more of the following conditions:

1) When the stereo pilot lamp is off

OR

2) From 20 seconds after the stereo pilot has been turned on until the next time that it turns on again after an interruption

OR

3) For a 15-minute period after the pilot lamp has turned on a prechosen number of times within a prechosen period of time

To explain all this:

#1 is obvious. When the stereo pilot lamp is off, no signal is present, at least not from a stereo station. Therefore, we do not want any recording to be done.

#2 is explained as follows: Let us assume that virtually all MS receptions are of a duration below 20 seconds. Therefore, if the stereo pilot lamp remains on for more than 20 seconds continuously, we can assume with reasonable confidence that what we have is not MS, but possibly an unanticipated Tr reception on the chosen channel (probably not rare DX that would be wanted on tape), unanticipated spillover from an adjacent frequency, local electrical noise triggering the stereo pilot lamp, or one of any number of other things which is not desired on tape in the quest for ID'able MS. Feature #2 is also useful for monitoring frequencies which are occupied by daytime-only locals. At most only 20 seconds will be taped of the local before it goes off, the night will be spent normally taping MS, and only the first 20 seconds will be taped of the local when it goes back on the air.

#3 has shown itself to be a particularly useful function when monitoring by this method on frequencies occupied by stations which are in the 150-200 mile range. These stations are not desirable on tape but occasionally surface above the stereo threshold. We know that MS comes in more or less discrete bursts, not generally great in number per unit time. Weak Tr (of the non-ducting variety), however, has the tendency frequently to flutter in and out with some semblance of periodicity. This phenomenon is particularly noticeable with airplane scatter. We could say, under most circumstances, that if we were monitoring one of the previously mentioned channels and the stereo pilot lamp turned on and off, say, 10 times in a 15-second period, what we were receiving was not MS, but Tr of the type described. As this mode of propagation has a tendency to linger it would be desirable to disable the tape recorder entirely for 15 minutes or so. As well as omitting the taping of Tr, this function also frequently deletes local electrical noise which may cause the stereo pilot lamp to react in a similar fashion.

It should be mentioned at this point that features 1, 2 and 3 presuppose that the receiver in question has a stereo threshold adjustable to a point just above the noise level. The tuner for which design was originally intended was the Heathkit AJ-15 which meets this specification satisfactorily. The 20 seconds and 15 minutes are, of course, periods of time which were chosen somewhat arbitrarily, based only on past

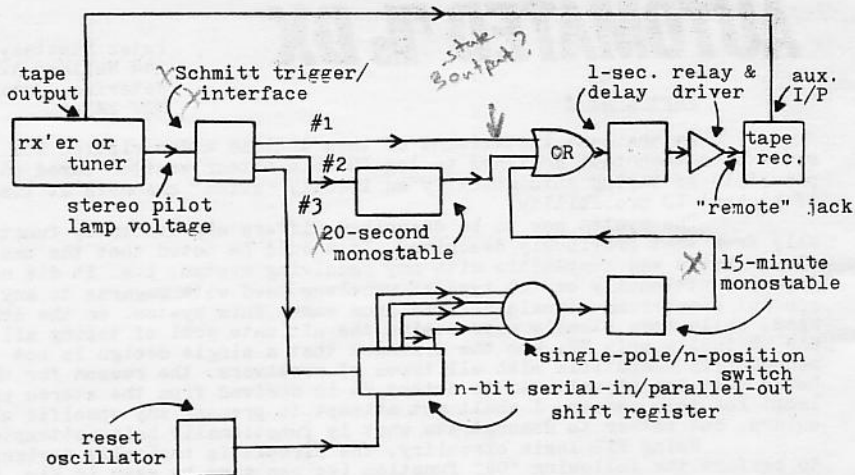


FIG. 1

experience and personal preference.

Having now discussed the basic function, let us take an overall look at the system (Fig. 1).

The stereo pilot lamp provides the signal to be processed. An interface to condition the voltage for TTL compatibility is required as well as probably a Schmitt trigger to speed up rising and falling voltage levels to improve the noise level during switching.

Function #1 is accomplished straightaway with the signal simply fed to the OR gate. Function #2 is accomplished with a non-retriggerable 20-second monostable (using a 555 timer) and this signal is again fed to the OR gate.

Function #3 requires somewhat more circuitry. The signal from the interface is fed to a serial-in/parallel-out n-bit shift register. An n-position single-pole switch (non-shorting) chooses the appropriately significant output bit and relays this to a 15-minute non-retriggerable monostable (again a 555) and from there again to the OR gate. A reset oscillator clears the shift register periodically. The reset oscillator performs the function of setting the "predetermined time" within which stereo pilot lamp "bursts" will be counted, and the single-pole n-throw switch performs the function of setting the "predetermined number" of bursts within that period of time. Providing the predetermined number is never reached within the predetermined time, the 15-minute monostable will not disable the system. Flexibility of the system is greatly enhanced by making the frequency of the reset oscillator variable (1 pulse/15 sec.; 30 sec.; 60 sec.; and 120 sec. was used) and the addition of the n-position single-pole switch (bits 3-14 were used with a 12-position switch). This flexibility is desirable during meteor showers and also to accommodate local signal conditions on different frequencies.

Once all 3 functions have been achieved and fed to the OR gate, it is useful to add a one-second delay circuit such that the tape recorder does not stop immediately after an MS burst, because weak remnants of the MS may still exist immediately following the point at which the stereo pilot lamp can no longer recognize a signal. At the expense of 1 second of tape time it would be well advised to tape these probable remnants for the possibility of ID's. Another reason for the delay is to ensure that the tape recorder does not turn on and off repeatedly when a string of bursts is recognized. The tape recorder has a certain start-up time and under some such circumstances, on playback, nothing readable might be heard without such a delay circuit.

The delay circuit drives a relay which turns the tape recorder on and off (in the case of cassette recorders) via the "remote" jack (the smaller of the 2 jacks that microphones plug into).

To allow the operator to recognize what is happening throughout

the circuitry at any time, it is good practice to have front-panel LED's. Under heavy meteor shower conditions it is also desirable to make features #2 and #3 defeatable.

This block diagram description is merely intended to offer the reader insight to the approach taken by this DX'er and in no way intends to show specific circuitry and logic levels throughout. A thorough description of one such circuit already built would involve considerable more space than is economical in the VUD. Hopefully, however, it will stimulate sufficient interest with some DX'ers familiar with TTL logic to encourage them to design a similar system. Earlier systems have been attempted incorporating only feature #1, but an unacceptable amount of Tr is taped in this manner on all but a very small number of totally quiet frequencies.

One obvious disadvantage of this entire approach is the fact that it is impossible to tape monaural MS. This problem is, of course, not found in the system described in the previous article. Both techniques have been tried and it has been found that the system described in this article yields a high degree of initial success in terms of new MS loggings (an average of nearly one new MS logging per week for an initial 10-month period, plus numerous MS relogs). However, before long, it appears that relogs become increasingly more frequent as the number of frequencies suitable for monitoring by this technique is fairly low in most areas. The technique described in the previous article, of course, permits one to monitor frequencies adjacent to locals in spite of spillover causing stereo pilot lamp triggering and other frequencies unsuitable in general for the circuitry described here. Spillover, etc. would cause the tape recorder to be turned off most of the time despite possible incoming MS with the technique described herein.

Both techniques suffer the problem of not being able to pinpoint the time at which an MS reception was made. This problem can be entirely solved with the previous technique by using a stereo recorder and simultaneously recording WWV on one channel. But with the technique described here this is not as easily done as taping does not always occur when a voice time check is provided by WWV.

The photographs below show finished versions of the systems described in this and the previous article.

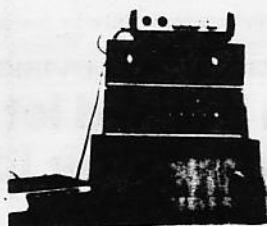


FIG. 2a - Front view

MS taping equipment showing, from top to bottom, cassette tape recorder, MS tape unit described in Part 1 of this article (including digital electronic clock), and MS tape unit described in this article (Part 2).

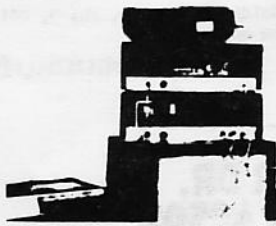


FIG. 2b - Rear view



AT THE TOUCH OF A BUTTON...you can switch from American to British and European television standards and back again, with this miniature television set by Sinclair Radionics which will be on the market by the time you read this. It's 4 inches wide, 6 inches long and 1.5 inches deep, and is billed as the world's first multistandard TV receiver! Priced at about \$300, it should be a real DX bargain when F2 starts to bring in European television! Our thanks to members Dave Cox, Ken Simon, and Tom Yingling. CWI

C.C.I. [UNIDENTIFIED DX]

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

Send all your unidentified DX here!

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

Sun Dec 12 MS ch 3 0111 CST--"Canal 3" ID slide with musical tones. Ant. west. XHBC? XHBC schedule shows them on to 0200 CST with movie, I have seen them run more "Canal 3" IDs than XHBC IDs but still is hard to say if this is them (FEA).

Frank Aden, Jr., 1535 NW Ithaca Ave., Bend OR 97701 (1976 & 1977 unIDs)

Sun Dec 5 MS ch 3 1224 PST--Wedge type TP with grey background. Call letters or other written information in upper left hand corner. Ant. east. KLINE reports it is not them. No other ch. 3 schedules would have them running a TP at this time. Suspect central US & Canada (FEA).

Wed Dec 22 MS ch 3 2202 PST--Ad for "Brauns". Is this company name familiar to anyone? Suspect Central US and Canada as ant pointed east.

Fri Jan 7 MS ch 3 2354 PST--CB with digital time in lower right corner. Time on TP was 0054 MST 1554 but seconds unknown. Three bursts were seen with 0154 CST antenna pointed east. Could this be an AST station or were 0254 EST they messing with the clock? Anyone have any ideas? 0354 AST

Mike Reid, 109 Arjay Cres., Willowdale ONT M2L 1G6 (1976 unIDs)

Sat Aug 21 TR ch 5 0616 EDT--"I Love Lucy" to 0622. VA, DC were in that morning. All schedules for ch. 5s in this area are negative (FEA).

Thu Oct 7 MS ch 4 0449 EDT--Spot for "The Best Deal". Illinois heard. Ant. WSW.

Tue Oct 12 MS ch 4 0559 EDT--Sign on? KIT-35. STL call? (Probably FEA). Ant. South.

Identifications

Sept. TV-CCI, Paul Gaines, June 28, ch. 5, 0030 EDT. KXAS definitely. Mike Reid reported he watched this for quite a while.

Oct. TV-CCI, Morrie Goldman, June 29, ch. 3, 0017 EDT. Mike Reid reports this is not CKVR as Canada uses Celcius scale.

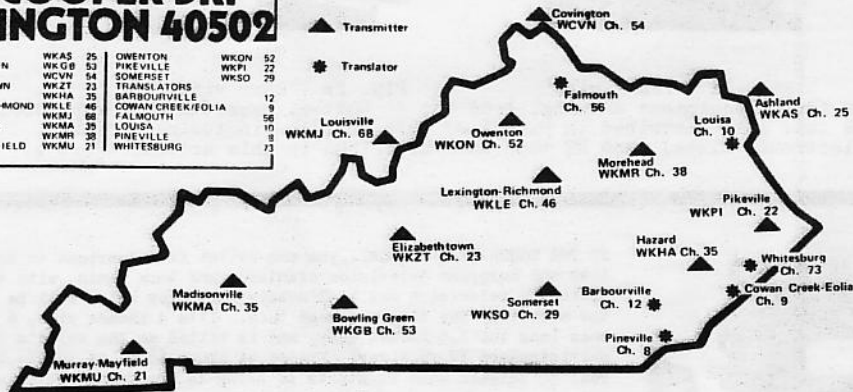
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COVINGTON	WCWN	54	SOMERSET	WKSO	29
ELIZABETHTOWN	WKZT	23	TRANSLATORS		
HAZARD	WKHA	35	BARBOURVILLE		12
LEXINGTON-RICHMOND	WKLE	46	COWAN CREEK/EOLIA		9
LOUISVILLE	WKBJ	66	FALMOUTH		56
MADISONVILLE	WKMA	35	LOUISA		10
MOREHEAD	WKMR	38	PIKEVILLE		8
MURRAY/MAYFIELD	WKMU	21	WHITESBURG		73



(continued on page 22)



VHF UTILITY DX

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

FEBRUARY 1977

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

<u>7-21</u>	1907, C.G. 1393	119.7	nr Bal. (Coast Guard HH52A helic.; 25 w)
<u>8-9</u>	0825, KXR 71	156.54	Bal. (Baltimore Maritime Exchange)
<u>12</u>	1353, KHBA	157.3	off Annapolis (EXXON HOUSTON, Tanker)
<u>18</u>	1949, N481A	119.7	27 mi s Bal. (Altair Airlines, Inc.; Flt 56; NORD-262; 29-passenger; 25 w) (Braniff Flt 17, NY-Dallas; 25 watts)
<u>2-25</u>	1540, N7276	132.85	25 mi w Newcastle, DE (Braniff Flt 2; 25w)
<u>10-15</u>	1559, N7292	132.85	18 mi se Wash N'tl Apt (Fairway Corp.; Beechcraft 99; 2-eng turbo, 15-pas.; 8 w)
<u>16</u>	1658, N70MD	134.4	nr DC (J. Ray McDermott & Co., Inc.; Falcon Fan Jet 20, 2-eng, 12-s; 20 w)
	2058, N636Q	122.2	n McGuire AFB, NJ (General Thermodynamics Corp.; Beech J-35, 1-engine, 5-seat)
<u>17</u>	1448, N701MG	131.0	vic West Minister, MD (Midland Glass Co., Inc.; Falcon Fan Jet, 2-e, 12-s)
<u>22</u>	2139, -	127.95	n Roanoke, VA (Piedmont 74; 737; 30 w)

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

Reports as of Dec 9th that the new weather station in Birmingham, KIH 54 on 162.55 MHz was on 24 hrs/7 day for the past several weeks; test transmissions with very complete ID's every 3-5 minutes; antenna is "atop" WBIQ-TV's.

Now, my loggings. Allied A-2586, Hallicrafters SX-62, Hammarlund SP-600-JX10; two 30' long-wires at 12' (ne-sw, nw-se runs); all are Es except * P2 daily MUF peak; GMT used

<u>12-12</u>	1440, 30.30 *		
<u>15</u>	0315, Los Angeles, 35.38, Mobile phone		
<u>19</u>	1530, 30.30 *		
<u>20</u>	1938, KIN 645 35.22 Miami, FL (tone pager)		
<u>23</u>	2040, Los Angeles, 35.46, mobile phone		
<u>26</u>	1820, 30.02 * (Canadian medical pager)		
<u>27</u>	0245, KSC 645 35.58 Chicago, IL (tone pager)		
<u>1-1</u>	0710, Los Angeles, 35.38		
	0712, Los Angeles, 35.46		
<u>4</u>	1910, Los Angeles, 35.46		
<u>5</u>	1646, KOE 257 35.22 Phoenix, AZ (tone pager)		

Canada operates a hospital paging service on 30.02, 30.22, 30.42. It's a tone alert with voice messages. Any members with more info on them? I've never caught any ID's on them, just doctors names, ward numbers, etc.

WWV pronouncement - effective February 1 the outlets on 20 and 25 MHz will become mute. The 2.5-MHz outlet has been "saved". WWVH will keep 20 MHz alive with its signal. It is regrettable that such useful propagation indicators have been lost. They did serve as well in P2 as Es conditions.

73, Pat WA5IYX

QUESTIONNAIRES STILL NEEDED...We're not yet giving up hope that you'll return your WTFDA MEMBER SURVEY, which was included with your July 1976 VUD and has remained dormant since that time. Any DX club needs the participation of its members to prosper, and we need your opinions and comments to determine future policies! We've been holding the survey results until a majority of WTFDAers have returned the postpaid cards; at this writing, we need those of 24 more members, and are hoping that yours will be one of them! It'll take you no more than ten minutes to fill out your card and indicate WTFDA's weaknesses and strengths, and it will be appreciated! If you've ignored the survey until now, have been busy with other things, or simply forgot, please send your survey in today! ---CWI

QSL CORNER

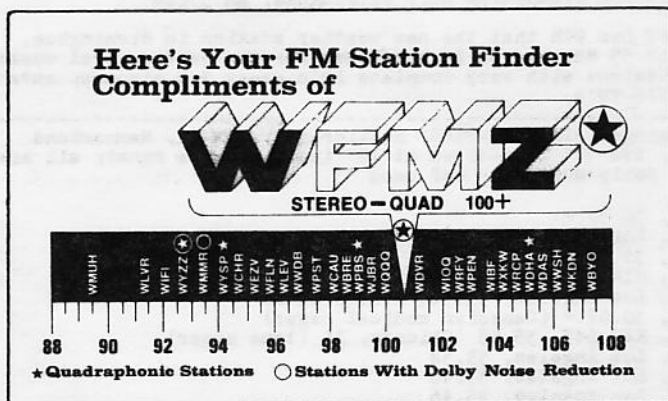
Thomas J. Yingling, jr.
221 Pinewood Road
Baltimore, MD 21222
Phone # 1-301-282-5649
Deadline: 10th

FM-QSL Freq.

- DE WJRR 99.5 Wilmington, 2617 Ebright Rd, 19810, send qsl card in 4 days. (tjy)
VA WKEZ 95.7 Norfolk, 720 Boush St, 23510, letter from John B. Zaua, manager of Engineering in 5 days. New call for WTAR-FM. Letter on WTAR-FM letter head paper. (tjy)

TV-QSL Ch.

- IL WTTW 11 Chicago, 5400 N. St. Louis. Ave, 60625, Letter from Larry W. Ocker Chief Engineer. Reply in 4 days. (jdh)
IN WLFI 18 Lafayette, P. O. Box 18, 47902, note on returned report, hard to read looks like Rober Handle, Dir. of Engineering. Reply in 43 days. (jdh)
IN WILL 38 Terre Haute, Box 719, 47808, Letter from Mary C, Childers, promotion manger. Reply in 16 days. (jdh)
Ont. CKCO-3 42 Wallaceburg (site at Oil Springs, Ont.), verie on glazed paper, with information of CKCO-TV ch. 13, CKCO-2, CKCO-3, CKCO-4, CFCA-FM stereo, & CKKW-AM 1090khz. No signature. Report send 4-5-76, verie received 11-5-76 a total of 214 days. Address is Central Ontario Television Limited, 865 King St., Kitchener, Ont. N2G 1E8, Canada. (fw)



Reporters are John D. Hathaway of Champaign, IL, Frank Wheeler of Erie, PA, and me. The above dial card is from my collection. I hope to have more contributions once more members send in their reports to the new qsl column. I also hope to have some more reports for right now I'm out of items for the column. Please report something. I did get a new typewriter, for my old one traded in for a Olivetti. 73's to later on. *Tom*

PSB DXers!

On behalf of Tom Yingling, I'd like to encourage you to send in some of your QSL's to the new QSL CORNER. PSB QSL's are often difficult to come by, as detailed by Terry Colgan in a past series, since public service stations aren't interested in casual listening; they exist only to provide information (i.e. private point-to-point communication) in emergencies. Air and sea QSL's may be the most difficult of all! We'd also be interested in knowing if anyone has managed to obtain QSL's from any of the dozens of NOAA Weatheradio stations across the United States; these low-power outlets are among the easiest PSB targets to ID, with station identification typically coming every 5-7 minutes, and location (i.e. street address) given frequently. Although some PSB stations forbid divulging of information heard (under the Privacy of Communications Act), it can often be avoided by providing just enough info to secure the QSL. So whatever your PSB QSL's, send them in!

INCREASE YOUR STATION TOTALS
BY UNDERSTANDING POLARIZATION
PART I

This series, originally presented as a lecture at WTFDA's 1976 Convention, basically is divided into three parts: first, exactly what polarization is; second, what we know about polarization at TV and FM frequencies; and most important of all, how we can take advantage of what we know, so that we can indeed increase our station totals as described in the title.

What is polarization? I suppose we should immediately go to the dictionary definition and determine that it is "the direction of an electromagnetic field as radiated from a transmitting antenna." It's very difficult to illustrate this concept in a single plane, but we have attempted to do so with the drawings on the next page.

Figure 1-A shows a folded dipole transmitting antenna, which because of its length is inherently cut to a specific frequency. It radiates an electromagnetic field in its horizontal plane, and only in that plane. We call these signals that are radiated only in a single plane linearly polarized.

Practically, if a transmitting station wanted to transmit that type of signal in all directions, it would have to utilize a turnstile, or use two folded dipoles crossed by about 90 degrees. In that manner, the electromagnetic radiation would still be in the same plane, but would be radiated in about 360°. This gives us what we call an omnidirectional pattern. Some of you may be familiar with such an antenna for FM also, which is an attempt to receive signals from all directions. The turnstile arrangement is shown in Figure 1-B.

The other way we can go, and the one we're most familiar with is the AM antenna, which is said to be vertically polarized (Figure 1-C). If you were to place a folded dipole perpendicular to the ground, the radiation is still broadside to the dipole, but because it is vertical, it is automatically radiated in all directions (360°). This, of course, is the reason why car radio AM antennas are situated in that direction, and most FM car antennas are unfortunately are that way as well.

An analogy for this difference between horizontal and vertical radiation would be driving into a private parking area and putting your parking card into the slot. The slot has to accept the card in one plane; it simply cannot enter any other way. A coin and a vending machine work similarly. The importance of this analogy, and of having everything properly aligned, will be discussed shortly.

If we look at that same horizontally polarized transmitting antenna, keeping it in the same plane, and place a dipole receiving antenna in the same plane, then tie a field strength meter (FSM) to it, we will receive a certain amount of signal, depending upon power transmitted, and so forth. But we find that we can rotate the receiving antenna through a certain amount of angular displacement, perhaps about 40 degrees, and the signal appreciably remains the same. This is primarily due to the capture effect of the receiving antenna, and the height of the transmitted wave. So, we need not align the antenna perfectly in the plane of the radiation; the signal will remain reasonably the same otherwise (an arbitrary signal level of 1000 microvolts has been chosen for the example in Figure 2-A).

However, if we take the receiving antenna and rotate it 90° in free space, the signal theoretically will drop off by a factor of nearly thirty to one. Therefore, in the example shown by Figure 2-B, we now have perhaps only 30 microvolts. So, we severely decrease the signal in this manner, and we can rotate that antenna through quite a wide area with much-reduced signal, until we reach a direction about 40° from the transmitting plane. The conclusion of all this, of course, is that the receiving antenna must remain in the same plane as the transmitting antenna for maximum gain.

The polarization of TV and FM stations in the United States basically fall into these two categories: For TV, basically, horizontal is used. This is why, if you drive around town and look at TV antennas, they are standard in that the elements are all parallel to the ground. For FM, some stations transmit horizontally-polarized-only signals, but the majority radiate signals that include both horizontal and vertical polarization. I say include because they may be circular, they may be elliptical, but the end result is that they send out signals that are, in fact, both horizontal and vertical.

The big "push" to vertical polarization for FM stations began, in earnest, perhaps five or six years ago. During that time, a lot of DXers could have taken advantage and received a lot more stations, if they had known which were horizontal and which were both horizontal and vertical. With vertical, the stations are obviously aiming at cluttered areas in cities where listeners may have a line cord or no antenna at all; and in many cases, stations didn't put out as much power in the vertical plane as in the horizontal.

Some of you have probably heard about the circular polarization tests at WLS-7 in Chicago. As opposed to linear polarization, circular polarization is one in which the polarization is constantly changing--from horizontal to vertical and everything in between. Basically, it is constantly rotating. An analogy might be a screw being turned to hold a piece of wood in place. The theoretical advantages of circular polarization, which agree with those proven by the WLS tests, is that in extremely cluttered areas with tall buildings, etc., ghosting is immensely reduced. There has been no evidence that the range of the station has been extended, although most of us feel that it will be.

So what does all this mean to the DXer? Well, he doesn't particularly care whether or not he can receive ghost-free signals if he lives in a cluttered city area--he doesn't care about locals whatsoever. But the possibility of more stations going to circular polarization can open up a tremendous new amount of avenues for DXers, and increase their totals immensely, as will be shown later.

For the moment, though, let's just say that the circular polarization tests have proven to be beneficial in eliminating ghosts, particularly in areas where there are tall buildings. A trade publication article which attempts to show how this is done basically shows a "cancellation" effect, with the end result being that ghosts are reduced. I won't spend any great deal of time discussing the effect here, as it is probably of minimal use to DXers.

Next month, Part II of this series will discuss how polarization relates to TV and FM, and some of its peculiarities.

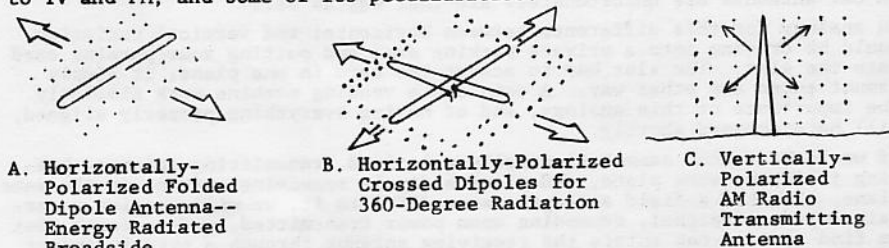


FIGURE 1. DIRECTION OF THE ELECTROMAGNETIC FIELD FROM TRANSMITTING ANTENNAS

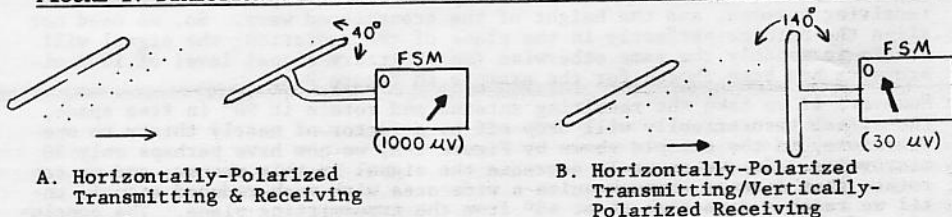
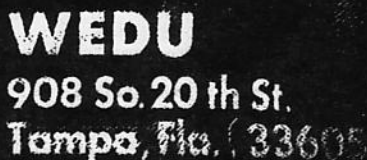


FIGURE 2. EFFECTS OF POSITIONING RECEIVING ANTENNA WITH RESPECT TO TRANSMITTING ANTENNA



WEDU
908 So. 20 th St.
Tampa, Fla. (33605)

WEDU- 3 Tampa, FL
Es (FG)



KIII-TV Channel 3
CORPUS CHRISTI, TEXAS
(LW-33, KCP-57, KFT-36, KFT-37)

KIII- 3 Corpus Christi, Tx
485 mile tropo (RL)



13
KTRK-TV
Houston

KTRK-13 Houston, TX
320 mile tropo (RL)



Madison
27
WKOW-TV

WKOW-27 Madison, WI
315 mile tropo (FG)



Technical Difficulties
Have Said by
BRYAN

KBTX- 3 Bryan, TX
Es (KS)

WANTED: More photos of DXers, antenna systems, and DX "shacks"

Contributors:

- FG = Paul Gaines,
Detroit, MI
RL = Ron Le Blanc,
Marrero, LA
KS = Ken Simon,
West Palm Beach, FL

73 and good DX,

Jim

Cornwall	CBOC-fm	95.5	on air:relays CBO-fm 6-9am/4-6pm, CBO-am other times
Cornwall	CBOF-fm-1	98.1	on air: relays CBOF-am CBOF-fm at different times
Chatham	CBEE-fm	95.1	35,500 watts relay of CBF-am Windsor
Sarnia	CBEG-fm	106.3	50,000 watts relay of CBF-am Windsor
Ottawa	CHEZ-fm	106.1	100,000 watts \$ Prog.rock Target Feb.77 Ryan Tower
London		93.5	100,000 watts ex.CBL-am Toronto/ CBL-fm 6-9am 84-6pm
Burlington	CING-fm	107.9	50,000 watts \$ calls itself "sing stereo 108"
Kenora		93.5	20,000 watts ex.CKSB St.Boniface Man. CBC-AM-Fr.
Dryden		102.7	1,500 " " " "
Dryden		100.9	100,000 " Ex.CBO Thunder Bay,CRW Winnipeg CBC-AM-Eng
Sioux Narrows		95.7	1,300 " " " "
Savant Lake		104.9	78 Watts " " "
Osnaburgh		104.5	81 " " "
Pickle Lake		105.1	83 " " "
Pikangikum		100.3	34.2watts " " "
Sandy Lake		101.1	36.9 " " " "

MANITOBA

Winnipeg	CHIO-fm	94.3	was 6,500 watts now 100,000 watts
Brandon		97.9	100,000 watts CBC AM & FM English Nets mix.
Baldy Mtn.		105.3	95,000 watts ex. CBW Winnipeg Eng. AM net.
Fairford		104.3	11,800 watts " " "
Fisher Branch		95.7	5,400 watts " " "
Jackhead		92.7	33,000 watts " " "

SASKATCHEWAN

Regina	CBKF-fm	97.7	to:13,700 watts ehaat 501 feet
Regina		96.9	100,000 watts CBC FM Eng. net. \$stereo
Fond Du Lac		100.1	779 watts ex. CKK Regina CBC AM Eng.
Black Lake		93.3	1,360 watts " " "
La Ronge	CBKA-fm		adds local studio originations for community groups.
Stanley Mission		95.5	216 watts ex. CBK
Pinehouse Lake		94.1	86 watts ex CBK

ALBERTA

Calgary	CBRF-fm	103.9	10,000 watts ex.CHFA Edmonton CRC FR AM
Peace River	CKIA-1	96.9	100,000 watts CKIA-fm
Grand Paarie		100.9	100,000 watts ex. CBC AM Edmonton (CBR)
Lethbridge	CHFA-1	104.3	1,660 watts ex. CHFA Edmonton CRC FR AM
Lethbridge	CBRX-fm	100.1	110,000 watts ex. CBR-am/ CBR-fm Edmonton
Chateh		103.5	122 watts CBC Edmonton Eng. AM
Calgary	CFCN-fm		new calls: CJAY-fm
Calgary	CFVP-fm	92.1	74,000 watts \$stereo
Cranmore		97.9	70 watts CBR-AM Relays
Pincher Creek		97.5	44 watts " " "
Exshaw		100.7	138 watts

BRITISH COLUMBIA

Alert Bay		105.1	77 watts ex.CBU-am CRC Vanc.
Woss		92.9	125 " " "
Vancouver		94.5	38,000 watts---CHUM LTD applicant: DENIED
Lytton	CFFM-6	106.1	5 watts
Hope		107.1	136 watts ex. CBU-am Vanc.
Kelowna		95.7	4,700 watts ex. CBU-am
Penticton		93.3	1,800 watts relay of Kelowna above
Vernon		105.5	1,880 watts " " "
Kamloops		94.1	4,750 watts relay of CBU
Golden		101.7	130 " " "

N.W.T. Eskimo Pt	CBIG-fm & Igloodik	CBII-fm	add local studios
Port Radium		105.1	82 watts ex CFYK Yellowknife

The CRTC has issued a license to a new group of stations which will broadcast all-news. Several frequencies have not at this date been determined. The 67 khz SCMO will "broadcast" visual alpha-numeric news, possibly with commercials included. As much is subject to change, ie: erps, here is a partial listing of frequencies:
 London On.99.3 Halifax...unknown ; St John NB. 98.9; Winnipeg Man. 99.1;
 Montreal 98.5---denied no station) Vancouver 96.1; Edmonton 105.9; Calgary 103.1;
 Regina Sask. 94.5; St Johns Nfld 101.9. ---no calls issued yet.

More From Québec: Camp L-G3 James Bay	100.5	115 watts Fr.lang
Trois-Rivieres	100.1	4,326 watts ex. CBF-am
Povungnituk	99.9	29 watts Eng.Fr, Inuktitut Languages

NEW BRUNSWICK

Cambellton CHCR-tv was: 15,400 wts vid. now: 13,830 watts video
 Cambellton CKCD)
 Upsalquich CKAM) To disaffiliate from CBC and rebroadcast CKCW Moncton,CTV.
 Newcastle CKAM-1)

Quebec Jonquiere CKRS-tv was 20kw now 208 kw, therefore delete CKRS -1 -2 -3 on channels 9,2,4, respectively.

Chicoutimi CBJET-tv ch.58 10kw vis. (may id as Saguenay, relay of CRMT Montreal)

ONTARIO: CHOV ch.5 Pembroke...currently relays CBOT-tv ch.4 Ottawa, but has been sold to

*Cambrian Bcing.,--owners of CKSO Sudbury. Feed may change in the future

North Bay CKNY-TV now owned by Cambrian (CKSO Sudbury) pgm feed may change.
 Barrie CBLFT--7 ch.55 7,000 watts vis. relay of CBLFT--ch.25 Toronto
 Penetanguishene CBLFT-TV-8 ch.34 11,300 watts vis. relay of CBLFT-7 above
 Sarnia CBLFT-TV-? ch.68 39,700 watts vis.
 Driftwood CBFOT-3 was:10 watts now: 1.22kw vis.
 Kenora CBWAT was 9.3kw now 8kw vis, but much higher antenna.(ehaat unknown)
 Sioux Lookout CBWDT-1 was 5 watts now 30w!

MANITOBA

Fairford ch.7 2,000 watts vis. relay of CBWT Eng-CBC
 Jackhead ch.5 3,400 watts vis. "

Saskatchewan

Stanley Mission Ch.8 333 watts sat. of CRKST Saskatoon
 Uranium City CBKAT 370 watts
 Black Lake ch.7 320 watts ex. CBKAT
 Argourg CKYA-tv ch.8 was 1,940wts.vis. to: 31,000watts vis, and moves TX to
 Swift Current ch.12 13,000 wts.vis. (ex.ckck-tv) Fisher Branch

ALBERTA

Burmis ch.47 588 watts vis. (ex. CBC-TV eng. Lethbridge)
 Lethbridge CJOC-TV affiliation change to CTV network 1/9/1976.
 Calgary ch.16 2,590 watts ex. CBXFT EDMONTON
 Lethbridge ch.23 620 watts "
 Rosemary CBRT-5 was: 25,300 watts vis nl now: 125,450 watts vis.
 Lethbridge ch.10 123,000 watts vis. directional ex. CBRT
 Chateh ch.5 151 watts vis. ex.CBXT Edmonton.

BRITISH COLUMBIA

Vancouver CBUFT ch.26 105,500 watts vis. On air. CBC Fr.
 Vancouver CKVU ch.21 880,000 watts vis On air. Indep.
 Port St. John CFPV-1 to: 146 watts vis.
 Trail ch.8 4,400 watts vis (CHAN repeater via CHKL Santa Rosa)
 Oliver Osooyos ch.3 930 watts vis. Chan repeater
 Nelson ch.3 130 " " " "
 Victoria ch.10 160,000 watts vis. CBC ENGLISH, local studios.

Some other interesting notes: Over the air, scrambled Pay-TV to begin by April via KBSC TV Ch.52 Los Angeles --National Subscription Television (50% owned by Oak Industries, of Ill.) owns KBSC and seeks licenses or authority to lease many other U's including WXON-20 Detroit. WTCC-17 Atlanta began relaying its signal via RCA Satcom Dec.17/76. It is now receivable, via stillite, anywhere south of Prudhoe Bay Ak, and James Bay Canada. ...expect CRTC hearings soon on SCMO (SCA). It will be used as an additional radio spectrum, just like am and fm..rather than private "muzak" in the U.S...with receivers available to the general public.....also expect the silly Buffalo Ny. "Rordder War" to dissipate, following a Canadian Cabinet decision to back-down on cable-tv commercial deletion from Buffalo signals....the CRTC is faced with mounting pressure to allow Pay-TV on cable and over the air. Spring hearings are expected, with some new hardware for coding signals.

73's for now, MLL and JJR

CCI (continued from page 14)

FEBRUARY 1977

WUAB-43 Cleveland is now listed in the Pittsburgh Metro edition of TV GUIDE.

Last November some Bend mail was stolen and none of it has been returned. If anyone sent in a report but has not seen it in the last few columns, I suggest you send it in again, as it may be part of the missing mail. Thanks to Clarke Ingram for this month's information on KET.

73's until next month,

EASTERN TV-DX

Bill Thompson
1907 Seneca Street
Buffalo, NY 14210

February 1977

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

Both the Northeastern U.S. and Eastern Canada have been experiencing what is now being regarded as the worst winter of the century so far. The situation we described last month has generally gone from bad to worse, so apart from the occasional scattered regional opening, tropo has been insignificant. The annual (more or less) midwinter ducting over long-haul paths in the Northeast and Midwest may not occur this year, and the reason why is very obvious. As the extremely cold and unusually constant southerly arctic flow continues, the west-to-east storm track across the continent continues to move through the extreme southern part of the U.S., hundreds of miles further south than usual. This may well be part of the reason that the expected midwinter Es openings never really showed up at the traditional peak period. Those DXers who are interested in the relationship between heavy thunderstorm activity and E-skip cloud formation should note that areas where such violent weather is apt to occur during the midwinter peak had record cold weather—and even snow—instead. Will things get any better? They can't get any worse!!!

Ray Barstow 70 Heritage Circle Teaticket, Massachusetts 02536 (617)548-2329

October (EDT)	4 Tr 2330	WBLY-65 CT	27 Es 1430	KGLO-3 IA
4 Tr 2155	WVTA-41 VT	5 0015	WBRE-28 PA	1500 WMT-2 IA
2200	WETK-33 VT	0200	WGBB-10 ME	"more off-season Es channels 2, 3, 4 at times"
	WKWK-52 NH	26 Es 2330	WEDU-3 FL	
2300	W61AC-61 CT	27 0030	KTEW-2 OK	
Waterbury (WEDW)		1330	WISC-3 WI	

Veries back from WKPT-19 TN & CKCO3-42 ON. "Not much this reporting period. I am having tower problems, etc. Almost lost the TRI EK tower twice. First time, base cracked on one side, with 7' dish in some trees holding up tower at 45° angle. Found out the hard way not to lower tower in the wind. With tower all the way up, reception was very bad. I must have a bad connection or maybe the 7' dish & VHF antenna are too close and degrading performance. Hope to clear up the problem before it gets too cold outside."

Paul D. Traska 64 Weaver Avenue Buffalo, New York 14206 (EDT/EST)

September	28 MS 0550	WJXT-4 FL	2 Tr 2040	WKBS-48 PA
30 Tr 1200	WOUC-44 OH	30 Tr 0540	WHIO-7 OH	"snow free most times"
1215	WOPC-38 PA		Dayton	
1930	WTPA-27 PA	MS 0630	WDTN-4 OH	2041 WLVT-39 PA
	WHP-21 PA			"snow free"
October		December		
1 Tr 1230	W63AB-63 PA	4 Tr 1945	WKAR-23 MI	2041 WNJT-52 NJ
3	2330 WABO-49 OH		WUHQ-41 MI	"good signal"
	2332 W39AA-39 IN		"CCI on 19"	2041 unID-66 "xltr"
4	0005 WOSU-34 OH	January 1977		2043 WTPA-27 PA
7	1300 WOUC-44 OH	2 Tr 1930	"Very good signals from: Youngstown U's Binghamton U's Elmira, Akron, Detroit, Cleveland U's, plus Syracuse, Utica, WAKR-23 MI WOUUC-44 OH WBYI-25 MI	3 0000 W64AB-64 PA 0007 CICO-24 ON 0030 W68AD-68 NY
8	1230 WLVT-39 PA			2355 W68AD-60 NY Savona (WSKG)
14	1700 WKBS-48 PA			0000 W64AB-64 PA 0007 CICO-24 ON 0030 W68AD-68 NY
	1702 WNJT-52 NJ			Corning (WSKG)
20	1650 WDCA-20 DC			
23	2245 W63AB-63 PA			

"A long wait for those WSKG xltrs...what are they, half-watts??? Log at 431."

HAVE YOU NOTICED ?

Prices of WTFDA supplies and DX literature are now lower than ever before! Here's your chance to stock up on such items as club stationery, QSL report forms, and VUD boxers—all at prices equal to or less than what they were several years ago! And if you're a new member, you can purchase such items as BEYOND SHORTWAVE, the WTFDA TV STATION GUIDE, and back issues of the VUD at incredibly low prices! We can't guarantee how long these super-reduced prices will be in effect, so we suggest that you order immediately. For full details, see our back cover!

CENTRAL TV-DX

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

February 1977

Deadline: 10th

For TV-DXers in the states of Il, In, Ia, Mi, Mn, Oh and Wi,---Report Today!!!!

Another lousy month for dx. Cold temperatures being the main deterrent. I was listening to the weather report the other day and the wx man said December (1976) was the coldest on record (records go back around a hundred years). The temperature averaged 15 degrees below normal for the month. It looks like January is going to be the same. This morning the temperature was -25 deg.

Jim Gould; R.R.#1, Kokomo, In, 46901 EST (317)-452-9585
11-8 Tr 1759 KTTT-10 Mn 2412 (396)

"With no dx in last 2 months to report I would like to use the space to request from fellow members to please include tropo distances in their reports. This is especially true when loggings are listed by call and state. I usually go over all reports in the VUD and in many cases I miss some good distances in other reports because I'm not familiar with the stations or DXers' location.

I would also like to ask if any club member has access to 200' of .75 cable with RG-59 adapter ends that they would be willing to sell and send to me. If so, please drop me a line."

Paul Gaines; 15920 Puritan St., Detroit, Mi, EST
WCBS-2 Ny (490) seen almost every day from 11-10 to 12-8.
11-17 Ms 0353 WWL-4 La 1012(940) 11-27 Tr 0517 WSAZ-3 Wv 1022(280)
12-1 Tr 0112 WQWK-13 Wv 1022(280)

John D. Hathaway; 2109 Tamarack Court, Champaign, Il, 61820 CST?
11-2 Tr 2226 WILL-38 In., Terre Haute 11-3 Tr 2355 KDNL-30 Mo., St. Louis.

Equipment used: Zenith TV and indoor antenna. Present log total: 44 stations.

Buck Battin; 4305 Pitt, Duluth, Mn 55804 CST Report period: 12-4 to 12-31.
4 Tr 0245 WBAY-2 Wi(255) 18 Tr KTTT-10 Mn(195)@0117 26 Tr 1100 WKBT-8 Wi(210)
5 Tr 0045 KTCA-2 Mn(140) 0140 WJMN-3 Mi(250) 28 As 2018 chs.2-5; North.
1030 WFRV-38 Wi(255) 0141 WFRV-5 Wi(255) 29 Es 2232 at 35Mhz.
11 Tr 0100 WBAY-2 Wi(") 23 Tr 0630 KGLO-3 Ia(260) 31 Es 2140 " "

Equipment: Jerrold antennas; UHF Para-cyl; Lo VHF--two 10 element yagis, one vert. polarized, the other horiz. polarized. Hi VHF--one ten element yagi. Antennas range in height from 20 to 35 ft. Also, a 30-50Mhz receiver with ground plane antenna.

"My antenna system is now completely installed including a ground plane for detecting Es building up at 35Mhz and a vertically mounted low band yagi. So far the best I've been able to do with five antennas, two rotors, two TV sets and a radio is a very weak signal on some Green Bay stations at 255 miles and one Iowa station at 260. Or, to put it another way, DX has been lousy.

On the subject of TV sets, the Admiral 16" color set I'd been using for DX died so I replaced it with two black and white sets. Not knowing any way to test a set for DX in a showroom, I sort of twisted some knobs, made my best guess and shelled out. I came up with a K-Mart 9" solid state model and a Sylvania 12" tube type. Both sold for under \$90. The K-Mart seems surprisingly well made. It has the same weak-signal pulling power on VHF and UHF my Admiral did. The dials are easy to read and the UHF detent tuner always reads right on the channel. The picture is stable, right down to fade out. My only complaint is that the audio lags behind the picture. A signal strong enough to bring in a stable snowy picture may be very weak on audio.

The Sylvania has less pulling power than the K-Mart. It's just the opposite of the K-Mart though; in that it provides good audio even after the picture fades out. The dials are hard to read and it has an annoying hum. However, it has one real advantage--the adjacent channel rejection is fairly good for a small set--on the K-Mart it's typically poor. Anyway, for what it's worth, those are my observations on the two models."

Don Ruland; 4448 68th Place, Kenosha, Wi, 53140 CST Report period: 11-17--12-19
17 Es 1900 KTBS-3 La(780) 11 Tr 0658 WEHT-25 In(320) 19 Tr 0200 WLEX-18 Ky(330)
24 ES 1730 Unided-2; S. 14 Tr 0555 WLKY-32 Ky(330) 0900 WUAB-43 Oh(310)
25 Tr 0855 KBMA-41 Mo(430) WUAB-43 Oh(310) WVIZ-25 Oh(330)
11 Tr 0645 WLKY-32 Ky(330) 19 Tr 0200 WDRB-41 Ky(330) Log total:438

William J. Draeb; Ellis St. R.R.#2, Kewaunee, WI. 54216 CST 12-13 to 1-5	
13 Tr 2038 KTSB-27 KS(560)	15 Tr 1958 KMTC-27 MO(588)
2052 KCBJ-17 MO(450)	" " " " " " " "
KINL-30 MO(432)	2020 KTVJ-16 " (630)
WICS-20 WI(325)	16 Tr 2111 WVIZ-25 OH(355)
2:03 WKYT-27 KY(473)	WUAB-43 " (340)
2104 WKSO-29 " (538)	2125 WOSU-34 " (395)
2114 KOZK-21 MO(588)	17 Tr 1940 KINL-30 MO(432)
KMTC-27 " " " "	1943 KOZK-21 " (588)
2118 KHIN-36 IA(457)	KMTC-27 " " " "
2138 WUSI-16 IL(402)	18 Tr 1655 KINL-30 " (432)
2153 WKMA-35 KY(499)	19 Tr 0823 WHEH-25 IN(420)
14 Tr 1227 KINL-30 MO(432)	WLKY-32 KY(437)
15 Tr 1820 " " " "	Es 1900 KMID-2 or KTEW-2
1850 KHIN-36 IA(457)	5 Tr 1900 WKEN-27 OH(420)
1853 KBIN-32 IA(476)	WUTV-29 NY(445)
1910 KYNE-26 NE(481)	1943 KOZK-21 " (588)
	1355 CICA-19 OH(410)
	1401 CHLFT-25 " " "
	1407 CIGO-28 " (345)
	1515 CHLFT-76 " " "
	Es 1900 KMID-2 or KTEW-2
	5 Tr 1900 WKEN-27 OH(420)
	WUTV-29 NY(445)
	1920 CHLFT-25 OH(410)
	CICA-19? " " "

My sincere apologies to Michael Hogan whose report I seem to have misplaced. I was about to type it up but when I looked in the envelope in which it came, nothing was in there. I remember receiving the xmas card which I have put thought there was a DX report with it; maybe not, I guess my mind is failing me. (Thanks for the card Mike and to the other DXers who sent me cards).

I just received a last minute post card from Michael Hogan which reads: "There is no TV-DX to report from this location due to the re-evaluation of my DX set up. A new receiver (TV) is in the offing, and finally, the addition of a long awaited rotor. '73's"

CONVENTION BIDS '77

In accordance with our notice last month that convention bidding would close on January 20, the two offers below are the only ones which can be considered for the 1977 WFFDA convention site. Please examine both possibilities, and then make your preference known to your editor.

PORTLAND, OREGON

Hosted by Bill Block, Pat Martin, and Frank Aden
Portland would provide the first WFFDA Convention on the west coast and would allow many western members to attend. Possible activities would be tours of local TV and FM stations, and a DXpedition to one of the nearby hills. The Holiday Inn near the famous Lloyd Center (one of the largest shopping malls in the US) has indicated that if 25 or more members were to attend, a free meeting room would be provided. Probable dates would be the first weekend in August.

Portland is a very beautiful city in itself with a population of over 380 thousand and about a million in the metro area. The area has many tourist attractions with the Cascade Mountains to the east and the Pacific Ocean less than 100 miles to the west. Portland is served by many airlines, as well as Amtrak and Greyhound, among others. A local tour agency has indicated that special air fares would be available to anyone wishing to attend a Portland WFFDA Convention.

DUNKIRK, NEW YORK

Hosted by Bob Seybold, also '70 and '73 WFFDA host
The third Dunkirk WFFDA Convention would probably be on the first weekend in August, and would be either at Bob's hilltop DX location or at his traditional repair shop. A large equipment display is planned, including TV/FM receivers and antennas with rotors, a 7-foot UHF parabolic dish, and all types of UHF amplifiers including B-T, Winegard, etc. Expeditions to Bob's hilltop location will be made if the convention is not held there. There will be at least one cookout, as well as snacks and refreshments throughout the convention.

On Saturday evening, a banquet will be held at the Vineyard Motel, at which many attendees stayed during the '73 convention. The motel features a swimming pool and playground, as well as 39 air-conditioned rooms with (of course!) TV. Of historical interest is nearby Fredonia, NY, while the area provides many tourist attractions such as golf, boating on Lake Erie, tennis courts, etc.

If there is the slightest possibility that you might be able to attend a convention at either location, please drop a note to your editor (Clarke Ingram, 5201 Colewood Drive, Pittsburgh 15236) indicating your choice for the '77 convention site. Votes must be received by February 20, 1977. We expect to have a confirmed site and dates for an announcement in the March YUD. We also expect considerably more votes than the 13 we received for the 1976 site! Cast your vote today!

SOUTHERN TV DX

John F. Combs
816 W. Harvard
Orlando FL 32804
Deadline: 10th!

After complaining about the lack of good tropo openings in last month's column, the past month's activity seems to have made up for it. Several good openings have occurred, with UHF loggings in the neighborhood of 500-700+ miles. Ken Simon reports several instances of 400-500 mile UHF's coming in at VAFI 5555!! As for myself, my work schedule has caused me to miss three of these nice sessions! (Aaarrghh!!!) The winter E-Skip season has been going quite well. (See E-Skip chart below). Most of the skip here in the Southeast seems to have come from the west, including one really bang-up Mexican opening in which all channels 2-6 were 2-3 stations deep!!

E-Skip Chart:	Date:	Dec.	18	20	21	22	24	28	Jan.	1	2
# of reporters:			3	2	1	1	1	3		3	1
MUF at least:			6	5	2	4	3	6		5	3

Randall B. Clark, RT5 Dutch Ridge, Parkersburg WV 26101 (EST)

December		January			
7 T 0200	WICD-15 IL T	18 E 1417	Cuba-2 (Which one??-jfc)	1 E 1815	unIDs-2,3
10 T 0210	WQED-13 PA T				2220
11 T 1200	WVIZ-25 OH	28 E 1700	WPBT-2 FL	2 E 1800	KENW-3 NM T
	1415 WUAB-43 OH		1714 KPRC-2 TX T		1900 KMID-2 TX T

"I will be going to another QTH/college later, about February the first...hopefully! I will possibly be going to WV Tech to get my B.S.E.E. degree. Of course they have their own college radio station--WMON-1340, 1 kw, which is, unfortunately, AM. But anyway, I'll probably find out that there's an FM station as well! Maybe!" (Randy reports that his log totals are now "over 180"--jfc)

Kenneth R. Simon, 528 Pilgrim Rd., West Palm Beach FL 33405 (EST)

December		January			
4 T 2220	WECA-27 FL 360	4 T 0900	WYEA-38 GA 480	1 T 0610	WJXT-4 FL 285
	2220 WGIQ-43 AL T	to 0930	WGIQ-43 AL 475		0610 WJCL-22 GA 390
5 T 0730	WECA-27 FL T		WDHN-18 AL 440		0620 WYEA-38 GA 480
6 T 0753	W69AA FL 40	1000	WABW-14 GA 415		0625 WRBT-33 LA 720
9 T 1330	WJCL-22 GA 390		Pelham		Baton Rouge
	1330 WCJB-20 FL 260	E 1315	KPRC-2 TX 940	0635	WJCT-7 FL 285
	2105 WJSP-28 GA T		1315 KIII-3 TX T	0650	WECA-27 FL 360
	2105 WETV-30 GA T	T 1645	WJWJ-16 SC 410	0720	WHAB-46 GA 560
16 T 2100	WCJB-20 FL 260		1645 WJCL-22 GA 390		Atlanta
	2100 WECA-27 FL T	E 1730	XEZ-3 QRO 1000	0729	WCWB-41 GA 465
18 T 0700	WJCL-22 GA 390	19 T 1445	WJCL-22 GA 390	0729	WRBL-3 GA 480
	0700 WRBT-33 LA T		1530 WCJB-20 FL 260	0729	WKAB-32 AL 535
	(Most likely, Ken, as I had them at my QTH at this time--jfc)	20 E 1653	KGST-4 TX 1080	0729	WETV-30 GA 560
	0725 "All WCIX xlters VAFI 4555!!"	21 E? 1947	"Weak Ø offset over WPBT"	0729	WCJB-20 FL 260
	0900	24 T 2119	WCES-20 GA 500	0745	WTCG-17 GA 560
to 0930	WEBA-14 SC T		2123 WCJB-20 FL 260	0745	WDTB-13 FL T
	WCJB-20 FL 260	25 T 0930	WYEA-38 GA 480	0905	WGIQ-43 AL 475
	WACS-25 GA 430		1000 WNTV-29 SC 580	0905	WJSP-28 GA 495
	WJSP-28 GA 495	27 T 1930	W69AA FL 40	0922	WDHN-18 AL 440
	WECA-27 FL 360	28 E 1755	KYTV-3 MO 1080	1000	WLPP-27 LA 720
					Baton Rouge
					"VAFI 5555!"

(I have taken the liberty of approximating some of Ken's distances which he left out of his report. A phone call from Ken tells of more good DX, including yet another good spell of tropo with such goodies as WMAA-29 logged. That's over 700 miles. Unfortunately, I am pressed for time as I type this, so these loggings will have to wait. Ken promised to send a quick updater, but I just don't have time to wait for it. Sorry, Ken!--jfc) (Ken's log now at 225--jfc)

John F. Combs, 816 W. Harvard, Orlando FL 32804 (305) 843-4829 (EST)

It's been a bit of a frustrating month for me, missing some nice tropo. But I've added a few new ones, bringing my log up to 251. Most of my tropo loggings have been quite weak. My antennas just aren't high enough!! Got a nice camera for Christmas, a Fujica ST605. I plan to photograph my DX and be able to contribute to Jim Alexander's column. (My report on next page...)

John F. Combs (cont.)

December

9 M	0749	KATC-3	LA	T	18 E	1607	XHIT-4	CHIH	1525	1 E	1736	KMID-2	TX	T	
	T	0812	WSAV-3	GA	242		(Estado #5; promo				1738	KENS-5	TX	T	
10 T	0108	WCIX-6	FL	226			w/Canal 13 ID)				1740	KACB-3	TX	T	
		0113	WKRQ-5	AL	417		1615	XHCH-2	CHIH	T		1745	Had to leave		
M	0115	KALB-5	LA	689			1651	XELN-4	COAH	T			for work--		
		(prev. by Tr)					1657	XEZ-3	QRO	1315			RATS!		
T	0121	WJTV-12	MS	T			1659	XHD-4	TAMS	1135	2 T	0244	WAGA-5	GA	T
		1954	WJWJ-16	SC	290		1720	XHZ-5	QRO	1315	4 T	2056	WMAZ-13	GA	T
12 T	1044	WRBL-3	GA	T				Cerro El Zamorano				2102	WATL-36	GA	403
		1830	WFSU-11	FL	230								Atlanta		
		1830	WECA-27	FL	221		1745	Es in through 6,				2157	WHNT-19	AL	T
		1830	WABW-14	GA	244			had to go to				2205	WSFA-12	AL	380
		1845	WDHN-18	AL	301			work...many other				2208	WTVY-4	FL	T
		2243	WDCO-15	GA	T			work-unIDs not not-				2246	WMAH-19	MS	479
		2243	WJWJ-16	SC	290			ed!				2248	WDHN-18	AL	301
M	2301	unID-7				20 T	1239	WECA-27	FL	221		2252	WYEA-38	GA	341
T	2332	WSAV-3	GA	T		E	1902	KGBT-4	TX	1023		2252	WJSP-28	GA	357
16 T	1535	WFSU-11	FL	230			1902	KRGV-5	TX	T		2254	WECA-27	FL	221
		1535	WECA-27	FL	221		1904	XEFB-3	NL	T		2314	WLOX-13	MS	T
		1705	WABW-14	GA	244	22 E	1630	XEW-2	DF	T		2322	WETV-30	GA	403
17 T	0020	W33AA(!)	FL	191			1630	XHTV-4	DF	T		2330	WAGA-5	GA	403
	0857	WEBA-14	SC	320			1707	KGBT-4	TX	T		2331	WKAB-32	AL	394
	0900	WJWJ-16	SC	290			1710	XEFB-3	NL	T		2351	WHAE-46	GA	403
	0910	WSAV-3	GA	242			1728	KIII-3	TX	T	5 T	0013	WTCG-17	GA	398
	0911	WRJA-27	SC	373			24 E	1730	KFDX-3	TX	T		(All UHFs extremely weak)		
	0914	WVAN-9	GA	T		27 T	2136	WJSP-28	GA	357	9 T	0220	WTVM-9	GA	329
	0923	WBTV-13	SC	T			2136	WYEA-38	GA	341		0222	WSFA-12	AL	380
	0925	WBEF-6	SC	T			2136	WECA-27	FL	221		0222	WYEA-38	GA	341
	0939	WETV-30	GA	403			2150	WDCO-15	GA	294		0225	WCIX-6	FL	226
	0943	WHAE-46	GA	403		28 E	1703	WCIA-3	IL	951			(Many stations on late w/East West FB game)		
	0955	WEAR-3	AL	T			1712	WOC-6	IA	T		0743	WCWB-41	GA	318
18 T	0215	t/in after work					1714	KMOX-4	MO	T		1301	WRBL-3	GA	329
	0215	WRBT-33	LA	603			1732	KQTV-2	MO	1089		1303	WDHN-18	AL	301
		(Local quality--					1732	WDAP-4	MO	1048		1303	WYEA-38	GA	341
		all-nite movies)					1749	KTVQ-3	MO	T		1321	WTVY-4	AL	299
	0215	WYEA-38	GA	341			1806	KYTV-3	MO	896		1423	WECA-27	FL	221
	0702	WRBT-33	LA	603			1809	KCMO-5	MO	T		1459	WDCO-15	GA	294
		(Still in, weak)				January						2315	WHFT-45	FL	191
E	1244	KDFW-4	TX	T		1 T	0535	WTCG-17	GA	398			Miami (quite a nice birthday gift)		
	1246	KIII-3	TX	T			E	1715	KPRC-2	TX	857				
	1300	unID-2 (full CB; diagonal CGI)						1728	KMOL-4	TX	1025				
	1437	XHIA-2	COAH	T				(1st time w/new calls)							
	1512	XEFB-3	NL	1185											

* * * * *

Since I have some space to fill up, allow me to mention a couple of things. First of all--in perusing the old AIPA bulletins (see Memorabilia column), I find that DX tests were often run during MS showers in those days. I started wondering--why doesn't the WTFDA arrange such tests? It would be ideal for educational stations and others that may be off during peak MS hours. I'd like some comments on this, please. (Mostly, it's a lack of volunteers and cooperation--CWI)

Secondly, I am a bit frustrated concerning the lack of reports. According to my membership list (accurate to 2/3/76), there are 41 members in the Southern TV-DX reporting area. This means less than 10% of these members have responded to this column. If you have a copy of last month's VUUD, please re-read my comments concerning this.

Finally, I think it would be a good idea if members sent in a short biography of themselves with one of their reports. This would be a good idea for all DX columns and would include age, family, occupation, other hobbies, etc. To start it off, here are my "statistics": I'm 19 years old and a student at Florida Technological University. I plan to go to a Bible college after graduation and work in some sort of Christian ministry. My girlfriend's name is Karen, also an FTU student. I play trumpet, am very interested in music, most especially Baroque (Bach, Handel, etc.) and have two dogs and a cat. I've been interested in TV-DX since 1970 and have DXed actively since 1972.

That's it for this month. Peace be to you, and God bless.....73, John

Robert J Williams continued...

<u>13</u> Es 1930 KAMR 4 TX	<u>16</u> Es 2100 KFDX 3 TX	<u>26</u> Es 2124 KTBS 3 LA
2059 KMID 2 TX	<u>21</u> Es 1530 KBTX 3 TX	2127 KFDX 3 TX
2108 KACB 3 TX	1800 KTBS 3 LA	2144 KAMR 4 TX
<u>14</u> Es 1728 KDBC 4 TX	2309 KQTV 2 MO	<u>27</u> Es 1059 KBTX 3 TX
1830 KENW 3 NM	<u>25</u> Es 1028 KARD 3 KS	1131 KDFW 4 TX
1900 KMOL 4 TX	<u>26</u> Es 1000 KFDX 3 TX	1215 KTBS 3 LA
<u>16</u> Es 2359 KMID 2 TX	1429 KTIV 2 MO	1227 KTVY 4 OK
2000 KYTV 3 MO	1459 KMTV 3 NE	1258 KTIV 4 IA
2058 KDFW 4 TX	1519 KTIV 4 IA	1336 KDLO 3 SD

John Anderson, Box 186, Lowe Farm MS ROG IEO (December)

<u>07</u> tr 2030 KWCM 10 MN 290	<u>12</u> MS 0614 KYTV 3 MO 858	<u>17</u> tr 0215 WTCN 11 MN 360
<u>11</u> early AM: KTCA 2 MN via tropo, aurora, and MS 360	0630 KIWI 3 in centre of REIMA?	0230 KDLO 3 SD 305
MS 2350 KCKT 2 KS 758	0730 KWGN 2 CO 765	<u>18</u> tr 0040 WDIO 10 MN 300
<u>12</u> MS 0545 WTWO 2 IN 830	0800 KCKT 2 KS 857	1315 WTCN 11 MN 360
I was cleaning up the "shack" recently and came across my long-lost page of loggings. Here's the contents:		<u>27</u> tr 1405 KTCA 2 MN 360
<u>June 1976</u>	<u>27</u> Es 1450 WCBI 4 MS 1181	<u>June 1976</u>
<u>21</u> Es 1200 KMID 2 TX 1233	1700 KTVY 4 OK 950	<u>02</u> tr 0905 WIRT 13 MN 242
1200 WBRZ 2 LA 1337	<u>28</u> Es 2100 KETS 2 AR 1045	0905 WDIO 10 MN 300
1840 WVAR 2 MD 1228	<u>29</u> Es 0000 KCKT 2 KS 758	both snowfree!
1900 WCBS 2 NY 1279	1305 CKSA 2 AT 474	Es 2300 KMID 2 TX 1233
1900 WNBC 4 NY 1279	1315 CFAC 2 AT 757	<u>04</u> tr 2100 KUMV 8 ND 298
<u>22</u> Es 0000 KOAI 2 AZ 1215	1330 xltr-2 of KSTW 11 WA	73, John
(John also noted several MS unIDs on 12 December, including a couple on chs.10&13--de)		

Doug Everitt, 1710 W Maine, Enid OK 73701 (CST)

Equipment: Sony KV1203, KV5100 (AC/DC color); Motorola BS711CS, Quasar XE4242; Panasonic 19" VTR monitor/receiver; NV3020 b&w VTR. Antennas: Winegard K-10-26 lo-band yagi at 30 feet; Winegard K-10-713 hi-band yagi at 40 feet; Finco P-7 UHF dish at 35 feet; all antennas preamped and use RG-59/u foam coax. CDE AR-33, AR-40 rotators.

December 1976

<u>02</u> tr 1344 KHIN 36 IA 340	<u>21</u> MS 2230 KORK 3 NV 960	<u>02</u> Es 2010 KVVU 5 NV 960
<u>07</u> tr 1239 WRBT 33 LA 570	2237 KTVS? 3 CO 410	2011 KORK 3 NV 960
<u>10</u> Es 1850 XEZ? 3 QRO 1200	<u>23</u> Es 1510 KTVN 2 NV 1210	2029 KEYT 3 CA 1220
<u>12</u> MS 0111 XHBC? 3 BCN 1020	1512 KCRL 4 NV 1210	2029 KNBC 4 CA 1150
<u>13</u> tr 1905 KCPT 19 MO 260	1630 KNXT? 2 CA 1150	2030 KNXT 2 CA 1150
<u>18</u> tr 0850 KCBJ 17 MO 350	1630 KNBC? 4 CA 1150	2100 KSBY 6 CA 1250
0850 KXNE 19 NE 380	1630 KTLA? 5 CA 1150	2130 KTVQ 2 MT 850
0850 KYNE 26 NE 350	<u>28</u> Es 1700 WPBT 2 FL 1290	2130 KTVM 6 MT 1000
0850 KHNE 29 NE 290	1700 WESH 2 FL 1100	2135 KXFL 4 MT 1000
0850 KMEG 14 IA 420	1702 WTVJ 4 FL 1290	2210 KIVI 6 ID 1100
0922 K18AA K34AA KS	1732 WEDU? 3 FL 1080	<u>03</u> MS 1228 WCB? 2 SC 1060
0935 K71BO KS 160	1738 WCIX 6 FL 1290	<u>2E</u> 1610 WKAQ 2 PR 2000+
0945 KVFDF still 21	<u>30</u> Es 1502 KTVN 2 NV 1210	Es 1800 XEW 2 DF 1200
0950 KDUB? 40 IA 560	<u>January 1977</u>	1800 XHTV 4 DF 1200
0955 K70EN KS 190	<u>01</u> Es 1723 WCIX 6 FL 1290	1800 XHGC 5 DF 1200
Es 1930 XEFB? 3 NL 740	1729 WEDU 3 FL 1080	<u>04</u> Es 1335 KTVU 2 CA 1340
tr 2005 KGLD 11 s/free	1736 WPTV 5 FL 1240	1347 KRON 4 CA 1340
<u>19</u> Es 1511 XEW 2 SF 1200	1800 WPBT 2 FL 1290	1350 KPIX 5 CA 1340
1515 XHTV 4 DF 1200	<u>02</u> MS 1200 WESH 2 FL 1100	1354 KCRA 3 CA 1300
1649 XHGC 5 DF 1200	Es 1630 WSJK 2 TN 800	1416 KVIE 6 CA 1300
1845 XEHL? 6 JAL	1718 WCMH 4 OH 850	1435 KTVN 2 NV 1210
<u>21</u> Es 1813 XHIA 2 COA	1720 KDKA? 2 PA 1020	1435 KCRL 4 NV 1210
1835 XEFB? 2 TAM 620	1743 WWAY 3 NC 1140	<u>05</u> Es 1952 XHY 3 YUC
	1959 KOAI 2 AZ 770	<u>10</u> tr 0019 KTXS 12 TX 310

I was very confused at 1813 on 21 Dec when I saw an ad card flashed for 15 sec. on ch.3 for XETB, until I thought to look up the call to see if it was a radio outlet. Sure enough, according to Vane Jones' Station Guide, it was in Torreon, thus leading me to ID the ch.3 as XHIA.

WKAQ on 03 Jan was my first double-hop Es. True, no positive ID was seen, but heavy circumstantial evidence, such as repetitive mention of Puerto Rico, make it pretty certain. Quality ranged from fair to very good, often in color.

The DX antennas will probably remain atop 1708 for a while, until tower plans have been fully formulated. The additional downline losses don't seem to be hurting me too much. DX seems a lot easier without so many distractions over here.

I plan to take my new 5" color AC/DC set on a trip to Chicago in February; I'm going by plane--it'd be interesting to DX at 30,000 feet.... We'll see what turns up. I can foresee many uses for the new set; it should make DXpeditions much easier.

So much for my stuff... I only hope the next few months aren't a letdown!

Steven C Wiseblood, 707 Loma Way, Santa Maria CA 93454 (PST) (19 Dec-05 Jan)

Receiver: 1959 Packard Bell 19" b&w Antenna: ACA-525 25-element VHF at 25'

<u>19</u> Es 1753 MUF ch.4	<u>22</u> Es 1731 XHCH? 2 CH	<u>24</u> Es 1745 XHCH? 2 CH
1800 KMID 2 TX 1066	1731 XHI? 2 SON	<u>25</u> Es 1636 MUF ch.5
2100 XHI? 2 SON	<u>23</u> Es 1445 KCKT 2 KS 1205	1646 KMID 2 TX 1066
2107 XHBS 4 SON	1732 XHCH 2 CH	1641 KAMR? 4 TX
<u>20</u> Es 1707 MUF ch.5	<u>24</u> Es 1445 MUF ch.5	1649 KOCO? 5 OK
1730 XHCH 2 CH	1455 KMOL? 4 TX	<u>26</u> Es 1654 KMID? 2 TX 1066
1737 XHIT 4 CH	1504 XHIT 4 CH	<u>02</u> Es 1830 KMID 2 TX 1066
<u>21</u> Es 1747 XHCH? 2 CH	1520 XHCH 2 CH	1932 KCKT 2 KS 1205
1920 XHI? 2 SON	1530 XEPM? 2 CH	

Not an awful lot of tropo (try none--de), but a heck of a lot of Es. In fact, Es was seen for eight days in a row, with the MUF peaking around 1730 local time each day! Not much noted in January, though. It is raining today (postmarked 07 Jan--de), snowing down to 2500'. I guess many xmters will be snowed in on Mt. Wilson, etc. 73s!

Pat Dyer, 5315 Silvertip Drive, San Antonio TX 78228 (CST) (07 Dec-07 Jan)

<u>08</u> Es 1159 WESH 2 FL 1055	<u>18</u> Es 1557 Cuba 3	<u>25</u> Es 1758 XHBC 3 BCN 1010
1215 WEAR? 3 FL 685	1625 XHTV? 4 DF 690	1759 KNKT 2 CA 1190
1225 WPBT? 2 FL 1150	1628 XHGC 5 DF 690	1759 KNBC? 4 CA 1190
1235 f/out	1650 MUF 106.5 MHz	1759 KVOA? 4 AZ 750
1336 YSR 2 EIS 1200	1945 f/out	1809 XETV? 6 BCN 1100
1355 TGV? 3 Gua 1120	<u>19</u> Es 1425 YSU? 4 EIS 1200	1833 MUF 107.9 MHz
1420 f/out	1445 YSR 2 EIS 1200	<u>26</u> Es 1545 YSR? 2 EIS 1200
<u>09</u> tr 1101 KPLC? 7 LA 325	1458 XHBC? 3 BCN 1010	1555 YSU? 4 EIS 1200
Es 1900 WCBD? 2 SC 1120	1610 lull to 1627	1600 TGV? 3 Gua 1120
1910 f/out	1640 KNBC? 4 CA 1190	1730 MUF 88.1 MHz
2115 MUF ch.2	1655 KTLA? 5 CA 1190	1915 apx f/out
<u>10</u> Es 1029 KTKA 2 MN 1110	1715 KVVU? 5 NV 1040	<u>28</u> Es 1600 MUF ch.2
1045 f/out	1717 KORK 3 NV 1050	<u>29</u> Es 2158 KORK 3 NV 1050
1159 KTW0 2 WY 1015	1755 KDUH? 4 NE 940	2220 f/out
1915 KID? 3 ID 1215	1759 KOTA 3 SD 1040	2255 KUTV? 2 UT 1080
1915 KUTV 2 UT 1080	1932 MUF 89.3 MHz	<u>01</u> Es 1527 KTV0 3 MO 835
1920 KCPX? 4 UT 1080	2028 XHBC 3 BCN 1010	1534 WMT 2 IA 945
1935 KSL? 5 UT 1080	2032 KNXT 2 CA 1190	1550 KTVI? 4 IA 905
2041 KORK 3 NV 1050	2045 f/out	1610 KTKA? 2 MN 1110
MUF 94.1	<u>20</u> Es 1810 KVOA? 4 AZ 750	1623 WCCO? 4 MN 1110
2058 KEYT 3 CA 1270	1830 KNBC? 4 CA 1190	1625 KGLO 3 IA 985
2105 KNBC? 4 CA 1190	1835 XETV? 6 CA 1100	1627 WBAY 2 WI 1190
2115 XHBC? 3 BCN 1010	2030 KNXT 2 CA 1190	1820 WRBL? 3 GA 830
2117 KNXT 2 CA 1190	<u>21</u> Es 1110 KDKA? 2 PA 1280	1831 MUF 106.7 MHz
2145 f/out	1115 WAVE 3 KY 945	1901 WESH 2 FL 1055
<u>13</u> MS 0517:15 KMOX 4 MO 790	1115 WTAE? 4 PA 1280	1902 WSAV 3 GA 1050
0524:45 WRIT 6 IN 995	1117 WDTN? 2 OH 1075	1910 WJXT? 4 FL 1015
(both prior by Es)	1125 f/out	2033 WCBD 2 SC 1120
0601:15 W0WT 6 NE 830	1605 YSR? 2 EIS 1200	2040 WCIV? 4 SC 1120
0611:45 WHBF 4 IL 945	1730 WJXT? 4 FL 1015	2120 WWAY? 3 NC 1250
Es 1928 KORK 3 NV 1050	1739 WESH? 2 FL 1055	2130 f/out
1929 KOAI 2 AZ 855	1807 XHFA? 2 SON 740	<u>02</u> Es 1600 YSR 2 EIS 1200
1932 KVVU? 5 NV 1040	1810 KORK? 3 NV 1050	1605 YSU? 4 EIS 1200
1945 KNBC? 4 CA 1190	1815 KTVK 3 AZ 835	1710 MUF 98.5 MHz
1958 KNXT 2 CA 1190	1815 KPHO? 5 AZ 835	1759 KUSD 2 SD 920
2010 XHBC? 3 BCN 1010	1825 XHBC? 3 BCN 1010	1900 MUF ch.4
2030 lull to 2050; out 2058	1825 KOAI? 2 AZ 855	1959 KID 3 ID 1215
<u>14</u> Es 2120 KNXT? 2 CA 1190	1825 KVOA? 4 AZ 750	2025 KUTV? 2 UT 1080
2128 XHBC? 3 BCN 1010	1830 KNBC? 4 CA 1190	2200 f/out
2130 KNBC? 4 CA 1190	1830 KTLA? 5 CA 1190	<u>03</u> Es 1830 MUF 98.5 MHz
2132 KUTV 2 UT 1080	1842 KUAT? 6 AZ 750	1925 f/out
2150 f/out	1854 XENH? 6 SON 765	<u>04</u> Es 1250-1320 KNXT 2 CA?
<u>16</u> Es 1950 MUF ch.4 Mexico	1955 MUF 95.5 MHz	1310 KTVK? 3 AZ 835
<u>17</u> Es 1820 Cuba? 2	2010 XETV? 6 BCN 1100	1820 WSIL 3 IL 810
1835 MUF ch.4	2045 f/out	1820 WTTV? 4 IN 950
1915 f/out	<u>22</u> Es 1605 WJBK 2 MI 1225	1827 WITWO? 2 IN 935
<u>18</u> Es 1225 WCBD? 2 SC 1120	1625 WWJ? 4 MI 1225	1859 WNGE 2 TN 820
1240 f/out	1710 f/out	<u>05</u> tr 0118 KNOE 8 LA 440
1340 Cuba 2	1815 MUF ch.4	0120 KFDM 6 TX 275
1435 TGV? 3 Gua 1120	<u>23</u> Es 1245 MUF ch.3	Es 2110 MUF ch.2
1440 WTVJ? 4 FL 1150	<u>25</u> Es 1630 MUF ch.4	<u>06</u> Es 1455-1555 YSR 2 EIS?
1445 WPBT? 2 FL 1150	1740 KORK? 3 NV 1050	(comments next page--de)

Pat Dyer's comments

Got the 1971 model in working shape again, and using it for ch.2,3 & UHF, as the solid-state tuner still a mess. Geminids provided some nice new catches for me, but the Quadrantids peaked too late in the day (apx 1000 CST); bursts either too short or with too many signals anyway. A very good December Es season--with levels still good now. 73, WA5IYX

Date	November	21	22	23	24	25	26	27	30	Dec	01	08	09	10	13	14	16	17	(17 Au)
# reporters	1	3	5	4	4	4	1	2	1		1	1	3	2	1	1	1	1	1
MUF at least	2	2	4	4	4	88.7	98.6	6	3		2	3	4	94.1	5	4	4	4	4

December	18	19	20	21	22	23	24	25	26	28	29	30	Jan	01	02	03
# rpters	2	3	4	4	2	3	1	3	2	2	1	1		3	4	4
MUF	106.5	102.5	100.9	100.1	4	5	5	107.9	88.1	6	3	93.1		106.7	98.5	107.9

January (03 2E) 04 05 06 For those interested, an earlier plan to change the format of the Es chart has been dropped. I'd like to hear general comments on this chart's value.

A recent letter from Patrick Martin of Portland OR expresses displeasure at the new policy of editing reports under 200 miles (320 km). It should be made clear that reports under that distance which are "especially newsworthy" will be included in the column. Examples are as outlined last month (i.e. new station, large bulk of new member's contribution, unusual xltr logging), plus loggings over difficult paths. Patrick mentions the difficulty of receiving many stations under 200 miles in the Northwest and mountainous regions. These are good examples of rough terrain and dry, relatively tropo-less conditions, making for difficult paths, therefore making many loggings under these conditions newsworthy.

I'd like to see more comments included with reports in the future; it sure makes for more interesting reading. How about it?

Don't forget that monthly reports are always preferable; even if you haven't been seeing much, you can contribute some comments, even gripes about the lousy cx, if you like! Anything and everything (within limits...) is welcome! If you haven't reported lately, get on the ball! W7FDA depends on YOU!

73 & the Best of DX!

Doug

INTERNATIONAL NOTES from Ken Simon, 528 Pilgrim Road West Palm Beach, Fla. 33405 (305) 585-7415 FEB., 1977

I'm still looking for some of our more technically minded members to come through with plans or ideas for a converter or modifications so we can see and hear F2 skip from Europe as the sunspots climb to the top of the cycle.

A glance at our membership list show foreign members in West Germany, England, Australia, Sweden, Switzerland and Jamaica. Surely you can send an airletter with a brief outline of your local TV and FM stations. Would also like to trade magazines that pertain to TV/FM DXing with our DX members. How 'bout it?

It's been a lousy year for me trying to watch Cuban stations but it appears the ICR-Canal 6 network has change to using a 3/4 eb and Reloj Nacional AM audio. I have not been able to tell if they are using color but heard an announcement over AM radio saying that color would begin Jan.1, 1976. If so they are using the SECAM system which won't show on an NTSC(US) color set.

73'0
Ken



Post Office Box 202 - Whiting, Indiana 46394
WORLDWIDE TV-FM DX ASSOCIATION

**TOUGH
TO BEAT!**

Established 1967

SERVING THE
VHF-UHF DX
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